DSM-5™ Clinical Cases

Edited by John W. Barnhill, M.D.

Content

Note: The authors have worked to ensure that all information in this book is accurate at the time of publication and consistent with general psychiatric and medical standards, and that information concerning drug dosages, schedules, and routes of administration is accurate at the time of publication and consistent with standards set by the U.S. Food and Drug Administration and the general medical community. As medical research and practice continue to advance, however, therapeutic standards may change. Moreover, specific situations may require a specific therapeutic response not included in this book. For these reasons and because human and mechanical errors sometimes occur, we recommend that readers follow the advice of physicians directly involved in their care or the care of a member of their family.

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Preface

Acknowledgments

Over 100 authors contributed to *DSM-5 Clinical Cases*. Most are psychiatrists, but the group also includes professionals from the fields of psychology, social work, nursing, and sociology. Hardly anyone declined the invitation to write for this book, and so I was unable to ask many potential contributors—including several on my own hallway—who would certainly have turned in terrific work. Some of the book's authors had participated in the creation of DSM-5, but most had not, and a few had published articles skeptical of early DSM-5 drafts. All of the authors worked within significant length and topic restrictions, and they wrote their initial drafts before the DSM-5 text was complete. Despite their own full schedules, they responded professionally to waves of e-mailed edits, reminders, and questions, often contributing much-appreciated thoughts and criticisms. Their flexibility, expertise, and efforts are the backbone of this book.

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The single most vital contributor to my efforts, here and elsewhere, has been the 3-year-old editor and critic Katherine Barnhill, who suggested that we include "lots of pictures." While the book turned out not to include colorful drawings and photographs, we hope it does feature the sorts of rich clinical snapshots that make diagnoses come alive and allow us to better understand and treat the actual people who come to us for help.

JWB

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Introduction

DSM-5 Clinical Cases is intended to accompany the fifth edition of the Diagnostic and Statistical Manual of Mental Disorders(DSM-5) that is created and published by the American Psychiatric Association. The two books share a basic structure (the titles of this book's 19 diagnostic chapters are identical to those of the first 19 DSM-5 chapters) and primary purpose (clinical relevance). Both books spell out the criteria for many psychiatric diagnoses. Both books can be used by people outside the mental health field, although both books emphasize that seasoned clinical judgment is often required to differentiate the normal from the pathological in regard to the making of an overall diagnosis, the assessment of specific diagnostic criteria, and the recognition of important comorbidities. DSM-5 Clinical Cases is, however, fundamentally different from DSM-5 in regard to its presentation of information. Each of its 19 chapters features cases chosen to demonstrate one or more DSM-5 diagnoses, and each of the cases (103 in all) is followed by a short diagnostic discussion. Some cases were chosen to highlight common diagnoses, while others were chosen to highlight the ambiguities and controversies that have made DSM-5 discussions so hotly contested. The case presentations may include a lot of information; they do not necessarily include all of the information that might substantiate a diagnosis. Some patients are transparently honest; others present information that is uncertain, incomplete, misleading, or untrue. Some patients brought themselves for an outpatient evaluation; others were brought in by spouses, friends, or the police. In some instances, a mutually agreed-upon diagnosis can be quickly determined. In others, key bits of information might not be revealed until the end of the presentation. In still others, the diagnosis may not be clear until the discussant has clarified what might have appeared to be inchoate or contradictory bits of information. In other words, the case presentations reflect common clinical experience.

Each of the discussants was asked to act like an "expert on the shoulder," discussing the thought process that might go into a diagnostic understanding of the patient. The limit of about 1,000 words for the combined case and discussion means that neither is exhaustive, but that same brevity allows the book to highlight the ways in which experienced clinicians convert complex clinical data into a differential diagnosis. It also allows the reader to get a focused learning experience at one sitting.

Each of the discussants was asked to make a diagnosis related to the case. As clarified in DSM-5, the principal diagnosis refers to the diagnosis that appears to be chiefly responsible for the outpatient psychiatric service or the inpatient admission. The discussants were also asked to make whatever comorbid diagnoses seemed likely.

The individual case discussions address changes from DSM-IV, as do the introductions to the chapters. In addition to changes that affect individual diagnoses, DSM-5 introduces some broader changes related to the classification of disorders. The axial system is gone, for example, although the individual components remain as part of the clinical evaluation. DSM-5 indicates that all pertinent psychiatric and medical diagnoses should be listed together rather than differentiated into Axis I, II, or III. The focus on pertinent psychosocial and environmental problems (DSM-IV's Axis IV) remains important to the clinical evaluation. To better categorize pertinent psychosocial stressors, DSM-5 makes use of the system developed by the World Health Organization (WHO) in the V Codes listed in ICD-9 and the Z Codes that will be discussed in the not-yet-published ICD-10. Axis V consisted of the Global Assessment of Functioning (GAF), but this instrument suffered from a lack of clarity and questionable psychometrics, which led DSM-5 to instead suggest the use of the WHO Disability Assessment Schedule (WHODAS), which is made available in Section III of DSM-5.

A second broad classification change relates to clustering broad diagnostic categories in a way that corresponds to developmental and lifespan issues. For example, DSM-5 begins with diagnoses thought to reflect developmental processes that manifest in early life (e.g., neurodevelopmental disorders), moves to diagnoses that generally evolve somewhat later (e.g., schizophrenia spectrum, bipolar, depressive, and anxiety disorders) and ends with diagnoses most relevant to adulthood and later life (e.g., neurocognitive disorders). Similar effort was made within each of the diagnostic categories. For example, pica opens the chapter on eating disorders, while the chapter on depressive disorders begins with a discussion of a new DSM-5 diagnosis, disruptive mood dysregulation disorder.

More detailed discussion of DSM-5 changes is outlined within each chapter's introduction as well as in the individual case discussions.

DSM-5 Clinical Cases is structured to specifically the address diagnoses featured in the first 19 chapters in Section II of DSM-5. (Section I is an introduction.) Issues from the concluding chapters of Section II are discussed in cases

throughout this book. For example, the 21st chapter in DSM-5 focuses on adverse effects of medication, such as neuroleptic malignant syndrome or medication-induced dystonia. The 22nd chapter of Section II features conditions that might be a focus of clinical attention but are not mental disorders. These include family, economic, and other psychosocial problems that are detailed with several dozen V codes and Z codes as described above. Like the adverse effects of medications, these psychosocial issues are discussed in appropriate places throughout this book. While the diagnostic criteria in DSM-5's Section II have undergone extensive review, the scientific evidence is not yet available to support the widespread use of the tools, techniques, and diagnoses discussed in Section III. Nevertheless, discussions in *DSM-5 Clinical Cases* do address some of these Section III tools (e.g., the cultural formulation interview) and diagnoses (e.g., new models for the diagnosis of personality disorders, attenuated psychosis syndrome, and nonsuicidal self-injury). DSM-5 concludes with an Appendix, which includes a discussion of some of the changes from DSM-IV to DSM-5, a glossary of technical terms, and a glossary of cultural concepts of distress. *DSM-5 Clinical Cases* does include examples in which these are used, but the reader is encouraged to read DSM-5 for a more detailed discussion of all aspects of psychiatric diagnosis.

People suffer from many types of behaviors, feelings, and thoughts, and our profession's diagnostic manual, DSM-5, reflects an evidence-based understanding of this complexity. Without clinical wisdom, however, even the best guidebook will not lead to an effective understanding of our patients. *DSM-5 Clinical Cases* is intended to help us cultivate our own clinical expertise and learn how to make effective use of our profession's most current understanding of psychiatric diagnosis.

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A Note About This Book

Central to *DSM-5 Clinical Cases* are case vignettes and discussions. The cases are grouped to correspond to DSM-5 diagnostic categories, so that a case that features a primary diagnosis of autism would be found in the first chapter, among other neurodevelopmental disorders. Some of the cases were chosen to feature comorbidities, controversies, and ambiguities, but many others were chosen in order to present relatively clear-cut examples of DSM-5 disorders.

The authors of the cases and discussions were asked to work within a set of significant restrictions. The essays had to be short. They had to focus on diagnosis rather than treatment. In addition to demonstrating how DSM-5 criteria applied to the case, authors might decide to explore a differential diagnosis, comorbidities, or a cultural formulation, but they could not hope to exhaust the subject matter when limited to about 500 words. Authors were also asked to make diagnoses based on the case material. Since the cases were short and often purposely incomplete, the diagnostic discussion sometimes concluded with the same sort of tentative certainty that is common in clinical practice. Finally, because the discussions were intended to provoke inquiry, the authors were asked to provide suggested readings rather than references.

The cases are themselves based on actual patients whose identities have been disguised. After the cases and discussions were complete, the editors chose names for all of the patients. Our protocol was to provide names alphabetically, with patients under age 20 receiving only a first name. We made an effort to choose names that reflected the American cultural mosaic and that were not—by random chance—the names of people who might be mistaken for the authors' actual patients; if any of the names and clinical features happen to resemble those of an actual person, that coincidence would be what we specifically tried to avoid.

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Introduction

Robert Haskell, M.D.

In its approach to mental illness across the lifetime of a patient, DSM-5 naturally begins with the neurodevelopmental disorders. As a group, these disorders are usually first diagnosed in infancy, childhood, or adolescence. Individually, these disorders have undergone a mix of pruning, reorganization, and clarification, including one of DSM-5's most controversial changes—to the definition of and diagnostic criteria for autism.

In DSM-5, autism spectrum disorder describes patients previously divided among autistic disorder, Asperger's disorder, childhood disintegrative disorder, Rett's disorder, and pervasive developmental disorder not otherwise specified. These are no longer considered to be separate clinical entities. The new criteria include 1) persistent and pervasive deficits in social communication and social interaction and 2) restricted, repetitive patterns of behavior, interests, and activities. As now defined, autism spectrum disorder (ASD) can be subcategorized by the presence or absence of intellectual impairment and/or an associated medical condition. In addition, the identification of three severity levels helps clarify the need for additional social or occupational services. For example, a patient requiring "very substantial support" might display extreme behavioral inflexibility or might possess 20 words of intelligible speech.

Attention-deficit/hyperactivity disorder (ADHD) continues to be subdivided into two symptom dimensions (inattention and hyperactivity/impulsivity), with a core requirement being the presence of at least six symptoms from either or both of the two dimensions. For example, inattention might be noted by the presence of such behaviors as making careless mistakes, failing to follow through with homework, and losing books. Criteria for hyperactivity/impulsivity include fidgetiness, impatience, and garrulousness. The diagnosis of ADHD is generally incomplete without inclusion of dimensional specifiers (predominantly inattentive, predominantly hyperactive/impulsive, or combined). Several of these symptoms must have been present prior to age 12, a change from DSM-IV's requirement that symptoms causing impairment be present prior to age 7. Another change is a reduction in the number of symptomatic criteria for adults from six to five within a particular dimension. These latter two changes reflect evidence that "loosening" criteria allows for identification of people who have symptoms, distress, and dysfunction that are very similar to those of people already diagnosed with ADHD and who can potentially benefit from clinical attention. As is true throughout DSM-5, it is up to the clinician to diagnose only those people who meet symptomatic criteria and whose distress and dysfunction reach a relevant clinical threshold.

Falling in line with both federal legislative language and the words used by sensitive practitioners, DSM-5 has replaced the term *mental retardation* with *intellectual disability*. The three core criteria are unchanged: deficits in intellectual function and in adaptation (in areas such as communication, work, or leisure), as well as an early age at onset. The diagnosis no longer depends, however, on formal intelligence testing. Instead, DSM-5 invites the clinician to make an aggregate assessment of severity, from mild to profound, according to three important life domains: conceptual, social, and practical. For example, a person with severe intellectual disability might have little understanding of concepts like time or money, might use language to communicate but not to explain, and would likely require support for all activities of daily living.

Disorders of communication first observed in childhood include language disorder (formerly divided into expressive and receptive language disorders); speech-sound disorder, in which the patient displays an impaired ability to produce the phonological building blocks of words but has no congenital or acquired medical condition that explains the impairment; childhood-onset fluency disorder (stuttering); and a new diagnosis, social (pragmatic) communication disorder, in which the patient displays persistent difficulties in the social use of verbal and nonverbal communication—very likely a diagnostic home for some of the individuals who have traits of ASD but do not meet full criteria.

Specific learning disorder is a new umbrella diagnosis within DSM-5. Specifiers for reading, written expression, and mathematics are designed to help teachers and parents shine a more focused light on a child's academic needs.

The chapter on neurodevelopmental disorders culminates with the motor disorders, including developmental coordination disorder, stereotypic movement disorder, and the tic disorders. A tic is a nonrhythmic movement of

short duration and sudden onset. Such movements can be divided into motor tics, such as shoulder shrugs and eyeblinks, and vocal tics, including sniffs, snorts, and the spontaneous production of a word or phrase. Tourette's disorder is the most complex of the tic disorders, describing patients who exhibit both multiple motor and at least one vocal tic for more than 1 year that cannot be explained by a medical condition or by the physiological effects of a substance such as cocaine.

Inevitably, the neurodevelopmental disorders share symptoms with a broad range of psychiatric illnesses, and clinicians must sort through the differential diagnosis with an understanding that that differential is much broader for children age 12 and under. Sometimes the neurodevelopmental disorders contribute to the emergence of other disorders; for example, a learning disorder may cause anxiety, and untreated ADHD may make a patient vulnerable to substance abuse. The cases that follow attempt to pull apart some of these diagnostic entanglements and explore the comorbidities that make the treatment of neurodevelopmental disorders among the most challenging tasks in psychiatry.

Suggested Readings

Brown TE (ed): ADHD Comorbidities. Washington, DC, American Psychiatric Publishing, 2009

Hansen RL, Rogers SJ (eds): Autism and Other Neurodevelopmental Disorders. Washington, DC, American Psychiatric Publishing, 2013

Tanguay PE: Autism in DSM-5. Am J Psychiatry 168(11):1142–1144, 2011

Case 1.1A Second Opinion on Autism

Catherine Lord, Ph.D.

Ashley, age 17, was referred for a diagnostic reevaluation after having carried diagnoses of autism and mental retardation for almost all of her life. She was recently found to have Kleefstra syndrome, and the family would like to reconfirm the earlier diagnoses and assess the genetic risk to the future children of her older sisters.

At the time of the reevaluation, Ashley was attending a special school with a focus on functional skills. She was able to dress herself, but she was not able to shower independently or be left alone in the house. She was able to decode (e.g., read words) and spell at a second-grade level but understood little of what she read. Changes to her schedule and heightened functional expectations tended to make her irritable. When upset, Ashley would often hurt herself (e.g., biting her wrist) and others (e.g., pinching and hair pulling).

In formal testing done at the time of the reevaluation, Ashley had a nonverbal IQ of 39 and a verbal IQ of 23, with a full scale IQ of 31. Her adaptive scores were somewhat higher, with an overall score of 42 (with 100 as average).

By history, Ashley first received services at age 9 months after her parents noticed significant motor delays. She walked at 20 months and was toilet trained at 5 years. She spoke her first word at age 6. She received a diagnosis of developmental delay at age 3 and of autism, obesity, and static encephalopathy at age 4. An early evaluation noted possible facial dysmorphology; genetic tests at that time were noncontributory.

Her parents indicated that Ashley knew hundreds of single words and many simple phrases. She had long been very interested in license plates and would draw them for hours. Her strongest skill was memory, and she could draw precise representations of license plates from different states. Ashley had always been very attached to her parents and sisters, and although affectionate toward babies, she showed minimal interest in other teenagers.

Ashley's family history was pertinent for a father with dyslexia, a paternal uncle with epilepsy, and a maternal male cousin with possible "Asperger's syndrome." Her siblings, both sisters, were in college and doing well.

On examination, Ashley was an overweight young woman who made inconsistent eye contact but often peered out the corner of her eye. She had a beautiful smile and would sometimes laugh to herself, but most of the time her facial expressions were subdued. She did not initiate joint attention by trying to catch another person's eyes. She frequently ignored what others would say to her. To request a preferred object (e.g., a shiny magazine), Ashley would rock from foot to foot and point. When offered an object (e.g., a stuffed animal), she brought it to her nose and lips for inspection. Ashley spoke in a high-pitched voice with unusual intonation. During the interview, she used multiple words and a few short phrases that were somewhat rote but communicative, such as "I want to clean up," and "Do you have a van?"

In the months prior to the evaluation, Ashley's parents noticed that she had become increasingly apathetic. A medical evaluation concluded that urinary tract infections were the most likely cause for her symptoms, but antibiotics seemed only to make her more listless. Further medical evaluation led to more extensive genetic testing, and Ashley was diagnosed with Kleefstra syndrome, a rare genetic defect associated with multiple medical problems including intellectual disability. The parents said they were also checked and found to "be negative."

The parents specifically wanted to know whether the genetic testing results affected Ashley's long-standing diagnoses and access to future services. Furthermore, they wanted to know whether their other two daughters should get tested for their risk of carrying genes for autism, mental retardation, and/or Kleefstra syndrome.

Diagnoses

- Intellectual disability, severe
- Autism spectrum disorder, with accompanying intellectual and language impairments, associated with Kleefstra syndrome

Discussion

In regard to diagnosis, Ashley's cognitive testing and limited everyday adaptive skills indicate that she has DSM-5 intellectual disability. In addition, Ashley has prominent symptoms from both of the core symptomatic criteria of autism spectrum disorder (ASD): 1) deficits in social communication and 2) restricted, repetitive patterns of behavior, interests, or activities. Ashley also fulfills the DSM-5 ASD requirement of having had symptoms in the early developmental period and a history of significant impairment. A fifth requirement for ASD is that the disturbances are not better explained by intellectual disability, which is a more complicated question in Ashley's case.

For many years, clinicians and researchers have debated the boundary between autism and intellectual disabilities. As IQ decreases, the proportion of children and adults who meet criteria for autism increases. Most individuals with IQs below 30 have ASD as well as intellectual disability.

For Ashley to meet DSM-5 criteria for both ASD and intellectual disability, the specific deficits and behaviors associated with ASD must be greater than what would ordinarily be seen in people with her overall intellectual development. In other words, if her deficits were due solely to limited intellectual abilities, she would be expected to have the social and play skills of a typical 3- to 4-year-old child. Ashley's social interaction is not at all like that of a typical preschooler, however, and never has been. She has limited facial expressions, poor eye contact, and minimal interest in peers. Compared to her "mental age," Ashley demonstrates significant restriction in both her range of interests and her understanding of basic human emotions. Furthermore, she manifests behaviors that are not seen commonly at any age.

The heterogeneity of autism has led to significant conflict. Some argue, for example, that children with very severe intellectual disabilities should be excluded from ASD. Others argue that more intellectually able children with ASD should be placed into their own category, Asperger syndrome. Research does not support either of these distinctions. For example, studies indicate that children with autistic symptoms and severe intellectual disability often have siblings with autism and stronger intellectual abilities. Much remains to be known about ASD, but IQ does not appear to be the key distinguishing factor.

From a pragmatic perspective, the critical factor is whether an ASD diagnosis offers information that helps guide treatment and the availability of services. For Ashley, the ASD diagnosis encourages a focus on her poor social skills. It calls attention to differences in her motivation and in her need for structure. The ASD diagnosis also underlines the importance of looking carefully for her cognitive strengths (e.g., rote memory and visual representation) and weaknesses (e.g., comprehension, social interaction, and an ability to adapt to change). All of these may play a large role in her efforts to live as independently as possible.

Ashley's parents are also concerned about the impact of the recent genetic testing results on Ashley's treatment and on her sisters' family planning. Hundreds of individual genes may play a role in the complex neurological issues involved in autism, but most cases of ASD lack a clear cause. Ashley's genetic condition, Kleefstra syndrome, is reliably associated with both intellectual disability and ASD symptoms. When a genetic or medical condition or environmental factor appears to be implicated, it is listed as a specifier, but the ASD diagnosis is not otherwise affected.

Knowledge of the genetic cause for Ashley's intellectual disability and ASD is important for several reasons. It reminds her physicians to look for medical comorbidities that are common in Kleefstra syndrome, such as problems with the heart and kidneys (possibly leading, for example, to her recurrent urinary tract infections). Knowledge of the genetic cause also expands informational resources by connecting Ashley's family to other families that are affected by this rare syndrome.

A particularly important aspect of this new genetic diagnosis is its effect on Ashley's sisters. In almost all reported cases, Kleefstra syndrome has occurred de novo, meaning that there is an extremely low likelihood that anyone else in her family has any abnormality in the affected gene region. On rare occasions, an unaffected parent has a chromosomal translocation or mosaicism that leads to the syndrome, but the fact that Ashley's parents were found to "be negative" implies they are not genetic carriers. Although this is not necessarily true for situations involving other autism-related genetic disorders, this particular genetic diagnosis in Ashley likely indicates her sisters are not at increased risk for having children with autism. Such information can be very reassuring and useful to Ashley's sisters. The fact remains that although genetics undoubtedly plays a large role in autism and intellectual disability, most cases cannot be reliably predicted, and diagnosis is made through ongoing, longitudinal observation during childhood.

Suggested Readings

Kleefstra T, Nillesen WM, Yntema HG: Kleefstra syndrome. GeneReviews October 5, 2010

Lord C, Pickles A: Language level and nonverbal social-communicative behaviors in autistic and language-delayed children. J Am Acad Child Adolesc Psychiatry 35(11):1542–1550, 1996

Lord C, Spence SJ: Autism spectrum disorders: phenotype and diagnosis, in Understanding Autism: From Basic Neuroscience to Treatment. Edited by Moldin SO, Rubenstein JLR. Boca Raton, FL, Taylor & Francis, 2006, pp 1–24

Shattuck PT, Durkin M, Maenner MI: Timing of identification among children with an autism spectrum disorder: findings from a population-based surveillance study. J Am Acad Child Adolesc Psychiatry 48(5):474–83, 2009

Wing L, Gould J: Severe impairments of social interaction and associated abnormalities in children: epidemiology and classification. J Autism Dev Disord 9(1):11–29, 1979

Case 1.2Temper Tantrums

Arshya Vahabzadeh, M.D., Eugene Beresin, M.D., Christopher McDougle, M.D.

Brandon was a 12-year-old boy brought in by his mother for psychiatric evaluation for temper tantrums that seemed to be contributing to declining school performance. The mother became emotional as she reported that things had always been difficult but had become worse after Brandon entered middle school.

Brandon's sixth-grade teachers reported that he was academically capable but that he had little ability to make friends. He seemed to mistrust the intentions of classmates who tried to be nice to him, and then trusted others who laughingly feigned interest in the toy cars and trucks that he brought to school. The teachers noted that he often cried and rarely spoke in class. In recent months, multiple teachers had heard him screaming at other boys, generally in the hallway but sometimes in the middle of class. The teachers had not identified a cause but generally had not disciplined Brandon because they assumed he was responding to provocation.

When interviewed alone, Brandon responded with nonspontaneous mumbles when asked questions about school, classmates, and his family. When the examiner asked if he was interested in toy cars, however, Brandon lit up. He pulled several cars, trucks, and airplanes from his backpack and, while not making good eye contact, did talk at length about vehicles, using their apparently accurate names (e.g., front-end loader, B-52, Jaguar). When asked again about school, Brandon pulled out his cell phone and showed a string of text messages: "dumbo!!!!, mr stutter, LoSeR, freak!, EVERYBODY HATES YOU." While the examiner read the long string of texts that Brandon had saved but apparently not previously revealed, Brandon added that other boys would whisper "bad words" to him in

class and then scream in his ears in the hall. "And I hate loud noises." He said he had considered running away, but then had decided that maybe he should just run away to his own bedroom.

Developmentally, Brandon spoke his first word at age 11 months and began to use short sentences by age 3. He had always been very focused on trucks, cars, and trains. According to his mother, he had always been "very shy" and had never had a best friend. He struggled with jokes and typical childhood banter because "he takes things so literally." Brandon's mother had long seen this behavior as "a little odd" but added that it was not much different from that of Brandon's father, a successful attorney, who had similarly focused interests. Both of them were "sticklers for routine" who "lacked a sense of humor."

On examination, Brandon was shy and generally nonspontaneous. He made below-average eye contact. His speech was coherent and goal directed. At times, Brandon stumbled over his words, paused excessively, and sometimes rapidly repeated words or parts of words. Brandon said he felt okay but added he was scared of school. He appeared sad, brightening only when discussing his toy cars. He denied suicidality and homicidality. He denied psychotic symptoms. He was cognitively intact.

Diagnosis

 Autism spectrum disorder without accompanying intellectual impairment, with accompanying language impairment: childhood-onset fluency disorder (stuttering)

Discussion

Brandon presents with symptoms consistent with autism spectrum disorder (ASD), a new diagnosis in DSM-5. ASD incorporates several previously separate disorders, namely autistic disorder (autism), Asperger's disorder, and pervasive developmental disorder not otherwise specified. ASD is characterized by two main symptom domains: social communication deficits and a fixated set of interests and repetitive behaviors.

It is evident that Brandon has considerable difficulty in his peer social interactions. He is unable to form friendships, does not engage in interactive play, and struggles with reading social cues. People with ASD typically find it challenging to correctly interpret the relevance of facial expressions, body language, and other nonverbal behaviors. He is humorless and "takes things so literally." These symptoms meet the ASD criteria for social communication deficits.

In regard to the second ASD symptom domain, Brandon has fixated interests and repetitive behaviors that cause significant distress. He seems interested in cars and trains, has little interest in anything else, and has no apparent insight that other children might not share his enthusiasms. He requires "sameness," with distress arising if his routine is altered. Brandon meets both of the primary symptomatic criteria, therefore, for DSM-5 ASD.

Brandon also stumbles over his words, pauses excessively, and repeats words or parts of words. These symptoms are consistent with stuttering, which is classified as one of the DSM-5 communication disorders, namely childhood-onset fluency disorder. Typically persistent and characterized by frequent repetitions or prolongations of sounds, broken words, pauses in speech, and circumlocutions, childhood-onset fluency disorder may result in significant social, academic, and occupational dysfunction.

Other DSM-5 communication disorders include difficulties in speech production (speech sound disorder), difficulty in use of spoken and written language (language disorder), and difficulty in the social uses of verbal and nonverbal communication (social [pragmatic] communication disorder). Although these difficulties are not noted in the case report, Brandon should be evaluated for each of these, because language impairments are so commonly part of ASD that they are listed as specifiers of ASD rather than as separate, comorbid diagnoses.

Prior to DSM-5, Brandon would have met criteria for Asperger's disorder, which identified a cluster of individuals with core autism features (social deficits and fixated interests) and normal intelligence. Perhaps because he shared autism spectrum symptoms with his own father, however, Brandon was viewed as "a little odd" but without problems that merited specific clinical attention. The lack of a diagnosis contributed to Brandon's having become the defenseless target of malicious bullying, a not uncommon finding in people with ASD. Without appropriate interventions for both his core autism symptoms and his stuttering, Brandon is at serious risk for ongoing psychological trauma and academic derailment.

Suggested Readings

Sterzing PR, Shattuck PT, Narendorf SC, et al: Bullying involvement and autism spectrum disorders: prevalence and correlates of bullying involvement among adolescents with an autism spectrum disorder. Arch Pediatr Adolesc

Med 166(11):1058-1064, 2012

Toth K, King BH: Asperger's syndrome: diagnosis and treatment. Am J Psychiatry 165(8):958–963, 2008

Case 1.3Academic Difficulties

Rosemary Tannock, Ph.D.

Carlos, a 19-year-old Hispanic college student, presented to a primary care clinic for help with academic difficulties. Since starting college 6 months earlier, he had done poorly on tests and been unable to manage his study schedule. His worries that he was going to flunk out of college were leading to insomnia, poor concentration, and a general sense of hopelessness. After a particularly tough week, he returned home unexpectedly, telling his family that he thought he should quit. His mother quickly brought him to the clinic that had previously helped both Carlos and his older brother. The mother specifically wondered whether Carlos's "ADHD" might be causing his problems, or whether he had outgrown it.

Carlos had been seen at the same clinic when he was age 9, at which time he had been diagnosed with attentiondeficit/hyperactivity disorder (ADHD), predominantly combined type. Notes from that clinical evaluation indicated that Carlos had been in trouble at school for not following instructions, not completing homework, getting out of his seat, losing things, not waiting his turn, and not listening. He had trouble concentrating except in regard to video games, which he "could play for hours." Carlos had apparently been slow to talk, but his birth and developmental histories were otherwise normal. The family had immigrated to the United States from Mexico when Carlos was age 5. He repeated first grade because of behavioral immaturity and difficulty learning to read. The ease with which Carlos learned English, his second language, was not noted.

During the evaluation when Carlos was age 9, a psychoeducational assessment by a clinical psychologist confirmed reading problems (particularly problems in reading fluency and comprehension). Carlos did not, however, meet the school board criteria for learning disability, which required evidence of a 20-point discrepancy between IQ and achievement scores. Thus, he was not eligible for special education services. Carlos's primary care physician had recommended pharmacotherapy, but the mother did not want to pursue medication. Instead, she reported taking on an extra job to pay for tutors to help her son "with concentration and reading."

Since starting college, Carlos reported that he had frequently been unable to remain focused while reading and listening to lectures. He was easily sidetracked and therefore had difficulty handing in his written assignments on time. He complained of feeling restless, agitated, and worried. He described difficulty falling asleep, poor energy, and an inability to "have fun" like his peers. He reported that the depressive symptoms went "up and down" over the course of the week but did not seem to influence his problems with concentration. He denied substance use.

Carlos said that he'd had some great teachers in high school who had understood him, helped him get the meaning of what he read, and allowed him to audiotape lectures and use other formats (e.g., videos, wikis, visual presentations) for final assignments. Without this support at college, he said he felt "lonely, stupid, a failure— unable to cope."

Although advised by his high school teacher to do so, he had not registered with the university's student disability services office. He preferred not to be seen as different from his peers and thought he should be able to get through college by himself.

Carlos's family history was positive for ADHD in his older brother. His father, who died when Carlos was age 7, was reported to have had "dyslexia" and had dropped out of a local community college after one semester.

On examination, Carlos wore clean jeans, a T-shirt, and a hoodie that he kept pulling down over his face. He sat quietly and hunched over. He sighed a lot and rarely made eye contact with the clinician. He often tapped his fingers and shuffled in his seat but was polite and responded appropriately to questions. His command of English appeared strong, but he spoke with a slight Hispanic accent. He often mumbled and mispronounced some multisyllabic words (e.g., he said "literalchure" instead of "literature" and "intimate" when he clearly meant "intimidate"). He denied any suicidal thoughts. He appeared to have reasonable insight into his problems.

Carlos was referred to a psychologist for further testing. The psychoeducational reassessment confirmed that Carlos's reading and writing abilities were substantially and quantifiably below those expected for his age. That report also concluded that these learning difficulties were not attributable to intellectual disability, uncorrected visual or auditory acuity, psychosocial adversity, or lack of proficiency in the language of academic instruction. The report concluded that Carlos had specific difficulties with reading fluency and comprehension as well as spelling and written expression.

Diagnoses

- Attention-deficit/hyperactivity disorder, with predominantly inattentive presentation, of mild to moderate severity
- Specific learning disorder, affecting the domains of reading (both fluency and comprehension) and written expression (spelling and organization of written expression), all currently of moderate severity

Discussion

Carlos presents with a history of ADHD. When he was first evaluated at age 9, DSM-IV criteria for ADHD required six of the nine symptoms listed in either of the two categories: inattention or hyperactivity-impulsivity (as well as an onset before age 12). He had been diagnosed as having the combined type of ADHD, indicating the specialty clinic had found at least six symptoms in each of these spheres.

Carlos now presents at age 19, and the case report indicates that he has five different inattentive symptoms and two symptoms related to hyperactivity-impulsivity. This seems to indicate a symptomatic improvement. Partial remission of ADHD is common with age, especially in regard to hyperactivity symptoms. Under DSM-IV, Carlos's ADHD would be said to have remitted. DSM-5, however, has a lower threshold of five symptoms in either category, rather than six. Carlos, therefore, does meet this diagnostic criterion for ADHD.

It is important to look for alternative explanations to ADHD, however, and one possibility is that his current symptoms might be better explained by mood disorder. During the past 6 months, Carlos has manifested anxious and depressive symptoms, but his inattention and poor concentration are apparently not restricted to or exacerbated by these episodes. His ADHD symptoms are chronic, and he had an onset during childhood without any concurrent mood or anxiety disorders. Moreover, his presenting symptoms of depression seem to have persisted only about 1 week, whereas his school difficulties are chronic.

Academic problems are common in ADHD even in the absence of a specific learning disorder (SLD), although SLDs are also commonly comorbid with ADHD. Even before his repeat psychological testing, Carlos appeared to have multiple historical issues that increase the likelihood of an SLD. His speech was delayed in his first language, Spanish; his reading was slow in both Spanish and English; and he received (and thrived with) educational accommodations in high school. All of these suggest an SLD, as does his positive family history for learning disability.

Carlos's previous psychoeducational assessment failed to confirm a learning disorder because he did not meet the required discrepancy between IQ and achievement for diagnosis with an SLD. Based on an additional decade of evidence, DSM-5 has eliminated this discrepancy criterion for SLD. This change has made it reasonable to refer older adolescent patients for reevaluation.

The repeat psychological testing indicates a moderately severe SLD. Because Carlos's learning difficulties began when he was school age and continue to cause academic impairment, he meets the DSM-5 diagnostic criteria for SLD. By providing documentation of both ADHD and SLD, Carlos will be able to access academic accommodations that should allow him to more robustly pursue his college studies.

Suggested Readings

Frazier TW, Youngstrom EA, Glutting JJ, Watkins MW: ADHD and achievement: meta-analysis of the child, adolescent, and adult literatures and a concomitant study with college students. J Learn Disabil 40(1):49–65, 2007

Sexton CC, Gelhorn H, Bell JA, Classi PM: The co-occurrence of reading disorder and ADHD: epidemiology, treatment, psychosocial impact, and economic burden. J Learn Disabil 45(6):538–564, 2012

Svetaz MV, Ireland M, Blum R: Adolescents with learning disabilities: risk & protective factors associated with emotional well-being: National Longitudinal Study of Adolescent Health. J Adolesc Health 27(5):340–48, 2000

Turgay A, Goodman DW, Asherson P, et al: Lifespan persistence of ADHD: the life transition model and its applications. J Clin Psychiatry 73(2):192–201, 2012

Case 1.4School Problems

Arden Dingle, M.D.

Daphne, a 13-year-old in the ninth grade, was brought for a psychiatric evaluation because of academic and behavioral struggles. She had particular difficulty starting and completing schoolwork and following instructions, and she had received failing grades in math. When prompted to complete tasks, Daphne became argumentative and irritable. She had become increasingly resistant to attending school, asking to stay home with her mother.

Testing indicated that Daphne had above-average intelligence, age-appropriate achievement in all subjects except math, and some difficulties in spatial-visual skills. Several years earlier, her pediatrician had diagnosed attention-deficit/hyperactivity disorder (ADHD) and prescribed a stimulant. She took the medication for a week, but her parents stopped giving it to her because she seemed agitated.

At home, Daphne's parents' close supervision of her homework often led to arguments with crying and screaming. She had two long-standing friends but had made no new friends for several years. Generally, she preferred to play with girls younger than she. When her friends chose the activity or did not follow her rules, she tended to withdraw. She was generally quiet in groups and in school but bolder with family members.

Beginning in early childhood, Daphne had had difficulty falling asleep, requiring a nightlight and parental reassurance. Recognizing that Daphne was easily upset by change, her parents rarely forced her into new activities. She did well during the summer, which she spent at a lake house with her grandparents. Her parents reported no particular traumas, stressors, or medical or developmental problems. Daphne had started her menses about 2 months prior to the evaluation. Her family history was pertinent for multiple first- and second-degree relatives with mood, anxiety, or learning disorders.

At first meeting, Daphne was shy and tense. Her eye contact was poor, and she had difficulty talking about anything other than her plastic horse collection. Within 15 minutes, she became more comfortable, revealing that she disliked school because the work was hard and the other children did not seem to care for her. She said that she was afraid of making mistakes and getting bad grades and of disappointing her teachers and parents. Preoccupation with earlier failures led to inattention and indecision. Daphne denied that she was good at anything and that any aspect of her life was going well. She wished she had more friends. As far as she could remember, she had always felt this way. These things made her sad, but she denied persistent depressive feelings or suicidal thoughts. She appeared anxious but brightened when discussing her horse figurine collection and her family.

Diagnoses

- Specific learning disorder (mathematics)
- Generalized anxiety disorder

Discussion

Daphne has symptoms of inattention, anxiety, academic difficulties, limited peer relationships, and poor selfesteem that are causing distress and impaired functioning. Biologically, Daphne is experiencing the hormonal changes of puberty against the backdrop of a family history of mood, anxiety, and learning disorders. Psychologically, Daphne is living with the belief that she is inadequate, probably connected with her ongoing difficulties in school. Developmentally, Daphne is functioning at the emotional level of a school-age child. Socially, Daphne has a supportive family environment that has emphasized protecting her, possibly interfering with the acquisition of skills related to independence and autonomy. Meanwhile, the educational system has not provided the necessary support for Daphne to succeed academically.

Daphne's academic problems can be explained in part by a specific learning disorder in mathematics. She has persistent difficulties in this area, supported by testing that showed her performance to be below her intellectual level and chronological age. Her achievement in other academic subjects and her level of adaptive functioning

generally appear to be age appropriate, indicating that her global intelligence and adaptive functioning are normal and that she does not have an intellectual disability.

It can be difficult to distinguish between anxiety and mood disorders in children Daphne's age. In this case, an anxiety disorder is more likely because Daphne's symptoms have been chronic rather than episodic, as depressive symptoms often are. Daphne's sadness is related to her sense of failure and worry about her competence. With the exception of a sleep disturbance, she does not have neurovegetative symptoms. Her difficulty falling asleep sounds anxiety based, as do her social ineptitude, reluctance to comply with school demands, and overreaction when faced with unwelcome tasks. In addition to her anxiety about her capabilities, Daphne appears to have concerns about security, which may explain her tense appearance. Daphne manages her anxieties by avoiding or controlling activities. Although some of her concerns are consistent with other anxiety disorders, such as social anxiety disorder (social phobia) or separation anxiety disorder, Daphne's worries extend beyond those domains. Given the pervasiveness of her anxiety, the most appropriate diagnosis is generalized anxiety disorder (GAD).

GAD is characterized by persistent, excessive anxiety and worry. Symptom criteria include restlessness, poor concentration, irritability, muscle tension, sleep disturbance, and being easily fatigued. Although three of six criteria are required for adults, a GAD diagnosis can be made in children with only one symptom in addition to the excessive anxiety and worry.

Social difficulties are common among children and adolescents, particularly those with psychiatric disorders. Daphne's issues are related to her anxiety about being competent and likable. Her academic struggles and anxiety have impeded her development, making her emotionally and socially immature.

Her immaturity might suggest an autism spectrum disorder. She does have difficulty initiating social interactions and engaging in reciprocity with peers (with poor eye contact notable on examination), but Daphne does not have the communication difficulties, rigidity, or stereotyped behaviors associated with autism. Her behavior improves with familiarity, and she expresses interest in her peers.

Similarly, her language, speech, and communication skills also seem developmentally appropriate, making disorders in these areas unlikely.

Oppositional defiant disorder might also be considered because Daphne is resistant and uncooperative in school and at home when it comes to her academic work. However, this attitude and behavior do not carry over to other situations, and her behaviors do not meet oppositional defiant disorder's requirements for symptom level and frequency. They are better conceptualized as a manifestation of anxiety and an attempt at its management.

Inattention is a symptom that occurs in a variety of diagnoses. Individuals with ADHD have problems with attention, impulsivity, and/or hyperactivity that occur in multiple settings prior to age 12 and cause significant impairment. Although Daphne has several symptoms consistent with inattention, these seem confined to school settings. She also does not appear to have significant problems with behaviors related to impulsivity or activity regulation. ADHD should remain a diagnostic possibility, but other diagnoses better account for Daphne's difficulties.

Suggested Readings

Connolly SD, Bernstein GA; Work Group on Quality Issues: Practice parameter for the assessment and treatment of children and adolescents with anxiety disorders. J Am Acad Child Adolesc Psychiatry 46(2):267–283, 2007

Lagae L: Learning disabilities: definitions, epidemiology, diagnosis, and intervention strategies. Pediatr Clin North Am 55(6):1259–1268, 2008

Case 1.5Fidgety and Distracted

Robert Haskell, M.D., John T. Walkup, M.D.

Ethan, a 9-year-old boy, was referred to a psychiatric clinic by his teacher, who noticed that his attention was flagging. At that time, Ethan was a fourth grader at a private regular-education school for boys. The teacher told Ethan's parents that although Ethan had been among the best students in his class in the fall, his grades had slipped during the spring semester. He tended to get fidgety and distracted when the academic work became more challenging, and the teacher suggested the parents seek neuropsychiatric testing for him.

At home, Ethan's mother explained, he seemed more emotional of late: "He just looks weepy sometimes, which is unusual for him." She denied any difficulties at home, and she described her husband, son, 8-year-old daughter, and herself as a "happy family." She had noticed, however, that Ethan seemed uneasy about being left alone. He had become "clingy," often following his parents around the house, and he hated being in any room by himself. Ethan had also started climbing into bed with his parents in the middle of the night, something he had never done in the past. Although Ethan had a few good friends in the neighborhood and at school and was glad to have other kids come to his house, he refused to go on sleepovers.

Ethan's mother agreed that he appeared more fidgety. She had noticed that he often seemed to be shrugging his shoulders, grimacing, and blinking, which she took to be a sign of anxiety. These movements worsened when he was tired or frustrated, and they diminished in frequency during calm, focused activities such as clarinet practice or homework, especially when she was helping him.

His mother also mentioned that Ethan had suddenly become "superstitious." Whenever he stepped through a doorway, he would go back and forth until he touched both doorjambs with his hands simultaneously, twice in rapid succession. She hoped that Ethan's more conspicuous habits would subside by summer, when the family took its annual vacation. She felt that it was the right year for Disneyland, but Ethan's father had suggested taking him on a fishing trip ("just the boys") while mother and daughter visited relatives in New York City.

Ethan's mother recalled her son as an "easy child, but sensitive." He was the product of a planned, uncomplicated pregnancy and met all his developmental milestones on time. He had no history of medical problems or recent infections, but his mother mentioned that he had begun to make frequent visits to the school nurse's office complaining of stomachaches.

On examination, Ethan was a slightly built boy with fair, freckly skin and blond hair. He was somewhat fidgety, tugging at his pants and shifting in his seat. Hearing his mother talk about his new movements seemed to provoke them, and the examiner noted that Ethan also occasionally blinked tightly, rolled his eyes, and made throatclearing noises. Ethan said that he sometimes worried about "bad things" happening to his parents. His concerns were vague, however, and he seemed to fear only that burglars might break into their house.

Diagnoses

- Provisional tic disorder
- Separation anxiety disorder

Discussion

Ethan presents with declining school performance, which his family seems to attribute to a cluster of anxiety symptoms that are of relatively recent onset. He is uneasy with solitude and reluctant to attend sleepovers, has fears that bad things will happen to his parents, and makes frequent trips to the school nurse. He appears to meet criteria for DSM-5 separation anxiety disorder, the symptoms of which need only persist for 1 month in children and adolescents.

Ethan's mother also points out that he has become more fidgety. She links his shoulder shrugging, grimacing, and blinking to this recent onset of separation anxiety. Neither the parents nor the teacher appears to recognize these movements as tics, which are nonrhythmic movements of short duration and sudden onset. Ethan appears to have a variety of tics, including those observed by the interviewer: some motor (blinks, shoulder rolls) and some vocal (chirps, grunts, throat clearing, sniffs, clicks). Tics can be simple, meaning that they last only milliseconds, or

complex, which are of longer duration or consist of a chain or sequence of movements. Although tics may vary broadly throughout the course of a tic disorder, they tend to recur in a specific repertoire during any given period of the illness.

The specific tic disorder (if any) is determined by the type and duration of movements. In Tourette's disorder, both motor and vocal tics must be present, whereas in persistent (chronic) motor or vocal tic disorder, only motor or vocal tics are present. Ethan has a mixture of tics, but at this point they have been present for only about 6 months—not the minimum of 1 year required for either Tourette's disorder or persistent tic disorder. Therefore, Ethan is diagnosed with provisional tic disorder.

Tics occur in 15%–20% of children, and it appears that 0.6%–1.0% develop Tourette's disorder. On average, tics emerge between ages 4 and 6, reach peak severity by age 10–12, and generally decline in severity during adolescence. Tics first observed in adulthood were very likely present but unnoticed in childhood. Tics are typically worsened by anxiety, excitement, and exhaustion and abate during calm, focused activity—which is why that fishing trip with dad may be Ethan's best bet for a summer vacation.

Anxiety likely explains Ethan's inattention in the classroom. Although attention-deficit/hyperactivity disorder, inattentive subtype, cannot be ruled out, it seems more probable that tics and anxiety have taken Ethan off task, as he has no early history of inattention or hyperactivity. His success in the fall semester all but rules out a learning disorder, so no testing is indicated. (As a rule, testing should always follow the treatment of a confounding problem such as anxiety.) As for obsessive-compulsive disorder, an illness associated with both anxiety and tic disorders, Ethan's rituals in the doorway would have to be distressing or impairing before this diagnosis can be entertained.

Suggested Readings

Plessen KJ: Tic disorders and Tourette's syndrome. Eur Child Adolesc Psychiatry 22 (suppl 1):S55–S60, 2013

Walkup JT, Ferrão Y, Leckman JF, et al: Tic disorders: some key issues for DSM-V. Depress Anxiety 27:600–610, 2010

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Introduction

John W. Barnhill, M.D.

Schizophrenia is the prototypical psychotic disorder. Not only is it the most common psychosis, but schizophrenia tends to involve abnormalities in all five of the emphasized symptom domains: hallucinations, delusions, disorganized thinking (speech), grossly disorganized or abnormal motor behavior (including catatonia), and negative symptoms. Like the DSM-5 neurodevelopmental disorders, schizophrenia is viewed as a neuropsychiatric disorder with complex genetics and a clinical course that tends to begin during a predictable stage of development. Whereas the neurodevelopmental disorders tend to begin during childhood, symptoms of schizophrenia tend to reliably develop during late adolescence and early adulthood.

The schizophrenia diagnosis has undergone some minor revisions for DSM-5. First, because of their limited diagnostic stability, low reliability, and poor validity, schizophrenia subtypes have been eliminated. They had included such categories as disorganized, paranoid, and residual types of schizophrenia.

Long associated with schizophrenia, catatonia remains one of the potential diagnostic criteria for most of the psychotic diagnoses, including schizophrenia, but it can now be designated as a specifier for other psychiatric and nonpsychiatric medical conditions, including depressive and bipolar disorders. "Other specified catatonia" can also be diagnosed when criteria are either uncertain or incomplete for either the catatonia or the comorbid psychiatric or nonpsychiatric medical condition.

The DSM-5 schizophrenia diagnosis requires persistence of two of five symptomatic criteria (delusions, hallucinations, disorganized speech, disorganized behavior or catatonia, and negative symptoms). One pertinent change is the elimination of a special status for particular types of delusions and hallucinations, any one of which would previously have been adequate to fulfill symptomatic criteria for schizophrenia. A second change is the requirement for one of the two symptomatic criteria to be a positive symptom, such as delusions, hallucinations, or disorganized thinking.

Criteria for schizoaffective disorder have been significantly tightened. As was the case in DSM-IV, a diagnosis of schizoaffective disorder requires that the patient meet criteria for schizophrenia and have symptoms of either major depressive or bipolar disorder concurrent with having active symptoms of schizophrenia. Also, as was the case previously, there must have been a 2-week period of delusions or hallucinations without prominent mood symptoms. The significant change is that in DSM-5 symptoms that meet criteria for a major mood disorder must be present for the majority of the total duration of the active and residual phases of the overall illness. Therefore, the DSM-5 schizoaffective diagnosis requires more attention to the longitudinal course than was previously the case. Furthermore, the diagnostic requirement that major mood symptoms be present during most of the course of the psychotic disorder (including both the acute and the residual phases) will likely lead to a significant reduction in the number of people who meet criteria for schizoaffective disorder.

Delusional disorder remains focused on the presence of delusions in the absence of other active symptoms of schizophrenia, depressive or bipolar disorders, and pertinent substance use. Bizarre delusions are now included as symptomatic criteria for delusional disorder, whereas delusions that are considered to be part of body dysmorphic disorder and obsessive-compulsive disorder should not lead to a delusional disorder diagnosis but rather to a primary diagnosis of either body dysmorphic disorder or obsessive-compulsive disorder, along with the "absent insight/delusional beliefs" specifier.

Brief psychotic disorder and schizophreniform disorder remain essentially unchanged in DSM-5. They remain distinguished from schizophrenia primarily on the basis of the duration of symptoms.

Not specifically discussed in this text are diagnoses that involve atypical or incomplete presentations or involve situations such as the emergency room setting where information is often incomplete. These include "other specified schizophrenia spectrum and other psychotic disorder," "unspecified catatonia," and "unspecified schizophrenia spectrum and other psychotic disorder."

These "other" diagnoses reflect the reality that humans' thoughts, feelings, and behaviors lie on a continuum, as do their disorders, and the "other" option is a diagnostic option through much of DSM-5. This diagnostic gray zone is particularly poignant in regard to schizophrenia spectrum illness. For many people who end up with a chronic illness such as schizophrenia or schizoaffective disorder, there exists a period of time in which they begin to show symptoms but are not yet diagnosed. It had been proposed that this issue be addressed in DSM-5 by creating a new diagnosis, *attenuated psychosis syndrome*. Psychiatrists are not yet able to robustly predict which patients are most likely to go on to develop full-blown psychotic symptoms, but accurate prediction is important enough that the syndrome is mentioned in two places in DSM-5. First, attenuated psychosis syndrome can be used as a specifier within this chapter of DSM-5, where it would be listed as "other specified schizophrenia spectrum and other disorders (attenuated psychosis syndrome)." The condition is also discussed in more detail among the "Conditions for Further Study."

Suggested Readings

Bromet EJ, Kotov R, Fochtmann LJ, et al: Diagnostic shifts during the decade following first admission for psychosis. Am J Psychiatry 168(11):1186–1194, 2011

Lieberman JA, Murray RM: Comprehensive Care of Schizophrenia: A Textbook of Clinical Management, 2nd Edition. New York, Oxford University Press, 2012

Tamminga CA, Sirovatka PJ, Regier DA, van Os J (eds): Deconstructing Psychosis: Refining the Research Agenda for DSM-V. Arlington, VA, American Psychiatric Association, 2010

Case 2.1Emotionally Disturbed

Carol A. Tamminga, M.D.

Felicia Allen was a 32-year-old woman brought to the emergency room (ER) by police after she apparently tried to steal a bus. Because she appeared to be an "emotionally disturbed person," a psychiatry consultation was requested.

According to the police report, Ms. Allen threatened the driver with a knife, took control of the almost empty city bus, and crashed it. A more complete story was elicited from a friend of Ms. Allen's who had been on the bus but who had not been arrested. According to her, they had boarded the bus on their way to a nearby shopping mall. Ms. Allen became frustrated when the driver refused her dollar bills. She looked in her purse, but instead of finding exact change, she pulled out a kitchen knife that she carried for protection. The driver fled, so she got into the empty seat and drove the bus across the street into a nearby parked car.

On examination, Ms. Allen was a handcuffed, heavyset young woman with a bandage on her forehead. She fidgeted and rocked back and forth in her chair. She appeared to be mumbling to herself. When asked what she was saying, the patient made momentary eye contact and just repeated, "Sorry, sorry." She did not respond to other questions.

More information was elicited from a psychiatrist who had come to the ER soon after the accident. He said that Ms. Allen and her friend were longtime residents at the state psychiatric hospital where he worked. They had just begun to take passes every week as part of an effort toward social remediation; it had been Ms. Allen's first bus ride without a staff member.

According to the psychiatrist, Ms. Allen had received a diagnosis of "childhood-onset, treatment-resistant paranoid schizophrenia." She had started hearing voices by age 5 years. Big, strong, intrusive, and psychotic, she had been hospitalized almost constantly since age 11. Her auditory hallucinations generally consisted of a critical voice commenting on her behavior. Her thinking was concrete, but when relaxed she could be self-reflective. She was motivated to please and recurrently said her biggest goal was to "have my own room in my own house with my own friends." The psychiatrist said that he was not sure what had caused her to pull out the knife. She had not been hallucinating lately and had been feeling less paranoid, but he wondered if she had been more psychotic than she had let on. It was possible that she was just impatient and irritated. The psychiatrist also believed that she had spent almost no period of life developing normally and so had very little experience with the real world.

Ms. Allen had been taking clozapine for 1 year, with good resolution of her auditory hallucinations. She had gained 35 pounds during that time, but she had less trouble getting out of bed in the morning, was hoping that she could eventually get a job and live more independently, and had insisted on continuing to take the clozapine. The bus trip to the shopping mall was intended to be a step in that direction.

Diagnosis

• Schizophrenia, multiple episodes, currently in active phase

Discussion

Stealing a city bus is not reasonable, and it reflects Ms. Allen's inability to deal effectively with the world. Her thinking is concrete. She behaves bizarrely. She mumbles and talks to herself, suggesting auditory hallucinations. She lives in a state mental hospital, suggesting severe, persistent mental illness.

DSM-5 schizophrenia requires at least two of five symptoms: delusions, hallucinations, disorganized speech, disorganized or abnormal behavior, and negative symptoms. Functioning must be impaired, and continuous signs of the illness must persist for at least 6 months. Even without any more information about Ms. Allen's history, the diagnosis of schizophrenia is clear.

Ms. Allen's psychosis began when she was a child. Early-onset symptoms are often unrecognized because children tend to view their psychotic experience as "normal." Identifying the symptom (e.g., hearing voices that are not there) and associating this with a milestone (e.g., going to a certain grade or school) can help the adult patient retrospectively identify symptom onset. Although the symptoms and treatments are similar for both, childhood-onset schizophrenia is often more severe than adult-onset schizophrenia. Early psychotic symptoms are highly disruptive to normal childhood development. Florid psychotic symptoms are impairing in and of themselves, but they also deprive the young person of the social learning and cognitive development that take place during critical childhood years.

Ms. Allen's behavior on the bus likely reflects not only the psychosis and cognitive dysfunction that are part of schizophrenia but also her diminished experience in real-life social settings. In addition to treating her psychotic symptoms with clozapine, her psychiatric team appears to be trying to remediate her losses by connecting her to a "friend" and organizing the shopping trip. They are also quite active and involved, as reflected by the psychiatrist's almost immediate presence in the ER after the bus incident.

Schizophrenia is a heterogeneous disorder, affecting multiple domains. It is likely that there are multiple schizophrenias, differentiated by as yet unknown markers. Because of insufficient evidence about validity, DSM-5 has done away with categories such as schizophrenia, paranoid type. Instead, DSM-5 outlines several ways in which the diagnosis can be subtyped. One way is by overall activity and chronicity of symptoms (e.g., single vs. multiple episodes; in acute episode, in partial remission, in full remission). Another way to categorize is by assessing the severity of each of the five core schizophrenia symptoms, using a 0–4 scale.

For example, Ms. Allen was able to try to travel with a "friend," and her hospital-based psychiatrist did arrive in the ER very quickly. These might reflect an engaged, active treatment program, but when combined with her apologetic attitude and her stated efforts toward independence, they likely indicate a relative lack of negative symptoms such as anhedonia, reduced social networks, and alogia. Such activity-driven behavior is unusual in patients with schizophrenia and suggests that she is not depressed. It is hard to judge Ms. Allen's cognitive capacity without testing. Her obvious concrete thinking is represented by a failure to understand the process of paying for her bus ride or abstracting behavioral clues. Whether she has the additional characteristics of a schizophrenia-like working memory disorder or attentional dysfunction is hard to tell from this vignette, but she should be tested.

In addition to assessing the extent of positive symptoms, it is crucial for the field of psychiatry to better understand and categorize the negative symptoms and cognitive dysfunction of schizophrenia. Whereas the most effective interventions for schizophrenia have long revolved around the antipsychotic medications that ameliorate positive symptoms, future treatments will likely focus increasingly on the specific behavioral, cognitive, and emotional disturbances that are also an integral part of schizophrenia.

Suggested Readings

Ahmed AO, Green BA, Goodrum NM, et al: Does a latent class underlie schizotypal personality disorder? Implications for schizophrenia. J Abnorm Psychol 122(2):475–491, 2013

Heckers S, Barch DM, Bustillo J, et al: Structure of the psychotic disorders classification in DSM 5. Schizophr Res May 23, 2013 [Epub ahead of print]

Tandon R, Gaebel W, Barch DM, et al: Definition and description of schizophrenia in the DSM-5. Schizophr Res June 22, 2013 [Epub ahead of print]

Case 2.2Increasingly Odd

Ming T. Tsuang, M.D., Ph.D., D.Sc., William S. Stone, Ph.D.

Gregory Baker was a 20-year-old African American man who was brought to the emergency room (ER) by the campus police of the university from which he had been suspended several months earlier. The police had been called by a professor who reported that Mr. Baker had walked into his classroom shouting, "I am the Joker, and I am looking for Batman." When Mr. Baker refused to leave the class, the professor contacted security.

Although Mr. Baker had much academic success as a teenager, his behavior had become increasingly odd during the past year. He quit seeing his friends and spent most of his time lying in bed staring at the ceiling. He lived with several family members but rarely spoke to any of them. He had been suspended from college because of lack of attendance. His sister said that she had recurrently seen him mumbling quietly to himself and noted that he would sometimes, at night, stand on the roof of their home and wave his arms as if he were "conducting a symphony." He denied having any intention of jumping from the roof or having any thoughts of self-harm, but claimed that he felt liberated and in tune with the music when he was on the roof. Although his father and sister had tried to encourage him to see someone at the university's student health office, Mr. Baker had never seen a psychiatrist and had no prior hospitalizations.

During the prior several months, Mr. Baker had become increasingly preoccupied with a female friend, Anne, who lived down the street. While he insisted to his family that they were engaged, Anne told Mr. Baker's sister that they had hardly ever spoken and certainly were not dating. Mr. Baker's sister also reported that he had written many letters to Anne but never mailed them; instead, they just accumulated on his desk.

His family said that they had never known him to use illicit substances or alcohol, and his toxicology screen was negative. When asked about drug use, Mr. Baker appeared angry and did not answer.

On examination in the ER, Mr. Baker was a well-groomed young man who was generally uncooperative. He appeared constricted, guarded, inattentive, and preoccupied. He became enraged when the ER staff brought him dinner. He loudly insisted that all of the hospital's food was poisoned and that he would only drink a specific type of bottled water. He was noted to have paranoid, grandiose, and romantic delusions. He appeared to be internally preoccupied, although he denied hallucinations. Mr. Baker reported feeling "bad" but denied depression and had no disturbance in his sleep or appetite. He was oriented and spoke articulately but refused formal cognitive testing. His insight and judgment were deemed to be poor.

Mr. Baker's grandmother had died in a state psychiatric hospital, where she had lived for 30 years. Her diagnosis was unknown. Mr. Baker's mother was reportedly "crazy." She had abandoned the family when Mr. Baker was young, and he was raised by his father and paternal grandmother.

Ultimately, Mr. Baker agreed to sign himself into the psychiatric unit, stating, "I don't mind staying here. Anne will probably be there, so I can spend my time with her."

Diagnosis

• Schizophrenia, first episode, currently in acute episode

Discussion

Mr. Baker's case involves an all-too-familiar scenario in which a high-functioning young man undergoes a significant decline. In addition to having paranoid, grandiose, and romantic delusions, Mr. Baker appears to be responding to internal stimuli (i.e., auditory hallucinations) and demonstrating negative symptoms (lying in bed all day). These symptoms have persisted and intensified over the prior year. The history does not indicate medications, substances of abuse, or other medical or psychiatric disorders that could cause these symptoms. Therefore, he meets DSM-5 criteria for schizophrenia. Although a family history of psychiatric illness is not a requisite for his DSM-5 diagnosis, Mr. Baker's mother and grandmother appear to have also had major mental disorders.

Schizophrenia is, however, a heterogeneous disorder. For example, Mr. Baker's most prominent symptoms are delusions. Another person with schizophrenia might present most prominently with disorganization of speech and behavior and without any delusions. DSM-5 tries to address this heterogeneity by encouraging a dimensional viewpoint rather than a categorical one. In other words, instead of clarifying whether a patient has "paranoid" or "disorganized" schizophrenia, DSM-5 encourages an assessment of a variety of specifiers. One important specifier, the course specifier, requires a longitudinal assessment to determine whether this is a first episode or one of multiple episodes, and whether it is an acute episode, in partial remission, or in full remission.

DSM-5 also encourages specific ratings of symptoms. For example, is this schizophrenic episode accompanied by catatonia? On a 5-point scale (from 0 to 4), how severe is each of the five cardinal schizophrenia symptoms? DSM-5 also encourages an assessment of cognition, mania, and depression domains. For example, some of Mr. Baker's behaviors (e.g., interrupting a class to proclaim his identity as the Joker) may seem to be symptomatic of mania, but they are unaccompanied by disturbances in sleep, mood, or level of activity. Similarly, Mr. Baker said he felt "bad" but not depressed. These clinical observations likely distinguish Mr. Baker from other subcategories of people with schizophrenia.

The schizophrenia diagnosis can be made without assessing these severity specifiers. Nevertheless, the use of dimensional ratings improves the ability to assess Mr. Baker for the presence of core symptoms of schizophrenia in a more individualized manner. The inclusion of dimensions that cut across diagnostic categories will facilitate the development of a differential diagnosis that includes bipolar disorder and schizoaffective disorder. These assessments may clarify Mr. Baker's functional prognosis in major life roles (e.g., living arrangement or occupational status). Finally, repeated dimensional assessments may facilitate a longitudinal understanding of Mr. Baker's symptomatology, development, and likely responses to treatment.

Suggested Readings

Barch DM, Bustillo J, Gaebel W, et al: Logic and justification for dimensional assessment of symptoms and related clinical phenomena in psychosis: relevance to DSM-5. Schizophr Res May 22, 2013 [Epub ahead of print]

Cuesta MJ, Basterra V, Sanchez-Torres A, Peralta V: Controversies surrounding the diagnosis of schizophrenia and other psychoses. Expert Rev Neurother 9(10):1475–1486, 2009

Heckers S, Barch DM, Bustillo J, et al: Structure of the psychotic disorders classification in DSM 5. Schizophr Res May 23, 2013 [Epub ahead of print]

Tandon R, Gaebel W, Barch DM, et al: Definition and description of schizophrenia in the DSM-5. Schizophr Res June 22, 2013 [Epub ahead of print]

Case 2.3Hallucinations of a Spiritual Nature

Lianne K. Morris Smith, M.D., Dolores Malaspina, M.D., M.P.H.

Hakim Coleman was a 25-year-old U.S. Army veteran turned community college student who presented to the emergency room (ER) with his girlfriend and sister. On examination, he was a tall, slim, and well-groomed young man with glasses. He spoke softly, with an increased latency of speech. His affect was blunted except when he became anxious while discussing his symptoms.

Mr. Coleman stated that he had come to the ER at his sister's suggestion. He said he could use a "general checkup" because of several days of "migraines" and "hallucinations of a spiritual nature" that had persisted for 3 months. His headache involved "sharp, shooting" sensations in various bilateral locations in his head and a "ringing" sensation along the midline of his brain that seemed to worsen when he thought about his vices.

Mr. Coleman described his vices as being "alcohol, cigarettes, disrespecting my parents, girls." He denied guilt, anxiety, or preoccupation about any of his military duties during his tour in Iraq, but he had joined an evangelical church 4 months earlier in the context of being "riddled with guilt" about "all the things I've done." Three months earlier, he began "hearing voices trying to make me feel guilty" most days. The last auditory hallucination had been the day before. During these past few months, he had noticed that strangers were commenting on his past sins.

Mr. Coleman believed that his migraines and guilt might be due to alcohol withdrawal. He had been drinking three or four cans of beer most days of the week for several years until he "quit" 4 months earlier after joining the church. He still drank "a beer or two" every other week but felt guilty afterward. He denied alcohol withdrawal symptoms such as tremor and sweats. He had smoked cannabis up to twice monthly for years but completely quit when he joined the church. He denied using other illicit drugs except for one uneventful use of cocaine 3 years earlier. He slept well except occasional nights when he would sleep only a few hours in order to finish an academic assignment.

Otherwise, Mr. Coleman denied depressive, manic, or psychotic symptoms and violent ideation. He denied posttraumatic stress disorder (PTSD) symptoms. Regarding stressors, he felt overwhelmed by his current responsibilities, which included attending school and near-daily church activities. He had been a straight-A student at the start of the school year but was now receiving Bs and Cs.

The patient's girlfriend and sister were interviewed separately. They agreed that Mr. Coleman had become socially isolative and quiet, after having previously been fun and outgoing. He had also never been especially religious prior to this episode. His sister believed that Mr. Coleman had been "brainwashed" by the church. His girlfriend, however, had attended services with Mr. Coleman. She reported that several members of the congregation had told her they had occasionally talked to new members who felt guilt over their prior behaviors, but none who had ever hallucinated, and they were worried about him.

A physical examination of the patient, including a neurological screen, was unremarkable, as were routine laboratory testing, a blood alcohol level, and urine toxicology. A noncontrast head computed tomography (CT) scan was normal.

Diagnosis

Schizophreniform disorder, provisional

Discussion

The differential diagnosis for a young military veteran with new-onset psychosis and a history of substance abuse is broad. The primary possibilities include a primary psychotic disorder, a psychotic mood disorder, substanceinduced psychosis, a psychotic disorder secondary to a general medical condition, a shared cultural syndrome, and PTSD.

Mr. Coleman seems most likely to fit a DSM-5 schizophreniform disorder, a diagnosis that differs from schizophrenia in two substantive ways: the total duration of schizophreniform illness—including prodrome, active, and residual phases—is greater than 1 month but less than 6 months. In addition, there is no criterion that

mandates social or occupational impairment. For both schizophreniform disorder and schizophrenia, the patient must meet at least two of five symptomatic criteria. Mr. Coleman describes hallucinations ("hearing voices trying to make me feel guilty") and negative symptoms (blunted affect, avolition, social isolation). The case report does not mention delusions or disorganization of either speech or behavior.

Not relevant to DSM-5 criteria, but of interest, is that Mr. Coleman reports two schneiderian symptoms besides auditory hallucinations: ideas of reference and possible cenesthetic hallucinations based on his description of his atypical headaches ("ringing" in his brain).

DSM-5 indicates that depressive and manic symptoms should be explored as potentially causing the psychosis, and Mr. Coleman denies pertinent mood symptoms. The diagnosis of schizophreniform disorder also requires exclusion of a contributory general medical condition or substance use disorder. Mr. Coleman appears to have no medical complaints, and both his physical examination and laboratory testing are noncontributory.

The patient himself is convinced that his symptoms are due to alcohol. At its worst, however, his drinking appears to have been modest, and he has lately been drinking "a beer or two" every other week. He denies ever having had symptoms of withdrawal or other complications. His hallucinations began months after he cut back on his alcohol use, and they persisted for months. Additionally, his laboratory tests, including a hepatic panel and complete blood count, were normal, which would be unusual in patients with the sort of chronic alcohol use that usually accompanies alcohol-induced psychosis or significant withdrawal. Mr. Coleman's chronic cannabis use could potentially be implicated in the development of psychosis, but not only was his cannabis use sporadic, he apparently had not used for several months prior to the onset of hallucinations, and results of a toxicology screen were negative. It would appear that Mr. Coleman's concerns about alcohol and cannabis are linked to hyperreligious guilt rather than an actual substance use disorder. The possibility of a general medical condition was considered, but his normal laboratory testing and physical examination results provided no such evidence.

Schizophreniform disorders last at least 1 month but less than 6 months. In regard to Mr. Coleman, his initial 1–2 months of religious preoccupation and guilty ruminations would be considered a prodrome phase. The 3 months preceding presentation to the ER would represent the active phase of psychosis. Because Mr. Coleman's psychotic symptoms have lasted 4–5 months but are ongoing, he would be said to have provisional schizophreniform disorder. Obviously, everyone who goes on to develop schizophrenia has a 6-month period in which they could be said to have schizophreniform disorder, but about one-third of people with schizophreniform disorder do not go on to develop schizophrenia or schizoaffective disorder.

Three other diagnostic possibilities that deserve mention include PTSD, a dissociative disorder, and a shared cultural syndrome. The case does not go into depth about Mr. Coleman's military experience, but simply the experience of being in an active war zone can be a traumatic exposure. He did not report features of PTSD, but it is not clear how extensively possible PTSD symptoms were discussed. Given that avoidance is a cardinal feature of PTSD—making it less likely that he would spontaneously report the symptoms without being prompted—it would be useful to tactfully explore the possibility.

Mr. Coleman's family members indicate that his symptoms began around the time of his initiation into an evangelical church and worry that he has been "brainwashed." DSM-5 includes a possibly pertinent category, listed under "other specified dissociative disorders," within the chapter on dissociative disorders. This disorder is reserved for individuals who experience an identity disturbance due to prolonged and coercive persuasion in the context of such experiences as long-term political imprisonment or recruitment by cults.

It is also possible that Mr. Coleman's unusual beliefs are a nonpathological manifestation of religious beliefs that he shares with other members of his church.

It appears that his psychotic symptoms began prior to his entry into the church, however, and may have been an underlying motivating factor for him to join a church that had previously not been of interest to him. In addition, although he attended church frequently, there is no evidence that he joined a cult or particularly manipulative religious sect. Furthermore, other congregants viewed his hallucinations as aberrant, indicating that his views were not part of a shared cultural or religious mindset.

The initial diagnosis of provisional schizophreniform disorder is temporary. Longitudinal follow-up will clarify whether Mr. Coleman's symptoms attenuate or progress to a chronic psychotic illness.

Suggested Readings

Bromet EJ, Kotov R, Fochtmann LJ, et al: Diagnostic shifts during the decade following first admission for psychosis. Am J Psychiatry 168(11):1186–1194, 2011

Heckers S, Barch DM, Bustillo J, et al: Structure of the psychotic disorders classification in DSM 5. Schizophr Res May 23, 2013 [Epub ahead of print]

Tamminga CA, Sirovatka PJ, Regier DA, van Os J: Deconstructing Psychosis: Refining the Research Agenda for DSM-V. Arlington, VA, American Psychiatric Association, 2010

Case 2.4Mind Control

Rajiv Tandon, M.D.

Itsuki Daishi was a 23-year-old engineering student from Japan who was referred to his university student mental health clinic by a professor who had become concerned about his irregular school attendance. When they had met to discuss his declining performance, Mr. Daishi had volunteered to the professor that he was distracted by the "listening devices" and "thought control machines" that had been placed in his apartment.

While initially wary of talking to the psychiatrist, Mr. Daishi indicated that he was relieved to finally get a chance to talk in a room that had not yet been bugged. He said that his problems began 3 months earlier, after he returned from a visit to Japan. He said his first indication of trouble was that his classmates sneezed and grinned in an odd way when he entered the classroom. One day when returning from class, he noticed two strangers outside his apartment and wondered why they were there.

Mr. Daishi said that he first noticed that his apartment had been bugged about a week after the strangers had been standing outside his apartment. When he watched television, he noticed that reporters commented indirectly and critically about him. This experience was most pronounced when he watched Fox News, which he believed had targeted him because of his "superior intelligence" and his intention to someday become the prime minister of Japan. He believed that Fox News was trying to make him "go mad" by instilling conservative ideas into his brain, and that this was possible through the use of tiny mind-control devices they had installed in his apartment.

Mr. Daishi's sleep became increasingly irregular as he became more vigilant, and he feared that everyone at school and in his apartment complex was "in on the plot." He became withdrawn and stopped attending classes, but he continued to eat and maintain his personal hygiene.

He denied feeling elated or euphoric. He described his level of energy as "okay" and his thinking as clear "except when they try to put ideas into my head." He admitted to feeling extremely fearful for several hours on one occasion during his recent trip to Japan. At that time, he had smoked "a lot of pot" and began hearing strange sounds and believing that his friends were laughing at him. He denied any cannabis consumption since his return to the United States and denied ever having experimented with any other substances of abuse, saying that he generally would not even drink alcohol. He denied all other history of auditory or visual hallucinations.

When Mr. Daishi's uncle, listed as his local guardian, was contacted, he described his nephew as a healthy, intelligent, and somewhat shy boy without any prior history of any major psychiatric illness. He described Mr. Daishi's parents as very loving and supportive, although his father "might be a little stern." There was no family history of any major mental illness.

On examination, Mr. Daishi was well groomed and cooperative, with normal psychomotor activity. His speech was coherent and goal directed. He described his mood as "afraid." The range and mobility of his affective expression were normal. He denied any ideas of guilt, suicide, or worthlessness. He was convinced that he was being continuously monitored and that there were "mind-control" devices in his apartment. He denied hallucinations. His cognitive functions were grossly within normal limits. He appeared to have no insight into his beliefs.

On investigation, Mr. Daishi's laboratory test results were normal, his head computed tomography scan was unremarkable, and his urine drug screen was negative for any substances of abuse.

Diagnosis

Delusional disorder, mixed type

Discussion

Mr. Daishi meets criteria for delusional disorder, which requires one or more delusions that persist for greater than 1 month but no other psychotic symptoms. Most of Mr. Daishi's delusions are persecutory and related to monitoring devices. He has delusions of reference (classmates sneezing and grinning at him), persecution ("trying to make me go mad," monitoring devices), and thought insertion ("machines trying to put ideas into my head"). He warrants the "mixed" specifier because the apparent motivation for his having been targeted appears to be grandiose (his "superior intelligence" and plans to be the prime minister of Japan), but he has no other symptoms of mania.

Other psychotic disorders should also be considered. The 3-month duration of symptoms is too long for brief psychotic disorder (no longer than 1 month) and too brief for schizophrenia (no briefer than 6 months) but is an appropriate duration for schizophreniform disorder (between 1 and 6 months' duration). Mr. Daishi does not appear, however, to have a second symptom (e.g., hallucinations, negative symptoms, or disorganization) as required for a schizophreniform diagnosis. In DSM-IV, a single bizarre delusion—the delusion of thought insertion—would have been adequate to reach symptomatic criteria for schizophreniform disorder (or schizophrenia), but bizarre delusions no longer receive special treatment among the DSM-5 schizophrenia spectrum disorders.

The absence of manic or major depressive mood symptoms excludes a diagnosis of bipolar disorder (with psychotic symptoms), major depressive disorder (with psychotic symptoms), or schizoaffective disorder.

Substance-induced psychotic disorder should be considered in view of Mr. Daishi's recent, significant cannabis consumption. His symptoms do seem to have developed soon after consumption of a substance known to cause psychosis (cannabis, with or without adulteration with another substance such as phencyclidine), and cannabis might be considered a trigger that Mr. Daishi should avoid in the future. DSM-5 specifically excludes the diagnosis of substance-induced psychotic disorder, however, when symptoms persist for a substantial period of time (e.g., 1 month) following the discontinuation of the substance.

Suggested Readings

Cermolacce M, Sass L, Parnas J: What is bizarre about bizarre delusions? A critical review. Schizophr Bull 36(4):667–679, 2010

Nordgaard J, Arnfred SM, Handest P, Parnas J: The diagnostic status of first-rank symptoms. Schizophr Bull 34(1):137–154, 2008

Tandon R: The nosology of schizophrenia: toward DSM-5 and ICD-11. Psychiatr Clin North Am 35(3):557–569, 2012

Tandon R, Carpenter WT: DSM-5 status of psychotic disorders: 1 year prepublication. Schizophr Bull 38(3):369–370, 2012

Case 2.5Sad and Psychotic

Stephan Heckers, M.D., M.Sc.

John Evans was a 25-year-old single, unemployed white man who had been seeing a psychiatrist for several years for management of psychosis, depression, anxiety, and abuse of marijuana and alcohol.

After an apparently normal childhood, Mr. Evans began to show dysphoric mood, anhedonia, low energy, and social isolation by age 15. At about the same time, Mr. Evans began to drink alcohol and smoke marijuana every day. In addition, he developed recurrent panic attacks, marked by a sudden onset of palpitations, diaphoresis, and thoughts that he was going to die. When he was at his most depressed and panicky, he twice received a

combination of sertraline 100 mg/day and psychotherapy. In both cases, his most intense depressive symptoms lifted within a few weeks, and he discontinued the sertraline after a few months. Between episodes of severe depression, he was generally seen as sad, irritable, and amotivated. His school performance declined around tenth grade and remained marginal through the rest of high school. He did not attend college as his parents had expected him to, but instead lived at home and did odd jobs in the neighborhood.

Around age 20, Mr. Evans developed a psychotic episode in which he had the conviction that he had murdered people when he was 6 years old. Although he could not remember who these people were or the circumstances, he was absolutely convinced that this had happened, something that was confirmed by continuous voices accusing him of being a murderer. He also became convinced that other people would punish him for what had happened, and thus he feared for his life. Over the ensuing few weeks, he became guilt-ridden and preoccupied with the idea that he should kill himself by slashing his wrists, which culminated in his being psychiatrically hospitalized. Although his affect on admission was anxious, within a couple of days he also became very depressed, with prominent anhedonia, poor sleep, and decreased appetite and concentration. With the combined use of antipsychotic and antidepressant medications, both the depression and the psychotic symptoms remitted after 4 weeks. Thus, the total duration of the psychotic episode was approximately 7 weeks, 4 of which were also characterized by major depression. He was hospitalized with the same pattern of symptoms two additional times before age 22, each of which started with several weeks of delusions and hallucinations related to his conviction that he had murdered someone when he was a child, followed by severe depression lasting an additional month. Both relapses occurred while he was apparently adherent to reasonable dosages of antipsychotic and antidepressant medications. During the 3 years prior to this evaluation, Mr. Evans had been adherent to clozapine and had been without hallucinations and delusions. He had also been adherent to his antidepressant medication and supportive psychotherapy, although his dysphoria, irritability, and amotivation never completely resolved.

Mr. Evans's history was significant for marijuana and alcohol abuse that began at age 15. Before the onset of psychosis at age 20, he smoked several joints of marijuana almost daily and binge drank on weekends, with occasional blackouts. After the onset of the psychosis, he decreased his marijuana and alcohol use significantly, with two several-month-long periods of abstinence, yet he continued to have psychotic episodes up through age 22. He started attending Alcoholics Anonymous and Narcotics Anonymous groups, achieved sobriety from marijuana and alcohol at age 23, and had remained sober for 2 years.

Diagnoses

- Schizoaffective disorder, depressive type
- Alcohol use disorder, in remission
- Marijuana use disorder, in remission

Discussion

Mr. Evans has struggled with depression and anxiety since adolescence, worsened by frequent use of marijuana and alcohol. At first, his treaters diagnosed him with depression and panic disorder and treated him accordingly. He did not enter college, as his family had expected, and he has not been employed since graduation from high school. At age 20, psychosis emerged and he required psychiatric hospitalization.

His major psychotic symptom is paranoia, with persecutory delusions and paramnesias of homicide. The delusions are worsened by auditory hallucinations, which he experiences as confirmation of his delusions. The delusions and hallucinations occurred almost daily between ages 20 and 22, until they resolved with clozapine treatment. Although he reports difficulties with his memory, he has not displayed marked cognitive impairment or disorganization of thought. He is socially isolated and minimally able to interact with others. The extent, severity, and duration of his psychotic symptoms are consistent with the diagnosis of a schizophrenia spectrum disorder.

Mr. Evans's psychosis emerged after several years of depression, anxiety, and panic attacks. Since the onset of his psychotic illness, he has experienced multiple episodes of depression, which emerge after periods of delusion and hallucinations and feature overwhelming guilt, prominent anhedonia, poor sleep, and occasional bursts of irritability. He can become suicidal when psychosis and depression reach peak intensity.

Mr. Evans meets criteria, therefore, for DSM-5 schizoaffective disorder. He has had an uninterrupted period in which his major depressive symptoms were concurrent with his schizophrenia symptoms. He has had several-week periods of hallucinations and delusions without prominent mood symptoms. Since the onset of the active and residual portions of his schizophrenia, the major depressive symptoms have been present most of the time.

Mr. Evans also used marijuana and alcohol for 8 years. Although these might have contributed to the emergence of his mood and psychotic symptoms, he continued to experience significant delusions, hallucinations, and depression between ages 20 and 22, when he stopped using marijuana and alcohol for several months. An alcohol- or marijuana-induced depressive, anxiety, or psychotic disorder might have been considered at various times in Mr. Evans's life, but the persistence of his mood and psychotic symptoms for months after the discontinuation of marijuana and alcohol indicates that he does not have a substance-induced psychiatric disorder.

His response to treatment with antipsychotic, antidepressant, and mood-stabilizing medication is typical: several failed attempts with antipsychotic drugs, the need for combined treatment during periods of exacerbations, and failed attempts to taper either the antidepressant or the antipsychotic medication.

One complicating factor in regard to diagnosing a DSM-5 schizoaffective disorder is the reality that although DSM-5 requires that the mood disorder be present for the majority of the active and residual portions of the schizophrenia, mood and psychotic disorders tend to vary significantly in regard to treatment response and clinical course. For example, whereas depressive and bipolar disorders tend to run in cycles, schizophrenia—once it unfolds—tends to persist. Furthermore, depressive and bipolar disorders tend to be more amenable to treatment than schizophrenia, especially because the diagnostic time frame for the latter includes the residual phase of schizophrenia, which can be largely resistant to psychiatric interventions. It remains to be seen how this tightening of the criteria for schizoaffective disorder will affect the identification and treatment of this cluster of patients.

Suggested Reading

Heckers S: Diagnostic criteria for schizoaffective disorder. Expert Rev Neurother 12(1):1-3, 2012

Case 2.6Psychosis and Cannabis

Melissa Nau, M.D., Heather Warm, M.D.

Kevin Foster, a 32-year-old white man with a history of bipolar disorder, was brought to the emergency room (ER) by police after his wife called 911 to report that he was threatening to jump out of their hotel window.

At the time of the episode, Mr. Foster and his wife were on vacation, celebrating their fifth anniversary. To commemorate the event, they decided to get tattoos. Afterward, they went to a nearby park, where Mr. Foster bought and smoked a marijuana cigarette. During the ensuing hour, Mr. Foster began to believe that the symbols in his tattoo had mysterious meaning and power. He became convinced that the tattoo artist was conspiring with others against him and that his wife was cheating on him. After returning to the hotel, the patient searched his wife's phone for evidence of her infidelity and threatened to jump out the window. The patient's wife, an ER physician, successfully convinced the patient to go to sleep, thinking that the episode would resolve.

The following day, the patient remained paranoid and delusional. He again threatened to jump out the window, and indicated that he would have no choice but to kill his wife the next time she slept. She called 911, and her husband was brought to the ER of a large nearby hospital. Later that day, he was admitted to an acute inpatient psychiatric unit with a diagnosis of unspecified psychotic disorder.

The patient had smoked cannabis sporadically from age 18 but began to smoke daily 5 years prior to this admission. He and his wife denied that he had ever used other illicit substances, and the patient indicated that he rarely drank alcohol. Until 1 year earlier, he had never seen a psychiatrist or been viewed by his friends and family as having significant psychiatric issues.

In the past year, however, Mr. Foster had been hospitalized four times for psychiatric problems. He had been hospitalized twice with classic manic symptoms and once for a suicidal depression. In addition, 7 months prior to this presentation, the patient had been hospitalized for a 6-week episode of cannabis-induced psychosis, which responded well to risperidone. At that time, his main symptom was paranoia. Two months prior to this admission, he entered a 1-month inpatient substance abuse treatment program for cannabis use disorder. Until the weekend of this admission, he had not used marijuana, alcohol, or any other substances since discharge from the rehabilitation facility. He had also been functioning well while taking lithium monotherapy for 3 months.

Mr. Foster had been steadily employed as a film editor since graduating from college. His father had a bipolar disorder, and his paternal grandfather committed suicide via gunshot but with an unknown diagnosis.

On the second day of hospitalization, the patient began to realize that his wife was not cheating on him and that the symbols in his tattoo were not meaningful. By the third day, he spontaneously said the paranoia was the result of cannabis intoxication. He declined further risperidone but continued lithium monotherapy. He was discharged with an appointment to follow up with his outpatient psychiatrist.

Diagnoses

- Cannabis-induced psychotic disorder
- Bipolar disorder, in remission

Discussion

Soon after smoking a marijuana cigarette, Mr. Foster began to believe that the symbols of his new tattoo had mysterious meaning and power. Within hours, he became paranoid about the tattoo artist and delusionally jealous. He threatened to kill himself and his wife. He was admitted to a psychiatric unit. The psychotic symptoms cleared within a few days, and the patient regained appropriate insight. This symptom trajectory fits DSM-5 substance/medication-induced psychotic disorder, which requires delusions or hallucinations that develop during, or soon after, a substance intoxication (or withdrawal or medication exposure).

An additional DSM-5 diagnostic criterion for cannabis-induced psychotic disorder revolves around whether Mr. Foster's delusions might not be better explained by a primary psychotic disorder such as schizophrenia or psychotic symptoms within depression or mania. His symptoms resolved within 3 days, which is typical for a cannabisinduced psychosis but not for an independent psychotic disorder. The rapid resolution of symptoms would support the likelihood that the cannabis caused his symptoms.

Mr. Foster's psychiatric history complicates the diagnosis in two different ways. First, of the four psychiatric hospitalizations Mr. Foster has had in the past year, one was for paranoid delusions in the context of cannabis use, leading to a 6-week hospitalization. The duration of the actual paranoid delusions is not entirely clear, but they appear to have lasted far longer than would be typical for a cannabis-induced psychosis. DSM-5 specifically cautions that persistence of a psychosis beyond 1 month after the exposure implies that the psychosis may be independent rather than substance induced.

Second, of Mr. Foster's three other psychiatric hospitalizations, two were for "classic" mania and one was for "suicidal depression." It is not clear whether paranoia or psychosis was part of these episodes. DSM-5 points out that a history of recurrent non-substance-related psychotic episodes would make a substance-induced psychosis less likely.

It is not clear whether these psychiatric episodes can be brought together under a single diagnostic umbrella. For example, Mr. Foster could have bipolar disorder with recurrent episodes of depression and mania. The cannabis might help him sleep—which might reduce the mania—but could possibly trigger episodes. If manic and depressive episodes (with or without psychosis) are triggered by a substance but symptoms persist for an extended period of time, then the most accurate diagnosis would be the bipolar disorder. This would be especially true if similar symptoms develop in the absence of substance use. Mr. Foster has a family history significant for bipolar disorder, which could further support such a diagnosis. On the other hand, Mr. Foster did not endorse any mood symptoms during this most recent psychotic episode, and psychotic symptoms resolved within 2–3 days. This history would seem to indicate that although Mr. Foster has historically met criteria for bipolar disorder, it seems to be currently in remission.

Multiple schizophrenia spectrum disorders might be considered. Given a 3-day duration of symptoms, however, most diagnoses are quickly eliminated as possibilities. In addition, Mr. Foster appears to have only one affected domain (delusions). Delusional disorder involves only delusions, but the minimum duration is 1 month. Brief psychotic disorder also requires only one of the four primary schizophrenia spectrum symptoms, but it does require an evaluation as to whether the precipitant might be a substance or medication.

At the moment, then, a cannabis-induced psychotic disorder appears to be the most likely diagnosis for Mr. Foster's particular episode. Clarification might be possible through more thorough investigation of prior medical records, but even more helpful will be ongoing, longitudinal follow-up.

Suggested Readings

Caton CL, Hasin DS, Shrout PE, et al: Stability of early-phase primary psychotic disorders with concurrent substance use and substance-induced psychosis. Br J Psychiatry 190:105–111, 2007

Ekleberry S: Treating Co-Occurring Disorders: A Handbook for Mental Health and Substance Abuse Professionals. Binghamton, NY, Haworth, 2004

Grant BF, Stinson FS, Dawson DA, et al: Prevalence and co-occurrence of substance use disorders and independent mood and anxiety disorders: results from the National Epidemiologic Survey on Alcohol and Related Conditions. Arch Gen Psychiatry 61(8):807–816, 2004

Pettinati HM, O'Brien CP, Dundon WD: Current status of co-occurring mood and substance use disorders: a new therapeutic target. Am J Psychiatry 170(1):23–30, 2013

Case 2.7Flea Infestation

Julie B. Penzner, M.D.

Lara Gonzalez, a 51-year-old divorced freelance journalist, brought herself to the emergency room requesting dermatological evaluation for flea infestation. When no corroborating evidence was found on skin examination and the patient insisted that she was unsafe at home, she was admitted to an inpatient psychiatric service with "unspecified psychotic disorder."

Her concerns began around 1 week prior to presentation. To contend with financial stress, she had taken in temporary renters for a spare room in her home and had begun pet sitting for some neighbors. Under these conditions, she perceived brown insects burrowing into her skin and walls and covering her rugs and mattress. She threw away a bag of clothing, believing she heard fleas "rustling and scratching inside." She was not sleeping well, and she had spent the 36 hours prior to presentation frantically cleaning her home, fearing that her tenants would not pay if they saw the fleas. She showered multiple times using shampoos meant to treat animal infestations. She called an exterminator who found no evidence of fleas, but she did not believe him. She was upset about the infestation but was otherwise not troubled by depressive or manic symptoms, or by paranoia. She did not use drugs or alcohol. No one in the family had a history of psychiatric illness. Ms. Gonzalez had had depression once in the past and was briefly treated with an antidepressant. She had no relevant medical problems.

Her worries about infestation began in the setting of her sister's diagnosis with invasive cancer, the onset of her own menopause, financial strain that was likely forcing her to move from the United States back to Argentina (her country of origin), and a recent breakup with her boyfriend. At baseline, she described herself as an obsessive person who had always had contamination phobias, which historically worsened during times of anxiety.

On mental status examination, Ms. Gonzalez was calm and easily engaged, with normal relatedness and eye contact. She offered up a small plastic bag containing "fleas and larvae" that she had collected in the hospital while awaiting evaluation. Inspection of the bag revealed lint and plaster. Her speech had an urgent quality to it, and she described her mood as "sad right now." She was tearful intermittently but otherwise smiling reactively. Her thoughts were overly inclusive and intensely focused on fleas. She expressed belief that each time a hair fell out of her head, it would morph into larvae. When crying, she believed an egg came out of her tear duct. She was not suicidal or homicidal. She expressed an unshakable belief that lint was larvae, and that she was infested. She denied hallucinations. Cognition was intact. Her insight was impaired, but her judgment was deemed reasonably appropriate.

Dermatological examination revealed no insects or larvae embedded in Ms. Gonzalez's skin. Results of neurological examination, head computed tomography scan, laboratory tests, and toxicology data were normal. She was discharged on a low-dose antipsychotic medication and seen weekly for supportive psychotherapy. Her preoccupation improved within days and resolved entirely within 2 weeks. She developed enough insight to refer to her belief that fleas were in her skin as a "crazy thought." She attributed her "break from reality" to multiple stressors, and was able to articulate that she relied on her delusion as a way to distract herself from real problems. Her family corroborated her quick return to baseline.

Diagnosis

Brief psychotic disorder with marked stressors
Discussion

Ms. Gonzalez's delusions with quick return to full premorbid functioning suggest a diagnosis of brief psychotic disorder with marked stressors. Formerly called "brief reactive psychosis," a brief psychotic disorder (with or without marked stressors) may not be diagnosed until return to baseline has occurred. The differential diagnosis of this condition is important.

At the time of admission, the patient was diagnosed with "unspecified psychotic disorder," a term often used when psychosis is present but information is incomplete. Only after her symptoms rapidly resolved could she be diagnosed with a brief psychotic disorder. Ms. Gonzalez's insight returned quite quickly, and she was able to link her symptoms to antecedent stressors. Although treatment is likely to shorten the duration of an acute psychotic episode, DSM-5 specifically does not factor treatment into the requirement that the episode last less than 1 month.

It is worth noting that stressors can be positive (e.g., marriage, new job, new baby) or negative, as in Ms. Gonzalez's case. A favorable prognosis is often associated with a history of good premorbid functioning, significant acute stressors, and a lack of family or personal history of psychiatric illness.

Ms. Gonzalez's sleeplessness, behavioral agitation, and premorbid depressive history might also suggest bipolar episode, but there are no other symptoms to support this diagnosis. Similarly, her delusional obsession with flea infestation suggests a possible delusional disorder, but Ms. Gonzalez's symptoms resolved far too quickly for this to be likely. Patients with personality disorders can have "micropsychoses," but Ms. Gonzalez does not appear to have a personality disorder or particular personality vulnerability. Malingering and factitious disorder appear unlikely, as do delirium and other medically mediated illnesses.

Brief psychotic episodes have a low prevalence in the population, which could indicate that brief psychoses are unusual. It could also indicate that people with a very short duration of psychotic symptoms may not seek psychiatric help. The brevity and unpredictability of symptoms also makes it difficult to do research and for any particular clinician or institution to develop an expertise. Brief psychotic episodes are also noted to have a relatively low stability over time, which makes sense given that—unlike schizophrenia—brief psychotic episodes are, by definition, of short duration and cannot even be diagnosed without both remission of symptoms and careful followup.

Suggested Readings

Jørgensen P, Bennedsen B, Christensen J, Hyllested A: Acute and transient psychotic disorder: comorbidity with personality disorder. Acta Psychiatr Scand 94(6):460–464, 1996

Salvatore P, Baldessarini RJ, Tohen M, et al: McLean-Harvard International First-Episode Project: two-year stability of DSM-IV diagnoses in 500 first-episode psychotic disorder patients. J Clin Psychiatry 70(4):458–466, 2009

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Chapter 3. Bipolar and Related Disorders

Introduction

John W. Barnhill, M.D.

Bipolar disorder features a distinct period of mania or hypomania. For example, a patient might develop a relatively acute onset of euphoria, diminished need for sleep, grandiosity, pressured speech, racing thoughts, and a variety of behavioral indiscretions. Absent complicating factors, such a patient would likely be readily identified as having a manic episode as part of a DSM-5 bipolar I disorder.

Complicating factors abound in diagnosing bipolar disorder, however, which is one reason that this chapter features an abundance of cases. Most of the complications relate to symptom evaluation. First, DSM-5 identifies seven symptoms that tend to cluster in bipolar disorder, and the diagnosis of mania requires three of them. Each of these symptoms requires clinical judgment in regard to both duration and intensity, and certain problems, such as "distractibility" and "reduced need for sleep," are not always obvious during a clinical evaluation. A diagnosis of mania requires that symptoms from this cluster persist most of the day, every day, for at least a week. This standard requires an accurate history, which can be difficult to obtain from any patient, but particularly from one who may have little insight into presence of a psychiatric problem (as is often the case for individuals with bipolar disorder). Collateral information may be crucial in assessing possible mania. An accurate bipolar history is even more difficult to obtain when the presenting symptom is depression, and manic symptoms might not have been present for many years. Half of patients with bipolar disorder abuse illicit substances, which can complicate the presentation, diagnosis, and treatment. Depression is so commonly found in bipolar disorder that the disorder was previously called "manic depression." The relationship between the two mood states is not always clear, however, which is one reason that bipolar disorder was shifted into its own chapter in DSM-5. As it turns out, depression can be absent in bipolar disorder, but it can also be the dominant mood state in regard to both frequency and intensity of symptoms. Mood can oscillate between the two poles of depression and mania, or the two can coexist (e.g., a mood episode with mixed features). The relationship between the depressive and manic symptoms is made even more complicated by the reality that patients are more likely to spontaneously complain about dysphoria than about euphoria. Finally, as is generally the case for disorders throughout DSM-5, a bipolar diagnosis requires impairment. Some of the core symptoms of mania-increased activity, euphoria, and talkativeness-can lead to increased effectiveness and pleasure, at least in the short term, which further complicates the assessment. DSM-5 addresses these uncertainties by describing multiple syndromes within a bipolar spectrum. For example, diagnoses of mania and hypomania both require "three of seven listed criteria, most of the day, nearly every day."

However, mania requires at least one episode lasting at least 7 days, whereas hypomania requires only 4 days. Instead of causing a marked impairment in social or occupational functioning as seen in mania, hypomania requires an unequivocal change from baseline that is observable by others. These criteria take into consideration the reality that manic and hypomanic patients often lack insight, and the criteria emphasize that hypomania is less severe than mania. Hypomania is a key feature of DSM-5 bipolar II disorder. A second distinguishing feature of bipolar II disorder is the requirement for at least one major depressive episode at a time when hypomanic symptoms are not present. This requirement is in contrast to bipolar I disorder, which does not require the historical presence of depression.

Other patients may have classic manic or hypomanic symptoms but with an apparent physiological precipitant. For example, a patient may have developed manic symptoms immediately after receiving prednisone, a steroid, for a flare-up of systemic lupus erythematosus (lupus). The diagnostic dilemma centers on whether the patient has bipolar disorder, which would presumably warrant a mood-stabilizing medication; or has had a fairly common reaction to steroids (i.e., a disorder commonly and inaccurately labeled "steroid psychosis" but better called a DSM-5 medication-induced bipolar disorder), which might be treated by a reduction in steroid medication; or — perhaps most likely—has a case of neuropsychiatric lupus (i.e., a DSM-5 bipolar disorder due to another medical condition), which might be best treated by an *increase* in steroids. One reason that the bipolar diagnosis is so hotly contested is that making the correct diagnosis, and not making the wrong diagnosis, is vitally important for patient care.

The bipolar spectrum also includes clusters of individuals whose mania-related symptoms are significant but who do not meet criteria for bipolar I or II disorder by virtue of the number or duration of symptoms. For example, some patients have a chronic course of alternating hypomanic and subthreshold depressive symptoms. To reach the diagnostic threshold for DSM-5 cyclothymic disorder, these symptoms have to be distressing and persistent (more days than not for at least 2 years—1 year in adolescents—with no more than 2 months without symptoms), and the individual should never have met criteria for a manic or major depressive episode. This cluster of patients has DSM-5 cyclothymic disorder, a disorder quite parallel to DSM-5 persistent depressive disorder (dysthymia) in regard to both duration and intensity of symptoms.

Other patients have significant manic symptoms, but an adequate history is not elicited because of the situation (e.g., an emergency room visit); in such cases, the diagnosis would be DSM-5 unspecified bipolar and related disorder. A variety of other patients are diagnosed with DSM-5 other specified bipolar and related disorder. These include people whose manic symptoms either persist for an inadequate duration (e.g., only 2–3 days rather than the required 4 days) or persist for greater than 4 days but do not meet the three of seven symptomatic criteria for hypomania. Still others meet criteria for hypomania but lack a history of major depression and do not, therefore, meet criteria for bipolar II disorder. Others have chronic hypomania and subthreshold depressive symptoms but do not meet the 24-month criterion for cyclothymia.

Bipolar spectrum diagnoses have generated significant controversy. One issue relates to duration. It is difficult to make a diagnosis in which the symptoms need be present for only a few days and do not necessarily cause significant distress. Another complication relates to symptom intensity. Distinguishing normal from abnormal is not always easy when the variables include such core human behaviors as talkativeness, risk taking, need for sleep, and self-esteem.

To address this controversy, DSM-5 balances two competing interests. The first is to identify robust, discrete symptom clusters that occur within distressed patients. The second is to avoid pathologizing normal human experience. Absent reliable tests for "bipolar disorder," the onus is on the clinician to make use of these criteria and to follow available evidence in both the diagnosis and treatment of these challenging patients.

Suggested Readings

Cosgrove VE, Suppes T: Informing DSM-5: biological boundaries between bipolar I disorder, schizoaffective disorder, and schizophrenia. BMC Med May 14, 2013 [Epub ahead of print]

Strakowski SM: The Bipolar Brain: Integrating Neuroimaging and Genetics. New York, Oxford University Press, 2012

Swann AC, Lafer B, Perugi G, et al: Bipolar mixed states: an International Society for Bipolar Disorders Task Force report of symptom structure, course of illness, and diagnosis. Am J Psychiatry 170(1):31–42, 2013

Case 3.1Emotionally Disturbed

Donald M. Hilty, M.D.

An African American man who appeared to be in his 30s was brought to an urban emergency room (ER) by police. The referral form indicated that he was schizophrenic and an "emotionally disturbed person." One of the police officers said that the man offered to pay them for sex while in the back seat of their patrol car. He referred to himself as the "New Jesus" and declined to offer another name. He refused to sit and instead ran through the ER. He was put into restraints and received intramuscularly administered lorazepam 2 mg and haloperidol 5 mg. Intravenous diphenhydramine (Benadryl) 50 mg was readied in case of extrapyramidal side effects. The admitting team wrote that he had "unspecified schizophrenia spectrum and other psychotic disorder" and transferred him to the psychiatry team that worked in the ER.

Despite being restrained, he remained giddily agitated, talking about receiving messages from God. When asked when he last slept, he said he no longer needed sleep, indicating that he had "been touched by Heaven." His speech was rapid, disorganized, and difficult to understand. A complete blood count, blood chemistries, and a

toxicology screen were drawn. After an additional 45 minutes of agitation, he received another dose of lorazepam. This calmed him, but he still did not sleep. His restraints were removed.

A review of his electronic medical record indicated that he had experienced a similar episode 2 years earlier. At that time, a toxicology screen had been negative. He had been hospitalized for 2 weeks on the inpatient psychiatric service and given a discharge diagnosis of "schizoaffective disorder." At that time, he was prescribed olanzapine and referred to an outpatient clinic for follow-up. That chart had referred to two previous admissions to the county inpatient hospital, but records were not available after hours.

An hour after receiving the initial haloperidol and lorazepam, the patient was interviewed while he sat in a chair in the ER. He was an overweight African American man who was disheveled and malodorous, though he did not smell of alcohol. He made poor eye contact, instead looking at nearby people, a ticking clock, the examiner, a nearby nurse—at anything or anyone that moved. His speech was disorganized, rapid, and hard to follow. His leg bounced rapidly up and down, but he did not get out of his chair or threaten the interviewer. He described his mood as "not bad." His affect was labile. He often laughed for no particular reason but would get angrily frustrated when he felt misunderstood. His thought process was disorganized. He had grandiose delusions, and his perceptions were significant for "God talking to me." He denied other hallucinations as well as suicidality and homicidality. When asked the date, he responded with an extended discussion about the underlying meaning of the day's date, which he missed by a single day. He remembered the names of the two police officers who had brought him to the hospital. He refused more cognitive testing. His insight and judgment appeared poor.

The patient's sister arrived an hour later, after having been called by a neighbor who had seen her brother, Mark Hill, taken away in a police car. The sister said her brother had seemed strange a week earlier, uncharacteristically arguing with relatives at a holiday gathering. She said he had claimed not to need sleep at that time and had been talking about his "gifts." She had tried to contact Mr. Hill since then, but he had not responded to phone, e-mail, or text messages. She said he did not like to talk about his issues, but she had twice seen a bottle of olanzapine in his house. She knew their father had been called schizophrenic and bipolar, but she had not seen the father since she was a child. She said that Mr. Hill did not typically use drugs. She also said he was 34 years old and a middle school math teacher who had just finished a semester of teaching.

Over the next 24 hours, Mr. Hill calmed significantly. He continued to believe that he was being misunderstood and that he did not need to be hospitalized. He spoke rapidly and loudly. His thoughts jumped from idea to idea. He spoke of having a direct connection to God and having "an important role on Earth," but he denied having a connection to anyone called the "New Jesus." He remained tense and jumpy but denied paranoia or fear.

Serial physical examinations revealed no abnormalities aside from blisters on his feet. The patient was not tremulous, and his deep tendon reflexes were symmetrical and graded 2 of 4. He showed no neurological asymmetry. His toxicology screen was negative and his blood alcohol level was zero. His initial lab results were pertinent for elevated blood urea nitrogen and a blood sugar level of 210 mg/dL. His mean corpuscular volume, aspartate aminotransferase/alanine aminotransferase ratio, and magnesium level were normal.

Diagnosis

Bipolar I disorder, current episode manic, severe, with mood-congruent psychotic features

Discussion

Safety was the primary initial goal for Mr. Hill. To that end, he was given sedating medications and was, for an hour, put into restraints.

The team's attention quickly turned to diagnosis, and their understanding of the patient evolved over the 24 hours that he was in the ER. Upon admission, the team wrote that he had "unspecified schizophrenia spectrum and other psychotic disorder," a diagnosis that is often used when patients present with psychotic symptoms to an evaluating team that lacks enough information to make a more specific diagnosis. At that point, the critical diagnostic issue is between the diagnosis that appears most obvious (e.g., a psychosis) and diagnoses that are both common and potentially the most immediately dangerous (e.g., a psychosis or delirium induced by either substance intoxication or withdrawal).

The search in the electronic medical record was important in that it indicated that the patient had presented 2 years earlier with similar symptoms and a negative toxicology screen. Later on the day of the current admission, the evaluating team was further informed by a negative toxicology screen as well as labs that suggested Mr. Hill was not a chronic, intense user of alcohol (a blood alcohol level of zero and a normal mean corpuscular volume,

aspartate aminotransferase/alanine aminotransferase ratio, and magnesium level). The history provided by his sister in conjunction with Mr. Hill's normal reflexes, lack of tremor, and apparently intact cognition (good memory for the names of the police officers and orientation at least to the date) made alcohol withdrawal highly unlikely.

It was clear that Mr. Hill had some sort of psychosis, but the team did not seem to have developed a clear diagnosis. He had presented to the ER with a classic cluster of symptoms: an expansively irritable mood, grandiosity, a diminished need for sleep, pressured speech, racing thoughts, distractibility, agitation, and sexually inappropriate behavior. Blisters on his feet would be consistent with incessant walking, and elevated blood urea nitrogen and normal creatinine levels would be consistent with dehydration. In other words, he met every DSM-5 criterion for a manic episode. His psychotic symptoms were perhaps more loudly impressive, but they would be specifiers for the bipolar illness rather than an indication that the diagnosis belonged within the schizophrenia spectrum. Historical information—much of which became available only toward the end of Mr. Hill's day in the ER—indicated he was a 34-year-old math teacher who had just finished his teaching semester. People with schizophrenia very rarely are able to maintain a highly demanding job like teaching, whereas people with bipolar illness are often quite functional between episodes.

If Mr. Hill's presentation 2 years earlier was indeed similar to that of the current episode, and there was no actual evidence for a history of intermorbid psychotic thinking, it is curious that the earlier team concluded that he had schizoaffective disorder. One possible explanation is that cultural issues contributed to the schizoaffective diagnosis. African Americans appear to be diagnosed with schizophrenia much more frequently than non-Latino white individuals, despite not having an elevated actual incidence of the disorder. It is unclear why. It is possible that clinicians from a different cultural subgroup fail to get an adequate history because of some sort of mutual misunderstanding. It is also possible that reduced access to mental health care—perhaps related to economic disparities or lower levels of trust in the medical and/or mental health system—leads to systematic undertreatment of African Americans. This could lead to more persistent, severe, or bizarre psychotic symptoms, which might then be interpreted, mistakenly, as more likely to be associated with schizophrenia.

Diagnosis with a schizophrenia spectrum disorder would have consequences for Mr. Hill. He would be less likely to receive a mood-stabilizing medication, for example, which could lead to more episodes of both mania and depression. He might also be treated only with a medication such as olanza-pine, which is well known to cause large weight gains. Mr. Hill is noted to be obese and to have a blood sugar level of 210 mg/dL. His treating team needs to aggressively clarify his diagnosis, both to mitigate the many negative effects of his likely bipolar illness and to avoid iatrogenic metabolic effects such as diabetes.

Suggested Readings

Gara MA, Vega WA, Arndt S, et al: Influence of patient race and ethnicity on clinical assessment in patients with affective disorders. Arch Gen Psychiatry 69(6):593–600, 2012

Strakowski SM, Keck PE Jr, Arnold LM, et al: Ethnicity and diagnosis in patients with affective disorders. J Clin Psychiatry 64(7):747–754, 2003

Whaley AL: Psychometric analysis of the Cultural Mistrust Inventory with a Black psychiatric inpatient sample. J Clin Psychol 58(4):383–396, 2002

Case 3.2Cycles of Depression

Michael Gitlin, M.D.

Nancy Ingram, a 33-year-old stock analyst and married mother of two children, was brought to the emergency room (ER) after 10 days of what her husband described as "another cycle of depression," marked by a hair-trigger temper, tearfulness, and almost no sleep. He noted that these "dark periods" had gone on as long as he had known her but that she had experienced at least a half dozen of these episodes in the prior year. He said they typically improved within a few weeks of restarting her fluoxetine. He added that he wondered whether alcohol and clonazepam worsened her symptoms, because she routinely ramped up their use when the dark periods began.

Ms. Ingram's husband said he had decided to bring her to the ER after he discovered that she had recently created a blog entitled Ms. Ingram's Best Stock Picks. Such an activity not only was out of character but, given her job as a stock analyst for a large investment bank, was strictly against company policy. He said that she had been working on these stock picks around the clock, forgoing her own meals as well as her responsibilities at work and with her children. She countered that she was fine and that her blog would "make them as rich as Croesus."

The patient had first been diagnosed with depression in college, after the death of her father from suicide. He had been a wildly erratic, alcohol-abusing businessman whom the patient loved very much. Her paternal grandmother had several "nervous breakdowns," but her diagnosis and treatment history were unknown. Since college, her mood had generally been "down," interspersed with recurrent bouts of enhanced dysphoria, insomnia, and uncharacteristically rapid speech and hyperalertness. She had tried psychotherapy sporadically and taken a series of antidepressant medications, but her husband noted that the baseline depression persisted and that the dark periods were increasing in frequency.

Her outpatient psychiatrist noted that Ms. Ingram appeared to have dysthymia and a recurrent major depression. He also said that he had never seen her during her periods of edginess and insomnia—she always refused to see him until the "really down" periods improved—and that she had refused him access to her husband or to any other source of collateral information.

On examination, the patient was pacing angrily in the exam room. She was dressed in jeans and a shirt that was carelessly unbuttoned. Her eyes appeared glazed and unfocused. She responded to the examiner's entrance by sitting down and explaining that this was all a miscommunication, that she was fine and needed to get home immediately to tend to her business. Her speech was rapid, pressured, and very difficult to interrupt. She admitted to not sleeping but denied that it was a problem. She denied hallucinations but admitted, with a smile, to a unique ability to predict the stock market. She refused cognitive testing, saying she would decline the opportunity to be a "trained seal, a guinea pig, Mr. Ed, and a barking dog, thank you very much, and may I leave now?" Her insight into her situation appeared poor, and her judgment was deemed to be impaired.

Diagnosis

Bipolar disorder, current episode manic, with mixed features and rapid cycling

Discussion

Ms. Ingram presents with tearfulness, irritability, poor sleep, a sad mood, and increasingly unsuccessful treatments for recurrent major depression. When her symptoms are most intense and disabling, she refuses to see her outpatient psychiatrist. His evaluation has been limited, therefore, and the case report presents symptoms that do not seem to have been incorporated into the diagnostic evaluation. For example, Ms. Ingram presents with speech that is rapid and pressured, in contrast to the slow and nonspontaneous speech patterns typically found in depression. She has also created a get-rich-quick investment blog that reflects poor judgment and could get her fired from her job. These are classic manic symptoms, which should lead to a reformulation of her "depressive" symptoms. Her inability to sleep—typical for depression and, in depression, generally accompanied by daytime fatigue—appears to be better conceptualized as a diminished need for sleep without daytime fatigue. Irritability can be part of depression, but it is especially typical of people who have mixed features of both depression and mania. Ms. Ingram's mocking, dismissive attitude during the interview further substantiates this diagnosis, as do her poor insight and judgment. The history indicates at least six of these episodes within the prior year, which fulfills the DSM-5 criteria for the rapid-cycling subtype of bipolar mania.

Although at least some of her prior "depressions" appear to have been marked by pressured irritability, the case report does not indicate whether the prior episodes were accompanied by the level of grandiosity, risk taking, and dysfunction that accompany the current episode. Nevertheless, it does appear that Ms. Ingram has a history of chronic depressive features, possibly dysthymia, and that these have been accompanied by hypomanic and, as of this presentation, clearly manic symptoms. The combination of depressive and manic symptoms indicates that Ms. Ingram's rapid-cycling bipolar disorder is accompanied by "mixed features."

Because she never saw her psychiatrist during her past hypomanic episodes and refused to allow contact between him and others who know her, he was unaware of these hypomanic episodes and was treating her as if she had unipolar depression. This implies that she probably also had true depressive episodes (different from her recurrent mixed hypomanic periods), for which her psychiatrist prescribed fluoxetine. Her past "response" to fluoxetine is not easily interpretable given the information presented. Possibilities include the following: that fluoxetine was effective for treating clear depressions, which may have followed the mixed hypomanias (the classic mania-depression-interval sequence in bipolar disorder); that Ms. Ingram was cycling out of her episodes while taking fluoxetine, which had no positive effect; or that the use of the antidepressant, especially without a mood stabilizer, was inducing a more rapid cycling pattern, which would appear as rapid responses to an antidepressant with subsequent rapid relapsing into the next mood state.

Ms. Ingram's family history is consistent with major psychiatric illness, but it is not clear enough to specifically suggest bipolar disorder. A family history of suicide plus alcohol abuse (in the patient's father) does not help distinguish between unipolar and bipolar depression. The description of Ms. Ingram's father as erratic could reflect the effect of alcohol abuse, unrecognized bipolar disorder, or both. Similarly, the description of the patient's paternal grandmother as having had "nervous breakdowns" hints at a major psychiatric disorder but is diagnostically nonspecific.

The increased use of both clonazepam and alcohol during these manic states is very common. Bipolar disorder is associated with the highest rate of drug or alcohol comorbidity among all psychiatric disorders aside from other substance use disorders. In Ms. Ingram's case, use of clonazepam and alcohol could represent self-medication of her irritable dysphoria or the tendency of manic individuals to push any behavior to excess. Ms. Ingram's family history of alcohol abuse elevates her risk even further.

Suggested Readings

Coryell W, Solomon D, Turvey C, et al: The long-term course of rapid-cycling bipolar disorder. Arch Gen Psychiatry 60(9):914–920, 2003

Kupka RW, Luckenbaugh DA, Post RM, et al: Rapid and non-rapid cycling bipolar disorder: a meta-analysis of clinical studies. J Clin Psychiatry 64(12):1483–1494, 2003

Lee S, Tsang A, Kessler RC, et al: Rapid-cycling bipolar disorder: cross-national community study. Br J Psychiatry 196(3):217–225, 2010

Case 3.3Suicidal Preoccupation

Maria A. Oquendo, M.D.

Olivia Jacobs, a 22-year-old graduate student in architecture, was referred for an urgent psychiatric consultation after she told her roommate that she was suicidal. Ms. Jacobs had a history of mood symptoms that had been under good control with lithium and sertraline, but her depressive symptoms had returned soon after she had arrived in a new city for school, 3 months earlier. She had become preoccupied with ways in which she might kill herself without inconveniencing others. Her dominant suicidal thoughts involved shooting herself in the head while leaning out the window, so as not to cause a mess in the dorm. Although she did not have access to a gun, she spent time searching the Web for places where she might purchase one.

Ms. Jacobs's psychiatric history began at age 15, when she began to regularly drink alcohol and smoke marijuana, usually when out at dance clubs with friends. Both of these substances calmed her, and she denied that either had become problematic. She had used neither alcohol nor marijuana since starting graduate school.

Around age 17, she began experiencing brief, intense depressive episodes, marked by tearfulness, feelings of guilt, anhedonia, hopelessness, low energy, and poor concentration. She would sleep more than 12 hours a day and neglect responsibilities at school and home.

These depressive episodes would generally shift after a few weeks into periods of increased energy, pressured speech, and unusual creativity. She would stay up most of the night working on projects and building architectural models. These revved-up episodes lasted about 5 days and were punctuated by feelings that her friends had turned against her and that they were not really friends at all. Worried especially about the paranoia, her family had brought her to a psychiatrist, who diagnosed her as having bipolar II disorder and prescribed lithium and sertraline. Although Ms. Jacobs's moods did not completely stabilize on this regimen, she did well enough at a local

university to be accepted into a prestigious graduate program far from home. At that point the depression returned, and she became intensely suicidal for the first time.

Upon evaluation, the patient was visibly depressed and tearful, and had psychomotor slowing. She said it was very difficult to get out of bed and she was not attending class most days. She reported hopelessness, poor concentration, and guilt about spending family money for school when she was not able to perform. She stated that she thought about suicide most of the time and that she had found nothing to distract her. She denied recent drinking or smoking marijuana, stating she did not feel like "partying." She acknowledged profound feelings of emptiness, and indicated that she had occasionally cut her arms superficially to "see what it would feel like." She stated that she knew that cutting herself in this way would not kill her. She reported depersonalization and occasional panic attacks. She denied having mood instability, derealization, problems with impulsivity, concerns about her identity, and fears of abandonment.

Diagnoses

- Bipolar II disorder, current episode depressed; high level of concern about suicide
- Unspecified anxiety disorder

Discussion

Ms. Jacobs presents with a current depression marked by depressed mood, anhedonia, sleep problems, anergia, psychomotor retardation, excessive guilt, and recurrent thoughts about suicide. These symptoms cause significant distress and impairment and appear to have persisted for 3 months, well beyond the 2 weeks required for a DSM-5 diagnosis of major depression.

In addition to the depressive symptoms, she has been treated for bipolar II disorder, which features symptoms of major depression and hypomania. According to her history, she has had multiple 5-day periods of increased energy, pressured speech, increased creativity and productivity, and diminished need for sleep. These conform to the definition of hypomania. In addition to those symptoms, however, the patient has transiently believed that her friends had turned against her and that they were not really friends at all. If these paranoid symptoms are considered psychotic, then she warrants a diagnosis of bipolar I disorder. In this case, the paranoia appears closer to being an overvalued idea than a frank delusion, but careful assessment of the patient's ability to reality-test would be important.

Ms. Jacobs's illness began when she was in her late teens. The average age at onset of bipolar disorder is about age 25, and symptoms typically start between ages 15 and 30 years. Early age at onset suggests a more severe form of illness, and although Ms. Jacobs has often been very functional, she has already had multiple episodes of both depression and hypomania by age 22.

Ms. Jacobs also has a history of alcohol and marijuana use, which she identified as having a "calming effect." The extent of her substance use is not known; however, half of those who meet criteria for bipolar disorder also have a comorbid alcohol and/or substance use disorder. Both of these substances can be a problem by themselves, of course, but either one might have also helped trigger some of her initial mood symptoms. She has not, however, used either of them during the 3 months of her most recent depression, and for her mood disorder to be considered "substance induced," her mood symptoms should not persist beyond 1 month after stopping both the alcohol and marijuana. In other words, regardless of the role of substances in initiating symptoms, Ms. Jacobs's bipolar II disorder has taken on a life of its own.

Anxiety disorders are also commonly comorbid with bipolar disorder. Ms. Jacobs described a "calming effect" from marijuana and alcohol, which is perhaps an indicator of unrecognized anxiety. She later experienced episodes of depersonalization and panic attacks, which she found extremely distressing. Pending further information, she would likely warrant a diagnosis of unspecified anxiety disorder.

Borderline personality disorder is also frequently comorbid with early-onset bipolar disorder, especially type II. In Ms. Jacobs's case, the presence of depersonalization, feelings of emptiness, substance use, nonsuicidal self-injury, and preoccupation with suicidal thoughts could be considered symptoms of borderline personality disorder. At the same time, however, she denied problems with impulsivity (other than substance abuse), mood instability when not in episode, derealization, concerns about her identity, and fears of abandonment. Although the possibility of a personality disorder cannot be entirely dismissed, Ms. Jacobs does not currently meet criteria for borderline personality disorders.

Ms. Jacobs's suicidal ideation is worrisome. Bipolar disorder is associated with the highest suicide rates among all psychiatric conditions, accounting for 25% of all completed suicides. Roughly one-third of people with bipolar disorder report at least one suicide attempt, 8%–20% of bipolar patients complete suicide, and the lethality of attempts may be even higher in bipolar II than in bipolar I. It is difficult to predict which patients will act on their suicidal thoughts, although associations have been found with early age at onset, first episodes that are depressive, a family history of suicidal acts, and aggressive and impulsive behaviors. Given this patient's diagnosis and suicidal ideation, her current level of suicidal risk appears to be high.

Suggested Readings

Chaudhury SR, Grunebaum MF, Galfalvy HC, et al: Does first episode polarity predict risk for suicide attempt in bipolar disorder? J Affect Disord 104(1-3):245-250, 2007

Chen YW, Dilsaver SC: Lifetime rates of suicide attempts among subjects with bipolar and unipolar disorders relative to subjects with other Axis I disorders. Biol Psychiatry 39(10):896–899, 1996

Oquendo MA, Currier D, Liu SM, et al: Increased risk for suicidal behavior in comorbid bipolar disorder and alcohol use disorders: results from the National Epidemiologic Survey on Alcohol and Related Conditions (NESARC). J Clin Psychiatry 71(7):902–909, 2010

Case 3.4Episodic Depressions

Victoria E. Cosgrove, M.D., Trisha Suppes, M.D., Ph.D.

Pamela Kramer was a 43-year-old married librarian who presented to an outpatient mental health clinic with a long history of episodic depressions. Most recently, she described depressed mood during the month since she began a new job. She said she was preoccupied with concerns that her new boss and colleagues thought her work was inadequate and slow and that she was unfriendly. She had no energy and enthusiasm at home, either, and instead of playing with her children or talking to her husband, she tended to watch television for hours, overeat, and sleep excessively. This had led to a 6-pound weight gain in just 3 weeks, which made her feel even worse about herself. She had begun to cry several times a week, which she reported as the sign that she "knew the depression had returned." She had also begun to think often of death but had never attempted suicide.

Ms. Kramer said her memory about her history of depressions was a little fuzzy, so she brought in her husband, who had known her since college. They agreed that she had first become depressed in her teens and that she had experienced at least five discrete periods of depression as an adult. These episodes generally included depressed mood, anergia, amotivation, hypersomnia, hyperphagia, deep feelings of guilt, decreased libido, and mild to moderate suicidal ideation without plan. Her depressions were also punctuated by periods of "too much" energy, irritability, pressured speech, and flight of ideas. These episodes of excess energy could last hours, days, or a couple of weeks. The depressed mood would not lift during these periods, but she would "at least be able to do a few things."

When specifically asked, Ms. Kramer's husband described distinctive times when Ms. Kramer seemed unusually excited, happy, and self-confident, and like a "different person." She would talk fast, seem energized and optimistic, do the daily chores very efficiently, and start (and often finish) new projects. She would need little sleep and still be enthusiastic the next day. Ms. Kramer recalled these periods but said they felt "normal." In response to a question about hypersexuality, Ms. Kramer smiled for the only time during the interview, saying that although her husband seemed to be including her good periods as part of her illness, he had not been complaining when she had her longest such episode (about 6 days) when they first started dating in college. Since then, she reported that these episodes were "fairly frequent" and lasted 2 or 3 days.

Because of her periodic low mood and thoughts of death, she had seen various psychiatrists since her mid-teenage years. Psychotherapy tended to work "okay" until she had another depressive episode, when she would be unable to attend sessions and would then just quit. Three antidepressant trials of adequate dosage and duration (6 months to 3 years) were each associated with short-term relief of depression, followed by relapse. Both alone and in the presence of her husband, Ms. Kramer denied a history of alcohol and substance abuse. A maternal aunt and

maternal grandfather had been recurrently hospitalized for mania, although Ms. Kramer was quick to point out that she was "not at all like them."

On examination, Ms. Kramer was a well-groomed, overweight woman who often averted her eyes and tended to speak very softly. No abnormal motor movements were noted, but her movements were constrained, and she did not use hand gestures. Her mood was depressed. Her affect was sad and constricted. Her thought processes were fluid, though possibly slowed. Her thought content was notable for depressive content, including passive suicidal ideation without evidence of paranoia, hallucinations, or delusions. Her insight and judgment were intact.

Diagnosis

Bipolar II disorder, current episode depressed, of moderate severity

Discussion

Ms. Kramer's recurrent symptoms of depression have caused significant suffering as well as functional impairment. They are also the recurrent impetus for her to seek psychiatric treatment. It is, therefore, tempting to focus only on the depressive symptoms and arrive at a diagnosis of recurrent major depressive disorder.

It is generally useful to search broadly for diagnoses, however, and this is especially true in patients whose symptom course or specific symptoms are atypical or whose treatment response has been inadequate. Ms. Kramer reports an aunt and a grandfather who were hospitalized with episodes of bipolar mania. Although family history is not part of DSM-5 criteria, a strong family history of bipolar disorder should prompt a careful investigation into diagnoses that fall into the bipolar spectrum. When specifically asked, Ms. Kramer and her husband report that her depressions are punctuated by episodes of irritability, pressured speech, and flight of ideas. In addition, they describe recurrent, multiday episodes that are not related to depression and in which she is noticeably different from her baseline: she sleeps less, functions more effectively, and seems uncharacteristically happy, excited, pressured, and optimistic.

Ms. Kramer insists that her periods of pressured activity are not like those of her aunt and grandfather, and her symptoms do not, in fact, appear to reach the intensity and duration that are characteristic of bipolar mania. Instead, Ms. Kramer's energized periods are best described by the term *hypomania*.

Both DSM-5 mania and hypomania require at least three of seven associated symptoms, but there are important differences. One difference is the effect of the symptoms: mania requires significant accompanying distress or dysfunction, whereas hypomania requires only that the symptoms be distinctly noticeable to an observer. The duration requirements are also different. Mania requires a week's persistence of symptoms, whereas hypomania requires 4 days. If an individual meets criteria for mania at any time, bipolar I disorder would be the primary mood-related diagnosis. If the criteria for hypomania have been met at any time without a lifetime history of mania, then diagnosis hinges on whether the individual has a history of a major depression. If so, the individual would warrant a DSM-5 bipolar II disorder diagnosis. This is in contrast to bipolar I disorder, in which the depression history should be explored but is not integral to the DSM-5 diagnosis. As described in the introduction to this chapter, the so-called bipolar spectrum also includes categories for people who do not quite meet the criteria for number or duration of symptoms or whose symptoms developed in the context of a medical illness or the use of medications or substances of abuse.

Because individuals rarely ask psychiatrists to evaluate their "uncharacteristic energy and enthusiasm," the bipolar II diagnosis often hinges on a careful historical review. In Ms. Kramer's case, she described times of needing less sleep and becoming unusually talkative, pressured, and productive; these would meet the symptomatic criteria for hypomania. In regard to the duration of symptoms, most of Ms. Kramer's hypomanic episodes last only 2–3 days, which would not meet criteria for bipolar II disorder. She did, however, have one early episode lasting 6 days. Once a hypomanic episode has occurred in a patient with a history of at least one past depressive episode, bipolar II disorder becomes the diagnosis, even if future hypomanic episodes are below the 4-day threshold for a hypomanic episode.

As seen in Ms. Kramer, hypomanic symptoms often intrude into depression in patients with bipolar II disorder. In other words, hypomania is not always associated with a "good" or "elevated" mood. It can be useful to ask, for example, about "energized depression."

Bipolar II disorder is not simply an attenuated version of bipolar I disorder. Most people with bipolar II disorder have comorbidities that range throughout DSM-5 and include eating disorders, personality disorders, and anxiety disorders. Suicide is an important risk and should be explicitly investigated. Ms. Kramer's recurrent, debilitating episodes are typical. Furthermore, the diagnosis is often missed. As seen in Ms. Kramer's situation, the hypomanic

periods may not be troublesome and are often a welcome change from the depression. Nevertheless, accurate diagnosis is important for optimizing a treatment that is necessary to mitigate the pain and suffering that often accompanies bipolar II disorder.

Suggested Readings

Nusslock R, Frank E: Subthreshold bipolarity: diagnostic issues and challenges. Bipolar Disord 13(7–8):587–603, 2011

Simon NM, Otto MW, Wisniewski SR, et al: Anxiety disorder comorbidity in bipolar disorder patients: data from the first 500 participants in the Systematic Treatment Enhancement Program for Bipolar Disorder (STEP-BD). Am J Psychiatry 161(12):2222–2229, 2004

Suppes T, Mintz J, McElroy SL, et al: Mixed hypomania in 908 patients with bipolar disorder evaluated prospectively in the Stanley Bipolar Treatment Network: a sex-specific phenomenon. Arch Gen Psychiatry 62(10):1089–1096, 2005

Wozniak J, Faraone SV, Martelon M, et al: Further evidence for robust familiality of pediatric bipolar I disorder: results from a very large controlled family study of pediatric bipolar I disorder and a meta-analysis. J Clin Psychiatry 73(10):1328–1334, 2012

Case 3.5Irritability and Sadness

Robert L. Findling, M.D., M.B.A.

Rachel, a 15-year-old girl, was referred for a psychiatric evaluation because of worsening difficulties at home and at school over the prior year. The mother said her chief concern was that "Rachel's meds aren't working." Rachel said she had no particular complaints.

In meetings with the patient and her mother, both together and separately, both reported that Rachel's grades had dropped from As and Bs to Cs and Ds, that she had lost many of her long-standing friends, and that conflicts at home had escalated to the point that her mother characterized her as "nasty and mean."

Rachel first saw a psychiatrist at age 7 when she was evaluated for attention-deficit/hyperactivity disorder (ADHD) because of restlessness, impulsivity, and distractibility. After behavioral interventions were ineffective, the patient began treatment with a methylphenidate-based medication at age 8. Improvement was seen at school, in her social life, and at home. For the ensuing 6 years, Rachel had done well and was "pretty much like other kids as long as she took her medicine."

At around age 14, however, Rachel became "moody." Instead of being a "bubbly teenager," she would spend days by herself and hardly speak to anyone. During these periods of persistent sadness, she would sleep more than usual, complain that her friends didn't like her anymore, and not seem interested in anything. At other times, she would be a "holy terror" at home, frequently yelling at her sister and parents to the point that everyone was "walking on eggshells." At about that time, Rachel's grades plummeted, and her pediatrician increased the dosage of her ADHD medication.

Rachel's family history was pertinent for a father who "had real problems." Although her mother did not know his diagnosis, he had been treated with lithium. The father had left the family before Rachel was born, and the two had never met.

In exploring the periods of irritability, dysphoria, and social isolation, the clinician asked whether there had been times in which Rachel was in an especially good mood. The mother recalled multiple periods in which her daughter would be "giddy" for a week or two. She would laugh at "anything" and would enthusiastically help out with and even initiate household chores. Because these were the "good phases," the mother did not think these episodes were noteworthy.

Rachel had no medical problems. She denied use of alcohol, illicit substances, and medications other than the prescribed ADHD medication.

On examination while alone, Rachel was a casually groomed teenager who was coherent and goal directed. She appeared wary and sad, with some affective constriction. She did not like how she had been feeling, saying she felt depressed for a week, then okay, then "hilarious" for a few days, then "murderous," like someone was "churning up my insides." She did not know why she felt like that, and she hated not knowing how she would be feeling the next day. She denied psychotic symptoms, confusion, and suicidal and homicidal thoughts. She was cognitively intact.

Diagnosis

• Cyclothymic disorder

Discussion

Rachel presents with at least 1 year's history of diminished functioning at school, at home, and with friends. She appears to have several different moods, each of which seems to last at least 1 week. These include being irritable, withdrawn, and giddy, all of which seem to be significantly different from her baseline. The mother thinks these "might be a stage," but the persistence, recurrence, and intensity of these moods have begun to have repercussions in Rachel's life, and so the mother has become concerned.

In trying to formulate a diagnosis for Rachel, we notice that much of the case report appears to be filtered through the perspective of the mother. Although helpful, such a story is liable to emphasize behavior, because that is what is most readily observable to parents and teachers. When evaluating adolescents, it is important to explore their own perspective on their mood states. Furthermore, it is useful to differentiate between mood swings that are reactive to an external event and mood episodes that tend to be spontaneous and episodic. In Rachel's case, the interview supplied some important information. For example, she clarified that she did not like these mood fluctuations and denied particular precipitants.

A complication of Rachel's history is the presence of relatively nonspecific symptoms. Irritability, dysphoria, and emotional lability are part of multiple psychiatric conditions, particularly during adolescence, when many major psychiatric disorders tend to begin. In addition, it is important to differentiate those mood states that are developmentally expected from ones that are not. Nevertheless, from what is known of Rachel's history, a mood disorder is the most likely diagnosis.

Rachel's most striking clinical feature is the fluctuation between different emotional states. She describes a week or two of hypomania followed by a week or two of sadness followed by a couple of weeks of irritability. These symptoms seem to fit DSM-5 cyclothymic disorder, which requires multiple hypomanic episodes and multiple subsyndromal depressive episodes over a 2-year period (1 year for adolescents like Rachel). To meet the criteria, she should have had symptoms for at least half that time and should have had no more than a 2-month stretch without symptoms. Furthermore, she should not ever have reached criteria for mania, major depression, or a schizophrenia spectrum disorder. Although cyclothymic disorder can be seen as a disorder that does not match the intensity of bipolar I disorder, it can cause significant distress and dysfunction and dramatically affect the trajectory of adolescence.

Although the potential differential diagnosis for Rachel is broad, several other diagnoses deserve specific mention. Further exploration could lead to a bipolar diagnosis. Her father appears to have had a bipolar disorder (he had "real problems" and took lithium), and even if Rachel is cyclothymic, she is at risk for developing a frank bipolar disorder in the future.

As more of an alliance is developed with Rachel, it might be possible to more fully evaluate her for personality issues. For example, cyclothymia is often comorbid with borderline personality disorder. Sleep is not mentioned in the case report, but sleep-wake difficulties can fuel affective instability. Perhaps most likely in a 15-year-old girl is the possibility of substance abuse, because many drugs of abuse can induce mood symptoms via intoxication or withdrawal. Rachel might reveal substance abuse with time, but it might also be useful to get a toxicology screen that can be legitimately framed to Rachel as part of the routine evaluation. Even if the screen is positive only for her ADHD medication, her symptoms should lead to a consideration that she is taking excess amounts on some days and taking none on other days.

Suggested Readings

Akiskal HS, Downs J, Jordan P, et al: Affective disorders in referred children and younger siblings of manicdepressives: mode of onset and prospective course. Arch Gen Psychiatry 42(10):996–1003, 1985 Findling RL, Youngstrom EA, McNamara NK, et al: Early symptoms of mania and the role of parental risk. Bipolar Disord 7(6):623–634, 2005

Van Meter A, Youngstrom EA, Youngstrom JK, et al: Examining the validity of cyclothymic disorder in a youth sample. J Affect Disord 132(1–2):55–63, 2011

Van Meter A, Youngstrom EA, Demeter C, Findling RL: Examining the validity of cyclothymic disorder in a youth sample: replication and extension. J Abnorm Child Psychol 41(3):367–378, 2012

Van Meter AR, Youngstrom EA, Findling RL: Cyclothymic disorder: a critical review. Clin Psychol Rev 32(4):229–243, 2012

Case 3.6God Has Cured Me!

Stephen J. Ferrando, M.D.

Sebastian Lopez, a 27-year-old Hispanic freelance editor, was brought to his long-time HIV clinic by his worried partner. As the patient entered the clinic waiting room, he announced, "God has cured me! I can stop my antivirals!"

While Mr. Lopez fidgeted on a chair, furiously writing on a yellow pad, his partner provided the recent history. He said that the patient had been doing well until approximately 1 month earlier. At that point, he began an unusually intense editing project. After about 10 days of little sleep, Mr. Lopez seemed edgy, a little pressured, and "glassy-eyed." That night, the two of them went to a party to celebrate the completion of the work project. Despite several years of Narcotics Anonymous meetings and abstinence from illicit substances, Mr. Lopez took a stimulant, crystal methamphetamine. Acutely anxious and paranoid that they were being followed, Mr. Lopez drank three martinis but still did not sleep that night. Over the ensuing days the patient became less paranoid, but he appeared increasingly distracted and his speech was more pressured.

Mr. Lopez's work project was returned with multiple negative comments and requests for corrections. Instead of focusing on his editing, however, he stayed up late every night, intent on finding a cure for HIV. He made inappropriate, hypersexual advances toward other men at the gym, where he spent much of the day. He lost at least 5 pounds after deciding he should take vitamin supplements instead of food and his antiretroviral medication. He refused to go to the emergency room but finally agreed to come to his routine AIDS clinic appointment to show his doctors how well he had done despite not having taken his medications in over a month.

Mr. Lopez's psychiatric history was without a prior episode of clear-cut mania, but he had been depressed as a teenager during the early phase of his coming-out process. That episode was punctuated by a purposeful overdose and a 2-week psychiatric hospitalization and treatment with antidepressant medication and psychotherapy. He discontinued the medication because it made him "hyper and edgy," and he stopped the psychotherapy because "it was pointless." He used methamphetamine frequently for several years, which led to recurrent unprotected intercourse with strangers.

Mr. Lopez was diagnosed with HIV at age 22, at which point he went to an outpatient substance abuse rehabilitation center and discontinued his use of stimulants and alcohol. His lowest CD4 lymphocyte count had been 216 cells/mm³, when he was age 24, at which time his viral load was 1.6 million copies. He had been reportedly adherent to his antiretroviral medications since then. His most recent CD4 count, 6 months prior to this episode, had been 526 cells/mm³. His viral load had been undetectable. He had suffered fatigue but had not had any AIDS-defining illnesses. A magnetic resonance imaging (MRI) scan of the brain revealed mild cortical atrophy and periventricular white matter disease in excess of what would be expected for his age. The partner was unsure when Mr. Lopez had discontinued his antiretrovirals but thought it might have been months earlier. He also wondered if Mr. Lopez had "lost a step" cognitively over the past year.

The patient's family psychiatric history was significant for a maternal aunt who had received lithium and several courses of electroconvulsive therapy, but her diagnosis was unknown.

On examination, the patient was a sloppily dressed young man who told a pressured, disjointed story of events over the prior month. He was difficult to direct and was uncharacteristically irritable and devaluing. He was

preoccupied with having discovered a cure for HIV through multivitamins and exercise. He denied hallucinations and suicidal and homicidal ideation. He refused cognitive testing, and his insight and judgment appeared poor.

Diagnosis

Bipolar and related disorder due to HIV infection, with manic features

Discussion

Mr. Lopez presents with many classic manic symptoms. He has had a distinct period of elevated, irritable mood with increased goal-directed activity. These symptoms have been present every day, for all or almost all of the day, for several weeks. He demonstrates grandiosity, decreased need for sleep, pressure to keep talking, increased goal-directed activity, and impulsive hypersexuality. These behaviors easily meet the requirement of three of seven symptomatic criteria for a DSM-5 manic episode.

The diagnosis of bipolar mania also requires an assessment of etiology, with a particular focus on possible physiological effects of medications or a medical condition. This evaluation is complicated in regard to Mr. Lopez.

In addition to a classic manic syndrome, Mr. Lopez has a personal history of depression, and during a course of antidepressant medication, he became "hyper and edgy." That response to medication suggests a manic or hypomanic response and an elevated risk for bipolar disorder. In addition, his aunt's use of lithium implies a likely family history of bipolar disorder. Absent other comorbidities, this presentation would suggest the diagnosis of bipolar disorder, manic, single episode.

However, this case is complicated by two significant comorbidities: the use of crystal methamphetamine and HIV infection. Amphetamines can induce paranoid psychosis and manic mood symptoms in the setting of both acute and chronic use. In this case, Mr. Lopez's symptoms appear to have begun before he apparently used the stimulant (he was edgy, pressured, and glassy-eyed), and they persisted for weeks after his only reported use of the crystal methamphetamine. He has a multiple-year history of crystal methamphetamine abuse without reported mania, which might point away from the amphetamine being the primary contributor to this episode. Furthermore, stimulant-induced mania typically resolves within 1–2 days, which would better fit Mr. Lopez's acute paranoid reaction to the crystal methamphetamine. On the other hand, Mr. Lopez may have been hiding his use of crystal methamphetamine for weeks or months, or he may have used amphetamines to help him complete his recent editing project. Either stimulant would have contributed to sleep deprivation, which is both a precipitant and a symptom of mania.

HIV infection is also associated with bipolar disorder. Manic symptoms can occur at any stage of infection, but they are most closely associated with relatively late-stage HIV-associated neurocognitive disorder. Symptoms may be identical to a classic mania, but the neurocognitive disorder seems to contribute to unusually prominent irritability and cognitive slowing. It is difficult to assess a noncompliant patient for cognitive decline, especially when he or she is manic, but Mr. Lopez has been said to have "lost a step" over the prior year, is irritable, and has an MRI scan that features the sort of nonspecific findings often found in patients with HIV infection and immune suppression. It appears that Mr. Lopez has been nonadherent to his antiretroviral medication for at least 1 month, possibly longer, and he has not had recent assessment of his T cells or viral load.

Tentatively, then, Mr. Lopez warrants a DSM-5 diagnosis of bipolar and related disorder due to HIV infection, with manic features. A toxicology screen might help clarify whether Mr. Lopez has continued to use amphetamines, whereas a T-cell count and viral load assessment can help determine the degree of immune suppression. After psychiatric stabilization and a resumption of antiretroviral medications, it would be useful to obtain a neuropsychological assessment to clarify the degree of neurocognitive impairment.

Suggested Readings

Ferrando SJ, Loftus T: Mood disorders, delirium and other neurobehavioral symptoms and disorders in the HAART era, in The Spectrum of Neuro-AIDS Disorders: Pathophysiology, Diagnosis and Treatment. Edited by Goodkin K, Shepshak P, Verma A. Washington, DC, American Society for Microbiology Press, 2009, pp 393–410

Ferrando SJ, Lyketsos CG: HIV-associated neurocognitive disorders, in Comprehensive Textbook of AIDS Psychiatry. Edited by Cohen MA, Gorman JM. New York, Oxford University Press, 2008, pp 109–120

Ferrando SJ, Nims C: HIV-associated mania treated with electroconvulsive therapy and highly-active antiretroviral therapy. Psychosomatics 47(2):170–174, 2006

Case 3.7Bizarrely Silent

Jessica Daniels, M.D.

Taaj Mustafa, a 22-year-old recent college graduate, was brought to the emergency room (ER) by his friends after he appeared bizarrely silent after disappearing for 3 days. Mr. Mustafa's friends reported that he had recently undergone treatment for testicular cancer, but that he had been in a good mood when they had last seen him 4 nights earlier. He had not shown up for a planned get-together the following day and had then not responded to emails, texts, or phone calls. They had not known how to contact his parents or relatives and had no other history.

In the ER, Mr. Mustafa related to others in an odd manner, standing stiffly and not making eye contact or answering questions. After about 10 minutes, he suddenly grabbed a staff member by the arm. While he seemed to lack a purpose or intent to harm, he refused to let go, and the staff member was unable to extricate herself until a security guard intervened. At that point, he received intramuscular haloperidol and lorazepam. During the ensuing hour, his extremities became rigid, and while lying on a hospital bed, he held his arms above his head, with his elbows bent. He was admitted to the medical service. A head computed tomography (CT) scan, routine laboratory tests, and urine toxicology were noncontributory, except that his creatine kinase (CK) was elevated at 906 IU/L. He was tachycardic at 110 beats per minute. He had no fever, and his blood pressure was within the normal range.

On examination, Mr. Mustafa was found to be a thin young man lying in bed, with his head held awkwardly off the pillow. He was stiffly raising his arms up and down. His hair was falling out in tufts. He stared straight ahead with infrequent blinks, making no eye contact. He was not diaphoretic and did not appear to be in pain. Physical examination revealed an initial resistance against any movement of his arms. When either arm was moved into a position by the examiner, it remained in that position. No myoclonus was evident. Speaking with a long latency and significantly decreased production, he expressed fear that he was dying. As he slowly expressed his anxiety, his body remained stiff and rigid. He denied auditory or visual hallucinations. He was fully awake and alert and was oriented to time and place but did not participate in other cognitive tests.

Mr. Mustafa was clinically unchanged for 3 days while he received intravenous fluids. No psychoactive medication was given. Laboratory tests, an electroencephalogram (EEG), and magnetic resonance imaging (MRI) of the brain were unrevealing, and his CK trended downward after peaking at 1,100 IU/L. On the fourth hospital day, Mr. Mustafa was given a test dose of intravenous lorazepam 1 mg and then a repeat dose of 1 mg after 5 minutes. He did not become sedated. His mental status did not change, except that his speech was slightly more productive after the second dose. Intravenous lorazepam 1 mg every 4–6 hours was started. After 24 hours, his rigidity had resolved, his speech was fluent and pressured, and he became very active and agitated. He paced the hallways, followed the nurses around, and tried to leave the hospital. He told staff, other patients, and visitors that he was a great artist and that he had cured his cancer. His CPK normalized and tachycardia resolved. He remained afebrile.

Mr. Mustafa's parents arrived from out of town on the sixth hospital day. They reported that his only previous psychiatric history had been a depression that developed when he was diagnosed with testicular cancer 1 year earlier. Mr. Mustafa had been taking sertraline 50 mg/day and was doing well until 10 days prior to admission, when he learned that he had a recurrence of testicular cancer with metastasis to the retroperitoneum. He immediately underwent chemotherapy with cisplatin, etoposide, and dexamethasone. After receiving the chemotherapy, Mr. Mustafa had told his parents over the phone that he felt "excellent" but had then not returned their phone calls or e-mails. This was not entirely unusual behavior for their son, who was "a sketchy correspondent," but they had become increasingly worried and finally flew across the country when they had not heard from him in 10 days. The parents also mentioned that the only pertinent family history was a maternal uncle with severe bipolar disorder, which had been treated with electroconvulsive therapy.

Diagnosis

 Steroid-induced bipolar and related disorder, with mania, severe, with mood-congruent psychotic features and catatonic features

Discussion

Mr. Mustafa presents with grossly disorganized and abnormal behavior. He maintains a rigid, bizarre posture with waxy flexibility. He lacks appropriate verbal and motor responses (mutism and stupor), maintains a rigid and fixed posture (catalepsy), and exhibits repetitive or ritualistic movements (stereotypy). Mr. Mustafa's symptoms easily meet the three of 12 psychomotor features required for a DSM-5 diagnosis of catatonia.

Catatonia has historically been linked to schizophrenia, and one-third of people with schizophrenia have an episode of catatonic symptoms at some point during their lives. It has become clear, however, that most patients with catatonia have depressive or bipolar disorder. Still other patients have catatonic symptoms as part of a medical disorder (e.g., hepatic encephalitis), a reaction to a medication (neuroleptic malignant syndrome [NMS]), or a reaction to an illicit substance (e.g., cocaine). The breadth of potential etiology is an important reason that DSM-5 generally uses the term *catatonia* as a modifying specifier rather than as the name of a specific type of disorder. After catatonia is identified and the patient is stabilized, the next clinical focus is diagnosing the underlying cause. This search is urgent, because many of the causes of catatonia are medically dangerous. In addition, catatonia itself can cause severe morbidity and mortality due to dehydration, immobility, and self-harm. Furthermore, regardless of etiology, catatonia can progress to malignant catatonia, which is marked by fever, autonomic instability, and high fatality rates.

Mr. Mustafa's normal neurological and physical examinations, head CT scan, brain MRI scan, and EEG appeared to rule out many of the acute neurological events that can mimic catatonia, such as a stroke (and akinetic mutism), central nervous system malignancy, and locked-in syndrome. Mr. Mustafa remained afebrile, which made it unlikely that his symptoms were caused by infectious encephalitis. A urine drug screen ruled out acute cocaine and phencyclidine intoxication. Other medical causes of catatonia were evaluated and ruled out through noncontributory assessments of thyroid, glucose, HIV, complete blood count, vitamin B₁₂, liver function, lupus antibodies, and a complete metabolic panel. Given his cancer history, a paraneoplastic panel was considered, but he recovered before a lumbar puncture was performed.

NMS is a serious concern. Described in the DSM-5 chapter "Medication-Induced Movement Disorders and Other Adverse Effects of Medication," NMS is a psychiatric emergency characterized by muscle rigidity, fever, autonomic instability, cognitive changes, and an elevated CPK. Mr. Mustafa became "stiff" after receiving haloperidol in the ER, was confused, and had an elevated CPK. Mr. Mustafa was never febrile, however, and his vital signs remained stable except for mild tachycardia, which resolved with lorazepam treatment. His elevated CPK likely reflected recent agitation and rigidity and did not reach the greatly elevated range associated with NMS. Whereas NMS is associated with the use of antipsychotic medication, serotonin syndrome is associated with selective serotonin reuptake inhibitor (SSRI) antidepressant medications. Although Mr. Mustafa is taking sertraline and could have taken an overdose, he lacks the typical myoclonus and gastrointestinal symptoms.

With no obvious medical and neurological abnormalities, a psychiatric condition appears the most likely cause of the catatonia. While barely able to speak, Mr. Mustafa did say he was scared and worried that he was dying or dead. Extreme anxiety is the most common affective experience of catatonic patients, to the point that catatonia is sometimes viewed as an extreme "freeze" response. This affective experience does not point toward the underlying psychiatric condition, however, and, given the typical patient's inability to communicate, correct diagnosis is often delayed until the catatonia resolves.

Diagnosis and treatment often occur simultaneously with the use of low-dose intravenous lorazepam. Unlike most other patients, people with catatonia often appear more alert and engaged after administration of benzodiazepines. Mr. Mustafa's mutism and stupor seem to have shown subtle improvement immediately but then improved significantly after 24 hours. As his catatonia improved, his underlying mania became more evident. In addition, his parents provided invaluable collateral history that clarified that his manic episode was apparently triggered by a steroid-based chemotherapy regimen.

Suggested Readings

Daniels J: Catatonia: clinical aspects and neurobiological correlates. J Neuropsychiatry Clin Neurosci 21(4):371–380, 2009

Fink M: Rediscovering catatonia: the biography of a treatable syndrome. Acta Psychiatr Scand (441):1–47, 2013

Smith JH, Smith VD, Philbrick KL, Kumar N: Catatonic disorder due to a general medical or psychiatric condition. J Neuropsychiatry Clin Neurosci 24(2):198–207, 2012

Case 3.8A Postpartum Change

Ian Jones, M.R.C.Psych., Ph.D.

Ursula Norman, a 32-year-old nurse, was brought to an emergency department 6 days after giving birth. Her husband indicated that she had been behaving very strangely and that she had become convinced that she had smothered and killed her baby.

Her husband reported that after a normal pregnancy and uncomplicated delivery, Ms. Norman had happily gone home with their first child. On the third day after delivery, however, her mood and affect began to shift rapidly between elation and weepiness. She became irritable and anxious. She slept only an hour a night, even when her baby was asleep. Her behavior became increasingly bizarre, with overactivity and agitation. Her speech was rapid and digressive. Although not previously a religious person, she became convinced that God was speaking through her and that she had special powers that could solve the problems of the world. She told her husband that she could identify evil people by looking into their eyes and had begun to worry that she was surrounded by evil people, including her own mother. Most disturbing for her, whenever she was out of sight of her son, she became totally convinced that she had smothered him, and no one could convince her otherwise.

Ms. Norman had a history of three episodes of major depression in her teens and early 20s. These episodes resolved with psychotherapy and antidepressant medication. She also had a psychiatric admission for mania 3 years prior to the delivery of her child, after a flight from Asia to Europe. Following treatment with antipsychotic medication, she became depressed for several months. Although a diagnosis of bipolar disorder was discussed at this time, she was reluctant to accept this label, attributing the episode to stress and jet lag. She had discontinued the psychiatric medication in anticipation of getting pregnant.

Ms. Norman's own mother had been admitted to a psychiatric hospital shortly after the birth of her first child. This episode was not talked about in the family, and there were few other details. She had no other family history of note.

Until just before delivery of her child, Ms. Norman had been a highly functional nurse in a renal unit. Her husband was the head of a sales team, and they lived in comfortable social circumstances. She had no history of illicit drug use and, prior to pregnancy, drank only 2 or 3 units of alcohol a week.

On mental status examination, Ms. Norman wandered around the room, seemingly unable to sit for more than a few moments. She was distractible and overtalkative, and demonstrated flight of ideas, flitting from one subject to another. Her mood was labile. At times she appeared happily euphoric. At other times she was tearful, and she could become quickly irritable when she felt she was not being understood. It was clear that she had a number of delusional beliefs but was unwilling to discuss most of them with the examiner. She did insist that she had already killed her own child, which led to several minutes of tears, but she returned to an edgy euphoria within a few minutes. She denied intent to harm herself or anyone else. She appeared inattentive, with poor concentration, but would not participate in formal cognitive testing.

Physical examination and laboratory testing results were all within normal limits.

Diagnosis

• Bipolar I disorder, current episode manic, severe, with psychotic features, with peripartum onset

Discussion

Ms. Norman presents with flight of ideas, pressured speech, distractibility, agitation, lability, greatly diminished sleep, uncharacteristic hyperreligiosity, delusions about her friends and family, and the fixed, false belief that she has already killed her child. She has a history of multiple major depressive episodes and of one psychiatric hospitalization for mania. These qualify her for a DSM-5 diagnosis of bipolar I disorder, severe, with psychotic features.

Ms. Norman is also clearly experiencing an episode of what has traditionally been called postpartum psychosis—the abrupt onset of an affective psychosis in the early postpartum period. A number of features of her presentation are typical of postpartum psychosis. The onset is typically early in the postpartum period, generally in the first

postpartum week. Episodes of postpartum psychosis commonly show a rapid onset and may deteriorate quickly to a florid and severe psychosis. As in her case, episodes often manifest a "kaleidoscopic" presentation, with delusional thoughts, for example, changing frequently rather than becoming fixed and systematized. Because of these characteristics, postpartum psychosis is a true psychiatric emergency and admission is usually required. A comprehensive risk assessment is essential, both for suicidal ideation and for risk of harm to the baby.

Pregnancy leads to a severe postpartum episode in 1 in 1,000 pregnancies, but some women are at considerably higher risk. For example, women with bipolar disorder suffer severe postpartum episodes in approximately 1 in 4 deliveries. In women with a history of postpartum psychosis, the risk in subsequent pregnancies is greater than 1 in 2.

Women who are at high risk of a severe postpartum episode should be identified during the antenatal period. With her history of bipolar disorder and a probable family history of postpartum psychosis, Ms. Norman was at very high risk, despite having been well for several years. Given this history, she should have been under close monitoring throughout the pregnancy and postpartum period. After she recovers, it will become important to discuss plans with regard to future pregnancies with both her and her partner. Her case also illustrates that severe postpartum episodes can have a sudden onset in women who have been very well in pregnancy and who have no particular psychosocial predisposing factors.

Ms. Norman clearly has both an episode and a lifetime diagnosis of bipolar disorder. In many cases, however, particularly those in which postpartum psychosis is the first episode, the diagnosis can be more uncertain. An early onset of a severe postpartum episode, even in the absence of a prior psychiatric history, should raise suspicion of a bipolar diagnosis.

The specific diagnosis of postpartum psychosis is not an option in DSM-5, but as with postpartum depression, the term has remained in common usage by clinicians, women themselves, and user groups (e.g., Action on Postpartum Psychosis: www.app-network.org). Instead, DSM-5 suggests use of a descriptive specifier, "with peripartum onset."

There are a number of reasons why flagging the perinatal context of episodes is important. First, the new baby is an important consideration and may affect management decisions (e.g., hospitalization). Second, a severe postpartum episode has important implications for future pregnancies. Third, the close relationship of severe postpartum episodes to bipolar disorder should prompt careful assessments for a history of a bipolar disorder as well as inform future clinical psychiatric treatment.

Suggested Readings

Di Florio A, Forty L, Gordon-Smith K, et al: Perinatal episodes across the mood disorder spectrum. JAMA Psychiatry 70(2):168–175, 2013

Jones I, Heron J, Blackmore ER, et al: Puerperal psychosis, in Oxford Textbook of Women and Mental Health. Edited by Kohen D. Oxford, UK, Oxford University Press, 2010, pp 179–186

Munk-Olsen T, Laursen T, Pedersen CB, et al: New parents and mental disorders: a population-based register study. JAMA 296(21):2582–2589, 2006

Munk-Olsen T, Laursen TM, Meltzer-Brody S, et al: Psychiatric disorders with postpartum onset: possible early manifestations of bipolar affective disorders. Arch Gen Psychiatry 69(4):428–434, 2012

Case 3.9Anxiety

Holly A. Swartz, M.D.

Victoria Owens, a 58-year-old event planner, scheduled an appointment with a psychiatrist for help with anxiety. Ms. Owens arrived at the appointment well dressed and a little agitated. Speaking at a normal pace, she explained that her depressive symptoms had begun 2 years earlier in the setting of initiating divorce proceedings from her fourth husband. She described poor mood, incapacitating worry about her future, and poor concentration. These symptoms progressed to anhedonia, decreased energy, hypersomnia with interrupted sleep, passive suicidal ideation, and increased appetite with carbohydrate craving. She stopped going to work as an event planner and began spending most of the day in bed.

Ms. Owens initially sought treatment from a homeopath, who prescribed a variety of remedies that were not helpful. She eventually saw her internist, who prescribed alprazolam 0.25 mg three times a day as needed. This medication reduced her worry but had little effect on her mood. Her internist then prescribed sertraline 50 mg/day, titrating it up to 200 mg/day. Over the ensuing 2 months, Ms. Owens's sleep improved and she no longer experienced suicidal thoughts. However, she became more anxious, irritable, agitated, and energized and noted that her thoughts moved rapidly. She denied impulsivity and psychotic symptoms.

Ms. Owens had a long-standing history of similar depressive episodes. The first such episode occurred during college, lasted for several months, and was untreated.

When specifically asked, she described multiple periods in her life when she had moderately elevated mood, rapid thoughts, and increased energy. It seemed that many important life accomplishments occurred during these periods. For instance, as a young, recently divorced unemployed single mother, she agreed to throw a bridal shower for her best friend. She pored over bridal and craft magazines, determined to create a fabulous party on a shoestring budget. She became totally engrossed in the project, seeming to have abundant energy and ideas. The shower was a huge success and launched Ms. Owens's career as a party planner. She hid her mood swings from her clients and colleagues, leveraging her elevated mood states to project a high-energy "face," but then would retreat and avoid work when her mood became low. She also became more irritable during these high-energy episodes, and she believed that each of her marriages both began and ended because of her tendency to "get emotional" when she was in these elevated mood states. Although these periods could last for many weeks, she did not experience changes in sleep, engage in risky behaviors, speak quickly, or become grandiose, and she saw nothing problematic about them.

Ms. Owens also reported that she drank heavily when she was in her 40s but rarely did so now. She denied prior suicide attempts and psychiatric hospitalizations. Her mother had been treated for depression with sertraline, and her brother was treated with lithium for bipolar disorder.

Diagnosis

• Other specified bipolar and related disorder

Discussion

Ms. Owens has a history of recurrent depressive episodes accompanied by multiple high-energy, high-mood episodes that meet duration criteria (\geq 4 days) for hypomania but are not characterized by sufficient symptoms to meet full syndromal criteria for a hypomanic episode. She endorsed both elevated mood and energy during these episodes but only two of the seven Criterion B symptoms: racing thoughts and increased goal-directed activity. As is typical for individuals with subthreshold bipolar disorder, Ms. Owens experiences these episodes as ego-syntonic and does not report them spontaneously. Not surprisingly, subthreshold hypomanic episodes are easily missed unless the interviewer carefully probes for them.

Major depressive disorder would also be included in the differential diagnosis. Ms. Owens initially presented to her internist with classic symptoms of depression. Given her prior history of multiple depressive episodes and lack of spontaneous complaints about hypomania, her primary care physician likely assumed that Ms. Owens had major depressive disorder and treated her with an SSRI. The SSRI, however, precipitated a mixed state consisting of an irritable and anxious mood, rapid thoughts, and increased energy. When depressed patients such as Ms. Owens develop mixed, manic, or hypomanic symptoms following exposure to antidepressants, consideration should be given to a bipolar diagnosis. Ms. Owens's mixed state while taking an SSRI is not sufficient for a diagnosis of bipolar disorder but certainly raises a red flag. Her family history of bipolar disorder (in this case, a brother treated with lithium) further increases the likelihood that she has a form of bipolar disorder. Although the most common mood disorder among first-degree relatives of individuals with bipolar disorder is major depressive disorder, having a relative with bipolar disorder does increase the person's risk of having bipolar disorder as well.

Despite features consistent with bipolar disorder, Ms. Owens's clinical picture is complicated. In addition to subthreshold hypomanic symptoms, she also reported a history of unstable relationships, emotional lability, prior substance abuse, and anxiety. Bipolar disorder and personality disorders—especially borderline personality disorder—often co-occur and may be difficult to tease apart because they have clinical features in common. For instance, both bipolar disorder and borderline personality disorder are characterized by increased levels of

impulsive behavior, affective lability, and irritability. In Ms. Owens's case, lability and irritability appear to be restricted to mood episodes, suggesting that they are secondary to a mood disorder rather than pervasive problems of affect regulation. However, comorbid mood disorder and personality disorder cannot be ruled out.

Up to one-third of patients with bipolar disorder are diagnosed with comorbid anxiety disorders, which are, in turn, associated with worse psychiatric outcomes. Bipolar disorder is often misdiagnosed as an anxiety disorder, perhaps because of the high rates of comorbidity. Similarly, substance use disorders and bipolar disorders often co-occur. Further exploration is needed to determine the presence of comorbidities, and there is a high probability that Ms. Owens suffers from more than one psychiatric disorder.

Suggested Readings

Deltito J, Martin L, Riefkohl J, et al: Do patients with borderline personality disorder belong to the bipolar spectrum? J Affect Disord 67(1-3):221-228, 2001

Ghaemi SN, Ko JY, Goodwin FK: "Cade's disease" and beyond: misdiagnosis, antidepressant use, and a proposed definition for bipolar spectrum disorder. Can J Psychiatry 47(2):125–134, 2002

Merikangas KR, Jin R, He JP, et al: Prevalence and correlates of bipolar spectrum disorder in the World Mental Health Survey Initiative. Arch Gen Psychiatry 68(3):241–251, 2011

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Chapter 4. Depressive Disorders

Introduction

John W. Barnhill, M.D.

Depression is one of the most commonly used words in psychiatry, and it is also one of the most ambiguous. As a symptom it can mean sadness, but as a diagnosis it can be applied to people who deny feeling sad. Depressed mood is a common, normal human experience, but it can also reflect a seriously debilitating, distressing, and potentially fatal condition. Depression can present in multiple ways, with many potential comorbidities, precipitants, and reliably associated symptoms.

DSM-5 makes use of available evidence to fine-tune multiple diagnostic categories. For example, although bipolar disorder has historically been viewed as "manic depression," and therefore as a subset of depression, it has become increasingly clear that while bipolar and depressive disorders have similarities, they also have substantive differences in regard to clinical presentation, family history, longitudinal course, and treatment. For these reasons, bipolar disorder has been moved into its own chapter in DSM-5. The overlap persists, however, and the depressive and bipolar disorder chapters go into detail in an effort to distinguish the sometimes subtle differences between diagnoses.

Major depressive disorder remains the archetypal depression, and its diagnostic criteria are essentially unchanged in DSM-5. The diagnosis still hinges on the assessment of clinical presentation (five of nine symptoms), history (persistence greater than 2 weeks), and relevance (significant distress or impairment). To further subdivide this broad category, DSM-5 provides specifiers that distinguish the episode based on severity and recurrence as well as the presence of such factors as melancholia, psychotic features, and catatonia. A particularly useful change within DSM-5 is the delinkage of psychosis and severity, so the clinician can accurately describe people whose depressive symptoms are, say, moderate, but who have an associated psychosis.

The chapter on depressive disorders also includes several changes that have been the subject of significant scrutiny. The so-called bereavement exclusion has perhaps been the most discussed. It is widely understood that mourning the death of a loved one is a normal human reaction, and DSM-IV clarified that a 2-month period of bereavement was necessary before a major depression diagnosis could generally be made. Evidence indicates, however, that the vast majority of grieving people do not develop the symptoms of major depression. In other words, major depression that occurs in the context of bereavement is not a "normal" reaction. The suffering of major depression tends to include more intense feelings of guilt, worthlessness, and suicidality, for example, and the functional decline is more intense. Furthermore, individuals who develop major depressive symptoms soon after the death of a loved one have elevated rates of depression in their personal and family histories, tend to have a worse prognosis, and tend to respond to antidepressant medications. In other words, individuals who develop all the characteristics of a major depression following the death of a loved one are similar to people who develop major depression following any other serious stress and deserve the same level of clinical attention.

Just as grief is a normal reaction to loss, temper tantrums are a normal part of childhood. There are, however, children whose low frustration tolerance and behavioral dyscontrol transcend those of normal human experience; their affective dysregulation not only is distressing to their parents, teachers, and classmates, but also is upsetting to the affected children and threatens to derail their normal development. A second change in DSM-5 is that these children are categorized as having disruptive mood dysregulation disorder (DMDD). Controversies about DMDD fall into two camps. In the first, there is concern that DSM-5 might pathologize normal childhood experience. In the second, there is a view that such behavior is more accurately described within the bipolar spectrum of disorders. Evidence indicates, however, that DMDD does describe a cluster of prepubescent children who are significantly distressed and dysfunctional and who are at risk for a lifetime of difficulty. Furthermore, it appears that DMDD is not simply a childhood form of bipolar disorder. In fact, DMDD is much more likely to convert in adulthood to a depressive or anxiety disorder than to a bipolar disorder.

A third change is the shift of premenstrual dysphoric disorder (PMDD) from the appendix into the main text of DSM-5. Just as DMDD does not refer to average expectable "temper tantrums," PMDD does not describe the transient, mild symptoms that are commonly described as "premenstrual syndrome." Instead, PMDD describes a robust cluster of symptoms that cause persistent, significant debility and distress.

Concerns have been raised that these three changes can lead to the pathologizing of normal human experience and, secondarily, to the excess use of psychiatric medication. The field of psychiatry should indeed recognize both the limitations of current evidence and the external forces that might try to influence the field for their own reward. At the same time, evidence does indicate that these three diagnoses reflect three clusters of people who are suffering and significantly dysfunctional. It is also true that people meeting these criteria are already seeking psychiatric help, and that the development of rigorous diagnostic criteria allows for replicable research into effective biopsychosocial interventions.

Suggested Readings

Keller MB, Coryell WH, Endicott J, et al (eds): Clinical Guide to Depression and Bipolar Disorder: Findings From the Collaborative Depression Study. Washington, DC, American Psychiatric Publishing, 2013

Kramer P: Against Depression. New York, Penguin, 2006

Maj M: Clinical judgment and the DSM-5 diagnosis of major depression. World Psychiatry 12(2):89–91, 2013. Available at: *http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3683250*. Accessed August 29, 2013.

Case 4.1Moody and Irritable

William C. Wood, M.D.

Wyatt was a 12-year-old-boy referred by his psychiatrist to an adolescent partial hospitalization program because of repeated conflicts that have frightened both classmates and family members.

According to his parents, Wyatt was generally moody and irritable, with frequent episodes of being "a raging monster." It had become almost impossible to set limits. Most recently, Wyatt had smashed a closet door to gain access to a video game that had been withheld to encourage him to do homework. At school, Wyatt was noted to have a hair-trigger temper, and he had recently been suspended for punching another boy in the face after losing a chess match.

Wyatt had been an extremely active young boy, running "all the time." He was also a "sensitive kid" who constantly worried that things might go wrong. His tolerance for frustration had been less than that of his peers, and his parents quit taking him shopping because he would predictably become distraught whenever they did not buy him whatever toys he wanted.

Grade school reports indicated fidgetiness, wandering attention, and impulsivity. When Wyatt was 10 years old, a child psychiatrist diagnosed him as having attention-deficit/hyperactivity disorder (ADHD), combined type. Wyatt was referred to a behavioral therapist and started taking methylphenidate, with an improvement in symptoms. By fourth grade, his moodiness became more pronounced and persistent. He was generally surly, complaining that life was "unfair." Wyatt and his parents began their daily limit-setting battles at breakfast while he delayed getting ready for school, and then—by evening—continued their arguments about homework, video games, and bedtime. These arguments often included Wyatt screaming and throwing nearby objects. By the time he reached sixth grade, his parents were tired and his siblings avoided him.

According to Wyatt's parents, he had no problems with appetite, and although they fought about when he would go to bed, he did not appear to have a sleep disturbance. He appeared to find pleasure in his usual activities, maintained good energy, and had no history of elation, grandiosity, or decreased need for sleep lasting more than a day. Although they described him as "moody, isolated, and lonely," his parents did not see him as depressed. They denied any history of hallucinations, abuse, trauma, suicidality, homicidality, a wish to self-harm, or any premeditated wish to harm others. He and his parents denied he had ever used alcohol or drugs. His medical history was unremarkable. His family history was notable for anxiety and depression in the father, alcoholism in the paternal grandparents, and possible untreated ADHD in the mother.

On interview, Wyatt was mildly anxious yet easy to engage. His body twisted back and forth as he sat in the chair. In reviewing his temper outbursts and physical aggression, Wyatt said, "It's like I can't help myself. I don't mean to do these things. But when I get mad, I don't think about any of that. It's like my mind goes blank." When asked how he felt about his outbursts, Wyatt looked very sad and said earnestly, "I hate when I'm that way." If he could change three things in his life, Wyatt replied, "I would have more friends, I would do better in school, and I would stop getting mad so much."

Diagnoses

- Disruptive mood dysregulation disorder
- Attention-deficit/hyperactivity disorder, combined presentation

Discussion

Wyatt's psychiatrist has referred him to an adolescent partial hospitalization program because of persistent irritability and severe recurrent temper outbursts.

In assessing this 12-year-old boy, it would be important to attend to the quality, severity, frequency, and duration of the outbursts. Are they outside the range of "developmentally normal" children? What are the provocations? Do the outbursts occur at home, at school, with peers, or in more than one setting? How are they affecting his life? What is this boy's general mood between the outbursts? Do the outbursts reflect a lack of control over his emotional reactions, or are they a behavior calculated to achieve an intended outcome? At what age did these emotional and/or behavioral outbursts begin? Are there corresponding neurovegetative depressive symptoms? Has he ever exhibited manic-like symptoms such as grandiosity, decreased need for sleep, pressured speech, or racing thoughts? If so, have these symptoms persisted long enough to meet criteria for a manic episode? Does he abuse substances? Has he ever experienced psychotic symptoms such as paranoia, delusions, or hallucinations of any kind?

In Wyatt's case, his intense irritability appears to be persistent, while his outbursts tend to be extreme and incongruent with his overall developmental level. They are clearly interfering with all aspects of his life. He does not appear to be in control of his behavior, and his irritability and outbursts are not bringing him anything positive; in fact, the three things he says he would most like to change are specifically related to either the symptom ("stop getting mad so much") or the consequences of his symptoms ("have more friends" and "do better in school"). These symptoms have been worsening since grade school. He lacks prominent neurovegetative symptoms of depression, and there is no history of mania, psychosis, or substance abuse. Therefore, he meets criteria for disruptive mood dysregulation disorder (DMDD), a new diagnosis in DSM-5 that is listed among the depressive disorders.

The core feature of DMDD is chronic, severe, persistent irritability that is incongruent with a child's developmental stage and is causing significant impairment. DSM-5 defines this core feature as having two prominent clinical manifestations: frequent severe temper outbursts (verbal or behavioral) and chronic, persistently irritable or angry mood that is present between the severe temper outbursts.

Although some of the symptoms of DMDD can overlap with those of other diagnoses, DMDD does appear to represent a cluster of young people whose symptom profiles differ from those of other DSM-5 diagnoses and transcend age-congruent "temper tantrums." For example, bipolar disorder can also lead to interpersonal conflicts and irritability. However, children and adolescents with DMDD do not exhibit other core symptoms of mania, such as decreased need for sleep, pressured speech, mood cycling, and racing thoughts that persist for several days at a time. Disruptive behavior disorders such as oppositional defiant disorder, intermittent explosive disorder, and conduct disorder from DMDD in that they are not marked by intense irritability that persists between outbursts.

By DSM-5 definition, DMDD cannot coexist with bipolar disorder or with either oppositional defiant disorder or intermittent explosive disorder. If the patient has ever had a manic episode, a diagnosis of bipolar disorder supersedes a DMDD diagnosis. If the patient meets criteria for intermittent explosive disorder or oppositional defiant disorder but also meets criteria for DMDD, the patient should only be diagnosed with DMDD.

DMDD can be comorbid with a variety of other diagnoses. For example, Wyatt presents with long-standing problems with attention and anxiety. When in grade school, he was diagnosed with ADHD, combined type, which indicates that he met most criteria in both ADHD categories: attention and hyperactivity/impulsivity. Wyatt is also noted to be a chronic worrier. Although this was not explored at length in the history, he may well qualify for an anxiety disorder.

It will be important to follow Wyatt longitudinally. The goal, of course, is to employ the most parsimonious diagnostic assessment and treatment plan, but these can change in the context of Wyatt's overall development. As

an adolescent with a diagnosis of DMDD, he will continue to be at risk for a variety of comorbid psychiatric conditions, including other mood, anxiety, and substance use disorders.

Suggested Readings

Axelson D, Findling RL, Fristad MA, et al: Examining the proposed disruptive mood dysregulation disorder diagnosis in children in the Longitudinal Assessment of Manic Symptoms study. J Clin Psychiatry 73(10):1342–1350, 2012

Copeland WE, Angold A, Costello EJ, Egger H: Prevalence, comorbidity, and correlates of DSM-5 proposed disruptive mood dysregulation disorder. Am J Psychiatry 170(2):173–179, 2013

Leibenluft E: Severe mood dysregulation, irritability, and the diagnostic boundaries of bipolar disorder in youths. Am J Psychiatry 168(2):129–142, 2011

Margulies DM, Weintraub S, Basile J, et al: Will disruptive mood dysregulation disorder reduce false diagnosis of bipolar disorder in children? Bipolar Disord 14(5):488–496, 2012

Mikita N, Stringaris A: Mood dysregulation. Eur Child Adolesc Psychiatry 22 (suppl 1):S11-16, 2013

Wozniak J, Biederman J, Kiely K, et al: Mania-like symptoms suggestive of childhood-onset bipolar disorder in clinically referred children. J Am Acad Child Adolesc Psychiatry 34(7):867–876, 1995

Case 4.2Postpartum Sadness

Kimberly A. Yonkers, M.D., Heather B. Howell, M.S.W.

Yvonne Perez was a 23-year-old woman who presented for an outpatient psychiatric evaluation 2 weeks after giving birth to her second child. She was referred by her breast-feeding nurse, who was concerned about the patient's depressed mood, flat affect, and fatigue.

Ms. Perez said she had been worried and unenthusiastic since finding out she was pregnant. She and her husband had planned to wait a few years before having another child, and her husband had made it clear that he would have preferred that she terminate the pregnancy, an option she would not consider because of her religion. He had also been upset that she was "too tired" to do paid work outside of the home during her pregnancy. She had then become increasingly dysphoric, hopeless, and overwhelmed after the delivery. Breast-feeding was not going well, and she had begun to believe her baby was "rejecting me" by refusing her breast, spitting up her milk, and crying. Her baby had become very colicky, so she felt forced to hold him most of the day. She wondered whether she deserved this difficulty because she had not wanted the pregnancy.

Her husband was gone much of the time for work, and she found it very difficult to take care of the new baby and her lively and demanding 16-month-old daughter. She slept little, felt constantly tired, cried often, and worried about how she was going to get through the day. Her mother-in-law had just arrived to help her care for the children.

Ms. Perez was an English-speaking Hispanic woman who had worked in a coffee shop until midway through her first pregnancy, almost 2 years earlier. She had been raised in a supportive home by her parents and a large extended family. She had moved to a different region of the country when her husband had been transferred for work, and she had no relatives nearby. Although no one in her family had seen a psychiatrist, several family members appeared to have been depressed. She had no prior psychiatric history or treatment. She denied illicit drug or alcohol use. She had smoked for several years but stopped when she was pregnant with her first child. Ms. Perez had a history of asthma. Aside from a multivitamin with iron, she took no medications.

On mental status examination, Ms. Perez was a casually dressed, cooperative young woman. She made some eye contact, but her eyes tended to drop to the floor when she spoke. Her speech was fluent but slow, with increased latency when answering questions. The tone of her speech was flat. She endorsed low mood, and her affect was constricted. She denied thoughts of suicide and homicide. She also denied any hallucinations and delusions, although she had considered whether the current situation was punishment for not wanting the child. She was fully

oriented and could register three objects but only recalled one after 5 minutes. Her intelligence was average. Her insight and judgment were fair to good.

Diagnosis

Major depressive disorder, single episode, moderate severity, without psychotic features, with peripartum onset

Discussion

Ms. Perez presents with low mood, poor energy and sleep, psychomotor retardation, guilt, and poor concentration. The case report does not address her appetite, her ability to find pleasure, or the presence of thoughts about death, but she clearly has more than the required five of nine symptoms to meet criteria for a DSM-5 diagnosis of major depression. Contributors include the recent delivery, a family history of depression, and multiple psychosocial stressors, including a lack of support from her husband, financial troubles, a colicky baby, a rambunctious toddler, and geographic distance from her family of origin.

The case report is not clear, but it appears that Ms. Perez had significant depressive symptoms throughout the pregnancy and that she was referred to a psychiatrist at this particular time not because she was dramatically more depressed but because she was seen by a health professional, the breast-feeding nurse. If Ms. Perez became depressed only after delivery, she may not have had symptoms for the 2 weeks that are required for a major depression. In that case, adjustment disorder with depressed mood might be a more appropriate diagnosis. A postpartum onset might also increase her risk of having bipolar disorder rather than unipolar depressive disorder. Arguing against a diagnosis of bipolar disorder in this patient is the lack of any known manic or psychotic symptoms as well as the absence of a history of mood episodes or a family history of bipolar disorder. Still, the fact that she experienced precipitous worsening after delivery would increase the risk that she might develop bipolar disorder.

If Ms. Perez had low mood throughout the pregnancy and a brief worsening after delivery, then her symptoms might be viewed as a minor depressive disorder (in DSM-5, diagnosed as other specified depressive disorder) rather than major depressive disorder.

From the available history, it appears more likely that Ms. Perez had significant depressive symptoms throughout the pregnancy. She said she felt "worried and unenthusiastic" and had felt "too tired" to work. This would not be an unusual depression trajectory, because half of women who are found to be depressed after delivery were already depressed during pregnancy. DSM-5 now includes a specifier, "with peripartum onset," for women who develop a mood disorder during or soon after a pregnancy. Ms. Perez also worries that her infant is rejecting her and that her current situation is a punishment. These appear to be overvalued ideas rather than delusions, but it would be reasonable to do ongoing assessments for psychotic thinking.

It is also important to do a suicide risk assessment for everyone with symptoms of a major depression. Ms. Perez denies such symptoms, but it would be potentially useful to explore any thoughts she might have of death, of her family being better off without her, and of her children being better off dead.

The depressive subtype is important to clarify because many women with postpartum subsyndromal depressive symptoms improve spontaneously within weeks of delivery. This can occur even in the absence of formal treatment. For this reason, and because many women wish to continue breast-feeding, an initial treatment approach may be psychotherapeutic rather than pharmacological.

Suggested Readings

Munk-Olsen T, Laursen TM, Meltzer-Brody S, et al: Psychiatric disorders with postpartum onset: possible early manifestations of bipolar affective disorders. Arch Gen Psychiatry 69(4):428–434, 2012

O'Hara MW, Swain AM: Rates and risk of postpartum depression: a meta-analysis. Int Rev Psychiatry 8:37–54, 1996

Yonkers KA, Ramin SM, Rush AJ, et al: Onset and persistence of postpartum depression in an inner-city maternal health clinic system. Am J Psychiatry 158(11):1856–1863, 2001

Yonkers KA, Wisner KL, Stewart DE, et al: The management of depression during pregnancy: a report from the American Psychiatric Association and the American College of Obstetricians and Gynecologists. Gen Hosp Psychiatry 31(5):403–413, 2009

Case 4.3Grief and Depression

Richard A. Friedman, M.D.

Andrew Quinn, a 60-year-old businessman, returned to see his longtime psychiatrist 2 weeks after the death of his 24-year-old son. The young man, who had struggled with major depression and substance abuse, had been found surrounded by several emptied pill bottles and an incoherent suicide note.

Mr. Quinn had been very close to his troubled son, and he immediately felt crushed, like his life had lost its meaning. In the ensuing 2 weeks, he had constant images of his son and was "obsessed" with how he might have prevented the substance abuse and suicide. He worried that he had been a bad father and that he had spent too much time on his own career and too little time with his son. He felt constantly sad, withdrew from his usual social life, and was unable to concentrate on his work. Although he had never previously drunk more than a few glasses of wine per week, he increased his alcohol intake to half a bottle of wine each night. At that time, his psychiatrist told him that he was struggling with grief and that such a reaction was normal. They agreed to meet for support and to assess the ongoing clinical situation.

Mr. Quinn returned to see his psychiatrist weekly. By the sixth week after the suicide, his symptoms had worsened. Instead of thinking about what he might have done differently, he became preoccupied that he should have been the one to die, not his young son. He continued to have trouble falling asleep, but he also tended to awake at 4:30 A.M. and just stare at the ceiling, feeling overwhelmed with fatigue, sadness, and feelings of worthlessness. These symptoms improved during the day, but he also felt a persistent and uncharacteristic loss of self-confidence, sexual interest, and enthusiasm. He asked his psychiatrist whether he still had normal grief or had a major depression.

Mr. Quinn had a history of two prior major depressive episodes that improved with psychotherapy and antidepressant medication, but no significant depressive episodes since his 30s. He denied a history of alcohol or substance abuse. Both of his parents had been "depressive" but without treatment. No one in the family had previously committed suicide.

Diagnosis

Major depressive disorder

Discussion

In the weeks after his son's suicide, Mr. Quinn developed sadness, insomnia, social withdrawal, diminished pleasure in activities, and poor concentration. This symptom cluster is typical of grief, recognized by both the lay public and medical professionals as a normal human reaction to the death of a loved one.

At the first meeting with the psychiatrist, Mr. Quinn demonstrated multiple symptoms that are typically found in a major depression, but his symptoms at that point appeared to be better conceptualized as normal bereavement. Such a view is supported by the fact that grief—despite causing distress and dysfunction—typically runs its course within 2–6 months without specific clinical attention.

DSM-IV acknowledged the normalcy of grief by mandating that a diagnosis of major depressive disorder (MDD) be deferred for 2 months unless the clinical presentation was characterized by unusually severe symptoms such as suicidal ideation or psychosis. Also, DSM-IV included a bereavement exclusion for a good reason: although uncomplicated grief can be painful, it is short-lived and benign, and does not severely impair function or increase the risk of suicide as does major depression.

Some people, however, do develop an autonomous mood disorder after the death of a loved one, as well as after other traumas, such as financial ruin, losses from a natural disaster, or a serious medical illness or disability. Severely distressing and causing serious impairment, such mood syndromes warrant clinical attention prior to reaching DSM-IV's 2-month cutoff, during which time most depressive symptoms are attributable to bereavement.

Because of the significant symptomatic overlap between bereavement and major depression, the difficulty in predicting which symptoms will persist or intensify and which will improve on their own, and the uncertainty over what is psychologically different between the loss of a loved one and, for example, the loss of a home due to a

natural disaster, there has been significant attention paid to fine-tuning the differences between MDD and bereavement.

This redefinition of the bereavement exclusion was one of the most controversial of all the proposed changes in DSM-5. Not only does it involve a universal human experience—grief—but it raises a core concern about psychiatry, both from within and outside the field: what is normal? Various DSM-5 drafts were debated, and many people (including myself) worried that removal of the bereavement exclusion would medicalize normal grief and erroneously label healthy people with a psychiatric diagnosis.

As ultimately published, DSM-5 makes fairly modest changes, but the controversies embedded in the bereavement exclusion are relevant to this case.

In assessing depressive symptoms in the context of grief, DSM-5 suggests that Mr. Quinn's psychiatrist use her clinical judgment in differentiating between the emptiness and loss that are typical of grief and the persistently depressed mood, anhedonia, and pessimistic ruminations that are more typical of MDD. In grief, the dysphoria should gradually attenuate over weeks, though interrupted perhaps by pangs of grief that tend to focus on the deceased. The depressive symptoms of MDD are less exclusively connected to the deceased, less likely to be interrupted by positive emotions and humor, and more likely to be accompanied by self-criticism and feelings of worthlessness.

When Mr. Quinn was seen 2 weeks after the suicide, his psychiatrist rightly viewed his reaction as within the bounds of a normal grief reaction. At the same time, Mr. Quinn had risk factors for MDD that are often not present in people who are grieving. He has a personal history of two prior major depressive episodes, his family history is positive for depression in both parents, and his son may also have been depressed. All of these factors increase Mr. Quinn's likelihood of developing MDD in the context of the death of his son.

While deferring a diagnosis of MDD, the psychiatrist continued to meet weekly with Mr. Quinn. After about 6 weeks, his symptoms had worsened, both in terms of intensity and the development of cognitive and neurovegetative symptoms, making the diagnosis of major depression clear. The DSM-IV 2-month bereavement exclusion might have encouraged Mr. Quinn's psychiatrist to delay a diagnosis of MDD for another several weeks, until the 2-month mark had been reached. DSM-5, by contrast, does not specifically limit the use of an MDD diagnosis during the time frame between 2 weeks and 2 months. For Mr. Quinn, this shift likely means that he would more quickly receive a diagnosis of MDD under DSM-5.

Experts in favor of the removal of the 2-month bereavement exclusion might be reassured by Mr. Quinn's clinical assessment. With worsening symptoms and a strong personal and family history of depression, Mr. Quinn probably warrants specific clinical attention. Such concern is understandable, particularly because 10%–20% of bereaved individuals go on to experience a syndrome of complicated grief, characterized by an intense longing for and disturbing preoccupation with the deceased and a sense of anger and disbelief over the death. Furthermore, only half of individuals with major depression in the general population and 33% of depressed patients in the primary care setting receive any treatment for depression.

For most grieving people, however, their depressive symptoms do not indicate a major depression. For example, a study using data from the National Epidemiologic Survey on Alcohol and Related Conditions showed that subjects who had a bereavement-related depressive syndrome at baseline were no more likely over a 3-year follow-up period to have a major depressive episode than were those who had no lifetime history of major depression at baseline. These data confirm the widely held view that for most people, grief resolves on its own.

DSM-5 acknowledges this reality and urges clinicians to use their judgment when trying to distinguish between clinical depression and grief. It remains to be seen whether this lowering of the barrier to a major depressive diagnosis will help in identifying patients who warrant clinical attention—or encourage the medicalizing of grief. In the meantime, clinicians should continue to recognize that although grief can sometimes trigger major depression, grief itself is an entirely normal emotional response to loss that requires no treatment.

Suggested Readings

Friedman RA: Grief, depression and the DSM-5. N Engl J Med 366(20):1855-1857, 2012

Kessler RC, Berglund P, Demler O, et al: The epidemiology of major depressive disorder: results from the National Comorbidity Survey Replication (NCS-R). JAMA 289(23):3095–3105, 2003

Mojtabai R: Bereavement-related depressive episodes: characteristics, 3-year course, and implications for the DSM-5. Arch Gen Psychiatry 68(9):920–928, 2011

Shear K, Frank E, Houck PR, Reynolds CF 3rd: Treatment of complicated grief: a randomized controlled trial. JAMA 293(21):2601–2608, 2005

Case 4.4Lost Interest in Life

Anthony J. Rothschild, M.D.

Barbara Reiss was a 51-year-old white woman who was brought to the emergency room by her husband with the chief complaint "I feel like killing myself."

Ms. Reiss had begun to "lose interest in life" about 4 months earlier. During that time, she reported depression every day for most of the day. Symptoms had been worsening for months. She had lost 9 pounds (current weight = 105 pounds) without dieting because she did not feel like eating. She had trouble falling asleep almost every night and woke at 3:00 A.M. several mornings per week (she normally woke at 6:30 A.M.). She had diminished energy, concentration, and ability to do her administrative job at a dog food processing plant. She was convinced that she had made a mistake that would lead to the deaths of thousands of dogs. She expected that she would soon be arrested, and would rather kill herself than go to prison.

Her primary care physician had recognized the patient's depressed mood 1 week earlier and had prescribed sertraline and referred her for a psychiatric evaluation.

Ms. Reiss denied previous psychiatric history. One sister suffered from depression. Ms. Reiss denied any history of hypomania or mania. She typically drank a glass of wine with dinner and had started drinking a second glass before bed in hopes of getting a night's sleep. She had been married to her husband for 20 years, and they had three school-age children. She had been employed with her current company for 13 years. She denied illicit drug use.

The physical examination performed by the primary care physician 1 week earlier was noncontributory. All laboratory testing was normal, including complete blood count, electrolytes, blood urea nitrogen, creatinine, calcium, glucose, thyroid function tests, folate, and vitamin B_{12} .

On mental status examination, Ms. Reiss was cooperative and exhibited psychomotor agitation. She answered most questions with short answers, often simply saying "yes" or "no." Speech was of a normal rate and tone, without tangentiality or circumstantiality. She denied having hallucinations or unusual thoughts. She described the mistakes she believed she had made at work and insisted that she would soon be arrested for the deaths of dogs, but she insisted this was all true and not "a delusion." Recent and remote memory were grossly intact.

Diagnosis

• Major depressive disorder, single episode, moderate, with psychotic features

Discussion

The core criteria for the diagnosis of an episode of major depressive disorder (MDD) and the requisite duration of at least 2 weeks have not changed from DSM-IV to DSM-5. Ms. Reiss has exhibited all nine of the symptomatic criteria for major depression: depressed mood, loss of interest or pleasure, weight loss, insomnia, psychomotor agitation, loss of energy, excessive guilt, trouble concentrating, and thoughts of death. Only five are necessary for a major depression diagnosis.

Before a depression diagnosis is made, a medical cause should be ruled out. A recent medical examination was noncontributory, and there is no indication that Ms. Reiss even has a medical comorbidity, much less one that could cause a depression. It is also important to explore the possibility of bipolar disorder. The case report makes no mention of such symptoms as pressured speech or risk taking, but manic symptoms can sometimes be missed, and a bipolar disorder diagnosis would significantly affect treatment. The patient reports two nightly glasses of wine, which is unlikely to be contributory. If she is significantly underestimating her alcohol intake, however, she would be at risk for alcohol-induced depressive disorder. Multiple medications and substances of abuse can also cause serious depression and psychosis. Collateral history might be helpful, as would a toxicology screen.

Ms. Reiss also exhibits psychotic symptoms (delusions) in the context of MDD. New to DSM-5 is the separation of psychotic features from the major depression severity rating. In other words, MDD with psychotic features is not inevitably considered "severe." Ms. Reiss's psychotic symptoms would be classified as mood congruent because the content of her delusions is consistent with the typical depressive themes of inadequacy, guilt, disease, death, nihilism, and/or deserved punishment. Notably, in DSM-5, a hierarchy giving precedence to mood-incongruent features is being introduced to allow classification of cases in which mood-congruent and mood-incongruent psychoses coexist.

Psychotic features can often be missed in major depression. Although Ms. Reiss's delusions about killing dogs appear to have been spontaneously reported and are unlikely to be true, many patients are more guarded and do not easily give up such information. Furthermore, fixed, false beliefs that are not bizarre can sound reasonable to the clinician. One way to approach this issue with patients is to avoid use of words such as *psychosis* or *delusional* and instead ask about "irrational worries."

Suggested Readings

Maj M, Pirozzi R, Magliano L, et al: Phenomenology and prognostic significance of delusions in major depressive disorder: a 10-year prospective follow-up study. J Clin Psychiatry 68(9):1411–1417, 2007

Rothschild AJ (ed): Clinical Manual for the Diagnosis and Treatment of Psychotic Depression. Washington, DC, American Psychiatric Publishing, 2009

Rothschild AJ, Winer J, Flint AJ, et al: Missed diagnosis of psychotic depression at 4 academic medical centers. J Clin Psychiatry 69(8):1293–1296, 2008

Case 4.5Despair

Cheryl Munday, Ph.D., Jamie Miller Abelson, M.S.W., James Jackson, Ph.D.

Crystal Smith, a 33-year-old African American homemaker, came to an outpatient clinic seeking "someone to talk to" about feelings of despair that had intensified over the previous 8–10 months. She was particularly upset about marital conflict and an uncharacteristic mistrust of her in-laws.

Ms. Smith said she had begun to wake before dawn, feeling down and tearful. She had difficulty getting out of bed and completing her usual household activities. At times, she felt guilty for not being her "usual self." At other times, she became easily irritated with her husband and her in-laws for minor transgressions. She had previously relied on her mother-in-law to assist with the children, but she no longer entirely trusted her with that responsibility. That worry, in combination with her insomnia and fatigue, made it very difficult for Ms. Smith to get her children to school on time. In the past few months, she had lost 13 pounds without dieting. She denied current suicidal ideation, saying she "would never do something like that," but acknowledged having thought that she "should just give up" and that she "would be better off dead."

Two months previously, Ms. Smith had seen a psychiatrist for several weeks and received fluoxetine. She reluctantly gave it a try, discontinuing it quickly because it made her feel tired. She had also dropped out of therapy, indicating that the psychiatrist did not seem to understand her.

Ms. Smith lived with her husband of 13 years and two school-age children. Her husband's parents lived next door. She said her marriage was good, although her husband suggested she "go see someone" so that she would not be "yelling at everyone all the time." While historically sociable, she rarely talked to her own mother and sisters, much less her friends. A regular churchgoer, she had quit attending because she felt her faith was "weak." Her pastor had always been supportive, but she had not contacted him with her problems because "he wouldn't want to hear about these kinds of issues."

Ms. Smith described herself as having been an outgoing, friendly child. She grew up with her parents and three siblings. She recalled feeling quite upset at age 10–11 when her parents divorced and her mom remarried. Because of fights with other kids at school, she met with a school counselor with whom she felt a bond. Unlike the psychiatrist she had recently consulted, Ms. Smith felt the counselor did not "get into my business" and helped her recover. She said she became quieter as she entered junior high school, with fewer friends and little interest in

studying. She married her husband at age 20 and worked in retail sales until the birth of their first child when she was 23 years old.

Ms. Smith had not used alcohol since her first pregnancy and denied any use of illicit substances. She denied past and current use of prescribed medications, other than the brief trial of the antidepressant medication. She reported generally good health.

On mental status examination, Ms. Smith was a casually groomed young woman who was coherent and goal directed. She had difficulty making eye contact with the white middle-aged therapist. She was cooperative but mildly guarded and slow to respond. She needed encouragement to elaborate her thinking. She was periodically tearful and generally appeared sad. She denied psychosis, although she reported occasionally feeling mistrustful of her family. She denied confusion, hallucinations, suicidality, and homicidality. Cognition, insight, and judgment were all considered normal.

Diagnosis

• Major depressive disorder, moderate, with melancholic features

Discussion

Ms. Smith presents with 8–10 months of a persistently depressed mood, anhedonia, poor sleep, diminished appetite with weight loss, anergia, and thoughts of death. She easily meets the requirement of five of nine symptom criteria for a major depression. There is no evidence that the symptoms are caused by a substance or another medical condition. She is distressed and dysfunctional to an extent that warrants clinical attention. She therefore meets criteria for DSM-5 major depressive disorder (MDD). In addition, Ms. Smith has classic melancholic features: she reports loss of pleasure in almost all activities, describes a distinct quality of depressed mood (characterized by profound despondency or despair), is regularly worse in the morning, has had significant weight loss, and is feeling excessive guilt.

Ms. Smith's irritability is prominent. Irritability may be more readily endorsed than sadness, especially by African Americans, among whom psychiatric stigma is high. A complaint of irritability can be part of mania or hypomania, but Ms. Smith lacks other symptoms of mania.

An important depression specifier is whether the MDD is a single episode or recurrent. It is not clear whether Ms. Smith had a major depression after her parents' divorce when she was a child. To clarify, the clinician should explore further those long-ago symptoms. It is interesting that she was referred to a school counselor at that time because of irritability and fights with classmates.

Knowledge of her parents' divorce might have helped teachers recognize that she was in a depression, but it would not have been unusual for her to have been labeled "impulsive and disruptive" rather than a depressed young girl who needed help.

More information about the intervening course is also needed to determine whether Ms. Smith has had sufficiently persistent sad mood (2 years, more days than not) to consider an additional diagnosis of persistent depressive disorder (dysthymia). Persistent major depression is more common among blacks than whites, as is greater severity and disability, despite lower overall prevalence of major depression. Lower use of mental health services by African Americans and delays in seeking treatment may contribute to illness persistence, as may lower rates of antidepressant medication use. Ms. Smith discontinued fluoxetine because it made her tired, but it may have been that she was mistrustful of medication and her prior therapist.

Ms. Smith is wary of mental health professionals. She did not like her previous psychiatrist "getting into [her] business," and she did not make good eye contact with her most recent psychiatrist, who is described as white and middle-aged. Differences in racial, ethnic, and socioeconomic characteristics may affect treatment alliance and adherence, and Ms. Smith's outcome may depend partly on her therapist's ability to tactfully address the culturally based mistrust that is likely to affect Ms. Smith's treatment.

Suggested Readings

Alegría M, Chatterji P, Wells K, et al: Disparity in depression treatment among racial and ethnic minority populations in the United States. Psychiatr Serv 59(11):1264–1272, 2008

Cooper LA, Roter DL, Carson KA, et al: The associations of clinicians' implicit attitudes about race with medical visit communication and patient ratings of interpersonal care. Am J Public Health 102(5):979–987, 2012

Fava M, Hwang I, Rush AJ, et al: The importance of irritability as a symptom of major depressive disorder: results from the National Comorbidity Survey Replication. Mol Psychiatry 15(8):856–867, 2010

González HM, Croghan T, West B, et al: Antidepressant use in black and white populations in the United States. Psychiatr Serv 59(10):1131–1138, 2008

González HM, Vega WA, Williams DR, et al: Depression care in the United States: too little for too few. Arch Gen Psychiatry 67(1):37–46, 2010

Neighbors HW, Caldwell C, Williams DR, et al: Race, ethnicity, and the use of services for mental disorders: results from the National Survey of American Life. Arch Gen Psychiatry 64(4):485–494, 2007

Williams DR, González HM, Neighbors H, et al: Prevalence and distribution of major depressive disorder in African Americans, Caribbean blacks, and non-Hispanic whites: results from the National Survey of American Life. Arch Gen Psychiatry 64(3):305–315, 2007

Case 4.6Feeling Low for Years

Benjamin Brody, M.D.

Diane Taylor, a 35-year-old laboratory technician, was referred to the outpatient psychiatry department of an academic medical center by the employee assistance program (EAP) of her employer, a major pharmaceutical company. Her supervisor had referred Ms. Taylor to the EAP after she had become tearful while being mildly criticized during an otherwise positive annual performance review. Somewhat embarrassed, she told the consulting psychiatrist that she had been "feeling low for years" and that hearing criticism of her work had been "just too much."

A native of western Canada, Ms. Taylor came to the United States to pursue graduate studies in chemistry. She left graduate school before completing her doctorate and began work as a laboratory technician. She felt frustrated with her job, which she saw as a "dead end," yet feared that she lacked the talent to find more satisfying work. As a result, she struggled with guilty feelings that she "hadn't done much" with her life.

Despite her troubles at work, Ms. Taylor felt that she could concentrate without difficulty. She denied ever having active suicidal thoughts, yet sometimes wondered, "What is the point of life?" When asked, she reported that she occasionally had trouble falling asleep. However, she denied any change in her weight or appetite. Although she occasionally would go out with coworkers, she said that she felt shy and awkward in social situations unless she knew the people well. She did enjoy jogging and the outdoors. Although her romantic relationships tended to "not last long," she felt that her sex drive was normal. She noted that her symptoms waxed and waned but had remained consistent over the past 3 years. She had no symptoms suggestive of mania or hypomania.

Ms. Taylor was an only child. Growing up, she had a close relationship with her father, a pharmacist who owned a drugstore. She described him as a "normal guy who liked to hunt and fish" and liked to take her hiking. Her mother, a nurse, stopped working shortly after giving birth and had seemed emotionally distant and depressed.

Ms. Taylor became depressed for the first time in high school when her father was repeatedly hospitalized after developing leukemia. At that time she was treated with psychotherapy and responded well. She had no other psychiatric or medical history, and her medications were a multivitamin and oral contraceptives. When offered several different treatments, she expressed a preference for a combination of medication and psychotherapy. She started taking citalopram and began a course of supportive psychotherapy. After several months of treatment, she revealed that she had been sexually abused by a family friend during her childhood. It also emerged that she had few women friends and a persistent pattern of dysfunctional and occasionally abusive relationships with men.

Diagnosis

Persistent depressive disorder (dysthymia)

Discussion

It has long been recognized that depressive illnesses are not always episodic, and a significant minority of patients suffer from chronic forms of depression with varying degrees of severity. Early versions of DSM characterized mild, chronic depression as a personality disorder. In DSM-III, however, the milder form of chronic depression was introduced as an affective illness called dysthymic disorder. That move reflected a growing body of research suggesting that the condition can respond to antidepressant medication, but the move was controversial. Do these patients feel dysphoric *because* of their chronic social dysfunction, occupational difficulties, and morose cognitive styles? Alternatively, does their chronic underlying depression lead to an atrophy of their relationships and interpersonal skills and a selective attentional bias to negative life events?

When first conceptualized in DSM-III, dysthymia was described as being a less severe but more chronic variant of acute major depression. Evidence accumulated, however, that "pure" dysthymia (i.e., persistent mild depression without episodes of major depression) was uncommon. This led to the description of a spectrum of chronic depressions, of which dysthymia was the most mild. Slightly more severe was "double depression," or a major depressive episode superimposed on a baseline dysthymic state. The next most severe involved two or more major depressive episodes bridged by periods of incomplete improvement. Two years of symptoms severe enough to meet full criteria for MDD represented the most severe form. In practice, many patients found it difficult to recall their symptom fluctuations well enough to make these distinctions meaningful. DSM-5 now aggregates contemporary descriptions of these patterns as specifiers under the diagnosis persistent depressive disorder (dysthymia).

Does Ms. Taylor meet the criteria for this DSM-5 diagnosis? She has certainly had chronic symptoms. Despite significant occupational and interpersonal impairment, she endorses psychological but not neurovegetative symptoms of depression, which fall below the threshold for major depression. However, whether that has consistently been the case over the past 2 years is difficult to tell. It is possible, for example, that although Ms. Taylor denied difficulty concentrating at the time of evaluation, her employers may have felt otherwise at times in the past. The DSM-5 criteria allow for the possibility that although she may have slipped into major depression at times, the current diagnosis is still persistent depressive disorder (dysthymia).

The interplay of affective illness and personality also emerges from Ms. Taylor's story. She manifests personality traits (anxiousness, withdrawal, restricted affectivity, intimacy avoidance, and sensitivity to criticism) that shape how she sees the world and can perpetuate her depressive symptoms. Whether or not Ms. Taylor meets criteria for a comorbid avoidant personality disorder, these personality traits are liable to complicate treatment and portend a poor outcome. Alternatively, these dysfunctional personality traits may improve with resolution of her dysthymic symptoms.

Suggested Readings

Blanco C, Okuda M, Markowitz JC, et al: The epidemiology of chronic major depressive disorder and dysthymic disorder: results from the National Epidemiologic Survey on Alcohol and Related Conditions. J Clin Psychiatry 71(12):1645–1656, 2010

Kocsis JH, Frances AJ: A critical discussion of DSM-III dysthymic disorder. Am J Psychiatry 144(12):1534–1542, 1987

Case 4.7Mood Swings

Margaret Altemus, M.D.

Emma Wang, a 26-year-old investment banker, referred herself to an outpatient psychiatrist because of "mood swings" that were ruining her relationship with her boyfriend.

She said their latest argument was triggered by his being slightly late for a date. She had yelled at him and then, out of the blue, ended the relationship. She felt despondent afterward, guilty and self-critical. When she called him

to make up, he had refused, saying he was tired of her "PMS explosions." She had then cut herself superficially on her left forearm, which she had found to be a reliable method to reduce anxiety since she was a young teenager.

She said these mood swings came out of the blue every month and that they featured tension, argumentativeness, anxiety, sadness, and regret. Sometimes she yelled at her boyfriend, but she also got upset with friends, work, and her family. During the week in which she was "Mr. Hyde," she avoided socializing or talking on the phone; she wouldn't be her "usual fun self," she said, and would alienate her friends. She was able to work when she felt "miserable," but she did have relatively poor energy and concentration. She was also edgy and "self-pitying" and regretful that she had chosen to "waste" her youth working so hard for an uncaring financial institution.

When she was feeling "desperate," she would be determined to seek treatment. Soon after the onset of her period, she would improve dramatically, return to her old self, and not find the time to see a psychiatrist. During the several weeks after her period, she said she felt "fine, terrific, the usual."

She said the mood swings always started 7–10 days before the start of her menstrual period, "like terrible PMS." Her periods were regular. She had premenstrual breast tenderness, bloating, increased appetite, and weight gain. Almost as soon as her period began, she felt "suddenly good." She denied alcohol or illicit substance use and had no history of psychotic, manic, or obsessional symptoms. She denied any suicidal thoughts and any prior suicide attempts and psychiatric hospitalizations. She denied allergies and medical problems. She took one medication, her birth control pill. Her family history was pertinent for a mother with possible depression. Ms. Wang was born in Taiwan and came to the United States at age 14 to attend boarding school. After graduating from an elite business school, she moved in with her older sister.

On mental status examination, Ms. Wang was a fashionably dressed East Asian woman wearing tasteful jewelry and carrying a designer bag. Her hair was slightly askew. She maintained good eye contact and was pleasant and cooperative throughout the interview. Her speech was normal in rate, rhythm, and volume. She described her mood as "generally good," and her affect was full, reactive, and mildly irritable. Her thought process was linear, and she showed no evidence of delusions, obsessions, or hallucinations. She denied suicidal and homicidal ideation. Her insight, judgment, and impulse control were intact, although she noted a history of perimenstrual impairment in these areas.

Diagnosis

Premenstrual dysphoric disorder

Discussion

Ms. Wang presents with mood swings, irritability, nonsuicidal self-injury (cutting), interpersonal instability, anxiety, sadness, social withdrawal, diminished concentration and energy, and anhedonia. She also describes physical symptoms such as increased appetite, clumsiness, fatigue, and bloating. These symptoms are severe enough to impair her social relationships and her function at work.

This history could fit a number of psychiatric disorders, but Ms. Wang also indicates that these symptoms occur only during a circumscribed time before the onset of her menses. At other times of the month, she is upbeat, energetic, and optimistic. Disappearance of symptoms after onset of menses is key to the diagnosis of DSM-5 premenstrual dysphoric disorder (PMDD).

Ms. Wang reports 7–10 days of symptoms premenstrually, which is on the longer end of the spectrum of symptom duration for PMDD. Some women have symptoms starting at ovulation and lasting for 2 weeks, but a shorter duration of symptoms is more common. Among women with premenstrual symptoms, the most symptomatic days, averaging across all women, are the 4 days preceding and the 2 days following onset of menses.

Ms. Wang's cutting behavior is not typical of PMDD. Impaired impulse control suggests borderline traits in addition to PMDD symptoms. Comorbid disorders do not exclude the diagnosis of PMDD. Many psychiatric disorders have exacerbations during the premenstrual period, but in such cases the patient does not return to her normal self after the menstrual period begins. Ms. Wang suggests that she has "PMS," or premenstrual syndrome, which is a medical condition but not a DSM-5 diagnosis. Criteria for PMS tend to be less rigorous than for PMDD and do not require an affective component.

PMDD is not associated with abnormalities in circulating levels of estrogen or progesterone. Instead, women with PMDD seem to be more sensitive to normal luteal hormone fluctuations. Hormone blood levels are, therefore, not part of the diagnostic evaluation. Although hormonal contraceptives might be expected to help with symptoms, women taking oral contraceptives often continue to have premenstrual mood symptoms (as seen in Ms. Wang).

One component that is crucial in making the PMDD diagnosis is an accurate longitudinal history. Retrospective symptom reports are often inaccurate throughout psychiatry, and that is true for premenstrual symptoms. Validated scales are available for assessing PMDD, such as the Daily Record of Severity of Problems. At this early stage of evaluation, DSM-5 would indicate that Ms. Wang has a provisional diagnosis of PMDD. Only after she has recorded symptoms over two menstrual cycles could she be said to have DSM-5 PMDD.

Suggested Readings

Hartlage SA, Freels S, Gotman N, Yonkers K: Criteria for premenstrual dysphoric disorder: secondary analyses of relevant data sets. Arch Gen Psychiatry 69(3):300–305, 2012

Yonkers KA, O'Brien PM, Eriksson E: Premenstrual syndrome. Lancet 371(9619):1200-1210, 2008

Case 4.8Stress, Drugs, and Unhappiness

Edward V. Nunes, M.D.

Frank Young, a 40-year-old business executive, was brought for a psychiatric consultation by his wife. While Mr. Young sat quietly beside her, she reported that a change had come over him during the last 6 months. He was either quiet and withdrawn or uncharacteristically irritable. He had begun to drink alcohol to excess in social situations, sometimes embarrassing her. He often came home late, or not at all, claiming to have been at the office. When away from home, he rarely answered phone calls and text messages. She wondered if he was having an affair. Mr. Young denied seeing anyone else and indicated he had just been having a hard time.

After his wife left the psychiatrist's office, Mr. Young reported a great deal of stress at work over the last year as he tried to deal with industry-wide setbacks and personal financial losses. He said he felt down and depressed most of the time. He reported difficulty sleeping most nights, loss of interest in his wife and children, low energy, and feelings of failure and self-criticism. He had frequent thoughts of wanting to be dead and of suicide, but he denied any suicidal intent or plans.

When asked about the alcohol, he acknowledged that he had been drinking heavily for at least 6 months. When asked about other substances, he asked about therapeutic confidentiality and then acknowledged that he had been using cocaine several times per week for about 9 months. He kept his cocaine use from his wife because he knew she would be judgmental. In the beginning, cocaine put him in a reliably positive, optimistic mood, and he found that he could more successfully churn through large volumes of otherwise tedious and discouraging work. Although his work required some socializing in the evening, he also began to regularly go to bars in the evening just so that he would have a place to comfortably combine cocaine with alcohol. He craved the high from cocaine, went out of his way to obtain it, and spent a lot of time getting high that he would previously have been spending with his family.

When asked to clarify the sequence of work stress, cocaine use, and depression symptoms, he reported that he had felt worried and discouraged about work for a year, but the feelings of depression, loss of interest, irritability, insomnia, and low self-esteem had not begun until about 6 months earlier, 3 months after he had begun to use cocaine regularly. He experienced those depressive symptoms most of the day every day, whether or not he had taken cocaine within the last several days.

Mr. Young denied any previous episodes of depression, other mood or anxiety disorders, or suicide attempts. He drank socially. He had experimented with cannabis and cocaine as a teenager but had never developed a pattern of regular use or impairment until the past year.

Diagnoses

- Cocaine use disorder, moderate severity
- Substance-induced major depressive disorder

Discussion

Mr. Young has significant depression. He meets criteria for cocaine use disorder of at least moderate severity and may also have an alcohol use disorder. He also has significant work stress and appears to be in a tense marriage.

The relationships between his mood, his substance use, and his stress are complicated but crucial to the development of an effective treatment strategy.

The first difficulty in evaluating substance use disorders is getting an accurate history about behaviors that are often embarrassing and illegal. Mr. Young was quite forthcoming about his cocaine use, but only after he was specifically asked about alcohol and substance use. Waiting for patients to spontaneously report illicit substance use is more likely to lead to not getting the information. This is problematic given that substance use is widespread and frequently co-occurs with other psychiatric disorders. An empathic, nonjudgmental interviewing style will usually help the patient open up. In other words, asking about alcohol and common drugs of abuse with a matter-of-fact attitude indicates to the patient that his or her answers will not be surprising and will provide information that can improve the treatment. As seen with Mr. Young, family members are often the ones to bring a substance-abusing patient to consultation. They can be important allies in clarifying the symptoms and implementing a treatment plan. Mr. Young needed time alone with the clinician to tell his story, but it was very useful to hear his wife's observations.

A careful exploration of the history can help differentiate between diagnoses that are associated with similar symptoms. Cocaine withdrawal typically causes depressive symptoms, for example, as do a major depression and a substance-induced depression. One important differentiating factor is the temporal relationship between symptoms and the use of the substances.

A primary major depression would be diagnosed if the depression began before the onset of substance abuse or persisted for a substantial period of time beyond cessation of substance use. The amount of time is left to the clinician's judgment, but about 1 month is suggested. Major depression would also be diagnosed if the involved substance is deemed unlikely to cause a depressive syndrome or if the patient had previously experienced recurrent non-substance-induced major depressions. Mr. Young had never had a major depression until after he started abusing cocaine, and there has not been a substantial abstinent period since, so primary major depression cannot be diagnosed.

It is also important to consider the possibility that Mr. Young's symptoms are the direct result of intoxication and/or withdrawal. Intoxication with and withdrawal from cocaine and alcohol can cause depressed mood and sleep disturbance, but symptoms would be expected to resolve within a day or two of the last use. Mr. Young's depression and insomnia persist, regardless of the timing of his last use. In addition, other depressive symptoms such as suicidal ideation are not typically part of intoxication or withdrawal.

Mr. Young, therefore, is diagnosed with a substance-induced depression, which is linked to depressions that appear to have been induced by the ongoing use of a substance and that seem to have taken on a life of their own. If Mr. Young's depression persists after a month of abstinence, his diagnosis would shift to a major depression, although the clinician would likely consider the cocaine to have triggered the depression.

It is useful to identify substance-induced depression. Compared to independent major depressions, substanceinduced depression is associated with an increased suicide risk. Furthermore, the additional depression diagnosis reduces the likelihood that someone with a substance use disorder will achieve abstinence. Substance-induced depression should be kept on a patient's list of diagnoses and followed carefully.

Suggested Readings

Compton WM, Thomas YF, Stinson FS, Grant BF: Prevalence, correlates, disability, and comorbidity of DSM-IV drug abuse and dependence in the United States: results from the National Epidemiologic Survey on Alcohol and Related Conditions. Arch Gen Psychiatry 64(5):566–576, 2007

Hasin D, Liu X, Nunes E, et al: Effects of major depression on remission and relapse of substance dependence. Arch Gen Psychiatry 59(4):375–380, 2002

Hasin DS, Stinson FS, Ogburn E, Grant BF: Prevalence, correlates, disability, and comorbidity of DSM-IV alcohol abuse and dependence in the United States: results from the National Epidemiologic Survey on Alcohol and Related Conditions. Arch Gen Psychiatry 64(7):830–842, 2007

Nunes EV, Liu X, Samet S, et al: Independent versus substance-induced major depressive disorder in substancedependent patients: observational study of course during follow-up. J Clin Psychiatry 67(10):1561–1567, 2006

Ramsey SE, Kahler CW, Read JP, et al: Discriminating between substance-induced and independent depressive episodes in alcohol dependent patients. J Stud Alcohol 65(5):672–676, 2004

Case 4.9Coping With Parkinson's Disease

Thomas W. Meeks, M.D.

George Anderson, a 79-year-old man, was referred to a psychiatrist for an evaluation of depression. For most of the 6 years since his diagnosis with Parkinson's disease (PD), Mr. Anderson had coped well and continued to engage in many of his usual activities.

Three months prior to the referral, however, Mr. Anderson began to decline social invitations from family and friends. He reported that he had withdrawn socially because he had lost pleasure in things that used to excite him, although he denied persistent feelings of sadness or worry. He recognized that he was not his "usual self" and tried, to no avail, to give himself "pep talks." He had worked as a high school science teacher until retirement at age 67, and reported having learned "the power of seeing the glass half full" from his students. He felt frustrated that he could not "snap out of it" for the first time in his life but was hopeful about getting professional help. He denied wishing for death, explaining that although he was not afraid of death, he wanted to enjoy life as long as possible. He added, "God does not give me more than I can handle. I can't ask for a better family, and I have had a full life."

Other new symptoms noted over the prior few months included increasing fatigue, trouble with concentration and memory, unintentional weight loss (7% of his body mass index over 2 months), and restless sleep with initial insomnia.

His wife of 54 years had also noticed that for nearly 2 years, Mr. Anderson had been thrashing his body in the bed halfway through the night, occasionally striking her in his sleep. When he awoke from such an incident, he was coherent and often reported he had been dreaming of swimming or running from something. His wife took over driving shortly after his PD diagnosis, but he was otherwise independent in activities of daily living such as paying bills and managing his medications. His wife described him as "maybe a little more forgetful" over the past few years, but neither of them was concerned about this mild memory loss.

Past medical history included prostate cancer (in remission), glaucoma, and gout. Family psychiatric history was positive only for a granddaughter with autism. He reported no past troublesome substance use and drank a glass of wine two or three times a year. He denied any previous depressive episodes, psychiatric treatment, or psychiatric evaluations.

On mental status examination, Mr. Anderson was pleasant, cooperative, and interpersonally engaging. He had a mild to moderate resting tremor, shuffling gait, hypophonia, and bradykinesia. He occasionally smiled, but his affect was difficult to gauge due to significant masked facies. He reported his mood as "blah." There was no evidence of psychosis.

On cognitive testing, he had some difficulty on the Trail Making Test part B, figure copying, and word-list recall, the latter being helped by category prompts. He scored 25 out of 30 on the Montreal Cognitive Assessment (MCA).

Diagnoses

- Depressive disorder due to another medical condition (Parkinson's disease), with major depressive-like episode
- Rapid eye movement sleep behavior disorder

Discussion

Although Mr. Anderson denies sad mood, he does have evidence of anhedonia along with five other depressive symptoms (appetite/weight loss, insomnia, fatigue, poor concentration, and psychomotor retardation), all for greater than 2 weeks. These symptoms are distressing to him and are significantly impacting his social functioning.
This could indicate major depressive disorder (MDD). However, Mr. Anderson has no personal or family history of depressive disorders, an atypically late age at onset, symptom development during the course of PD, and no identifiable acute life stressor. Clinically significant depression occurs in approximately one of three PD cases. Thus, it is more likely that his depressive symptoms are related to physiological changes in the central nervous system caused by PD.

When depressive symptoms are temporally associated with the onset or progression of another medical condition, and are not explained by delirium, the DSM-5 diagnosis "depressive disorder due to another medical condition" should be considered. This diagnosis is intended for situations in which the direct *physiological* effects of another medical condition (e.g., neurodegeneration in Parkinson's disease) cause depressive symptoms. In other words, this diagnosis is not intended to describe individuals whose symptoms derive from a psychological reaction to illness, which would instead be classified as an adjustment disorder, with depressed mood. These two possible etiologies of depressive symptoms (physiological versus psychological) are somewhat artificially dichotomized and may coexist. There are, however, many cases when the evidence heavily suggests one more than the other. Mr. Anderson's previous resiliency in the face of developing Parkinson's disease and his ongoing positive coping style make the diagnosis of adjustment disorder less likely.

If the criteria for symptom duration and number are met for MDD, the specifier "with major depressive-like episode" should be added to the diagnosis. Because symptoms from a nonpsychiatric medical illness can overlap with depressive symptoms, diagnostic ambiguity may arise. For instance, persons with PD often experience symptoms such as fatigue, psychomotor retardation, sleep disturbance, cognitive impairment, and weight loss independent of depressed mood or anhedonia. However, in Mr. Anderson's case, these symptoms developed or worsened in conjunction with his new-onset anhedonia, which suggests a major depressive-like episode due to another medical condition.

As often occurs in PD, Mr. Anderson has a sleep disturbance consistent with rapid eye movement (REM) sleep behavior disorder. This sleep disorder is characterized by "repeated episodes of arousal during sleep associated with vocalization and/or complex motor behaviors" that may result in "injury to self or the bed partner." Upon awakening, affected persons typically have a clear sensorium and a sense of having "acted out" their dreams. Polysomnography would reveal absence of atonia during REM sleep but would not be required in order to make the diagnosis in the context of a synucleinopathy such as PD. Symptoms typically occur 90 minutes or more into sleep and more often in the second half of the night, when REM sleep is more common. Although Mr. Anderson's history is consistent with REM sleep behavior disorder, his new initial insomnia is not explained by this diagnosis and is more consistent with depression.

Cognitive changes, particularly impairments of visuospatial, executive, and memory retrieval functions, often occur in PD. Mr. Anderson's MCA results are typical of such cognitive changes, but his new-onset subjective difficulty with concentration is more likely secondary to depression. His cognitive problems are mild and not overtly impairing; he does not meet criteria for an independent neurocognitive disorder, although prospective monitoring of cognition would be wise, given that 25%–30% of persons with PD develop dementia.

In addition to meeting criteria for two DSM-5 disorders, Mr. Anderson displays evidence of resilience, wisdom, and other signs of psychological health. He demonstrates positive coping skills (e.g., cognitive reframing, use of social supports), long-term healthy relationships, spirituality, gratitude, optimism, and developmentally appropriate ego integrity. He also exhibits a healthy, nonmorbid perspective about personal mortality. Unfortunately, even individuals with few risk factors for depression and with evidence of lifelong healthy psychological functioning are not immune to the neuropsychiatric effects of certain medical conditions.

Suggested Readings

Aarsland D, Zaccai J, Brayne C: A systematic review of prevalence studies of dementia in Parkinson's disease. Mov Disord 20(10):1255–1263, 2005

Boeve BF: Idiopathic REM sleep behaviour disorder in the development of Parkinson's disease. Lancet Neurol 12(5):469–482, 2013

Gallagher DA, Schrag A: Psychosis, apathy, depression and anxiety in Parkinson's disease. Neurobiol Dis 46(3):581–589, 2012

Jeste DV, Ardelt M, Blazer D, et al: Expert consensus on characteristics of wisdom: a Delphi method study. Gerontologist 50(5):668–680, 2010

Jeste DV, Savla GN, Thompson WK, et al: Association between older age and more successful aging: critical role of resilience and depression. Am J Psychiatry 170(2):188–196, 2013

Case 4.10Situational Mood Swings

Joseph F. Goldberg, M.D.

Helena Bates was a 27-year-old single administrative assistant who presented for a psychiatric evaluation and treatment for depression. She had recently begun an intensive outpatient program after a first lifetime hospitalization for an impulsive overdose following the breakup of a 2-year relationship. She said she had been feeling increasingly sad and hopeless for 1–2 months in anticipation of the breakup. About a month prior to admission, she began seeing a new psychotherapist who told her she had "borderline traits" and "situational mood swings."

During these 4–8 weeks, Ms. Bates's mood had been moderately depressed throughout the day most days, with no diurnal variation and intact mood reactivity. She had recently gained about 10 pounds from "overeating comfort food and junk." She denied prominent irritability or argumentativeness. She described her self-esteem as "none" and had found it hard to feel motivation or to concentrate on routine tasks. By contrast, sometimes she would have "bursts" of nonstop thinking about her estranged boyfriend and devising ways to "get him back," alternating with "grieving his loss." She described times of being flooded with strategies to regain his interest (including purchasing a full-page newspaper "open letter" to him) and recently found herself awake until 5:00 or 6:00 A.M. journaling or calling friends in the middle of the night "for support." She would then "trudge through the day" without fatigue after only 2–3 hours of sleep. These symptoms began prior to her hospitalization. She denied drug or alcohol misuse and self-injurious behavior. Until this particular breakup, she denied a history of particularly intense or chaotic relationships, as well as a history of suicidal thoughts or gestures. Indeed, Ms. Bates seemed horrified by her own overdose, which occurred in the context of a depression.

Previously, Ms. Bates had seen a counselor in high school for "moodiness" and poor grades. She became "depressed" in college. At that time, she began escitalopram and psychotherapy, but improved quickly and stopped both after a few weeks. While in the hospital following her suicide attempt, she started taking vilazodone and quetiapine at bedtime "for sleep."

Ms. Bates was the youngest of three children who grew up in a middle-class suburban home. She attended public school and a state college as "mostly a B student" and hoped to someday go to law school. She described herself as having been a "quiet, anxious" child and "not a troublemaker." Her older brother abused multiple substances, although Ms. Bates said she herself had never used illicit substances. Her younger sister was treated for "panic attacks and depression," and Ms. Bates knew of several aunts and cousins whom she thought were "depressed."

On examination, Ms. Bates was a pleasant, well-related, casually but appropriately dressed, moderately overweight woman, appearing her stated age, who made good eye contact. Her speech was somewhat rapid and verbose but interruptible and nonpressured. She had no abnormal motor movements, but she gestured dramatically and with excessive animation. Her mood was depressed, and her affect was tense and dysphoric but with full range and normal responsivity. Ms. Bates's thought processes were somewhat circumstantial but generally coherent, linear, and logical. Her thought content was notable for passive thoughts that she might be better off dead, but without intent or plan; she had no delusions, hallucinations, or homicidal thoughts. Her higher integrative functioning was grossly intact, as were her insight and judgment.

Diagnosis

Major depressive disorder with mixed features

Discussion

Ms. Bates meets DSM-5 criteria for a major depressive episode, manifesting pervasive depressed mood with at least five associated features (suicidal thoughts, poor concentration, low self-esteem, hyperphagia, and psychomotor agitation). She also describes several symptoms consistent with mania or hypomania: a decreased need for sleep with nocturnal hyperactivity and no consequent next-day fatigue, probable racing thoughts, and rapid, verbose speech (as noted on interview). Although the examiner deemed Ms. Bates's insight and judgment globally intact at the time of the interview, some of her recent thoughts (e.g., posting an open letter in a newspaper) and actions (calling friends in the middle of the night) suggest impaired judgment involving behaviors with the potential for painful consequences.

Although Ms. Bates does have some manic symptoms, she does not meet DSM-5 requirements for a diagnosis of mania or hypomania. She would be said to have subsyndromal hypomania along with the syndromal depression. This combination qualifies her for a new diagnosis in DSM-5: major depressive disorder with mixed features. Previously, "mixed features" applied only to bipolar I disorder, whereas the term can now modify major depression and both bipolar I and bipolar II disorders.

The DSM-5 construct of unipolar depression with mixed features reflects observations that many unipolar depressed patients display subthreshold signs of hypomania. DSM-5 "disallows" counting four potential manic/hypomanic symptoms, because they can also reflect major depression—namely, insomnia (as opposed to decreased need for sleep), distractibility, indecisiveness, and irritability. DSM-5 identifies "abnormally and persistently increased activity or energy" as a mandatory criterion for diagnosing bipolar II hypomania, but this feature is not necessary to define unipolar depression with mixed features. In the present case, if Ms. Bates had irritable mood in addition to her racing thoughts, rapid speech, and decreased need for sleep, she would meet DSM-5 criteria for bipolar II hypomania, and the mixed features specifier would then apply by virtue of her concomitant depressive symptoms.

The DSM-5 mixed features specifier requires that symptoms of the opposite polarity (in this case, mania/hypomania) be present "almost every day during the episode." This latter criterion means that if Ms. Bates's manic/hypomanic symptoms had been present for fewer than 4 days (the minimum duration criterion for diagnosing bipolar II hypomania), her subthreshold hypomania symptoms would not count toward either a "mixed" or a "manic/hypomanic" designation and her diagnosis would simply be unipolar major depression. Some authors have criticized DSM-5's stringency of discounting subthreshold hypomania symptoms if they involve only *two* manic/hypomanic symptoms or if they fail to persist for the full duration of an episode, because such presentations (referred to in the literature as "depressive mixed states") have been observed when as few as two mania/hypomania symptoms coexist with syndromal unipolar depression for as few as 2–4 days, and represent a construct that more closely resembles bipolar than unipolar disorder in family history, age at onset, and suicide risk.

One might speculate that Ms. Bates's psychomotor activation and subthreshold hypomania could have arisen as a consequence of the recent introduction of the selective serotonin reuptake inhibitor (SSRI) vilazodone. However, in this case, the history indicates that her hypomanic symptoms predated her hospitalization and SSRI introduction; it would be important for the examiner to determine that this chronology is accurate (which would suggest that her mixed symptoms are not iatrogenic), because the mixed features specifier requires that symptoms be "not attributable to the physiological effects of a substance." Note that this qualifying statement is in contrast to the DSM-5 criteria for a manic/mixed/hypomanic episode, insofar as the emergence of mania/hypomania symptoms associated with recent antidepressant exposure is now classified as a bipolar disorder (similar to the viewpoint in DSM-III-R) and no longer as a substance-induced mood disorder (as in DSM-IV-TR).

Major depression patients with subthreshold hypomania have about a 25% chance of eventually developing a full mania or hypomania. Therefore, although not all major depression patients who display subthreshold mixed features will develop syndromal mania or hypomania, such patients warrant particularly careful evaluation, treatment, and longitudinal monitoring.

Ms. Bates's symptoms of impulsivity and hyperactivity may have contributed to her acute presentation being wrongly identified as borderline personality disorder. Her longitudinal history does not support a pattern of symptoms suggestive of borderline personality disorder, and her suicide attempt and affective instability are readily accounted for by a current full affective syndrome.

Suggested Readings

Angst J, Cui L, Swendsen J, et al: Major depressive disorder with subthreshold bipolarity in the National Comorbidity Survey Replication. Am J Psychiatry 167(10):1194–1201, 2010

Fiedorowicz JG, Endicott J, Leon AC, et al: Subthreshold hypomanic symptoms in progression from unipolar major depression to bipolar disorder. Arch Gen Psychiatry 168(1):40–48, 2011

Goldberg JF, Perlis RH, Ghaemi SN, et al: Adjunctive antidepressant use and symptomatic recovery among bipolar depressed patients with concomitant manic symptoms: findings from the STEP-BD. Am J Psychiatry 164(9):1348–1355, 2007

Sato T, Bottlender R, Schröter A, Möller HJ: Frequency of manic symptoms during a depressive episode and unipolar 'depressive mixed state' as bipolar spectrum. Acta Psychiatr Scand 107(4):268–274, 2003

Case 4.11Floundering

Peter D. Kramer, M.D.

Ian Campbell was a 32-year-old man who presented for psychiatric consultation because he was floundering at work. When he failed to make progress on a simple project, his boss expressed concern. Mr. Campbell offered that he had been distracted by problems at home. More seemed wrong, the boss suggested. Mr. Campbell phoned his internist, who sent him to a neurologist, who referred Mr. Campbell for psychiatric evaluation.

Mr. Campbell had encountered this problem, difficulty concentrating, before. In college, after his father died of a chronic illness, Mr. Campbell had been unable to study and had taken time off. Twice at his prior job, he experienced episodes lasting months in which he had difficulty making decisions. One of these intervals followed a romantic setback.

Mr. Campbell's mother and sister had been diagnosed with major depression and treated successfully with medication. A maternal uncle had committed suicide.

The current impairment's onset accompanied the breakdown of Mr. Campbell's marriage of 6 years. Two months earlier, his wife had filed for divorce, announcing that she would live in the distant city her work had taken her to. Mr. Campbell had expected to feel relief; he said his wife had been hostile throughout the marriage. He had begun to entertain fond thoughts of a coworker. Nevertheless, he felt "flat"—unable to imagine a future.

Closer questioning revealed that Mr. Campbell's problems went beyond impaired cognition. He described apathy and diminished energy. Jazz was a passion, but he no longer attended recitals—although impaired concentration probably played a role as well. Listening, the psychiatrist noted probable retardation of speech. Mr. Campbell said that his employer had mentioned that Mr. Campbell was moving in slow motion. The problems were worse in the mornings. In the evenings, Mr. Campbell noticed a spark of energy. He put on music and reviewed reports ignored during the workday.

Mr. Campbell declined to characterize himself as sad. He was pleased that the marriage was ending. But the psychiatrist was struck by her own affect in Mr. Campbell's presence; she felt glum, pessimistic, even weepy.

She questioned Mr. Campbell at length about depressed mood, changed sleep and appetite, feelings of guilt or worthlessness, and thoughts of death. None of these attributions, he said, applied. Nor had he had indicators of disorders that can be confused with depression. He was not dysthymic; between episodes of impairment, he felt and functioned well.

The psychiatrist decided that the problem at hand was close enough to depression to warrant treatment. Factors that influenced her decision included the partial syndromal presentation, diurnal variation, periodic recurrence, lack of future orientation, and her own empathic experience. She proposed psychotherapy centered on Mr. Campbell's decompensation in the face of loss. He insisted that he did not see the impending divorce in that light. The two agreed on brief psychotherapy supplemented by antidepressants. Within weeks, Mr. Campbell was functioning at full capacity. During the treatment, the psychiatrist was unable to elicit evidence of depressive symptoms beyond

those noted in the initial history. All the same, she was convinced that the impaired concentration was a sign and symptom of something very much like major depression.

Diagnosis

• Other specified depressive disorder (depressive episode with insufficient symptoms)

Discussion

The operational definition of major depression, which reached official standing in the third edition of DSM, is one of the great inventions in modern medicine. The approach has catalyzed productive research in fields ranging from cell biology to social psychiatry. Most of what is known about mood disorder, from the abnormalities it represents in the brain to the harm it does in lives, arises from the delineation of depression out of the inchoate domain of neurosis and psychosis.

That said, the definition is arbitrary. Historians have traced the DSM criteria to a 1957 *Journal of the American Medical Association* article whose lead author, a Boston psychiatrist, Walter Cassidy, had tried to systematize the study of a condition similar to today's major depression. For diagnosis, Cassidy required that patients have six of 10 symptoms from a list that included slow thinking, poor appetite, loss of concentration, and others that remain current. Later asked how he chose six, Cassidy said, "It sounded about right."

Operational approaches to depression, from DSM to the Hamilton Rating Scale for Depression, are attempts to create reliability in the face of an inherently ill-defined phenomenon—that is, clinicians' working diagnoses. Psychiatrists identified depressed patients using prevailing methods—sometimes with attention to their own empathic resonance with the patient; the symptom- and severity-based definitions translated the impressionistic into reproducible form.

Depression, however, has no known natural boundary. Behavioral geneticists find the DSM criteria arbitrary. Number, severity, and duration of symptoms each represent a continuum of disability. Patients who suffer four severe symptoms of depression for 2 weeks tend to do badly down the road. Five moderately disabling symptoms for 10 days confer a poor prognosis. Five mild symptoms, if they persist, predict substantial risk.

In this case, Mr. Campbell appears not to have had the five of nine criteria necessary for a diagnosis of major depression, but he would likely qualify for a DSM-5 diagnosis of other specified depressive disorder (depressive episode with insufficient symptoms). It is important to recognize that depression's harm—suffering, future full episodes, work and social problems, suicide—is only slightly less in people who narrowly miss full criteria. In one analysis, later major depression was as common in those who reported three or four symptoms as in those who reported five. Estimates of heritability are similar, too; "minor" depression in one sibling predicts full depression in an identical twin. One form of other specified depressive disorder appears especially dangerous: recurrent brief depression is associated with high rates of attempted suicide.

The DSM-5 categories unspecified and other specified depressive disorders acknowledge an important clinical reality: effectively, the near penumbra of depression *is* depression. Low-level episodes can appear as precursors of major depression and as sequelae, even in the absence of dysthymia; on its own, low-level depression represents suffering and confers risk.

Mr. Campbell's doctor will want to take his complaints seriously. Mr. Campbell may have entered a "depressive episode with insufficient symptoms," but the insufficiency relates to the symptom count for a major depressive episode, not to the level of illness needed to trigger clinical concern. Especially when peripheral factors—such as, in this case, the diurnal variation typical of classic depression—suggest mood disorder, the clinician will suspect that effectively the condition *is* depression and will approach the situation with the corresponding urgency and thoroughness.

Suggested Readings

Cassidy WL, Flanagan NB, Spellman M: Clinical observations in manic-depressive disease: a quantitative study of one hundred manic-depressive patients & fifty medically sick controls. J Am Med Assoc 164(14):1535–1546, 1957

Havens L: A Safe Place: Laying the Groundwork of Psychotherapy. Cambridge, MA, Harvard University Press, 1989

Kendler KS, Gardner CO Jr: Boundaries of major depression: an evaluation of DSM-IV criteria. Am J Psychiatry 155(2):172–177, 1998

Kendler KS, Muñoz RA, Murphy G: The development of the Feighner criteria: a historical perspective. Am J Psychiatry 167(2):134–142, 2010

Kramer P: Against Depression. New York, Viking, 2005

Pezawas L, Angst J, Gamma A, et al: Recurrent brief depression—past and future. Prog Neuropsychopharmacol Biol Psychiatry 27(1):75–83, 2003

Case 4.12Insomnia and Physical Complaints

Russell F. Lim, M.D.

Ka Fang, a 59-year-old widowed Hmong woman, was referred to a mental health clinic after she recurrently complained to her primary care physician of fatigue, chronic back pain, and insomnia. Over the preceding 11 months, the internist had prescribed clonazepam for sleep and Vicodin for pain. Her sleep had improved and her pain decreased, but she continued to feel tired all day. At that point, the internist referred her for the psychiatric evaluation.

Ka had immigrated to the United States from Thailand a few years earlier. Natives of Laos, she and her family had spent almost two decades in a Thai refugee camp following the Vietnam War. Her family had resettled in the Sacramento area with the assistance of a local church group.

When questioned using a Hmong interpreter, Ka denied depressed mood. When asked if she enjoyed things, she said that she felt privileged to be in America and had no right to complain. She said she felt she was not doing enough to help her family. She was embarrassed by her fatigue because she did not "do anything all day." She denied any intention to harm herself.

She said she was very proud of all her children, especially her son, who had been an excellent student in Thailand and spoke good English. Nevertheless, her son, his wife, and their two young children followed many of the cultural practices that they had followed in Laos and Thailand, and often prepared Hmong food for dinner. He and his wife had bought a small farm outside Sacramento and were doing well, cultivating Asian vegetables. Her son had employed her two daughters on the farm until both had moved back to live in the Hmong community in Sacramento.

Ka indicated that the transition to California had gone better than she had expected. The biggest disappointments for her had been her husband's unexpected death from a heart attack 1 year earlier and the fact that most of her extended family had remained in Thailand.

On mental status examination, the patient was short and heavyset. She wore a floral short-sleeve blouse, black polyester slacks, black flip-flops, and no makeup. She had white strings tied around her wrists. Her eyes were generally downcast, but she seemed alert. She appeared sad and constricted but denied feeling depressed. Her speech was slow and careful. She denied all hallucinations, suicidality, and homicidality. Cognitive testing revealed normal attention and concentration but little formal education; she appeared to be functionally illiterate. Her insight into her illness appeared limited.

When asked about the strings around her wrists, Ka explained that she had recently sought out a Hmong shaman, who had organized several soul-calling ceremonies to reunite with distant relatives.

Diagnosis

• Other specified depressive disorder (depressive episode with insufficient symptoms)

Discussion

Ka presents for an evaluation of psychiatric contributions to her fatigue, insomnia, and pain. She endorses symptoms of insomnia, feelings of worthlessness, and fatigue, but she denies a depressed mood, anhedonia, agitation, weight loss, poor concentration, or thoughts of suicide. She fulfills only three of nine DSM-5 major depression criteria; five are needed to make the diagnosis.

Ka reports a number of pertinent cultural issues. She lives in a Hmong-speaking household with her son and his family on their farm outside of Sacramento. They raise vegetables, their apparent occupation when they lived in Laos and Thailand. In Hmong culture, the young married couple generally lives with the family of the husband, making the mother-in-law especially prominent. Although Ka expresses her appreciation for her situation, she may still feel marginalized and lonely, especially in the context of her husband's recent death and her daughters having moved back to the Hmong community in Sacramento. Being functionally illiterate—not uncommon in societies in which limited educational resources are primarily channeled to boys—Ka is not able to avail herself of tools to maintain connections, such as e-mail and newspapers. Her feelings of isolation are likely connected to the strings that the interviewer noticed on her wrists. Shamanistic soul-calling ceremonies are intended to reunite families, and she may be especially in need given her distance from her daughters, her Southeast Asian home, her Hmong culture, her extended family, and her ancestors.

In assessing whether Ka has a mood disorder, it is useful to know that there is no word in the Hmong language for depression. Like many people from other cultures, Ka describes somatic symptoms such as insomnia, anergia, and bodily aches to express depressed feelings. These probably are not adequate to meet symptomatic criteria for a DSM-5 MDD, and, by report, her symptoms have not yet persisted for the 2 years required for dysthymic disorder. It would be useful to get collateral information from one of her children, who might be able to provide information that could solidify the diagnosis. As it stands, she best fits the DSM-5 diagnosis other specified depressive disorder (depressive episode with insufficient symptoms).

Suggested Readings

Culhane-Pera KA, Vawter DE, Xiong P, et al: Healing by Heart: Clinical and Ethical Case Stories of Hmong Families and Western Providers. Nashville, TN, Vanderbilt University Press, 2003

Lim RF: Clinical Manual of Cultural Psychiatry. Washington, DC, American Psychiatric Publishing, 2006

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Chapter 5. Anxiety Disorders

Introduction

John W. Barnhill, M.D.

The DSM-5 chapter on anxiety disorders brings together a cluster of presentations in which anxiety, fear, and avoidance are prominent. Among the most prevalent psychiatric diagnoses, anxiety disorders can also be among the most difficult to definitively diagnose. One complicating factor is that anxiety, fear, and avoidance are normal and adaptive responses, leading to some inevitable ambiguity in evaluations of people with mild symptoms.

Another factor is that anxiety-related emotions can be most prominently experienced as somatic symptoms. Fear a normal response to a real or perceived imminent threat—is almost always associated with autonomic hyperarousal; such hyperarousal can be difficult for patients to identify or describe, especially if it is chronic. Similarly, anxiety—the emotional experience of fear unaccompanied by a clear threat—may be experienced as muscle tension and vigilance, which can blend imperceptibly into background noise for someone with chronically elevated anxiety levels.

A third complication is that anxiety disorders are often comorbid with one another and with mood and personality disorders, which can make it difficult to adequately attend to the manifestations of each diagnosis.

Finally, definitions of anxiety disorders are descriptive of phenomena with unknown pathophysiologies, and despite many advances, the field of psychiatry is not yet close to definitively identifying nosological categories based on underlying etiology.

One important diagnostic shift involves panic, which is described in two different ways in DSM-5. Panic attacks are now understood to occur as part of a broad spectrum of psychiatric diagnoses and to have significance in regard to severity, course, and morbidity, and they can now be identified as a specifier for all DSM-5 anxiety disorders, as well as for some other DSM-5 disorders. Panic attacks can be subtyped simply as expected or unexpected. When persistent panic attacks induce an ongoing, significant fear of further panic attacks, panic disorder is the likely diagnosis.

Historically linked to panic disorder, agoraphobia is identified in DSM-5 as a distinct diagnosis that can develop in the context of a variety of stressors and psychiatric syndromes. As with specific phobia and social anxiety disorder, agoraphobia no longer requires that individuals over age 18 perceive the anxiety as unreasonable. Instead, the clinician can make a judgment as to whether the anxiety is out of proportion to the actual danger or threat. To reduce the likelihood of overdiagnosing transient fears, these disorders must persist for at least 6 months for all individuals rather than just for those under age 18.

A significant structural shift within DSM-5 is the movement of separation anxiety disorder into the chapter on anxiety disorders. Separation anxiety disorder still requires an onset before age 18, but the hope is that with a general adult population prevalence of over 6%, it will be more commonly addressed in adults than it has been in the past, when the disorder was listed among disorders of children and adolescents.

Another significant structural change among the DSM-5 anxiety-related disorders is the shift of obsessivecompulsive disorder and posttraumatic stress disorder into their own chapters. These new chapters include clusters of disorders in which anxiety plays a prominent role but which also have other features (e.g., obsessions/compulsions or a significant trauma history).

The various anxiety-related disorders can often be clearly differentiated, but they can also be difficult to distinguish and can often be comorbid with each other and with most other psychiatric diagnoses. A chief complaint of "anxiety" does not make the diagnosis but is instead the beginning of a clinical thought process that can range throughout DSM-5.

Suggested Readings

Horwitz AV, Wakefield JC: All We Have to Fear: Psychiatry's Transformation of Natural Anxieties Into Mental Disorders. New York, Oxford University Press, 2012

Milrod B: The Gordian knot of clinical research in anxiety disorders: some answers, more questions. Am J Psychiatry 170(7):703–706, 2013

Stein DJ, Hollander E, Rothbaum BO (eds): Textbook of Anxiety Disorders, 2nd Edition. Washington, DC, American Psychiatric Publishing, 2010

Case 5.1Fears and Worries

Loes Jongerden, M.A., Susan Bögels, Ph.D.

Logan was a 12-year-old boy who was referred to mental health care for long-standing anxiety about losing his parents and relatively recent fears about getting a severe disease.

Although his parents described a long history of anxiety, Logan's acute problem began 5 weeks prior to the consultation, when he watched a television show about rare and fatal diseases. Afterward, he became scared that he might have a hidden disease. His parents reported three "panic attacks" in the prior month, marked by anxiety, dizziness, sweats, and shortness of breath. About that same time, Logan began to complain of frequent headaches and stomachaches. Logan's own theory was that his bodily aches were caused by his fears about being ill and about his parents going away, but the pain was still uncomfortable. He insisted he was not scared about having more panic attacks but was petrified about being left sick and alone. These illness fears developed several times a week, usually when Logan was in bed, when he "felt something" in his body, or when he heard about diseases.

Logan had begun to suffer from anxieties as a young child. Kindergarten was notable for intense separation difficulties. He was briefly bullied in third grade, which led to his first panic attacks and worsening anxiety. According to his parents, "there always seemed to be a new anxiety." These included fear of the toilet, the dark, sleeping alone, being alone, and being pestered.

Logan's most persistent fear revolved around his parents' safety. He was generally fine when both were at work or at home, but when they were in transit, or anywhere else, he was generally afraid that they would die in an accident. When the parents were late from work or when they tried to go out together or on an errand without him, Logan became frantic, calling and texting incessantly. Logan was predominantly concerned about his mother's safety, and she had gradually reduced her solo activities to a minimum. As she said, it felt like "he would like to follow me into the toilet." Logan was less demanding toward his father, who said, "When we comfort him all the time or stay at home, he'll never become independent." He indicated that he believed his wife had been too soft and overprotective.

Logan and his family underwent several months of psychotherapy when Logan was age 10. The father said therapy helped his wife become less overprotective, and Logan's anxiety seemed to improve. She agreed with this assessment, although she said she was not sure what she was supposed to do when her son was panicking whenever she tried to leave the house or whenever he worried about getting a disease.

Logan's developmental history was otherwise unremarkable. His grades were generally good. His teachers agreed that he was quiet but had several friends and collaborated well with other children. He was quick, however, to negatively interpret the intentions of other children. For example, he tended to be very sensitive to any indication that he was being picked on.

Logan's family history was pertinent for panic disorder, agoraphobia, and social anxiety disorder (social phobia) in the mother. The maternal grandmother was described as "at least as" anxious as Logan's mother. The father denied psychiatric illness in his family.

On examination, Logan was a friendly, articulate boy who was cooperative and goal directed. He was generally in a "good mood" but cried when talking about his fears of dying and getting sick. He denied suicidality and hopelessness but indicated he was desperate to get over his problems before starting high school. His cognition was good. His insight and judgment appeared intact except as related to his anxiety issues.

Diagnosis

Separation anxiety disorder with panic attacks

Discussion

Logan has had separation fears since he was a young child. To qualify for separation anxiety disorder, DSM-5 requires three of eight symptoms. Logan has at least five, including long-standing, excessive, and disturbing fears of anticipated separations; of harm to his parents; of events that could lead to separations; and of being left alone. He also had physical complaints that could be traced to fears of dying and separation.

Logan also has panic attacks. He does not meet criteria for a panic disorder, however, because he is not afraid of having an attack. Instead, his panic seems related to fears of separation or getting a disease. Panic attacks would, therefore, be listed as a specifier of separation anxiety disorder.

Although Logan is anxious about having an illness, his symptoms do not appear to meet criteria for illness anxiety disorder: the duration of his fear of diseases is not 6 months, he does not visit doctors, and he seeks reassurance not about his health but about being left alone by his attachment figures. His symptoms do not meet criteria for generalized anxiety disorder because his predominant concern is specifically about separation from his parents. He may have met criteria for social anxiety disorder (social phobia) in the past (fear of being pestered), but social fears do not appear to dominate the clinical picture at this point in time.

Anxiety disorders have been present in the mother and grandmother, which may indicate a genetic predisposition. Multigenerational anxiety may also be transmitted via learning, modeling, and overprotective parenting. In Logan's case, the mother is noted to have panic disorder, agoraphobia, and social anxiety disorder, and both parents agree that her own anxieties have influenced her parenting style. In particular, Logan's fears appear to be rewarded: the parents stay home, rarely leave Logan alone, and respond quickly to all his calls and text messages. They appear to have frequent conversations about his fears but may not spend enough time discussing compensatory strategies. The father does seem to try to encourage Logan's autonomy, but the parents appear to not agree on the correct overall strategy. Unsupportive coparenting may have contributed to the maintenance of Logan's problems.

One potentially important change in DSM-5 has been the relocation of separation anxiety disorder into the anxiety disorder chapter. In DSM-III and DSM-IV, it was located in the chapter aimed at disorders that begin in infancy, childhood, and adolescence. Separation anxiety disorder can extend into adulthood, however, and Logan's mother may herself have suffered from adult separation anxiety disorder (as well as from her other anxiety disorders). Her own fears of separation may well be affecting how she is raising her son and be contributing to his ongoing anxiety.

Suggested Readings

Bögels S, Phares V: Fathers' role in the etiology, prevention and treatment of child anxiety: a review and new model. Clin Psychol Rev 28(4):539–558, 2008

Kessler RC, Berglund P, Demler O, et al: Lifetime prevalence and age-of-onset distributions of DSM-IV disorders in the National Comorbidity Survey Replication. Arch Gen Psychiatry 62(6):593–602, 2005

Majdandzic M, de Vente W, Feinberg ME, et al: Bidirectional associations between coparenting relations and family member anxiety: a review and conceptual model. Clin Child Fam Psychol Rev 15(1):28–42, 2012

McLeod BD, Wood JJ, Weisz JR: Examining the association between parenting and childhood anxiety: a metaanalysis. Clin Psychol Rev 27(2):155–172, 2007

van der Bruggen CO, Stams GJM, Bögels SM: Research review: the relation between child and parent anxiety and parental control: a meta-analytic review. J Child Psychol Psychiatry 49(12):1257–1269, 2008

Case 5.2Panic

Carlo Faravelli, M.D.

Maria Greco was a 23-year-old single woman who was referred for psychiatric evaluation by her cardiologist. In the prior 2 months, she had presented to the emergency room four times for acute complaints of palpitations, shortness of breath, sweats, trembling, and the fear that she was about to die. Each of these events had a rapid onset. The symptoms peaked within minutes, leaving her scared, exhausted, and fully convinced that she had just

experienced a heart attack. Medical evaluations done right after these episodes yielded normal physical exam findings, vital signs, lab results, toxicology screens, and electrocardiograms.

The patient reported a total of five such attacks in the prior 3 months, with the panic occurring at work, at home, and while driving a car. She had developed a persistent fear of having other attacks, which led her to take many days off work and to avoid exercise, driving, and coffee. Her sleep quality declined, as did her mood. She avoided social relationships. She did not accept the reassurance offered to her by friends and physicians, believing that the medical workups were negative because they were performed after the resolution of the symptoms. She continued to suspect that something was wrong with her heart and that without an accurate diagnosis, she was going to die. When she had a panic attack while asleep in the middle of the night, she finally agreed to see a psychiatrist.

Ms. Greco denied a history of previous psychiatric disorders except for a history of anxiety during childhood that had been diagnosed as a "school phobia."

The patient's mother had committed suicide by overdose 4 years earlier in the context of a recurrent major depression. At the time of the evaluation, the patient was living with her father and two younger siblings. The patient had graduated from high school, was working as a telephone operator, and was not dating anyone. Her family and social histories were otherwise noncontributory.

On examination, the patient was an anxious-appearing, cooperative, coherent young woman. She denied depression but did appear worried and was preoccupied with ideas of having heart disease. She denied psychotic symptoms, confusion, and all suicidality. Her cognition was intact, insight was limited, and judgment was fair.

Diagnosis

Panic disorder

Discussion

Ms. Greco has panic attacks, which are abrupt surges of fear and/or discomfort that peak within minutes and are accompanied by physical and/or cognitive symptoms. In DSM-5, panic attacks are seen as a particular kind of fear response and are not found only in anxiety disorders. As such, panic is conceptualized in two ways within DSM-5. The first is as a "panic attack" specifier that can accompany any DSM-5 diagnosis. The second is as a panic disorder when the individual meets the more restrictive criteria for the disorder.

Ms. Greco appears to satisfy the multiple criteria required for panic disorder. First, her panic attacks are recurrent, and she more than meets the requirement for four of 13 panic symptoms: palpitations, sweating, trembling, smothering, chest pain, and a persistent fear of dying. The diagnosis also requires that the panic attacks affect the person between episodes. Not only does Ms. Greco constantly worry about having a heart attack (despite medical workups and frequent reassurance), she avoids situations and activities that might trigger another panic attack. These symptoms also have to last at least 1 month (Ms. Greco has been symptomatic for 2 months).

The diagnosis of panic disorder also requires an evaluation for the many other causes of panic. These include medications, medical illness, substances of abuse, and other mental disorders. According to the history, this 23-year-old woman takes no medications, has no medical illness, and denies use of substances of abuse. Her physical examinations, electrocardiograms, routine lab results, and toxicology screens are either normal or negative. It might be useful to ask Ms. Greco specifically about herbal and complementary medications, but it appears that her symptoms are psychiatric in origin.

Many psychiatric disorders are associated with panic, and Ms. Greco may have been primed for panic attacks by another condition. She reports a childhood history of anxiety and "social phobia," although those symptoms appear to have remitted. Her mother killed herself 4 years earlier in the context of a recurrent major depression. Details are unknown. Such a traumatic event would undoubtedly have some sort of effect on Ms. Greco. In fact, there would likely be two different traumas: the abrupt effects of the suicide and the more long-standing effects of having a chronically or recurrently depressed mother. Further exploration might focus on the psychosocial events leading up to these panic attacks.

For example, Ms. Greco's "school phobia" may have been a manifestation of undiagnosed separation anxiety disorder, and her recent panic may have developed in the setting of dating, sexual exploration, and/or a move away from her father and younger siblings. She does not present a pattern of panic in response to social anxiety or a specific phobia, but she also denies that her symptoms are psychiatric, and so may not recognize the link between her panic symptoms and another set of symptoms. It might be useful to assess Ms. Greco for anxiety

sensitivity, which is the tendency to view anxiety as harmful, and for "negative affectivity," which is the proneness to experience negative emotions. Both of these personality traits may be associated with the development of panic.

Because certain symptom clusters are often not recognized spontaneously by patients as either symptoms or clusters of symptoms, it would be useful to look more specifically for such disorders as posttraumatic stress disorder and obsessive-compulsive disorder. In addition, it might be helpful to explore the sequence of symptoms. For example, the patient's panic seems to have led to her worries about heart disease. If the illness worries *preceded* the panic, she might also have an illness anxiety disorder or somatic symptom disorder. Frequently comorbid with panic are depressive and bipolar disorders. Ms. Greco does have depressive symptoms, including insomnia and a preoccupation with death, but otherwise her symptoms do not appear to meet criteria for a depression diagnosis. Her symptoms would, however, need to be observed longitudinally. Not only does her mother's history of depression increase her risk for depression, but she may not be especially insightful into her own emotional states. It would also be useful to specifically look for symptoms of bipolar disorder. Mania and hypomania are often forgotten by patients or are not perceived as problematic, and a missed diagnosis could lead to inappropriate treatment and an exacerbation of bipolar symptoms. Furthermore, the development of panic appears to increase the risk of suicide.

Although more should be explored, Ms. Greco does appear to have a panic disorder. DSM-5 suggests the assessment of whether the panic is expected or unexpected. It appears that Ms. Greco's initial panic attacks occurred in situations that might have been seen as stressful, such as while driving and at work, and so may or may not have been expected. Her last episode happened while she was asleep, however, so her panic attacks would be classified as unexpected.

DSM-5 has delinked agoraphobia from panic disorder. They can be comorbid, but agoraphobia is now recognized as developing in a variety of situations. In Ms. Greco's case, her active avoidance of driving, exercise, and caffeine is better conceptualized as a behavioral complication of panic disorder rather than a symptom of agoraphobia. Accurate diagnosis and treatment are important to prevent her symptoms from becoming more severe and chronic.

Suggested Readings

Faravelli C, Gorini Amedei S, Scarpato MA, Faravelli L: Bipolar disorder: an impossible diagnosis. Clin Pract Epidemiol Ment Health 5:13, 2009

Goodwin RD, Lieb R, Hoefler M, et al: Panic attack as a risk factor for severe psychopathology. Am J Psychiatry 161(12):2207–2214, 2004

MacKinnon DF, Zandi PP, Cooper J, et al: Comorbid bipolar disorder and panic disorder in families with a high prevalence of bipolar disorder. Am J Psychiatry 159(1):30–35, 2002

Case 5.3Adolescent Shyness

Barbara L. Milrod, M.D.

Nadine was a 15-year-old girl whose mother brought her for a psychiatric evaluation to help with her long-standing shyness.

Although Nadine was initially reluctant to say much about herself, she said she felt constantly tense. She added that the anxiety had been "really bad" for several years and was often accompanied by episodes of dizziness and crying. She was generally unable to speak in any situation outside of her home or school classes. She refused to leave her house alone for fear of being forced to interact with someone. She was especially anxious around other teenagers, but she had also become "too nervous" to speak to adult neighbors she had known for years. She said it felt impossible to walk into a restaurant and order from "a stranger at the counter" for fear of being humiliated. She also felt constantly on her guard, needing to avoid the possibility of getting attacked, a strategy that really only worked when she was alone in her home.

Nadine tried to conceal her crippling anxiety from her parents, typically telling them that she "just didn't feel like" going out. Feeling trapped and incompetent, Nadine said she contemplated suicide "all the time."

Nadine had always been "shy" and had been teased at recess since she started kindergarten. The teasing had escalated to outright bullying by the time she was in seventh grade. For 2 years, day after difficult day, Nadine's peers turned on her "like a snarling wolf pack," calling her "stupid," "ugly," and "crazy." Not infrequently, one of them would stare at her and tell her she would be better off committing suicide. One girl (the ringleader, as well as a former elementary school chum) hit Nadine on one occasion, giving her a black eye. Nadine did not fight back. This event was witnessed by an adult neighbor, who told Nadine's mother. When Nadine's mother asked her about the incident, Nadine denied it, saying she had "fallen" on the street. She did, however, mention to her mother "in passing" that she wanted to switch schools, but her delivery was so offhand that at the time, her mother casually advised against the switch. Nadine suffered on, sobbing herself to sleep most nights.

Full of hope, Nadine transferred to a specialty arts high school for ninth grade. Although the bullying ceased, her anxiety symptoms worsened. She felt even more unable to venture into public spaces and felt increasingly embarrassed by her inability to develop the sort of independence typical of a 15-year-old. She said she had begun to spend whole weekends "trapped" in her home and had become scared to even read by herself in the local park. She had nightly nightmares about the bullies in her old school. Her preoccupation with suicide grew.

Her parents had thought she would outgrow being shy and sought psychiatric help for her only after a teacher remarked that her anxiety and social isolation were keeping her from making the sort of grades and doing the sort of extracurricular activities that were necessary to get into a good college.

Nadine described her mother as loud, excitable, aggressive, and "a little frightening." Her father was a successful tax attorney who worked long hours. Nadine described him as shy in social situations ("He's more like me"). Nadine said she and her father sometimes joked that the goal of the evening was to avoid tipping the mother into a rage. Nadine added that she "never wanted to be anything like her mother."

Diagnoses

- Social anxiety disorder (social phobia), severe
- Posttraumatic stress disorder, moderate
- Agoraphobia, severe

Discussion

Nadine appears to have an underlying shy temperament. Unfortunately, with sandbox logic, shy children are often picked on. If they never learn adequate ways to defend themselves, bullying can escalate, particularly during their middle and high school years. This pattern can lead these anxiety-prone and already high-risk adolescents to be traumatized by their peers. As seen in Nadine, the intensity of the anxiety symptoms and the social isolation can combine to increase the risk of suicidal thoughts and behaviors.

By the time Nadine saw a psychiatrist, her distress had persisted for years and she appears to have developed a cluster of three DSM-5 diagnoses that are frequently comorbid. First, she has marked and excessive anxiety about multiple social situations, including ones with her peers. These situations always invoke fears of embarrassment, and are almost always avoided. She meets symptomatic criteria, therefore, for social anxiety disorder (social phobia).

As is common among children and adolescents, Nadine's fears took on a life of their own after the bullying experience. She initially avoided anxiety-provoking social situations, which is an aspect of her social anxiety disorder. That anxiety gradually expanded and exploded, however, and she began to panic if she tried to even leave her house by herself. When she became persistently unable to even go alone to a nearby park, she would be said to have a second DSM-5 diagnosis, agoraphobia. Such expansion is so common among children and adolescents that contemporary treatment studies tend to focus interventions on a range of DSM-defined anxiety disorders rather than on a single disorder.

Nadine should also be considered for a third DSM-5 diagnosis: posttraumatic stress disorder (PTSD). She has experienced intense and prolonged bullying, which is quite traumatic, especially when the child is socially isolated and going through a vulnerable period of development. To meet DSM-5 criteria for PTSD, Nadine would need to manifest clinically significant symptoms for at least 1 month in four different areas: intrusion (the nightmares, which she reported nightly), avoidance (of peers), negative alterations of cognitions and mood (exaggerated and negative views about herself), and alterations in arousal and reactivity (always on her guard). Because some of these symptoms can also refer to Nadine's social phobia, clinical judgment is required to avoid overdiagnosing

PTSD. Nevertheless, it does appear that these two conditions are comorbid in Nadine. It is also important to explore the possibility that these anxiety symptoms might be attributable to a nonpsychiatric medical condition or to the use of medications or substances, but none of these appear to be involved in Nadine's case.

It is useful to recall, when evaluating the sort of adolescent trauma that Nadine experienced, that while other children are generally the bullies, teachers and administrators contribute to the problem by paying inadequate attention to schoolyard dynamics. This appears to be true in Nadine's case. In addition, Nadine's parents seem to have been able to ignore her desperate situation, until they became concerned about college admissions.

It is also useful to recognize that Nadine's mother is a loud, explosive woman whom Nadine has avoided "upsetting" since very early childhood. This tenuous mother-child relationship likely played a formative role in Nadine's shyness. Fear of her mother's explosions might have contributed to Nadine's persistent sense that she was not safe, for example, and might have prevented her from developing the tools that she needed to be successfully assertive. As the psychiatric evaluation evolves, it might be reasonable to discuss with Nadine the possibility that her failure to defend herself against the bullying might be related to her intense desire not to be anything like her loud and frightening mother.

Suggested Reading

Walkup JT, Albano AM, Piacentini J, et al: Cognitive behavioral therapy, sertraline, or a combination in childhood anxiety. N Engl J Med 359(26):2753–2766, 2008

Case 5.4Flying Fears

Katharina Meyerbröker, Ph.D.

Olaf Hendricks, a 51-year-old businessman, presented to an outpatient psychiatrist complaining of his inability to travel by plane. His only daughter had just delivered a baby, and although he desperately wanted to meet his first granddaughter, he felt unable to fly across the Atlantic Ocean to where his daughter lived.

The patient's anxiety about flying had begun 3 years earlier when he was on a plane that landed in the middle of an ice storm. He had last flown 2 years earlier, reporting that he had cried on takeoff and landing. He had gone with his wife to an airport one additional time, 1 year prior to the evaluation, to fly to his daughter's wedding. Despite having drunk a significant amount of alcohol, Mr. Hendricks had panicked and refused to board the airplane. After that failed effort, he tended to feel intense anxiety when he even considered the possibility of flying, and the anxiety had led him to decline a promotion at work and an external job offer because both would have involved business trips.

Mr. Hendricks described sadness and regret since realizing his limitation but denied other neurovegetative symptoms of depression. He had increased his alcohol consumption to three glasses of wine nightly in order to "unwind." He denied any history of alcohol complications or withdrawal symptoms. He also denied a family history of psychiatric problems.

He denied anxiety in other situations, indicating that his colleagues saw him as a forceful and successful businessman who could "easily" deliver speeches in front of hundreds of people. When specifically asked, he reported that as a child, he had been "petrified" that he might get attacked by a wild animal. This fear had led him to refuse to go on family camping trips or even on long hikes in the country. As an adult, he said that he had no worries about being attacked by wild animals because he lived in a large city and took vacations by train to other large urban areas.

Diagnoses

- Specific phobia, situational (flying on airplanes)
- Specific phobia, animals

Discussion

Mr. Hendricks has such intense anxiety about flying that he will not get on airplanes despite being intensely motivated to do so. Even the thought of airplanes and airports causes significant distress. This fear is persistent

and has caused significant functional impairment. He meets diagnostic criteria, therefore, for specific phobia. DSM-5 also includes specifiers to describe the phobia. In Mr. Hendricks's case, the phobic stimulus is flying, which would be coded as a "situational" specifier. (Other common situational stimuli include elevators and enclosed spaces.)

Most people with specific phobia fear more than one object or situation. Although Mr. Hendricks initially denies other anxieties, he does describe having had a highly distressing fear of being attacked by wild animals when he was younger. This fear led him to skip camping trips and hikes. He now lives in an urban environment where he is highly unlikely to come across a wild animal, but DSM-5 allows for a diagnosis of a specific phobia even when the phobic stimulus is not likely to be encountered. From a clinical perspective, uncovering such phobias is important because avoidance can not only cause fairly obvious distress and dysfunction (an inability to fly leading to an inability to visit family or optimally perform at work) but can also lead to life decisions that may not be completely conscious (a fear of wild animals leading to systematic avoidance of non-urban areas).

In addition to animals and situations, there are a number of other categories of phobic stimuli. These include the natural environment (e.g., heights, storms), blood-injection-injury (e.g., needles, invasive medical procedures), and other stimuli (e.g., loud sounds or costumed characters).

Specific phobia is most often comorbid with other anxiety disorders as well as depressive, substance use, somatic symptom, and personality disorders. Mr. Hendricks denies that his alcohol use is causing distress or dysfunction, so it does not appear to meet criteria for a DSM-5 disorder, but further exploration might indicate that his nightly drinking is causing problems with some aspect of his life. If it turns out that the flying phobia is a symptom of another disorder (e.g., one manifestation of agoraphobia), then the other disorder (the agoraphobia) would be the more accurate DSM-5 diagnosis. As it stands, however, Mr. Hendricks appears to have fairly classic specific phobia.

Suggested Readings

Emmelkamp PMG: Specific and social phobias in ICD-11. World Psychiatry 11 (suppl 1):93–98, 2012

LeBeau RT, Glenn D, Liao B, et al: Specific phobia: a review of DSM-IV specific phobia and preliminary recommendations for DSM-V. Depress Anxiety 27(2):148–167, 2010

Zimmerman M, Dalrymple K, Chelminski I, et al: Recognition of irrationality of fear and the diagnosis of social anxiety disorder and specific phobia in adults: implications for criteria revision in DSM-5. Depress Anxiety 27(11):1044–1049, 2010

Case 5.5Always on Edge

Ryan E. Lawrence, M.D., Deborah L. Cabaniss, M.D.

Peggy Isaac was a 41-year-old administrative assistant who was referred for an outpatient evaluation by her primary care physician with a chief complaint of "I'm always on edge." She lived alone and had never married or had children. She had never before seen a psychiatrist.

Ms. Isaac had lived with her longtime boyfriend until 8 months earlier, at which time he had abruptly ended the relationship to date a younger woman. Soon thereafter, Ms. Isaac began to agonize about routine tasks and the possibility of making mistakes at work. She felt uncharacteristically tense and fatigued. She had difficulty focusing. She also started to worry excessively about money and, to economize, she moved into a cheaper apartment in a less desirable neighborhood. She repeatedly sought reassurance from her office mates and her mother. No one seemed able to help, and she worried about being "too much of a burden."

During the 3 months prior to the evaluation, Ms. Isaac began to avoid going out at night, fearing that something bad would happen and she would be unable to summon help. More recently, she avoided going out in the daytime as well. She also felt "exposed and vulnerable" walking to the grocery store three blocks away, so she avoided shopping. After describing that she had figured out how to get her food delivered, she added, "It's ridiculous. I honestly feel something terrible is going to happen in one of the aisles and no one will help me, so I won't even go in." When in her apartment, she could often relax and enjoy a good book or movie.

Ms. Isaac said she had "always been a little nervous." Through much of kindergarten, she had cried inconsolably when her mother tried to drop her off. She reported seeing a counselor at age 10, during her parents' divorce, because "my mother thought I was too clingy." She added that she had never liked being alone, having had boyfriends constantly (occasionally overlapping) since age 16. She explained, "I hated being single, and I was always pretty, so I was never single for very long." Nevertheless, until the recent breakup, she said she had always thought of herself as "fine." She had been successful at work, jogged daily, maintained a solid network of friends, and had "no real complaints."

On initial interview, Ms. Isaac said she had been sad for a few weeks after her boyfriend left, but denied ever having felt worthless, guilty, hopeless, anhedonic, or suicidal. She said her weight was unchanged and her sleep was fine. She denied psychomotor changes. She did describe significant anxiety, with a Beck Anxiety Inventory score of 28, indicating severe anxiety.

Diagnosis

• Generalized anxiety disorder

Discussion

Ms. Isaac has become edgy, easily fatigued, and excessively worried during the 8 months since her boyfriend broke up with her. She has difficulty focusing. Her worries cause distress and dysfunction and lead her to repeatedly seek out reassurance. Although some of these symptoms could also be attributable to a depressive disorder, she lacks most other symptoms of a major depression. Instead, Ms. Isaac meets criteria for DSM-5 generalized anxiety disorder (GAD).

More acutely, Ms. Isaac has developed intense anxiety about leaving her apartment and entering the local supermarket. These symptoms suggest that Ms. Isaac may meet DSM-5 criteria for agoraphobia, which requires fears and avoidance of at least two different situations. Her agoraphobia symptoms have persisted only a few months, however, which is less than the 6-month DSM-5 requirement. Depending on whether the clinician thought the agoraphobia symptoms warranted clinical attention, Ms. Isaac could receive an additional diagnosis of "unspecified anxiety disorder (agoraphobia with inadequate duration of symptoms)."

In addition to making a DSM-5 diagnosis, it is also important to consider what might have precipitated Ms. Isaac's GAD. Although it is not possible to be certain why someone develops a mood or anxiety disorder, consideration of psychosocial stressors that are coincident with the onset of symptoms can help with formulation, goal setting, and treatment.

In this case, Ms. Isaac developed acute anxiety symptoms after her live-in boyfriend broke up with her and she moved into another apartment. Both of these events were acutely upsetting. The next part of answering "Why now?" involves thinking about how the stressors relate to long-standing issues in Ms. Isaac's life. She noted that she had "never [been] single for very long," and gave a history of difficulties with separation that began in childhood. Anxiety that is triggered by separation may suggest problems with attachment, and adult attachment styles are thought to be linked to the individual's earliest relationships. Those with secure attachments are able to form intimate relationships with others but are also able to soothe and regulate themselves when alone.

Individuals with insecure attachments, on the other hand, may cling to loved ones, be unable to self-regulate when alone, and have ambivalent feelings about those upon whom they are dependent. Thinking in this way, one can hypothesize that Ms. Isaac may have become symptomatic because of an insecure attachment style linked to her earliest relationship with her mother.

Clues that this may be the case include her mother's feeling that Ms. Isaac was "too clingy" during the divorce and Ms. Isaac's ambivalent feelings about her mother's efforts to be supportive. It would be helpful to understand more about Ms. Isaac's earliest relationships and the sorts of problematic attachment patterns that have developed during her romantic relationships. Such patterns would likely be recapitulated in the therapeutic relationship, where they could become a focus of treatment.

Suggested Readings

Blanco C, Rubio JM, Wall M, et al: The latent structure and comorbidity patterns of generalized anxiety disorder and major depressive disorder: a national study. Depress Anxiety June 14, 2013 [Epub ahead of print]

Stein DJ, Hollander E, Rothbaum BO (eds): Textbook of Anxiety Disorders, 2nd Edition. Washington, DC, American Psychiatric Publishing, 2009

Case 5.6Anxiety and Cirrhosis

Andrea DiMartini, M.D., Catherine Crone, M.D.

A psychiatric transplant liaison service was called to evaluate Robert Jennings, a 50-year-old married white man, for orthotopic liver transplant in the context of alcohol dependence, advanced cirrhosis, and no other prior psychiatric history. Several weeks earlier, he had been hospitalized with acute alcoholic hepatitis and diagnosed with end-stage liver disease. Prednisolone 40 mg/day was prescribed for treatment of his alcoholic hepatitis. Prior to that hospitalization, he had been unaware that his alcohol consumption was seriously damaging his health and was shocked to learn he would eventually require a liver transplant. Upon discharge, he began an addiction treatment program that was mandatory for him to be listed for possible transplantation.

Outpatient psychiatric consultation was requested by the transplant team after the patient's family expressed concern that he had recently become increasingly irritable and anxious and seemed to be having difficulty coping with the requirements for transplantation. Mr. Jennings's primary care physician had recently prescribed alprazolam 0.5 mg as needed for his anxiety. This was initially helpful, but after several days his family noticed he seemed more irritable, lethargic, and forgetful.

When interviewed, the patient said that he had been tired for months prior to the diagnosis and that the fatigue had hampered his ability to work making deliveries for a shipping firm. Although the diagnosis had been a shock, he said he had felt "great" when he first left the hospital, with enhanced energy and sense of well-being. About 1 week after discharge, however, he began to feel anxious and restless. He could not concentrate or sleep well and worried constantly about his health, finances, and family. He became less engaged with his family and stopped watching movies, normally enjoyable activities.

He denied having nightmares, flashbacks, avoidant behaviors, or racing thoughts. He also denied low mood, tearfulness, appetite changes, anhedonia, helplessness, hopelessness, or suicidality. He admitted feeling occasionally guilty over his alcohol use and its impact on him and his family. He denied using any alcohol since his hospitalization. He admitted to anger over having to undergo addiction counseling and had argued with the transplant team about this requirement. In the past, he had considered himself able to handle most of life's challenges without being overwhelmed. His family confirmed his description of himself and viewed his recent behavior as uncharacteristic.

On mental status examination, Mr. Jennings was a thin, tired-appearing, slightly jaundiced man. His gait was normal, but he was fidgety while seated. He maintained eye contact and responded appropriately, although he repeatedly made comments like, "Something isn't right" and "It's not all in my head." His affect was anxious and irritable, and his speech was terse. He appeared distracted but denied confusion and disorientation. He had no delusions or hallucinations. His thoughts were logical and coherent, without disorganization, and there was no latency to his responses. He scored 26 out of 30 on the Mini-Mental State Examination (MMSE), missing points for recall and serial 7s. He scored in the normal range for Trail Making Tests A and B but asked to have the instructions repeated for Trails B.

Diagnoses

- Alcohol use disorder
- Medication-induced anxiety disorder (steroids)

Discussion

Mr. Jennings has been fatigued for several months. Diagnosis and treatment of his hepatic cirrhosis were followed by a weeklong burst of euphoria, followed by anxiety, depression, irritability, cognitive disturbances, and insomnia. The evaluating team would look broadly for causes of Mr. Jennings's psychiatric complaints, but the initial search would focus on medical causes. Liver disease rarely induces anxiety directly, but steroid therapy frequently induces an initial sense of well-being, followed within 1–2 weeks by more negative or unpleasant symptoms of mood or anxiety disturbance.

Other diagnoses should also be considered. Fatigue, difficulty concentrating, and a reduction in pleasurable activities point to the possibility of major depressive disorder, for example, although some of these symptoms

could be attributable to progressive physical limitations from his advanced liver disease. Utilizing a broad or "inclusive" approach to the diagnosis of depression in medically ill patients might suggest that these symptoms be counted under the DSM-5 diagnostic criteria for major depressive disorder despite their potential physical origin. However, further review of the patient's presentation indicated no problems with persistent low mood, tearfulness, or other associated depressive symptoms (e.g., anhedonia, persistent insomnia, appetite changes, inappropriate thoughts of guilt, or recurrent thoughts of death or suicide). Major depression would seem unlikely.

Anxiety disorders such as generalized anxiety disorder and panic disorder should also be considered. The patient's symptoms seem directly related to the steroids, however, and the symptoms lack the duration to qualify for one of the other anxiety disorders.

Illness, treatments, and potentially life-threatening circumstances can lead to acute stress disorder, adjustment disorder, and posttraumatic stress disorder. This particular patient does not, however, appear to fulfill criteria for a trauma disorder. Furthermore, it is of note that he initially felt well despite his diagnosis and only later developed changes in his mood and behavior. This pattern would not rule out a trauma diagnosis but reduces the likelihood.

An additionally important diagnostic area to consider is Mr. Jennings's dependence on alcohol. Early in abstinence, patients often experience symptoms of anxiety, irritability, and depression. These symptoms contribute to the high rates of relapse following alcohol rehabilitation. Even in the context of life-threatening illness and the need for transplantation, a significant number of individuals will relapse. This particular patient has also started taking benzodiazepines, which can produce cravings and precipitate relapse. This patient is denying alcohol use, but he is on a transplant list, and a relapse could lead to a delisting. To monitor unrevealed alcohol use, it would be warranted to monitor him by ongoing interviews and random toxicology screenings.

Mr. Jennings's current presentation could also be related to a neurocognitive disorder. Patients with advanced liver disease frequently have problems with minimal hepatic encephalopathy, a phenomenon that is characterized by subtle but important changes in both physical and mental functioning. Compared with hepatic encephalopathy (DSM-5 delirium due to another medical condition), minimal hepatic encephalopathy does not present with disturbance of consciousness or with overt behavioral or cognitive functioning changes. Rather, patients may present with mild personality or behavioral changes such as irritability, excessive fatigue, or sleepiness, along with subtle subcortical cognitive impairment or slowing. Impairments in psychomotor speed, visual attention, and perception are typically not evident with basic screening such as the MMSE but require specific psychometric testing that would elicit these deficits (e.g., Trail Making Tests A and B, Digit Span, finger-tapping speed).

Identifying minimal hepatic encephalopathy is important because patients with this diagnosis typically do not improve with the use of antidepressants or anxiolytics but instead require treatment with ammonia-reducing agents. The combination of minimal hepatic encephalopathy and slower hepatic metabolism makes patients more sensitive to adverse drug side effects (e.g., cognitive slowing from benzodiazepines, sedatives, pain medications, or anticholinergic medications). In Mr. Jennings's case, the worsening of symptoms may have resulted from the use of a benzodiazepine. These patients need to avoid medications that may worsen cognitive functioning, and they should also be monitored for development of overt hepatic encephalopathy. Because cognitive difficulties that accompany minimal hepatic encephalopathy are known to impair daily functioning and skills such as driving, this patient may need to be counseled on whether he can or should continue to drive (which would have significant implications for his work as a deliveryman). After discontinuing the alprazolam and receiving treatment for high ammonia levels (if present), he could be retested to establish his cognitive baseline.

Suggested Readings

DiMartini A, Crone C, Fireman M, Dew MA: Psychiatric aspects of organ transplantation in critical care. Crit Care Clin 24(4):949–981, 2008

DiMartini A, Dew MA, Crone C: Organ transplantation, in Kaplan & Sadock's Comprehensive Textbook of Psychiatry, 9th Edition, Vol 2. Edited by Sadock B, Sadock VA, Ruiz P. Philadelphia, PA, Lippincott Williams & Wilkins, 2009, pp 2441–2456

Dubovsky AN, Arvikar S, Stern TA, Axelrod L: The neuropsychiatric complications of glucocorticoid use: steroid psychosis revisited. Psychosomatics 53(2):103–115, 2012

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Introduction

John W. Barnhill, M.D.

DSM-5 has created a new chapter for a cluster of disorders that involve obsessional thoughts and/or compulsive behaviors. These include obsessive-compulsive disorder (OCD), body dysmorphic disorder (BDD), hoarding disorder, trichotillomania (hair-pulling disorder), and excoriation (skin-picking) disorder. As is true throughout much of DSM-5, there are also categories for patients whose symptoms are secondary to medications or substances, are due to another medical condition, or do not quite meet criteria for one of the named disorders.

Although OCD has been moved out of the anxiety disorders chapter in DSM-5, the core criteria for OCD are relatively unchanged. Several specifiers have been developed to clarify subsets of the broader category. For example, the "insight" specifier separates patients with good or fair insight from those with poor insight or with absent insight/delusional beliefs. DSM-5 also includes a "tic-related" specifier for OCD. Assessment of insight and tics are clinically relevant not only because they appear to differentiate subpopulations of OCD patients, the identification of subgroups can significantly guide treatment.

Body dysmorphic disorder was moved into this new chapter after having previously been classified among a cluster of disorders that are currently discussed in the DSM-5 somatic symptom and related disorders chapter. Although people with BDD do have somatic concerns, they tend not to share comorbidities, family histories, and other characteristics with people who are diagnosed with one of the somatic symptom disorders. Like OCD, BDD has an "insight" specifier. Those people who are delusionally convinced that their BDD beliefs are true would not be coded as having a comorbid psychotic disorder (e.g., delusional disorder) but would instead be noted to have BDD with absent insight.

Hair pulling and skin picking are the most common body-focused repetitive behavior disorders. Hair-pulling disorder, or trichotillomania, was previously listed among the impulse-control disorders not elsewhere classified, along with such disorders as pyromania and intermittent explosive disorder, whereas skin-picking disorder, or excoriation disorder, is new in DSM-5. Both involve the sort of persistent, repetitive dysfunctional behaviors that characterize the obsessive-compulsive and related disorders.

Hoarding disorder is also new in DSM-5. It was previously listed only as a possible criterion for obsessivecompulsive personality disorder, but evidence indicates that dysfunctional hoarding often exists without an accompanying diagnosis that would account for the behavior.

OCD was previously included among the anxiety disorders, which are now discussed in the immediately preceding chapter of DSM-5. Anxiety can be a prominent feature in all of the obsessive-compulsive and related disorders, and comorbid anxiety disorders are common. Although comorbid anxiety should also be addressed, creation of a separate DSM-5 category may increase the recognition of an underdiagnosed cluster of disorders that warrant clinical attention.

Suggested Readings

Grant JE, Odlaug BL, Chamberlain SR, et al: Skin picking disorder. Am J Psychiatry 169(11):1143-1149, 2012

Hollander E, Zohar J, Sirovatka PJ, Regier DA (eds): Obsessive-Compulsive Spectrum Disorders: Refining the Research Agenda for DSM-V. Arlington, VA, American Psychiatric Association, 2011

Phillips KA: Understanding Body Dysmorphic Disorder: An Essential Guide. Oxford, UK, Oxford University Press, 2009

Stein DJ, Fineberg NA, Bienvenu OJ: Should OCD be classified as an anxiety disorder in DSM-V? Depress Anxiety 27(6):495–506, 2010

Case 6.1Depression

Mayumi Okuda, M.D., Helen Blair Simpson, M.D., Ph.D.

Samuel King, a 52-year-old never-married janitor, presented for treatment of depression. He had been struggling with depressive symptoms for years and had tried fluoxetine, citalopram, and supportive psychotherapy, with minor improvement. He worked full-time but engaged in very few activities outside of work.

When asked how he felt, Mr. King said that his mood was low, he was unable to enjoy things, and he had insomnia, feelings of hopelessness, low energy, and difficulty concentrating and making decisions. He denied current suicidality but added that several months earlier, he had stared at subway tracks and considered jumping. He reported drinking alcohol occasionally but denied using illicit drugs.

When asked about anxiety, Mr. King said he was worried about contracting diseases such as HIV. Aware of an unusually strong disinfectant smell, the interviewer asked Mr. King if he had any particular cleaning behaviors related to the HIV concern. Mr. King paused and clarified that he avoided touching practically anything outside of his home. When further encouraged, Mr. King said that if he even came close to things that he considered potentially contaminated, he had to wash his hands incessantly with household bleach. On average, he washed his hands up to 30 times a day, spending hours on this routine. Physical contact was particularly difficult. Shopping for groceries and taking public transportation were a big problem, and he had almost given up trying to socialize or engage in romantic relationships.

When asked if he had other worries, Mr. King said that he had intrusive images of hitting someone, fears that he would say things that might be offensive or inaccurate, and concerns about disturbing his neighbors. To counteract the anxiety produced by these images and thoughts, he constantly replayed prior conversations in his mind, kept diaries to record what he said, and often apologized for fear he might have sounded offensive. When he showered, he made sure that the water in the tub only reached a certain level for fear that if he were not attentive, he would flood his neighbors.

He used gloves at work and performed well. He had no medical problems. He spent most of his free time at home. Although he enjoyed the company of others, the fear of having to touch something if he was invited to a meal or to another person's home was too much for him to handle.

The examination revealed a casually dressed man who smelled strongly of bleach. He was worried and constricted but cooperative, coherent, and goal directed. He denied hallucinations and other strongly held ideas. He denied a current intention to hurt himself or others. He was cognitively intact. He recognized that his fears and urges were "kinda crazy," but he felt they were out of his control.

Diagnoses

- Obsessive-compulsive disorder, with good or fair insight
- Major depressive disorder

Discussion

Mr. King has prominent depressive symptoms as well as obsessions and compulsions. He reports dysphoria, anhedonia, insomnia, hopelessness, anergia, difficulty concentrating, and recent suicidality. These symptoms have persisted much longer than the required 2 weeks, have affected the quality of his life, and do not appear to have been precipitated by substance use or a medical problem. He clearly warrants a major depression diagnosis.

Evaluation for obsessive-compulsive disorder (OCD) can be less straightforward. Mr. King discussed both his obsessions and compulsions in a first session, but many patients are less spontaneously revealing. For that reason, an assessment for possible OCD requires specific, tactful questions that can allow people with varying levels of insight to discuss thoughts, feelings, and behaviors that can be embarrassing and private.

DSM-5 defines obsessions as having two related qualities: First, they are recurrent, persistent thoughts, urges, or images that are intrusive and unwanted and generally induce anxiety or distress. Second, the individual tries to ignore, suppress, or neutralize these symptoms through some other thought or action (i.e., by performing a compulsion).

Mr. King reports multiple obsessions. These include obsessions related to contamination (fear of contracting HIV), aggression (intrusive images of hitting someone), scrupulosity (fear of sounding offensive or inaccurate), and symmetry (exactness in the level of water). Attempts to ignore or suppress the thoughts, urges, or images can take the form of avoidance and lead to significant disability. This is certainly true for Mr. King, who spends hours on his OCD routines and avoids leaving his apartment, engaging in social relationships, and performing the most basic of errands.

DSM-5 has made several minor changes to the description of obsessions. For example, the term *urge* is used instead of *inappropriate* to avoid confusion with impulse-control disorders. DSM-5 also uses the term *unwanted* instead of *inappropriate* to reflect the reality that people with OCD view their symptoms with varying degrees of ego-dystonicity. Finally, although obsessions are noted to *generally* cause anxiety or distress, research indicates that not all obsessions result in significant anxiety or distress.

Mr. King also has a number of compulsions. Compulsions are defined as repetitive behaviors (e.g., hand washing) or mental acts (e.g., counting) that the individual feels driven to perform in response to an obsession, or according to rules that must be rigidly applied. These behaviors or mental acts must be aimed at reducing distress or preventing some dreaded event, but they should also be either excessive or realistically unconnected to the anticipated event. He reports multiple compulsions: excessive hand washing, checking (keeping diaries), repeating (clarifying what he said repeatedly), and mental compulsions (replaying prior conversations in his mind).

As is seen for disorders throughout DSM-5, OCD requires that symptoms cause distress or impairment. Typically, OCD is time-consuming (1 hour per day is a guideline) and causes distress and impairment in multiple spheres of the patient's life. Even though Mr. King is able to work, his choice of occupation might have been influenced by his OCD symptoms (few other jobs allow the constant wearing of gloves and frequent use of bleach). Not only are his symptoms time-consuming, but he appears to be a lonely, isolated man whose life has been significantly ravaged by his OCD.

It is important to explore whether OCD symptoms can be attributable to a substance, medication, a medical condition, or a comorbid psychiatric condition. From the history, it appears that Mr. King takes no medications, abuses no substances, has no medical illness, and lacks actual physical complaints; these would, therefore, be unlikely causes.

Recurrent thoughts and repetitive behavior can be found in a variety of other psychiatric diagnoses. To exclude these other diagnoses, the clinician should ask the patient a series of very specific questions. For example, recurrent thoughts, avoidant behaviors, and repetitive requests for reassurance can also occur in anxiety disorders (e.g., generalized anxiety disorder, social anxiety disorder). The obsessions of OCD must also be distinguished from the rumination of major depressive disorder, in which thoughts are usually mood congruent and not necessarily experienced as intrusive or distressing. When OCD is identified, it is useful to specifically explore the possibility of OCD-related disorders (e.g., body dysmorphic disorder, hoarding disorder), which can present similarly to OCD and can also be comorbid.

In an effort to subcategorize OCD symptoms, DSM-5 lists two specifiers. The first identifies those OCD patients who also have a past or current history of a tic disorder; data suggest that OCD patients with a history of tic disorders may have a different clinical course and response to treatments than OCD patients without a history of tics.

A second DSM-5 specifier relates to insight, which varies significantly among different people with OCD. The three insight specifiers are good or fair; poor; and absent. Mr. King appears to understand that his obsessional beliefs are untrue and so would fall into the most insightful category. Those who are completely convinced of the validity of their OCD beliefs would previously have been viewed as delusional, but DSM-5 integrates them into the OCD diagnosis with the specifier of "absent insight/delusional beliefs."

Suggested Readings

Hollander E, Zohar J, Sirovatka, Regier DA (eds): Obsessive-Compulsive Spectrum Disorders: Refining the Research Agenda for DSM-V. Arlington, VA, American Psychiatric Association, 2011

Leckman JF, Denys D, Simpson HB, et al: Obsessive-compulsive disorder: a review of the diagnostic criteria and possible subtype and dimensional specifiers for DSM-5. Depress Anxiety 27(6):507–527, 2010

Case 6.2Germs

Dan J. Stein, M.D., Ph.D., Helen Blair Simpson, M.D., Ph.D., Katharine A. Phillips, M.D.

Trevor Lewis, a 32-year-old single man living with his parents, was brought to his psychiatric consultation by his mother. She noted that since adolescence he had been concerned with germs, which led to long-standing hand-washing and showering rituals. During the prior 6 months, his symptoms had markedly worsened. He had become preoccupied with being infected by HIV and spent the day cleaning not only his body but all of his clothing and linen. He had begun to insist that the family also wash their clothing and linen regularly, and this had led to the current consultation.

Mr. Lewis had in the past received a selective serotonin reuptake inhibitor and cognitive-behavioral therapy for his symptoms. These had had some positive effect, and he had been able to complete high school successfully. Nevertheless, his symptoms had prevented him from completing college or working outside the home; he had long felt that home was relatively germ-free in comparison to the outside world. However, over the past 6 months he had increasingly indicated that home, too, was contaminated, including with HIV.

At the time of presentation, Mr. Lewis had no other obsessive-compulsive and related disorder symptoms such as sexual, religious, or other obsessions; appearance or acquisition preoccupations; or body-focused repetitive behaviors. However, in the past he had also experienced obsessions concerning harm to self and others, together with related checking compulsions (e.g., checking that the stove was switched off). He had a childhood history of motor tics. During high school, he found that marijuana reduced his anxiety. Referencing his social isolation, he denied having had access to marijuana or any other psychoactive substance for at least a decade.

On mental status examination, Mr. Lewis appeared disheveled and unkempt. He was completely convinced that HIV had contaminated his home and that his washing and cleaning were necessary to stay uninfected. When challenged with the information that HIV was spread only by bodily fluids, he answered that HIV might have come into the home via the sweat or saliva of visitors. In any event, the virus might well be surviving on clothes or linen, and could enter his body via his mouth, eyes, or other orifices. He added that his parents had tried to convince him that he was excessively worried, but not only did he not believe them but his worries kept returning even when he tried to think of something else. There was no evidence of hallucinations or of formal thought disorder. He denied an intention to harm or kill himself or others. He was cognitively intact.

Diagnosis

• Obsessive-compulsive disorder, tic related, with absent insight

Discussion

Mr. Lewis is completely convinced that his home is contaminated by HIV. He is unable to suppress these preoccupying, intrusive thoughts. He feels obliged to perform unreasonable behaviors in response to his excessive worries. These behaviors consume his day and are socially and occupationally debilitating. He meets the symptomatic criteria for DSM-5 obsessive-compulsive disorder (OCD). Contamination and cleanliness concerns, with subsequent washing and cleaning rituals, are a common symptom dimension in OCD.

DSM-5 also lists two specifiers for OCD. The new tic-related OCD specifier is based on a growing literature indicating that individuals with OCD and current or past tics have particular distinguishing features, and that the presence or absence of tics helps guide assessment and intervention. Mr. Lewis had a history of motor tics in childhood. DSM-5 also recommends an assessment of insight, particularly specifying whether the individual with OCD has good or fair insight, poor insight, or absent insight/delusional beliefs. The "absent insight/delusional beliefs" specifier is provided not only for OCD, but also for body dysmorphic disorder and hoarding disorder, and appears to be a valid, clinically useful distinguishing feature.

Obsessive thoughts and compulsive behaviors are found in other psychiatric disorders. Patients with DSM-5 illness anxiety disorder (IAD) are preoccupied with having or acquiring a serious illness, and may perform excessive related behaviors, such as seeking reassurance. Mr. Lewis is worried about getting HIV, which might prompt the consideration that he has IAD. His cleaning compulsions and checking are more characteristic of OCD, however, and he lacks the somatic symptoms, other health-related concerns, and checking of the body for signs of illness that are commonly found in IAD. Similarly, although patients with generalized anxiety disorder can have worries about their own or others' health, they also have other kinds of worries, and they do not have compulsions.

Patients with delusional disorder do not have the obsessions, compulsions, preoccupations, or other characteristic symptoms of obsessive-compulsive and related disorders. Conversely, patients with obsessive-compulsive and related disorders with absent insight/delusional beliefs may appear delusional but do not have other features of psychotic disorders, such as hallucinations or formal thought disorder. Although substance use may be associated with psychotic symptoms, in the current case there was no apparent temporal link between substance use and symptom onset. Mr. Lewis also lacks a history suggestive of a relevant medical disorder.

It would be useful to have a more detailed picture of the nature and severity of Mr. Lewis's OCD symptoms, including avoidance and functional impairment. Mr. Lewis was noted to be disheveled and unkempt, for example, which might seem odd for someone with prominent cleanliness concerns. His appearance might be explained, however, if his contamination rituals are so time-consuming that he avoids starting them.

Although Mr. Lewis's diagnosis appears clear, it can be helpful to make use of one of the symptom severity scales designed for OCD, such as the Yale-Brown Obsessive Compulsive Scale, or a scale to measure insight/delusionality, such as the Brown Assessment of Beliefs Scale.

Suggested Readings

du Toit PL, van Kradenburg J, Niehaus D, Stein DJ: Comparison of obsessive-compulsive disorder patients with and without comorbid putative obsessive-compulsive spectrum disorders using a structured clinical interview. Compr Psychiatry 42(4):291–300, 2001

Eisen JL, Phillips KA, Baer L, et al: The Brown Assessment of Beliefs Scale: reliability and validity. Am J Psychiatry 155(1):102–108, 1998

Goodman WK, Price LH, Rasmussen SA, et al: The Yale-Brown Obsessive Compulsive Scale, I: development, use, and reliability. Arch Gen Psychiatry 46(11):1006–1011 1989

Leckman JF, Denys D, Simpson HB, et al: Obsessive-compulsive disorder: a review of the diagnostic criteria and possible subtypes and dimensional specifiers for DSM-V. Depress Anxiety 27(6):507–527, 2010

Case 6.3Appearance Preoccupations

Katharine A. Phillips, M.D.

Vincent Mancini, a 26-year-old single white man, was brought for an outpatient evaluation by his parents because they were distressed by his symptoms. Since age 13, he had been excessively preoccupied with his "scarred" skin, "thinning" hair, "asymmetrical" ears, and "wimpy" and "inadequately muscular" body build. Although he looked normal, Mr. Mancini was completely convinced that he looked "ugly and hideous," and he believed that other people talked about him and made fun of him because of his appearance.

Mr. Mancini spent 5–6 hours a day compulsively checking his disliked body areas in mirrors and other reflecting surfaces such as windows, excessively styling his hair "to create an illusion of fullness," pulling on his ears to try to "even them up," and comparing his appearance with that of others. He compulsively picked his skin, sometimes using razor blades, to try to "clear it up." He lifted weights daily and regularly wore several layers of T-shirts to look bigger. He almost always wore a cap to hide his hair. He had received dermatological treatment for his skin concerns but felt it had not helped.

Mr. Mancini missed several months of high school because he was too preoccupied to do schoolwork, felt compelled to leave class to check mirrors, and was too self-conscious to be seen by others; for these reasons he was unable to attend college. He became socially withdrawn and did not date "because no girl would want to go out with someone as ugly as me." He often considered suicide because he felt that life was not worth living "if I look like a freak" and because he felt isolated and ostracized because of his "ugliness." His parents expressed concern over his "violent outbursts," which occurred when he was feeling especially angry and distressed over how he looked or when they tried to pull him away from the mirror.

Mr. Mancini reported depressed mood, anhedonia, worthlessness, poor concentration, and suicidal ideation, all of which he attributed to his appearance concerns. To self-medicate for his distress over his appearance, he drank

alcohol and smoked marijuana. He used protein powder to "build up muscle" but denied use of anabolic steroids or other performance-enhancing drugs and all substances of abuse. He had distressing and problematic anxiety in social situations during his late teens that he attributed to feeling "stupid," but he denied recent social anxiety.

Mr. Mancini had no significant medical history and was taking no medication. His mother had obsessive-compulsive disorder (OCD).

Mr. Mancini was neatly dressed and groomed and wore a baseball cap. He had no obvious physical defects. His eye contact was poor. He was oriented and grossly cognitively intact. His affect was irritable; his mood was depressed, with passive suicidal ideation. He had no psychomotor abnormalities; his speech was normal. He was completely convinced that he was ugly but had no other psychotic symptoms. He believed his appearance "defects" were real and not attributable to a psychiatric disorder.

Diagnosis

Body dysmorphic disorder, with absent insight/delusional beliefs, with muscle dysmorphia

Discussion

Mr. Mancini is preoccupied with perceived defects or flaws in his appearance that are not observable or appear slight to others. The preoccupation causes clinically significant distress and functional impairment. According to DSM-5, he has body dysmorphic disorder (BDD).

BDD is common and affects slightly more females than males. About two-thirds of cases have onset in childhood or adolescence. BDD can involve any body area (often the face or head) and usually involves multiple areas. Preoccupations occur, on average, for 3–8 hours a day. Over the disorder's course, all individuals perform repetitive behaviors or mental acts (e.g., comparing) intended to fix, check, hide, or obtain reassurance about perceived defects. Skin picking, intended to improve perceived skin defects, is a common BDD symptom. In such cases, BDD is diagnosed rather than excoriation (skin-picking) disorder.

The appearance preoccupations usually cause functional impairment, which is often marked. Approximately 80% of BDD patients have lifetime suicidal ideation, which is often attributed to BDD, and a quarter or more attempt suicide. Available data, although limited, suggest a markedly elevated suicide rate. Aggressive or violent behavior can occur as a symptom of BDD.

BDD's diagnostic criteria include specifiers indicating degree of insight regarding BDD beliefs: with good or fair insight, with poor insight, and with absent insight/delusional beliefs. Mr. Mancini has absent insight/delusional beliefs because he is completely convinced that he looks ugly. Poor insight is common, and about one-third of individuals diagnosed with BDD have delusional beliefs. Those with delusional BDD beliefs should be diagnosed with BDD rather than a psychotic disorder. Mr. Mancini has BDD-specific ideas and delusions of reference, which occur in a majority of individuals with BDD. Other psychotic symptoms typically do not occur as symptoms of BDD.

The diagnostic criteria for BDD also include a specifier for muscle dysmorphia, consisting of preoccupation with the idea that one's body build is too small or insufficiently muscular. This specifier is used even if the person is preoccupied with other body areas. Thus, Mr. Mancini's diagnosis includes this specifier. Muscle dysmorphia is considered a form of BDD rather than an eating disorder, because it meets diagnostic criteria for BDD and not all individuals with muscle dysmorphia have abnormal eating behavior.

BDD shares preoccupations, obsessions, and repetitive behaviors with OCD, but BDD specifically involves perceived appearance flaws. Symmetry preoccupation, which may be an OCD symptom, should be considered a BDD symptom when it involves physical appearance, as in Mr. Mancini's case. BDD and OCD appear to be related—and Mr. Mancini's mother is noted to have OCD—but they have differences. These include poorer insight and greater suicidality in BDD and possibly greater comorbidity of BDD with major depressive disorder and substance-related disorders.

Major depressive disorder is the most common comorbid disorder, often developing secondary to the distress and impairment caused by BDD. BDD should be diagnosed in depressed individuals if diagnostic criteria for BDD are met.

When social anxiety and avoidance are attributable to preoccupation with perceived appearance defects, BDD should be diagnosed rather than social anxiety disorder (social phobia). Social anxiety and avoidance are nearly universal in BDD and are due to these individuals' beliefs or fear that they will be considered ugly, ridiculed, or rejected because of their physical features. However, comorbid social anxiety disorder does occur in more than

one-third of individuals with BDD. Mr. Mancini was diagnosed with past social anxiety disorder because he had social anxiety in high school that was not attributable to his appearance concerns. Additional history might indicate current social anxiety disorder as well.

Substance use disorders occur in a substantial proportion of individuals with BDD, often as the result of the distress caused by BDD. Mr. Mancini admitted use of both marijuana and alcohol, although it is not clear whether their use reaches criteria for substance use disorder. About 20% of people with muscle dysmorphia abuse anabolicandrogenic steroids, which may have dangerous physical and psychological effects. Mr. Mancini denied abuse, but his "violent outbursts" could reflect steroid use that he declined to mention during his initial evaluation.

Suggested Readings

Phillips KA, Stein DJ, Rauch SL, et al: Should an obsessive-compulsive spectrum grouping of disorders be included in DSM-V? Depress Anxiety 27(6):528–555, 2010

Phillips KA, Wilhelm S, Koran LM, et al: Body dysmorphic disorder: some key issues for DSM-V. Depress Anxiety 27(6):573–591, 2010

Case 6.4Depression and Anxiety

David Mataix-Cols, Ph.D., Lorena Fernández de la Cruz, Ph.D.

Wendy Nichols was a 47-year-old single white woman referred to a community mental health team for the management of a mixed presentation of low mood and generalized anxiety. She had never taken any psychiatric medication but had completed a course of cognitive-behavioral therapy for a previous depressive episode 5 years earlier.

Ms. Nichols's medical history was unremarkable. She lived alone in a two-bedroom apartment and had no family or friends nearby. She had a university degree and worked as a part-time sales assistant in a charity thrift shop. She said she had dated in college but had "somehow been too busy" in recent years.

On initial examination, she was an articulate, well-dressed woman who was coherent and cooperative. She was clearly in a low mood. She complained about poor concentration and difficulties getting organized. She denied any substance misuse.

The clinician noted that Ms. Nichols's purse was filled with bills and other papers. When asked, the patient initially shrugged it off, indicating that she "carried around my office." When the interviewer inquired further, it emerged that Ms. Nichols had had difficulty discarding important business papers, newspapers, and magazines for as long as she could remember. She felt that it all started when her mother got rid of her old toys when she was age 12. Now, many years later, Ms. Nichols's apartment had become filled with books, stationery, crafts, plastic packages, cardboard boxes, and all sorts of other things. She said she knew it was a little crazy, but these items could be handy one day. She said, "Waste not, want not." She also reported that many of her possessions were beautiful, unique, and irreplaceable, or had strong sentimental value. The thought of discarding any of these possessions caused her great distress.

Over a series of interviews, the clinician developed a clearer understanding of the extent of the problem. Rooms in Ms. Nichols's apartment had begun to fill when she was in her early 30s, and by the time of the interview, she had little room to live. Her kitchen was almost entirely full, so she used a mini fridge and a toaster oven that she had wedged into piles of paper in the hallway. She ate her meals in the only available chair. At night, she moved a pile of papers from the bed onto that chair so she could sleep. Ms. Nichols continued to buy from the charity thrift store where she worked and also picked up daily free newspapers that she planned to read in the future.

Embarrassed by the condition of her apartment, she had told no one about her behavior and had invited no one into her apartment for at least 15 years. She also avoided social functions and dating, because—despite being naturally sociable and very lonely—she knew she would be unable to reciprocate with invitations to her home. She was surprised to have told the clinician, because she had not told even her own mother, but she would like help. She declined the clinician's offer of a home visit but did offer some photographs from her telephone's camera. The photographs showed furniture, papers, boxes, and clothes piled from floor to ceiling.

Aside from long-standing feelings of sadness and loneliness, as well as anxiety whenever she tried to clean up or whenever someone tried to befriend her, Ms. Nichols denied other psychiatric symptoms, including delusions, hallucinations, obsessions, and other compulsive behavior.

Diagnoses

- Hoarding disorder, with excessive acquisition, with good or fair insight
- Unspecified depressive disorder

Discussion

Ms. Nichols has hoarding disorder (HD), a new diagnosis in DSM-5. She has had difficulty discarding possessions for as long as she can remember. Concerned about perceived future use for the items and sentimental attachment, she experiences severe distress at the thought of discarding any of her possessions. These difficulties have resulted in a living space that is barely functional. Apart from the loss of functionality of her home, she is distressed about her social isolation. The case report does not provide evidence that either a medical or psychiatric condition is responsible for the hoarding behavior.

It is useful to recognize that valuable items are often intermingled with useless or valueless items, so that jewelry and legal documents can be sandwiched between yellowed newspapers. Knowing such details helps the clinician ask the right questions, which is especially useful in trying to elicit history from a patient who is likely to be embarrassed about the behavior. Documentation of HD can also be useful, through either photographs or a home visit.

DSM-5 lists two specifiers for HD. The "excessive acquisition" specifier refers to the excessive obtaining of items, whether they be free, bought or stolen, when clearly these items are not needed or there is no space for them. Because many people with HD lack insight into their difficulties, the diagnosis of HD includes a specifier for level of insight. Ms. Nichols indicates that her acquisitions and hoarding are reasonable (the items might be useful or have monetary or sentimental value). She has never told her family, much less gone for previous treatment. Ms. Nichols understands that she has a problem and says she wants help, however, so she would be said to have good or fair insight.

It is important to explore whether the accumulation of objects is judged to be a direct consequence of another DSM-5 disorder. If so, HD is not diagnosed. For example, excessive accumulation of possessions has been described in obsessive-compulsive disorder and a number of neurodevelopmental (e.g., autism spectrum disorder), neurocognitive (e.g., frontotemporal dementia), and psychotic (e.g., schizophrenia) disorders. None of these other diagnoses seems to fit Ms. Nichols.

The decreased energy in major depressive disorder can lead to messy accumulation, and Ms. Nichols does appear to have a depression. Not only does the case report not go into enough detail to clarify the depression diagnosis (hence, the DSM-5 diagnosis of unspecified depressive disorder), the nearly lifelong hoarding difficulties appear to have preceded her mood symptoms. Thus, HD should be diagnosed along with Ms. Nichols's depressive disorder.

Suggested Readings

Mataix-Cols D, Frost RO, Pertusa A, et al: Hoarding disorder: a new diagnosis for DSM-V? Depress Anxiety 27(6):556–572, 2010

Mataix-Cols D, Billotti D, Fernández de la Cruz L, Nordsletten AE: The London field trial for hoarding disorder. Psychol Med 43(4):837–847, 2013

Pertusa A, Frost RO, Fullana MA, et al: Refining the diagnostic boundaries of compulsive hoarding: a critical review. Clin Psychol Rev 30(4):371–386, 2010

Case 6.5Hair Pulling

Dan J. Stein, M.D., Ph.D.

Zoe Oliver was a 22-year-old woman who presented to her general practitioner after reading a magazine article about trichotillomania (hair-pulling disorder). She had never previously told anyone other than her mother about

her hair pulling, but the magazine had indicated that it was fairly common and treatable. She was pessimistic that anything would work, but she and her mother agreed that she should seek help.

Ms. Oliver's hair pulling most often took place as a ritual when she returned home from work. She would search for hairs of a particular texture from the crown of her head (though she also pulled from her eyebrows, eyelashes, and pubic region). She felt intense relief if the hair came out with its root. She would then typically bite off the root of the hair and swallow the rest of the hair. She had never experienced any gastrointestinal symptoms after hair swallowing. She said the hair pulling had begun at age 12, and she had never known anyone with similar behaviors.

Ms. Oliver fought hard to stop the behavior and, at times, had been able to stop for several months at a time. When the hair pulling returned, she would again feel ashamed and angry at herself. Scarves and hats covered the bald patch, but she would usually withdraw from friends and boyfriends to avoid being caught.

Even when demoralized about the behavior, Ms. Oliver did not have vegetative symptoms of depression. Aside from fears of being found out, she lacked prominent anxiety. She denied obsessions, compulsions, hoarding, tics, and preoccupations with either bodily defects or having an illness. She also had no history of a range of other body-focused repetitive behaviors, such as lip biting or cheek chewing, in either herself or her close family members.

When asked what she would do if she could not find the "right" kind of hair to pull, she admitted that she would often pick at her skin or at a scab. The scab's coming off in just the right way led to a feeling of relief that was similar to that which she experienced when hair pulling. She would also sometimes chew and swallow her scabs. Ms. Oliver often picked at scabs on her back so that the lesions would not be easily visible to others. Nevertheless, the resultant scarring did lead her to avoid situations like beach parties and dates and other situations where her behavior might be exposed.

Diagnoses

- Trichotillomania (hair-pulling disorder)
- Excoriation (skin-picking) disorder

Discussion

Ms. Oliver likely meets the diagnostic criteria for both DSM-5 trichotillomania (hair-pulling disorder) and excoriation (skin-picking) disorder. The two disorders are frequently comorbid and have very similar criteria. Ms. Oliver pulls out her hair and picks at her skin and scabs, she has made unsuccessful efforts to stop, and both the hair pulling and the skin picking cause significant psychosocial dysfunction. The case report does not indicate that a comorbid condition could be triggering either behavior. These diagnoses are frequently missed—both because patients are embarrassed and clinicians fail to follow up on possible clues—but once the symptoms are clarified, the diagnoses are generally clear-cut.

Although both conditions appear to be having a major impact on her life, Ms. Oliver seems to view her trichotillomania as a more pervasive issue. DSM-5 includes the term *hair-pulling disorder* as an alternative name for *trichotillomania*, in much the same way that *skin-picking disorder* is a synonym for *excoriation disorder*. *Excoriation* does describe the behavior, however, whereas the term *trichotillomania* implies that the hair pulling is a type of mania, which is misleading, so many people prefer the term *hair-pulling disorder*. Ms. Oliver appears to experience tension prior to the hair pulling and skin picking, as well as relief or gratification following the act. Not all individuals with trichotillomania experience such a symptom pattern. In contrast to prior classification systems, including DSM-IV, that categorized trichotillomania as an impulse-control disorder, DSM-5 focuses instead on a history of attempts to decrease the hair pulling.

When hair pulling leads to noticeable hair loss, individuals often disguise their bald patches via the use of makeup, scarves, hats, or wigs; therefore, DSM-5 does not require the hair loss to be noticeable. Distress or impairment is emphasized throughout DSM-5, and Ms. Oliver does experience shame and diminished functioning. Ms. Oliver also reports swallowing her hair (trichophagy), which can lead to a trichobezoar and gastrointestinal sequelae, but she does not appear to have experienced any physical complications.

Ms. Oliver seeks out a particular type of hair to pull (and scab to pick), and is fully aware when the hair (or scab) is found, pulled, and eaten. Other individuals pull out hair and pick at skin in a more automatic way. Many individuals with trichotillomania and excoriation disorder have a personal or family history of obsessive-compulsive and related disorders. Others, like Ms. Oliver, do not have such a history. Although trichotillomania and excoriation disorder do

seem to lie in the obsessive-compulsive spectrum, there are many clinical differences between these two disorders and obsessive-compulsive disorder.

Multiple psychiatric and nonpsychiatric medical conditions can lead to hair pulling and skin picking. If they are found, then they become the primary diagnosis rather than either trichotillomania or skin picking disorder. For example, if the hair and skin issues are related to appearance preoccupation, then the patient is more likely to have body dysmorphic disorder. Hair loss is found in medical conditions ranging from lupus to alopecia areata; if a patient has evident hair loss and denies hair pulling, a medical workup may detect a systemic illness. Delusional parasitosis and tactile hallucinations can lead to skin picking, as can both cocaine intoxication and scabies infestation, but these do not fit the situation with Ms. Oliver. Finally, Ms. Oliver's behavior does not appear to reflect nonsuicidal self-injurious behavior, which can also lead to skin lesions.

It would be useful to have a more detailed understanding of Ms. Oliver's hair-pulling and skin-picking symptoms. Structured interviews can help ensure that likely comorbidities are addressed, and severity measures may help in the evaluation of these disorders. These instruments can help inform the clinician in regard to both prognosis and treatment. It would also be useful to go beyond the initial report—that Ms. Oliver engages in these behaviors after work to feel better—and better understand pertinent cues and stressors, as well as develop a deeper understanding of the benefits and disadvantages of these behaviors.

Suggested Readings

du Toit PL, van Kradenburg J, Niehaus D, Stein DJ: Comparison of obsessive-compulsive disorder patients with and without comorbid putative obsessive-compulsive spectrum disorders using a structured clinical interview. Compr Psychiatry 42(4):291–300, 2001

Grant JE, Odlaug BL, Chamberlain SR, et al: Skin picking disorder. Am J Psychiatry 169(11):1143-1149, 2012

Phillips KA, Stein DJ, Rauch SL, et al: Should an obsessive-compulsive spectrum grouping of disorders be included in DSM-V? Depress Anxiety 27(6):528–555, 2010

Stein DJ, Grant JE, Franklin ME, et al: Trichotillomania (hair pulling disorder), skin picking disorder, and stereotypic movement disorder: toward DSM-V. Depress Anxiety 27(6):611–626, 2010

Stein DJ, Phillips KA, Bolton D, et al: What is a mental/psychiatric disorder? From DSM-IV to DSM-V. Psychol Med 40(11):1759–1765, 2010

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Introduction

John W. Barnhill, M.D.

The chapter on trauma- and stressor-related disorders is new in DSM-5. The disorders in this chapter are unique within DSM-5 for requiring the identification of a triggering external event.

Posttraumatic stress disorder (PTSD) and acute stress disorder (ASD) have been moved from the chapter on anxiety disorders. Both PTSD and ASD are characterized by heterogeneous symptoms, not only anxiety, and one consequence of this classification change is to emphasize the importance of assessing the breadth of reactions to an external trauma or stressor. At the same time, both disorders often present with prominent anxiety, and an alternative conceptualization of both PTSD and ASD would be that they exist on an anxiety spectrum of disorders, alongside, for example, obsessive-compulsive disorder, which was also moved from the anxiety disorders into its own chapter in DSM-5.

A PTSD diagnosis requires the presence of symptoms from each of four symptom clusters: intrusion symptoms (previously known as reexperiencing), avoidance symptoms, negative alterations in cognition and mood, and arousal symptoms. DSM-5 more explicitly recognizes the heterogeneity of acute post-trauma response by eliminating the requirement that individuals with ASD have symptoms from multiple symptom clusters. Instead, it is necessary to have at least nine of 14 symptoms. In practice, this could mean that one individual with ASD could have all four intrusion symptoms, whereas another might have none.

PTSD and ASD are most clearly delineated by duration, with PTSD persisting at least 1 month after the external event and ASD lasting no more than 1 month. For both PTSD and ASD, the initial stressor criterion now specifies whether the trauma was experienced, witnessed, or experienced indirectly. Unlike DSM-IV, DSM-5 does not require an assessment of the patient's initial subjective response for either disorder. Finally, diagnostic thresholds for PTSD have been lowered for children and adolescents, and a preschool subtype has been added.

Two of the chapter's disorders—reactive attachment disorder (RAD) and disinhibited social engagement disorder (DSED)—are initially found in childhood, although both may have lifelong consequences. Children with RAD have responded to the absence of expectable caregiving by a cluster of withdrawn and inhibited symptoms, whereas those with DSED have symptoms described as indiscriminately social and disinhibited.

Adjustment disorder had previously served as a residual category for people who were distressed but did not meet criteria for a more discrete disorder. The adjustment disorders have been reconceptualized in DSM-5 as an array of stress-response syndromes that occur after exposure to a distressing event. As in DSM-IV, the adjustment disorders should include a specifier that identifies the predominant disturbance (e.g., depressed mood, anxiety, disturbance of conduct, or a combination).

The trauma- and stressor-related disorders can usefully bring together seemingly unrelated symptoms. For example, an adult might present with complaints related to anxiety, depression, paranoia, social isolation, and substance use. Without a careful history that looks for trauma, the end result could be half a dozen diagnoses rather than a single trauma- and stressor-related diagnosis that synthesizes a disparate set of problems. At the same time, comorbidities are common and, if found, should generally be identified along with the disorder directly related to a trauma or stress.

Suggested Readings

Andrews G, Charney DS, Sirovatka PJ, et al (eds): Stress-Induced and Fear Circuitry Disorder: Refining the Research Agenda for DSM-V. Arlington, VA, American Psychiatric Association, 2009

Shaw JA, Espinel Z, Shultz JM: Care of Children Exposed to the Traumatic Effects of Disaster. Washington, DC, American Psychiatric Publishing, 2012

Case 7.1Dangerous Behaviors

Daniel S. Schechter, M.D.

Adriana was a 4½-year-old girl referred to an early childhood mental health clinic for evaluation of "dangerous behaviors." The parents were particularly concerned that Adriana maintained poor boundaries, was impulsive, and was too quick to trust strangers.

Adriana had been adopted from an Eastern European orphanage at age 29 months. At the time of the adoption, Adriana's medical records were reviewed by a local pediatrician, who found no problems aside from growth parameters that were all below the 5th percentile. When the adoptive parents met her at the orphanage, Adriana approached without shyness and visited easily with them. The parents had been pleasantly reassured by the child's happy demeanor and her spontaneous, warm hugs.

Not long after her adoption, Adriana began to clearly seek out her mother for comfort when distressed or hurt. At most other times, however, Adriana did not distinguish between strangers and her family. In the grocery store, she would warmly hug whoever was waiting next to them in line. In group and family settings, she would frequently try to sit in the laps of people she had barely met. Once, at a shopping mall, she tried to leave with another family. Her parents were concerned that this behavior might put her at risk of abduction or abuse.

Compared to other children her age, Adriana had trouble taking turns and sitting for circle time at school. She interrupted, intruded into classmates' play space, and occasionally hit others. Small triggers upset her for prolonged periods of time. She had trouble soothing herself but would generally calm down if held by her teacher or a parent.

Adriana lived with her adoptive mother and father and her 12-year-old brother, who was the biological child of her parents. Her mother stayed home for Adriana's first year in the United States, but Adriana had been attending a half-day child care program for the past year. Her mother noted progress in the child's development, although she remained language delayed, with comprehension better than productive language. She was slower in developing school readiness skills than classmates, but her gross and fine motor skills were considered average. Her sleep and appetite were fine. She had gained weight, although her head circumference remained just below the 5th percentile.

On examination, she was a pleasant, well-groomed girl who appeared younger than her age. She spoke little but did appear to pay attention to the interviewer. Within a few minutes, she tried to crawl onto the interviewer's lap.

Diagnosis

Disinhibited social engagement disorder

Discussion

Adriana is a preschool-age child who was referred for "dangerous behaviors" that relate primarily to excess physical familiarity with strangers. The parents worry that these behaviors place Adriana at risk for predation.

The case report also indicates that Adriana has trouble regulating her proximity to other people, both in terms of going too far away from her mother and getting too close to strangers. Even with peers, she "intruded into classmates' play space." The parents apparently felt reassured after first meeting Adriana when she lacked shyness and happily gave them spontaneous, warm hugs. Typically developing children tend to express selective attachment by age 6 or 7 months, however, and show frank reticence in the presence of strangers by age 8 or 9 months. Adriana's seemingly desirable behavior at age 29 months suggests that, in fact, attachment-related psychopathology was already present.

Adriana most likely has DSM-5 diagnosis of disinhibited social engagement disorder (DSED). In particular, her disinhibited social behaviors cannot be attributed to general impulsivity, and she has all four of the core symptomatic criteria (only two are required): reduced or absent reticence in approaching and interacting with unfamiliar adults; overly familiar behavior; diminished or absent checking back with an adult caregiver after venturing away; and willingness to go off with an unfamiliar adult with minimal or no hesitation.

DSED reflects a change in the diagnostic nomenclature. In DSM-IV, the diagnosis of reactive attachment disorder (RAD) of infancy or early childhood was characterized by a pattern of markedly disturbed and developmentally

inappropriate attachment behaviors evident before age 5 years. RAD in DSM-IV was divided into two subtypes: inhibited and indiscriminate. The indiscriminate subtype of RAD was reconceptualized in DSM-5 as DSED, whereas the inhibited form continues to be called reactive attachment disorder. An important shift is the recognition that children with DSED have been shown, as Adriana does, to seek comfort from and share positive affect with a particular caregiver. This latter observation is discussed in DSM-5 (p. 269) as an associated feature supporting the diagnosis of DSED; namely, DSED can present even among children who show no signs of disordered attachment for example, among those who approach their caregiver when stressed or hurt, as Adriana does with her adoptive mother.

Adriana's adoption occurred beyond the age when children typically develop selective attachment. This suggests that she was subject to pathogenic care during a sensitive, if not critical, period of social brain development. For example, a high child-to-caregiver ratio at the orphanage might have limited her opportunities to form selective attachments. One can assume that this early adverse environment, which was likely characterized by neglect, interacted with biological vulnerability. Adriana's inhibitory dyscontrol within social contexts, for example, may indicate abnormalities in the development of the prefrontal and cingulate cortices and related circuits of the brain. Such abnormalities may be associated with risk factors such as prenatal malnutrition or toxicity and/or prematurity, as well as other genetic risk factors.

Adriana also tends to become easily distressed and to have difficulty calming down. Such difficulty with emotion regulation can also be linked to disordered early attachment and pathogenic care. But her ability to self-soothe may also have been affected by her delayed expressive language development, itself an associated feature in support of the diagnosis of DSED according to DSM-5 (p. 269).

Also linked to early—even prenatal—pathogenic care is the description of Adriana's early growth parameters as being below the 5th percentile with persistence of a small head circumference and the possibility of mild cognitive delays affecting school readiness. Although adequate records are unlikely in Adriana's case, it would be useful to explore the possible role of such factors as malnutrition, maternal substance abuse, and fetal alcohol syndrome. It would also be useful to investigate possible comorbidities. For example, some children with DSED also have attention-deficit/hyperactivity disorder (ADHD). It is useful, however, to recall that although both DSED and ADHD may feature impulsivity, DSED is a specific relationship disorder.

Does DSED pathologize outgoing friendliness? The short answer is no. While most young children might smile at or talk to familiar adults, or even unfamiliar adults acknowledged as "safe" by their caregivers (i.e., requiring social referencing), it is developmentally atypical for 4½-year-old children to approach strangers affectionately, to touch, talk, or walk off with them, especially without referencing their caregivers. It is also maladaptive and potentially dangerous! Recognition of DSED is an important step in providing the sort of clinical care that can help this vulnerable cluster of patients whose lives have already been marked by inattention and neglect.

Suggested Readings

Bowlby J: Attachment and Loss, 2nd Edition, Vol 1: Attachment. New York, Basic Books, 1999

Bruce J, Tarullo AR, Gunnar MR: Disinhibited social behavior among internationally adopted children. Dev Psychopathol 21(1):157–171, 2009

Gleason MM, Fox NA, Drury S, et al: Validity of evidence-derived criteria for reactive attachment disorder: indiscriminately social/disinhibited and emotionally withdrawn/inhibited types. J Am Acad Child Adolesc Psychiatry 50(3):216–231, 2011

Schechter DS, Willheim E: Disturbances of attachment and parental psychopathology in early childhood. Child Adolesc Psychiatry Clin N Am 18(3):665–686, 2009

Case 7.2Two Reactions to Trauma

Matthew J. Friedman, M.D., Ph.D.

Traumatic Event: Bethany Pinsky, age 23, had gone to a theater to see the local premiere of a big-budget movie. As she settled into her seat, waiting for the show to begin, a young man in a ski mask suddenly appeared in front of the screen. Brandishing an assault rifle, he fired directly into the audience. She saw many people get shot, including the woman sitting next to her. People all around began screaming, and there was a confused stampede for the exit door. Terrified, she somehow fought her way to the exit and escaped, uninjured, to the parking lot, where police cars were just arriving.

Charles Quigley, age 25, went to the same movie theater at the same time. He too feared for his life. Hiding behind a row of seats, he was able to crawl to the aisle and quickly sprint to the exit. Although covered in blood, he escaped without physical injury.

Bethany and Charles, Two Days Later: Two days later, both Ms. Pinsky and Mr. Quigley considered themselves "nervous wrecks." Grateful that they were alive and uninjured, they nevertheless found themselves extremely anxious and on edge. They jumped at the slightest noise. They kept watching television for the latest information about the shooting, but every time there was actual videotaped footage of the event, they experienced panic attacks, broke out into a sweat, were unable to calm down, and could not stop thinking about the traumatic event. They could not sleep at night because of nightmares, and during the day they felt assaulted by intrusive and unwelcome memories of gunshots, screams, and their own personal terror during the event.

Bethany, Two Weeks Later: Ms. Pinsky had reclaimed most of her pretraumatic thoughts, feelings, and behaviors within 2 weeks. Although traumatic reminders of the shooting sometimes led to a brief panic or physiological reaction, these did not dominate her waking hours. She no longer experienced nightmares. She knew that she would never forget what happened in that movie theater, but for the most part, her life was returning to normal and had returned to the trajectory it had been following before the shootings occurred.

Charles, Two Weeks Later: Mr. Quigley had not recovered 2 weeks later. He felt emotionally constricted and unable to experience pleasant or positive feelings. He jumped at the slightest sound, he was unable to focus on his work, and his sleep was fitful and marked by traumatic nightmares. He tried to avoid any reminders of the shootings but nevertheless relentlessly recalled the sound of gunfire, the screams, and the sticky feel of the blood pouring out of his neighbor's chest and onto him as he hid behind the seats. He felt episodically disconnected from his surroundings and from himself. He viewed his life as having been changed by this traumatic experience. **Diagnoses**

- Ms. Pinsky: No diagnosis; normative stress reaction
- Mr. Quigley: Acute stress disorder

Discussion

During the acute aftermath of a traumatic event, almost everyone is upset. The appropriate professional stance at this very early stage is that these are transient reactions that will typically resolve within 2–3 days and from which normal recovery should be expected. Ms. Pinsky's reaction after the shooting falls within the broad range of reactions called *normative stress reactions* in DSM-5. It is a normal response to traumatic stress and not a psychiatric disorder.

Many different symptom presentations may occur in normative stress reactions, but they generally include a combination of the following:

- a. *Emotional reactions,* such as shock, fear, grief, anger, resentment, guilt, shame, helplessness, hopelessness, and numbing
- b. *Cognitive reactions,* such as confusion, disorientation, dissociation, indecisiveness, difficulty concentrating, memory loss, self-blame, and unwanted memories
- c. *Physical reactions,* such as tension, fatigue, insomnia, startle reactions, racing pulse, nausea, and loss of appetite
- d. Interpersonal reactions, such as distrust, irritability, withdrawal/isolation, feeling rejected/abandoned, and being distant

A significant minority of individuals develop acute stress disorder (ASD), which involves more intense symptoms, during the month after the traumatic event. To meet DSM-5 criteria for ASD following a trauma, an individual must exhibit a minimum of nine of 14 possible symptoms, spread across five categories:

- a. *Intrusion symptoms*, such as intrusive distressing memories, recurrent traumatic dreams, dissociative reliving (e.g., flashbacks) of the traumatic event, and intense psychological distress or physiological reactivity to traumatic reminders
- b. Negative mood, such as an inability to experience positive emotions
- c. Dissociative symptoms, such as amnesia, and derealization or depersonalization
- d. *Avoidance symptoms,* such as avoidance of internal reminders such as trauma-related thoughts or feelings and avoidance of external reminders such as people, places, or situations
- e. *Arousal symptoms,* such as insomnia, irritability, hypervigilance, problems of concentration, or exaggerated startle reactions

Depending on which symptom categories are most prominent, patients with ASD can seem quite different from one another. For example, one person with ASD might have all of the intrusion symptoms, whereas another may have none of them.

ASD is distinguished from other psychiatric diagnoses on the basis of a careful history. For example, ASD is diagnosed within the first month after a trauma, whereas posttraumatic stress disorder (PTSD) can only be diagnosed after that first month. Adjustment disorders are also diagnosed in the first month following a trauma, but unlike ASD patients, patients with adjustment disorder do not have nine of the 14 possible ASD symptoms.

When symptoms are evaluated individually, the variety of ASD symptoms can mislead the clinician. Panic, anxiety, depression, dissociation, and intrusive, obsessional thoughts are all common in ASD, for example, and can lead to consideration of a wide spectrum of disorders. Traumatic brain injury often accompanies and complicates the diagnosis of both ASD and PTSD, especially when the brain injury is relatively subtle and unrecognized. Evaluation of any of these symptoms can be confusing, especially when the trauma is not as obvious as a movie theater shooting. Bringing together seemingly unrelated symptoms into one or two diagnoses can reduce patient confusion, focus treatment, and reduce unnecessary pharmacological treatment.

Suggested Reading

Bryant RA, Friedman MJ, Spiegel D, et al: A review of acute stress disorder in DSM-5. Depress Anxiety 28(9):802– 817, 2011

Case 7.3A Car Wreck

Robert S. Pynoos, M.D., M.P.H., Alan M. Steinberg, Ph.D., Christopher M. Layne, Ph.D.

Dylan, a 15-year-old high school student, was referred to a psychiatrist to deal with the stress from being involved in a serious automobile accident 2 weeks earlier. On the day of the accident, Dylan was riding in the front passenger seat when, as the car was pulling out of a driveway, it was struck by an oncoming SUV that was speeding through a yellow light. The car he was in was hit squarely on the driver's side, which caused the car to roll over once and come to rest right side up. The collision of metal on metal made an extremely loud noise. The driver of the car, a high school classmate, was knocked unconscious for a short period and was bleeding from a gash in his forehead. Upon seeing his injured friend, Dylan became afraid that his friend might be dead. His friend in the back seat of the car was frantically trying to unlatch her seat belt. Dylan's door was jammed, and Dylan feared that their car might catch fire while he was stuck in it. After a few minutes, the driver, Dylan, and the other passenger were able to exit through the passenger doors and move away from the car. They realized that the driver of the SUV was unharmed and had already called the police. An ambulance was on its way. All three were transported to a local emergency room, where they were attended to and released to their parents' care after a few hours.

Dylan had not had a good night's sleep since the accident. He often awoke in the middle of the night with his heart racing, visualizing oncoming headlights. He was having trouble concentrating and was unable to effectively complete his homework. His parents, who had begun to drive him to and from school, noticed that he was anxious every time they pulled out of a driveway or crossed an intersection. Although he had recently received his driving permit, he refused to practice driving with his father. He was also unusually short-tempered with his parents, his younger sisters, and his friends. He had recently gone to see a movie but had walked out of the theater before the movie started; he complained that the sound system was too loud. His concerned parents tried to talk to him about

his stress, but he would irritably cut them off. After doing poorly on an important exam, however, he accepted the encouragement of a favorite teacher to go to a psychiatrist.

When seen, Dylan described additional difficulties. He hated that he was "jumpy" around loud noises, and he could not shake the image of his injured and unresponsive friend. He had waves of anger toward the driver of the SUV. He reported feeling embarrassed and disappointed in himself for being reluctant to practice driving. He stated that about 5 years earlier, he had witnessed the near-drowning of one of his younger sisters. Also, he mentioned that this past month was the first anniversary of his grandfather's death.

Diagnosis

Acute stress disorder

Discussion

Dylan meets the revised DSM-5 diagnostic formulation of acute stress disorder (ASD), which requires any nine of 14 acute stress symptoms. This diagnosis no longer requires the presence of multiple dissociative reactions, as DSM-IV did, and, unlike the DSM-5 diagnosis of posttraumatic stress disorder (PTSD), does not require at least one symptom within each symptom cluster. ASD can be diagnosed 3 days after exposure to a traumatic situation, may be a transient stress response that remits within 1 month, or may progress after 1 month to PTSD.

Dylan presents with symptoms of ASD 2 weeks after being involved in a serious automobile accident. His symptoms are associated with clinically significant distress, impairment in social and school functioning, and disengagement from current developmental tasks (e.g., learning to drive). In adolescence, such acute disruption can have immediate and long-term consequences—providing the rationale for prompt diagnosis and intervention.

Dylan's stress-related symptoms include a recurrent intrusive distressing memory of the accident; psychological and physiological reactions to reminders; efforts to avoid thinking or having feelings about what happened; avoidance of external reminders that restricts his daily life; a recurrent distressing dream and an accompanying sleep disturbance that leaves him unrested and tired during the day; irritable behavior that disrupts his relationships with parents and friends; problems with concentration that jeopardize school performance during this important high school year; and an exaggerated startle response, which makes him feel childish and different from his friends. Dylan has no history of a prior anxiety disorder that would explain his symptoms, all of which began after the traumatic event.

Like many adolescents, Dylan is reluctant to discuss his experience or symptoms, in part because doing so makes him feel that something is wrong with him—a concern that adds to his adolescent anxiety over being different from peers. Acute intervention strategies can help adolescents to understand their acute stress reactions, gain skills to manage reminders, and develop plans with their teachers to gradually recover their prior level of academic functioning. Prior traumatic experiences and losses—such as his sister's near-drowning and his grandfather's death—can exacerbate an individual's reactions to a current trauma and can increase a clinician's understanding of the symptom profile.

Suggested Reading

Bryant RA, Friedman MJ, Spiegel D, et al: A review of acute stress disorder in DSM-5. Depress Anxiety 28(9):802–817, 2011

Case 7.4Easily Triggered

Lori L. Davis, M.D.

Eric Reynolds was a 56-year-old married Vietnam War veteran who referred himself to the Veterans Affairs outpatient mental health clinic for a chief complaint of having "a short fuse" and being "easily triggered."

Mr. Reynolds's symptoms began more than three decades earlier, soon after he left the combat zone in Vietnam, where he served as a field radio operator. He had never sought help for his symptoms, apparently because of his strong need to be independent. An early retirement led to greater recognition of symptoms and a stronger desire to seek help.

Mr. Reynolds's symptoms included uncontrollable rage when unexpectedly startled; recurrent intrusive thoughts and memories of death-related experiences; weekly vivid nightmares of combat operations that led to nighttime fright and insomnia; isolation, vigilance, and anxiety; loss of interest in hobbies that involve people; and excessive distractibility.

Although all of these symptoms were very distressing, Mr. Reynolds was most worried about his uncontrollable aggression. Examples of his "hair-trigger temper" included confrontations with drivers who cut him off, curses directed at strangers who stood too close in checkout lines, and shifts into "attack mode" when coworkers inadvertently surprised him. Most recently, as he was drifting off to sleep on his physician's examination table a nurse touched his foot and he leapt up, cursing and threatening. His involuntary reaction scared the nurse as well as the patient.

Mr. Reynolds said that no words, thoughts, or images intervened between the unexpected stimulation and his aggression. These moments reminded him of a time in the military when he was on guard at the front gate and, while he was dozing, an incoming mortar round stunned him into action. Although he kept a handgun in the console of his car for self-protection, Mr. Reynolds had no intention of harming others. He was always remorseful after a threatening incident and had long been worried that he might inadvertently hurt someone.

Mr. Reynolds was raised in a loving family that struggled financially as midwestern farmers. At age 20, Mr. Reynolds was drafted into the U.S. Army and deployed to Vietnam. He described himself as having been upbeat and happy prior to his army induction. He said he enjoyed basic training and his first few weeks in Vietnam, until one of his comrades got killed. At that point, all he cared about was getting his best friend and himself home alive, even if it meant killing others. His personality changed, he said, from that of a happy-go-lucky farm boy to a terrified, overprotective soldier.

Upon returning to civilian life, he managed to get a college degree and a graduate business degree, but he chose to work as a self-employed plumber because of his need to stay isolated in his work. He had no legal history. He had married to his wife for 25 years and was the father of two college-age students. In his retirement, he looked forward to woodworking, reading, and getting some "peace and quiet."

Mr. Reynolds had tried marijuana during his early adulthood and used excessive alcohol intermittently; however, he had not consumed excessive alcohol or used marijuana during the past decade.

On examination, Mr. Reynolds was a well-groomed African American man who appeared anxious and somewhat guarded. He was coherent and articulate. His speech was at a normal rate, but the pace accelerated when he discussed disturbing content. He denied depression but was anxious. His affect was somewhat constricted but appropriate to content. His thought process was coherent and linear. He denied all suicidal and homicidal ideation. He had no psychotic symptoms, delusions, or hallucinations. He had very good insight. He was well oriented and seemed to have above average intelligence.

Diagnosis

Posttraumatic stress disorder

Discussion

Mr. Reynolds manifests symptoms from all four posttraumatic stress disorder (PTSD) symptom categories: intrusion, avoidance, negative alterations in cognitions and mood, and alterations in arousal and reactivity. Mr. Reynolds's primary concerns appear to relate to fear-mediated symptoms, particularly his exaggerated fight-or-flight response to unexpected stimulation. As is often seen in PTSD cases, the reaction is out of character, impulsive, and unpredictable; in other words, the reaction is not premeditated or part of general impulsivity. In addition to the hyperreactivity, Mr. Reynolds demonstrates hypervigilance, excessive concern for safety, and anxiety. He also has classic reexperiencing symptoms of intrusive memories, nightmares, flashbacks, and physiological reactivity to triggers that resemble or remind him of the traumatic events. Although not present in this patient, suicidality and psychotic symptoms are not uncommon and should be evaluated on a regular basis.

As is often the case with PTSD, Mr. Reynolds emphasizes the practically invisible line between the external stimulus and the involuntary, startled reactivity. These symptoms are very disturbing for the individual, as well as for family members, friends, and coworkers. Mr. Reynolds's attempts to reduce conflicts have led to a behavioral spiral marked by progressive narrowing of opportunities in all spheres, including social, family, and career. For example, his decision to work as a plumber rather than to take advantage of his M.B.A. seems based largely on his effort to control his personal space. Although the state of the marriage is not mentioned in the case report, it would be useful to know more about how Mr. Reynolds's PTSD might be affecting his relationship with his wife. His early retirement appears to have propelled him, finally, into treatment. One clear possibility is that his wife is now spending more time with him and is the force behind the decision. Another possibility is that his "early retirement" was precipitated by an exacerbation of his PTSD symptoms and their effect on his job-related relationships.

Because people with PTSD have high rates of psychiatric comorbidity, the interviewer would want to carefully consider other diagnoses. Mr. Reynolds has apparently not consumed excessive alcohol or marijuana in many years, and neither appears related to the development of his symptoms; however, because substance use disorders are very common in PTSD, special attention should be paid to the possibility of underreporting. Mr. Reynolds's edgy hyperarousal overlaps somewhat with the dysphoric irritability that can be seen in bipolar II disorder, but in his case the symptoms develop suddenly and in response to startled perceptions and are not concurrent with multi-day periods of manic symptoms such as racing thoughts, elevated energy or drive, or a reduced need for sleep. He denied feeling depressed, and his reduced pleasure appears more related to his avoidance of social activities that he previously found enjoyable. He has maintained interests in woodworking and reading, which are characteristic of his tendency to self-isolate in a safe and quiet environment.

Finally, Mr. Reynolds demonstrates a conflict often found in people with PTSD. Survivors of trauma tend to pride themselves on resilience and independence. Out-of-control symptoms can feel shameful, and the possibility of trusting an authority figure with their problems can feel impossible. Such views can delay their entry into a mental health system that is progressively improving therapeutics for the symptoms and the interpersonal and occupational consequences of PTSD.

Suggested Readings

Adler DA, Possemato K, Mavandadi S, et al: Psychiatric status and work performance of veterans of Operations Enduring Freedom and Iraqi Freedom. Psychiatr Serv 62(1):39–46, 2011

Davis LL, Leon AC, Toscano R, et al: A randomized controlled trial of supported employment among veterans with posttraumatic stress disorder. Psychiatr Serv 63(5):464–470, 2012

Friedman MJ, Resick PA, Bryant RA: Considering PTSD for DSM-5. Depress Anxiety 28(9):750–769, 2011

Teten AL, Miller LA, Stanford MS, et al: Characterizing aggression and its association to anger and hostility among male veterans with post-traumatic stress disorder. Mil Med 175(6):405–410, 2010

Tsai J, Harpaz-Rotem I, Pietrzak RH, Southwick SM: The role of coping, resilience, and social support in mediating the relation between PTSD and social functioning in veterans returning from Iraq and Afghanistan. Psychiatry 75(2):135–149, 2012

Case 7.5Stressed Out

Cheryl Munday, Ph.D., Jamie Miller Abelson, M.S.W., James Jackson, Ph.D.

Franklin Sims was a 21-year-old single African American man who sought treatment at a university-affiliated community mental health clinic because he felt "stressed out," withdrawn from friends, and "worried about money." He said he had been feeling depressed for 3 months, and he attributed the "nosedive" to two essentially concurrent events: the end of a 3-year romantic relationship and the accidental and disappointing discovery of his father's identity.

Mr. Sims had supported himself financially since high school and was accustomed to feeling nervous about making ends meet. He had become more worried after breaking up with his longtime girlfriend, so he approached a "family friend" for financial help. He was turned down and then discovered that this man was his biological father. This disappointment revived long-standing anger and sadness about not knowing his father's identity. His roommates taunted him for "falling apart" with this discovery.

At the time of this discovery, Mr. Sims was a full-time undergraduate who also worked full-time as a midnight-shift warehouse worker. When he finished his early-morning shift, he found it hard to "slow down," and he had trouble
sleeping. He was often frustrated with his two roommates due to their messiness and frequent socializing with friends in their small apartment. His appetite was unchanged and his physical health was good. His grades had recently declined, and he had become increasingly discouraged about money and about being single. He had not previously sought any type of mental health services, but a supportive cousin suggested seeing a therapist at the student mental health clinic.

Mr. Sims was raised as an only child by his mother and her extended family. He was a self-described "good student and popular kid." High school was complicated by his mother's 3-year period of unemployment and his experimentation with alcohol and marijuana. He recalled several heavy drinking episodes at age 14 and first use of marijuana at age 15. He smoked marijuana daily for much of his junior year and stopped heavy use under pressure from a girlfriend. At the time of the evaluation, he had "an occasional beer" and limited marijuana use to "being social" several times a month.

On examination, Mr. Sims was punctual, cooperative, pleasant, attentive, appropriately dressed, and well groomed. He spoke coherently. He appeared generally worried and constricted, but he did smile appropriately several times during the interview. He had a quiet, dry sense of humor. He denied suicidality, homicidality, and psychosis. He was cognitively intact, and his insight and judgment were considered good.

Diagnosis

• Adjustment disorder with depressed mood

Discussion

Mr. Sims appears to meet criteria for adjustment disorder with depressed mood. His depressed and angry feelings, withdrawn behavior, and problems with schoolwork developed in response to two clear stressors: the breakup with the girlfriend and the discovery of and resultant disappointment about his father's identity. His symptoms impair his functioning, and they do not reflect either of two disqualifiers: they are not part of bereavement, and they have not persisted for more than 6 months after the stressor and its consequences.

These most recent stressors—the breakup with the girlfriend and the discovery of his father—are significant, but Mr. Sims has been struggling with stressors his entire life. He grew up with a struggling single mother and was under chronic financial strain. His mother was unemployed while he was in high school, and he has been self-supporting from a relatively early age. Such realities are difficult, but Mr. Sims also demonstrates significant resilience: until recently, for example, he has been able to successfully negotiate a full-time academic schedule, a full-time job, and a girlfriend.

Reading between the lines, it seems that the case reporter finds Mr. Sims a likable young man who has been under a lot of acute stress and warrants the relatively benign diagnosis of adjustment disorder. Although this does seem like the most reasonable explanation for his current symptoms, it would be important not to overlook the possibility of a marijuana use disorder, a sleep disorder, or a more long-standing depressive or anxiety disorder.

It bodes well for his long-term adjustment that Mr. Sims appears motivated for treatment. Young black men are generally expected to be strong and independent, and norms of masculinity make it difficult for them to seek help or talk about their feelings. For Mr. Sims, coming to the counseling center would not have been an easy step to take. The success of Mr. Sims's eventual treatment is likely to be based at least partly on his alliance with a therapist who is comfortable with issues specific to Mr. Sims's gender, race, and ethnicity. For example, Mr. Sims may be an academic striver, but it would not be surprising if he maintained an ambivalent perspective on academic achievement. In his culture, studying hard can be seen as a "white" endeavor and complaining of psychological distress can be seen as a sign of masculine weakness. For Mr. Sims, as a young man striving to maintain financial independence and to attain masculine social roles, the breakup with his girlfriend coinciding with failure to attain his biological father's support may undermine his attempt to consolidate a gender role that is consistent with peer culture, racial group identity, and racial and cultural norms. Seeking therapy could therefore be perceived by him as both an important source of support and a further blow to his sense of emotional resilience.

Suggested Readings

Joyce PR: Classification of mood disorders in DSM-V and DSM-VI. Aust N Z J Psychiatry 42(10):851-862, 2008

Neighbors HW, Watkins DC, Abelson JA, et al: Man up, man down: black men discuss manhood, disappointment, and depression. Poster presentation at the 20th annual meeting of the American Men's Studies Association,

"Celebrating 20 Years of Scholarship in Men and Masculinities," University of St. Thomas, Minneapolis, MN, March 29–April 1, 2012

Repetto PB, Zimmerman MA, Caldwell CH: A longitudinal study of depressive symptoms and marijuana use in a sample of inner city African Americans. J Res Adolesc 18(3):421–447, 2008

Watkins DC, Neighbors HW: An initial exploration of what "mental health" means to young black men. J Mens Health Gend 4(3):271–282, 2007

Williams DR: The health of men: structured inequalities and opportunities. Am J Public Health 93(5):724-31, 2003

Case 7.6Lung Cancer

Anna Dickerman, M.D., John W. Barnhill, M.D.

The psychiatric consultation-liaison service at a large hospital was asked to "rule out depression" in Gabriela Trentino, a 65-year-old woman with recurrent lung cancer, after she was noted to display sad affect and tearfulness on morning rounds.

Ms. Trentino was a widowed Italian American homemaker with two grown sons. She had just been admitted to the medical service for shortness of breath. She was subsequently found to have a unilateral pleural effusion. Ms. Trentino had already been through several rounds of chemotherapy over the prior few months. At the time of the consultation, she was awaiting the results of thoracentesis to assess for pulmonary metastases.

Interviewed separately, Ms. Trentino and her two sons agreed that until this hospitalization, she had never previously been especially depressed or anxious but had instead been the family's "rock." She had never seen a therapist, taken psychiatric medication, or used alcohol, opiates, or illicit drugs. Her family history was notable for a father who drank to excess, which she described as the reason she had never had a drink.

On examination, the patient was a well-groomed woman sitting in bed with an oxygen nasal cannula in place, wringing her hands and dabbing at her eyes with a wet tissue. She was cooperative and coherent. She was visibly dysphoric, with a constricted, worried affect. She reported being extremely worried about the pending thoracentesis study. She knew that metastases could mean "a death sentence" and said, "I want to be alive for my son's marriage this year." She added tearfully, "I've been through so much with the illness already. ... When is it going to stop?" Ms. Trentino endorsed poor sleep and impaired concentration since her admission to the hospital 5 days earlier. She had been eating less than usual. She said she was "too sad and worried" to do her usual daily crossword. She denied confusion and psychotic symptoms. She appeared cognitively intact, and her Montreal Cognitive Assessment (MoCA) score was 29 out of 30, with 1 lost point for incorrect recall of an object after 5 minutes. She adamantly denied suicidal ideation, again speaking of her love for her two children.

Ms. Trentino's vital signs were notable for an oxygen saturation of 94% on room air (corrected to 99% on nasal cannula), and her chest X ray showed a large left-sided pleural effusion. Neurological examination was unremarkable. Her basic lab results were otherwise within normal limits. Collateral information from nursing staff indicated that she rang her call bell frequently throughout the day to ask about medication and test details.

Discussion with the patient's family members revealed appropriate concern about their mother's health, as well as frustration over her psychological state. As one of the sons told the psychiatric consultant, "We understand this is a stressful time for Mom, but all she does in the hospital is cry all day and keep on asking us the same questions over and over again. She's usually the pillar of the family, and now she's needy and pessimistic. Can you do something?"

Diagnosis

• Adjustment disorder with mixed anxiety and depressed mood

Discussion

Ms. Trentino presents with depressive and anxious symptoms in clear temporal relation to a major stressor (rehospitalization for malignancy with the possibility of progression of disease). The patient, her family, and the

hospital staff indicate that her presentation is clinically significant, affecting both her and her hospitalization. The most likely DSM-5 diagnosis in this case is adjustment disorder with mixed anxiety and depressed mood.

In addition to adjustment disorder, several other diagnoses are also possible. Her medical team is concerned that she has a depression. Ms. Trentino does endorse four major depressive signs and symptoms (depressed mood most of the day, decreased appetite, insomnia, and poor concentration), and these are affecting her quality of life. To meet DSM-5 criteria for major depression, however, one must have five depressive symptoms for 2 weeks, and Ms. Trentino has had only four symptoms for less than 1 week. If Ms. Trentino's symptoms intensify slightly and persist, she would likely qualify for a major depression diagnosis.

Ms. Trentino also displays significant anxiety. She describes difficulty concentrating, feelings of being on edge, and poor sleep. By report, Ms. Trentino never had significant anxiety until she was faced with the recent potentially life-threatening illness. The acuity makes an underlying anxiety disorder unlikely.

Brain metastases and paraneoplastic syndrome are not unusual in lung cancer and could cause anxiety and depression. Neither of these devastating complications tends to occur, however, without other neurological abnormalities and delirium. In consultation with neurology and oncology, a brain scan and/or paraneoplastic panel might be warranted.

Ms. Trentino's hypoxemia—presumably secondary to her pleural effusion—may have contributed to her anxiety. The anxiety has persisted after correction of her oxygen saturation, but dysregulated oxygenation can often cause anxiety.

Medications can also cause anxiety and depression. Although the team should look throughout the medications list, the search should focus particularly on the use of and withdrawal from steroids, opiates, and benzodiazepines.

Adjustment disorder has been reclassified into the newly created chapter on trauma- and stressor-related disorders. Life-threatening illness is an example of such a stressor. For Ms. Trentino to warrant a diagnosis of acute stress disorder, her symptoms would need to intensify. A posttraumatic stress disorder diagnosis would require both an intensification of symptoms and a duration of greater than 1 month.

If Ms. Trentino's worries interfere with her treatment, she might qualify for an additional DSM-5 diagnosis: psychological factors affecting other medical conditions. At the moment, however, she has been compliant with treatments and interventions.

Suggested Readings

Akechi T, Okuyama T, Sugawara Y, et al: Major depression, adjustment disorders, and post-traumatic stress disorder in terminally ill cancer patients: associated and predictive factors. J Clin Oncol 22(10):1957–1965, 2004

Strain JJ, Klipstein K: Adjustment disorder, in Gabbard's Treatments of Psychiatric Disorders, 4th Edition. Edited by Gabbard GO. Washington, DC, American Psychiatric Publishing, 2006, pp 419–426

Case 7.70verdose

Megan Mroczkowski, M.D., Cynthia R. Pfeffer, M.D.

Hannah, a 16-year-old white girl with no past psychiatric history, presented to the hospital emergency department following an overdose of unknown amounts of clonazepam, alprazolam, and oxycodone. Upon arrival, Hannah had a Glasgow Coma Scale score of 8, indicating severe compromise. She was intubated and admitted to the pediatric intensive care unit. After stabilization over several days, she was admitted to an inpatient psychiatric unit.

The patient, her parents, and her best friend indicated that Hannah appeared to have been in her usual good mood until the evening of the overdose. At that time, a friend phoned to say that she had seen her boyfriend kissing another girl. Hannah responded immediately by writing a note stating that she "just wanted to sleep forever." Three hours later, her mother found her in her bedroom, obtunded, and called 911.

Psychiatric history was notable for an absence of depression, suicidal ideation, self-injurious behaviors, mania, or psychosis. She had no previous psychiatric contacts or hospitalizations. She denied the use of cigarettes, alcohol, marijuana, or other illicit drugs and denied a legal history.

Hannah lived with her parents and two younger sisters. Her academic performance as an eleventh grader at a local public school was stellar. She reported that she hoped to be a physician or attorney. Her best friend said she had been cheerful earlier in the day. Family psychiatric history was notable for her mother having an anxiety disorder for which she was prescribed clonazepam and alprazolam. As a late adolescent, the mother had also made two suicide attempts by medication overdose. Her father had chronic back pain from a sports injury in college, for which he took oxycodone. Extended family history was notable for a paternal uncle with substance abuse. No one in the extended family had committed suicide.

On examination, Hannah denied disturbances of mood, anxiety, sleep, appetite, energy, and concentration. She denied somatic complaints and psychotic features.

Further assessment of her near-lethal overdose revealed that Hannah had developed thoughts of wanting to die about 10 minutes before the overdose, had heard previously that this would be a peaceful way to die, and was grateful that she woke up.

Hannah was diagnosed with adjustment disorder with depressed mood. Prior to discharge she denied suicidal thoughts, and she was discharged with no psychotropic medications to outpatient care within the hospital clinic. She was seen weekly for cognitive-behavioral therapy focusing on coping skills when angry or disappointed. After 6 months, Hannah was noted to be doing well and to have been consistently free of suicidal ideation, intent, or behavior. At that point, Hannah, her parents, and the psychiatrist agreed to end the treatment, with the understanding that she would restart treatment should she have trouble coping.

Diagnoses

- Adjustment disorder with depressed mood
- Suicidal behavior disorder (a condition for further study)

Discussion

Hannah's mother entered her bedroom to find her daughter obtunded. The 16-year-old girl was rushed to the emergency room and immediately intubated. Puzzled, the medical team huddled with the patient, her parents, and her best friend, and gradually pieced together that this purposeful overdose stemmed from an acute reaction to her boyfriend's kissing another girl. There had been no warning. Hannah had apparently not been depressed, anxious, or traumatized. She had no history of substance abuse, self-injurious behavior, or suicidal ideation. She did not seem to have personality traits that might predispose to a suicide attempt but had apparently been a "cheerful" friend and "stellar" student.

In the context of her inpatient psychiatric hospitalization, Hannah was evaluated to have developed marked, outof-proportion, and impairing distress in response to a stressor. These symptoms did not appear to be part of another psychiatric diagnosis. Therefore, she was diagnosed with DSM-5 adjustment disorder with depressed mood.

Suicidal ideation and behavior are not included in the criteria for adjustment disorder. They are also not part of the diagnostic criteria for many other diagnoses that are associated with elevated rates of suicidality, such as posttraumatic stress disorder, eating disorders, and substance use disorders. In fact, suicidality is an explicit part of the assessment only for major depression and borderline personality disorder. Half of the children and adolescents who attempt suicide do not have a lifetime history of major depression, and borderline personality disorder is not diagnosable until age 18, which can mean a gap in the assessment of psychiatric phenomenology. Because suicide is the third leading cause of adolescent deaths in the United States, this gap can lead to an underevaluation of a potentially lethal psychiatric symptom.

DSM-5 addresses this issue by including a diagnosis of suicidal behavior disorder in "Conditions for Further Study" in Section III. Under this rubric, Hannah would meet criteria for adjustment disorder with depressed mood as well as suicidal behavior disorder, which is noncodable but is intended to identify people who have made a suicide attempt within the prior 24 months. This disorder can be subdivided into two groups: if the suicide attempt took place in the past year, the disorder is termed current, and if it occurred in the past 12–24 months, it is considered to be in early remission. This diagnosis is specifically not intended to be applied to people with suicidal ideation or a suicide plan but only to people who have made an attempt. It is also not intended for people who engage in nonsuicidal self-injury. (The "Conditions for Further Study" chapter in DSM-5 also includes a diagnosis for "nonsuicidal self-injury," which requires repetitive self-injurious behaviors.)

Suicidal behavior disorder is a potentially important diagnosis because suicide attempts have predictive validity for future suicidal ideation and acts, independent of the presence of other diagnoses. It might also be particularly useful in the treatment of someone like Hannah, who took a potentially lethal overdose in the context of a stressor (the boyfriend's kissing another girl) without any particular psychiatric symptoms either before or after the overdose.

Because there was no apparent warning, Hannah's actual overdose could not easily have been predicted. An explicit suicide risk assessment can be very helpful, however, for a future therapist. Documenting a diagnosis of suicidal behavior in a patient's medical record increases the likelihood that future clinicians will explicitly assess for suicidal behavior and consciously consider prevention strategies and treatment. Furthermore, the diagnosis of suicidal behavior in medical records offers opportunities for service delivery and prevention programs.

Suggested Readings

Brent DA, Melhem N: Familial transmission of suicidal behavior. Psychiatr Clin North Am 31(2):157-177, 2008

King CA, Kerr DC, Passarelli MN, et al: One-year follow-up of suicidal adolescents: parental history of mental health problems and time to post-hospitalization attempt. J Youth Adolesc 39(3):219–232, 2010

Kochanek KD, Xu J, Murphy SL, et al: Deaths: Final Data for 2009. National Vital Statistics Reports, Vol 60, No 3. Hyattsville, MD, National Center for Health Statistics, 2012

Kovacs M, Feinberg TL, Crouse-Novak M, et al: Depressive disorders in childhood, II: a longitudinal study of the risk for a subsequent major depression. Arch Gen Psychiatry 41(7):643–649, 1984

Levy JC, Deykin EY: Suicidality, depression, and substance abuse in adolescence. Am J Psychiatry 146(11):1462–1467, 1989

Pfeffer CR, Klerman GL, Hurt SW, et al: Suicidal children grow up: rates and psychosocial risk factors for suicide attempts during follow-up. J Am Acad Child Adolesc Psychiatry 32(1):106–113, 1993

Wilcox HC, Kuramoto SJ, Brent D, Runeson B: The interaction of parental history of suicidal behavior and exposure to adoptive parents' psychiatric disorders on adoptee suicide attempt hospitalization. Am J Psychiatry 169(3):309–315, 2012

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Chapter 8. Dissociative Disorders

Introduction

John W. Barnhill, M.D.

Commonly encountered in people with a variety of psychiatric diagnoses—and in many people without a diagnosis—dissociative symptoms can affect consciousness, memory, identity, emotion, perception, body representation, and behavior. Dissociative experiences are common, affecting perhaps half the population at some point. Although they are common, symptoms can be vaguely experienced and poorly recalled, so they are often overlooked by clinicians. Many or most dissociative episodes are fleeting or do not cause significant distress or dysfunction, and therefore do not warrant a specific DSM-5 diagnosis. Nevertheless, their recognition can be an important contribution not only to the diagnosis but to helping make sense of sometimes confusing symptoms.

DSM-5 describes three specific dissociative disorders—dissociative identity disorder, dissociative amnesia, and depersonalization/derealization disorder—as well as two more general categories of dissociative disorder—other specified and unspecified. All are frequently associated with physical, emotional, and/or sexual trauma and abuse, and it is not at random that the DSM-5 chapter on dissociative disorders is located immediately after the chapter that focuses on trauma- and stressor-related disorders.

Dissociative identity disorder (DID) refers to the presence of two or more distinct personality states. Formerly known as "multiple personality disorder," DID involves a discontinuity in the sense of self and the sense of agency, perception, cognition, and/or sensory-motor functioning. DID also involves memory gaps that transcend ordinary forgetting. Some cultures may view DID as "possession" by spiritual beings external to the person, but the disturbance should not be diagnosed as pathological if it conforms to broadly accepted cultural or religious practices. Furthermore, DID is generally not applicable to children who have imaginary playmates or who are otherwise engaging in normal imaginative play. As is often the case with all dissociative disorders, people with DID tend to present with other psychiatric issues, including depression, anxiety, substance abuse, self-injury, posttraumatic stress disorder, and non-epileptic seizures. Patients may conceal or not be aware of memory gaps and other discontinuities, which further complicates the psychiatric evaluation.

In contrast to DID, which involves organization of different personalities via dissociative processes, other dissociative diagnoses are perhaps more common and less controversial. Dissociative amnesia (DA) involves an inability to recall important autobiographical information that is generally related to a specific stressor or trauma. It can be associated with nonepileptic seizures or other functional neurological symptoms (e.g., DSM-5 conversion disorder). DSM-5 has removed dissociative fugue as a separate disorder and included it as a specifier for DA. Fugue states are notable for the inability to recall important autobiographical memories (e.g., personal identity) and can include wandering away from home while maintaining an ability to function adequately.

A detached and unreal sense of oneself (depersonalization) or the outside world (derealization) is relatively common, with a reported lifetime population prevalence of 50%. To meet criteria for depersonalization/derealization disorder, however, the symptoms must be persistent (generally lasting at least 1 month) and/or recurrent. Reality testing should be spared. As with other DSM-5 diagnoses, impairment and/or distress is also required, so occasional "spacing out" is not necessarily a disorder.

DSM-5 provides criteria for other specified dissociative disorders that do not meet full criteria for DID, DA, or depersonalization/derealization disorder. For example, identity disturbance due to prolonged and intense coercive persuasion is diagnosed when an individual has dissociative effects following such intense experiences as brainwashing, long-term political imprisonment, or indoctrination into a cult. Acute dissociative reactions to stressful events can have a variety of dissociative manifestations when viewed cross-sectionally but are notable for their brevity; they can clear within days. If they persist for more than 1 month, the individual likely warrants a different diagnosis (e.g., depersonalization/derealization disorder).

Suggested Readings

Boysen GA, VanBergen A: A review of published research on adult dissociative identity disorder: 2000–2010. J Nerv Ment Dis 201(1):5–11, 2013

Brand BL, Lanius R, Vermetten E, et al: Where are we going? An update on assessment, treatment, and neurobiological research in dissociative disorders as we move toward the DSM-5. J Trauma Dissociation 13(1):9–31, 2012

Paris J: The rise and fall of dissociative identity disorder. J Nerv Ment Dis 200(12):1076-1079, 2012

Spiegel D, Loewenstein RJ, Lewis-Fernández R, et al: Dissociative disorders in DSM-5. Depress Anxiety 28(8):824–852, 2011

Case 8.1Sad and Alone

Richard J. Loewenstein, M.D.

Irene Upton was a 29-year-old special education teacher who sought a psychiatric consultation because "I'm tired of always being sad and alone."

The patient reported chronic, severe depression that had not responded to multiple trials of antidepressants and mood stabilizer augmentation. She reported greater benefit from psychotherapies based on cognitive-behavioral therapy and dialectical behavior therapy. Electroconvulsive therapy had been suggested, but she had refused. She had been hospitalized twice for suicidal ideation and severe self-cutting that required stitches.

Ms. Upton reported that previous therapists had focused on the likelihood of trauma, but she casually dismissed the possibility that she had ever been abused. It had been her younger sister who had reported "weird sexual touching" by their father when Ms. Upton was 13. There had never been a police investigation, but her father had apologized to the patient and her sister as part of a resultant church intervention and an inpatient treatment for alcoholism and "sex addiction." She denied any feelings about these events and said, "He took care of the problem. I have no reason to be mad at him."

Ms. Upton reported little memory for her life between about ages 7 and 13 years. Her siblings would joke with her about her inability to recall family holidays, school events, and vacation trips. She explained her amnesia by saying, "Maybe nothing important happened, and that's why I don't remember."

She reported a "good" relationship with both parents. Her father remained "controlling" toward her mother and still had "anger issues," but had been abstinent from alcohol for 16 years. On closer questioning, Ms. Upton reported that her self-injurious and suicidal behavior primarily occurred after visits to see her family or when her parents surprised her by visiting.

Ms. Upton described being "socially withdrawn" until high school, at which point she became academically successful and a member of numerous teams and clubs. She did well in college. She excelled at her job and was regarded as a gifted teacher of autistic children. She described several friendships of many years. She reported difficulty with intimacy with men, experiencing intense fear and disgust at any attempted sexual advances. Whenever she did get at all involved with a man, she felt intense shame and a sense of her own "badness," although she felt worthless at other times as well. She tended to sleep poorly and often felt tired.

She denied use of alcohol or drugs, and described intense nausea and stomach pain at even the smell of alcohol.

On mental status examination, the patient was well groomed and cooperative. Her responses were coherent and goal directed, but often devoid of emotional content. She appeared sad and constricted. She described herself as "numb." She denied hallucinations, confusion, and a current intention to kill herself. Thoughts of suicide were, however, "always around."

More specific questions led Ms. Upton to deny that she had ongoing amnesia for daily life, particularly denying ever being told of behavior she could not recall, unexplained possessions, subjective time loss, fugue episodes, or inexplicable fluctuations in skills, habits, and/or knowledge. She denied a sense of subjective self-division, hallucinations, inner voices, or passive influence symptoms. She denied flashbacks or intrusive memories, but reported recurrent nightmares of being chased by "a dangerous man" from whom she could not escape. She reported difficulty concentrating, although she was "hyperfocused" at work. She reported an intense startle reaction. She reported repeated counting and singing in her mind, repeated checking to ensure that doors were locked, and compulsive arranging to "prevent harm from befalling me."

Diagnoses

- Dissociative amnesia
- Major depressive disorder, chronic, with suicidal ideation
- Posttraumatic stress disorder

Discussion

Ms. Upton reports persistently depressed mood, insomnia, fatigue, feelings of worthlessness, and suicidality. It is not surprising that she has received serial treatments for major depression. These treatments, however, have been unsuccessful, although psychotherapy has provided some benefit.

In addition to her depressive symptoms, Ms. Upton describes a cluster of symptoms that are central to conceptualizing her problems and her treatment. Although her younger sister is the one who reported him for "weird sexual touching," the father also apologized to the patient. Ms. Upton has a history of severe self-cutting that occurs when she sees her family. Sexual intimacy disgusts her and intensely exacerbates her chronic sense of shame and worthlessness, so she avoids men. She has recurrent nightmares of being chased by "a dangerous man." Although the patient casually denies having been abused, she describes a 6-year autobiographical memory gap that seems to have ended at the exact time that her father was sent away for inpatient treatment of alcoholism and "sex addiction." Even the smell of alcohol induces severe nausea and "stomach pain." Given these facts, it is not surprising that previous therapists have "focused on the likelihood of trauma."

The apparent child sexual abuse in conjunction with a 6-year memory deficit conforms well to a DSM-5 diagnosis of dissociative amnesia (DA).

In contrast to the memory failures associated with intoxications and neurocognitive disorders, DA involves problems with autobiographical memory: what I did, where I went, what I thought or felt, and so forth. The most common presentation of DA is *localized* DA, an inability to remember a specific period of time or event, such as all of second grade. In *selective* DA, memory is preserved for some of the events during a circumscribed period of time, such as some retained memories from second grade, but with amnesia for all or part of the actual trauma. DA is associated with physical and sexual abuse, and its extent seems to increase with increased severity, frequency, and violence of the abuse.

DA can be difficult to distinguish from other trauma-related diagnoses because such disorders as posttraumatic stress disorder (PTSD) also feature memory loss in the context of trauma. If the memory loss is the core symptom and involves a period that extends well beyond the actual trauma, then DA should be coded separately from a PTSD diagnosis. Ms. Upton's memory loss extended over 6 years, which conforms to the period of presumed sexual abuse. In addition, she describes intrusive thoughts (nightmares), avoidance (of dating and sex), negative alterations in cognitions and moods (belief in her "badness"), and hyperarousal/hyperreactivity (startle reaction). In other words, she also meets criteria for PTSD and so warrants a comorbid diagnosis.

A subgroup of DA patients will also have significant obsessive-compulsive disorder symptoms, and Ms. Upton describes recurrently counting, singing, checking, and arranging, all in an effort to "prevent harm from befalling me."

Another subgroup of patients will have far broader amnesia, called generalized dissociative amnesia (GDA). The loss of memory can expand to include an entire life, including personal identity, fund of knowledge, and memory for skills. Longitudinal observation of people with GDA shows that many will meet diagnostic criteria for DSM-5 dissociative identity disorder (DID).

DID is notable for a disruption of identity characterized by two or more distinct personality states. These states involve a marked discontinuity in the sense of self as well as clinically relevant memory gaps. Although Ms. Upton does not recall much of elementary school, she denies experiencing typical DID symptoms such as suddenly finding herself somewhere without recalling having gotten there (dissociative fugue); unexplained appearance or

disappearance of possessions; being told of unrecalled behavior; and inexplicable fluctuations in skills, capacities, and knowledge (e.g., being able to play music at one time but being unable to access this skill at another). In addition, individuals with DID tend to experience symptoms such as hearing inner voices, depersonalization/derealization, a subjective sense of self-division, behaviors related to switching or shifting of identity states, and symptoms related to overlap or interference between identity states. Although these symptoms warrant longitudinal investigation, Ms. Upton specifically denied them and is unlikely to have DID.

The diagnostic interview with people with DA is unusual. They rarely volunteer information about memory problems. They commonly minimize the amnesia and its connection to traumatic events. Perhaps most important, discussion of even the possibility of trauma can induce intense anxiety, flashbacks, nightmares, and somatic memories of the abuse. Tact, pacing, and timing are critical, and a zealous pursuit of "truth" can inflict psychological harm on a person who is still suffering from abuse endured many years earlier.

Suggested Readings

Courtois CA, Ford JD (eds): Treating Complex Traumatic Stress Disorders: An Evidence-Based Guide. New York, Guilford, 2009

Lanius RA, Vermetten E, Pain C (eds): The Impact of Early Life Trauma on Health and Disease: The Hidden Epidemic. Cambridge, UK, Cambridge University Press, 2010

Loewenstein RJ: An office mental status examination for chronic complex dissociative symptoms and multiple personality disorder. Psychiatr Clin N Am 14(3):567–604, 1991

Loewenstein RJ: Treatment of dissociative amnesia, in Gabbard's Treatments of Psychiatric Disorders, 5th Edition. Edited by Gabbard GO. Washington, DC, American Psychiatric Publishing (in press)

Simeon D, Loewenstein RJ: Dissociative disorders, in Kaplan & Sadock's Comprehensive Textbook of Psychiatry, 9th Edition, Vol 1. Edited by Sadock BJ, Sadock VA, Ruiz P. Philadelphia, PA, Wolters Kluwer/Lippincott Williams & Wilkins, 2009, pp 1965–2026

Spiegel D, Loewenstein RJ, Lewis-Fernández R, et al: Dissociative disorders in DSM-5. Depress Anxiety 28(8):824–852, 2011

Case 8.2Feeling Out of It

Daphne Simeon, M.D.

Jason Vaughan, a 20-year-old college sophomore, was referred by his dorm's resident adviser to the school's mental health clinic after appearing "strange and out of it." Mr. Vaughan told the evaluating therapist that he had not been his "usual self" for about 3 months. He said his mind often felt blank, as if thoughts were not his own. He had felt increasingly detached from his physical body, going about his daily activities like a "disconnected robot." At times, he felt uncertain if he were alive or dead, as if existence were a dream. He said he almost felt like he had "no self." These experiences left him in a state of terror for hours on end. His grades declined, and he began to socialize only minimally.

Mr. Vaughan said he had become depressed over the breakup with a girlfriend, Jill, a few months earlier, describing sad mood for about a month with mild vegetative symptoms but no impairment in functioning. During this time, he began to notice some feelings of numbness and unreality, but he did not pay much attention at first. As his low mood resolved and he found himself becoming increasingly disconnected, he began to worry more and more until he finally sought help. He told the counselor that his 1-year romantic relationship with Jill had been very meaningful to him and that over the holidays he had planned to introduce her to his mother for the first time.

Mr. Vaughan described a time-limited bout of extreme anxiety in tenth grade. At that time, panic attacks had begun and then escalated in severity and frequency over 2 months. During those attacks, he had felt very detached, as if everything were unreal. The symptoms sometimes lasted for several hours and were reminiscent of

his current complaints. The onset appeared to coincide with his mother's entry into a psychiatric hospital. When she was discharged, all his symptoms cleared fairly rapidly. He did not seek treatment at that time.

Mr. Vaughan also described several days of transient unreality symptoms in elementary school, just after his parents divorced and his father left young Jason living alone with his mother, who had paranoid schizophrenia. His childhood was significant for pervasive loneliness and the sense that he was the only adult in the family. His mother was only marginally functional but generally not actively psychotic. His father rarely returned for visits but did provide enough money for them to continue to live in reasonable comfort. Jason often stayed with his grandparents on weekends, but in general he and his mother lived a very isolated life. He did well in school and had a few close friends, but he largely kept to himself and rarely brought friends home. Jill would have been the first girlfriend to meet his mother.

Mr. Vaughan denied using any drugs, in particular cannabis, hallucinogens, ketamine, or salvia, and his urine toxicology was negative. He denied physical and sexual abuse. He denied any history of depression, mania, psychosis, or other past psychiatric symptoms. He specifically denied amnesia, blackouts, multiple identities, hallucinations, paranoia, and other unusual thoughts or experiences.

Results of routine laboratory tests, a toxicology screen, and a physical examination were normal, as were a brain magnetic resonance imaging scan and electroencephalogram. Consultations with an otorhinolaryngologist and a neurologist were noncontributory.

Diagnosis

Depersonalization/derealization disorder

Discussion

Mr. Vaughan is experiencing persistent detachment from his physical body, mind, and emotions and has a pervasive sense of "no self." During these experiences, his reality testing remains intact. The history indicates that there are not medical or psychiatric causes for these symptoms. The symptoms are persistent, and his functioning is significantly impaired. Mr. Vaughan meets criteria for DSM-5 depersonalization/derealization disorder.

Mr. Vaughan has had similar symptoms twice before, but neither episode appears to have met criteria for depersonalization/derealization disorder.

Mr. Vaughan's first episode, in elementary school, was triggered by his father's abandonment, and symptoms reportedly lasted only a few days. Although it does not specify a minimum duration for depersonalization/derealization disorder, DSM-5 indicates that symptoms must be "persistent or recurrent." His childhood presentation appears more consistent with DSM-5 other specified dissociative disorder (acute dissociative reactions to stressful events), which refers to an acute, transient condition that lasts less than one month.

The second episode occurred in the context of 2 months of escalating panic attacks precipitated by his mother's psychiatric hospitalization. These symptoms met the duration criteria for depersonalization/derealization disorder, but they occurred exclusively in the context of another psychiatric condition (panic), and they resolved with the resolution of the other psychiatric disorder. While the case does not provide enough clinical information for much specificity, this second episode appears to better fit a diagnosis among the anxiety disorders—DSM-5 unspecified anxiety disorder—rather than among the dissociative disorders.

The most recent episode is, however, classic for depersonalization-derealization disorder: it has persisted for several months after the resolution of the short-lived depressive episode, is not associated with another psychiatric, substance use, or medical disorder, and is associated with intact reality testing.

Notably, the second episode of symptoms was more heavily weighted toward derealization, whereas the third and clinically diagnostic episode was more heavily weighted toward depersonalization. Reflecting recent research in the field, DSM-5 has combined depersonalization and derealization symptoms into a single disorder that can consist of either one or, more commonly, both of the symptoms.

Before the diagnosis can be made, other psychiatric and medical causes need to be explored. Given his mother's schizophrenia, the most likely alternative explanation would appear to be a psychotic disorder or a schizophrenia prodrome. Mr. Vaughan seems to have maintained his social and academic functioning until the depersonalization worsened, however, and he maintained reality testing despite the symptoms; therefore, he lacks criteria for a current psychosis. It is not presently possible to predict his risk for developing schizophrenia in the future, so longitudinal observation and support will be important.

Like many patients with depersonalization/derealization disorder, Mr. Vaughan did not consider his suffering delusional and was convinced of its "physical" nature. Such conviction can lead to medical workups that may be more reassuring to the patient than helpful in identifying a medical etiology. Young people with typical presentations and without risk factors or findings on physical and neurological examinations are highly unlikely to be harboring some underlying medical or neurological illness. The workup may help these patients proceed with psychiatric treatment; however, the psychiatrist can usefully try to temper the enthusiasm of other physicians who may suggest prolonged or invasive testing.

Although all of the dissociative disorders are often associated with early life trauma, patients with depersonalization/derealization disorder report trauma that is often less physically and sexually extreme. Mr. Vaughan seems to have denied particular abuse, but he had a father who abandoned him to a mother with schizophrenia. Even without his recall of specifically traumatic events, it is safe to assume that Mr. Vaughan's childhood was difficult and contributed to his disorder.

Suggested Readings

Baker D, Hunter E, Lawrence E, et al: Depersonalisation disorder: clinical features of 204 cases. Br J Psychiatry 2003; 182:428–433

Simeon D, Knutelska M, Nelson D, Guralnik O: Feeling unreal: a depersonalization disorder update of 117 cases. J Clin Psychiatry 2003; 64:990–997

Simeon D, Abugel J: Feeling Unreal: Depersonalization Disorder and the Loss of Self. New York, Oxford University Press, 2008

Sierra M: Depersonalization: A New Look at a Neglected Syndrome. New York, Cambridge University Press, 2009

Case 8.3Dissociations

Roberto Lewis-Fernández, M.D.

Lourdes Zayas, a 33-year-old Puerto Rican woman born in the United States, was brought to the emergency room (ER) after she became distraught and tried to swallow bleach.

The patient, who had no previous psychiatric history, had apparently been doing fine until the day before, when her fiancé was murdered in a drug-related incident in Puerto Rico. Her family reported that Ms. Zayas reacted initially with inordinate calm. Concerned, relatives discreetly followed her around in their small apartment for several hours. She did not speak but instead engaged in repetitive, unnecessary tasks such as folding and unfolding clothes.

That afternoon, standing at the washing machine, she had cried out, grabbed a bottle of bleach, and tried to drink from it. Her brother knocked it away. She fell to the ground, shaking, screaming, and crying. This episode lasted a few seconds, after which she "lay as if dead" for a few minutes. The family recalled no tonic-clonic movements, tongue biting, or loss of sphincter control. When the ambulance arrived, Ms. Zayas was crying softly, repeating the name of her fiancé, and was generally unresponsive to questions. After medical staff treated mild burns to her lips, she was triaged to the psychiatry department.

Over the next few hours, Ms. Zayas became more responsive. During a clinical interview done in Spanish, she reported being struck "numb" (*insensible*) by the news of her fiance's death and described a sense of being disconnected from her body, her emotions, and her surroundings. These symptoms were still present in the ER but diminished over several hours. She also described amnesia for what occurred from the moment when she cried out and her vision went "dark" (*oscura*), to when she "awoke" in the ER.

While being kept under observation for 24 hours, Ms. Zayas had two more episodes of sudden agitation, crying, and screaming, during which she attempted to scratch her face and to leave the room. Because she responded quickly to verbal intervention and reassuring physical contact, she was not given medications or placed in restraints, but was kept on one-to-one observation. Her laboratory test results were unremarkable, as were an electroencephalogram and a lumbar puncture.

On examination, she was crying softly, her mood was sad, and she reported depersonalization, derealization, and amnesia for her suicide attempt. She was oriented to time, person, and place; had no psychotic symptoms; and denied current suicidal ideation.

Ms. Zayas was transferred to an inpatient psychiatric unit for evaluation. She initially had difficulty falling asleep and had sad, scary dreams about her fiancé. She denied recalling anything from the hours after she tried to swallow bleach. She made efforts to avoid thinking about her fiancé and was disturbed by intrusive recollections of their time together, but she never met DSM-5 criteria for acute stress disorder or major depression. Her symptoms had improved significantly after 1 week. She took no medications at the hospital and was discharged after 10 days with follow-up to outpatient care. She attended a single appointment 1 month later, at which point she and her family agreed that she was episodically sad about the death of her fiancé but essentially back to her normal self. At that point, she was lost to follow-up.

Diagnosis

• Other specified dissociative disorder: acute dissociative reactions to stressful events

Discussion

Different clinicians might try to conceptualize Ms. Zayas's symptoms in different ways. Because her fiancé's murder was undoubtedly traumatic, a clinician might try to fit her symptoms into one of the diagnoses listed among the DSM-5 trauma- and stressor-related disorders. Another clinician might recognize psychotic symptoms and try to find a diagnosis among the schizophrenia spectrum and other psychotic disorders. Another might try to find a depressive or anxiety-related disorder that fits the symptomatology. Still another might look for a personality disorder or a preexisting personality vulnerability that could have led to these symptoms.

By staying close to the provided information, however, one can develop a more parsimonious explanation. In response to news of the murder, Ms. Zayas went "numb" and walked around the apartment for hours repetitively folding and unfolding clothes. She described being disconnected from her body, emotions, and surroundings. She was thwarted when she tried to drink bleach and then fell to the ground, shaking and crying. She had amnesia for the event, saying she awoke hours later in the ER. She then went on to have several days of intrusive, unwelcome memories and nightmares, but she was essentially back to her normal self within a week or two.

Ms. Zayas had an acute dissociative episode. Listed as an example of other specified dissociative disorder, this new DSM-5 diagnosis describes a cluster of people who respond to a stress with acute, transient dissociative symptoms that might include some combination of the following: constriction of consciousness; depersonalization; derealization; perceptual disturbances (e.g., time slowing, macropsia); micro-amnesias; transient stupor; and alterations in sensory-motor functioning (e.g., analgesia, paralysis). Ms. Zayas reported constriction of consciousness (brooding with repetitive behaviors), depersonalization, derealization, transient stupor, and micro-amnesia.

In some individuals, an acute episode becomes recurrent, especially when repeated stressors precipitate new acute reactions. In other individuals, the acute condition resolves with minimal sequelae.

Acute dissociative episodes may be comorbid with other psychiatric diagnoses, or they may be an isolated reaction in an otherwise normally functioning person. They have also been described as part of a heterogeneous cluster of syndromes from around the world. A similar dissociative episode might be labeled a "falling out" in the southern United States or an "indisposition" in Haiti.

Throughout Latin America, similar episodes are called *ataque de nervios* (attack of nerves), which is the term that Ms. Zayas and her family used throughout her hospitalization.

Fear of this type of reaction presumably led the family to monitor Ms. Zayas closely after she received the news, and helped prevent greater harm from the bleach. *Ataques* are very common, with a lifetime incidence of about 10% in Puerto Ricans born in the United States. They are considered normal reactions when precipitated by discrete and overwhelming stressors, such as in Ms. Zayas's case. A lifetime history of *ataque* is, however, associated with higher rates of mental health-related disability, suicidal ideation, and outpatient mental health care. Ms. Zayas's *ataque*, therefore, suggests potential vulnerability to psychiatric sequelae. In this particular case, Ms. Zayas and her family should be counseled that she would be at risk for another attack in the context of another stress and would also be at risk for a delayed onset of posttraumatic stress disorder.

Suggested Readings

Friedman MJ, Resick PA, Bryant RA, Brewin CR: Considering PTSD for DSM-5. Depress Anxiety 28(9):750–769, 2011

Guarnaccia PJ, Lewis-Fernández R, Martínez Pincay I, et al: Ataque de nervios as a marker of social and psychiatric vulnerability: results from the NLAAS. Int J Soc Psychiatry 56(3):298–309, 2010

Lewis-Fernández R, Horvitz-Lennon M, Blanco C, et al: Significance of endorsement of psychotic symptoms by US Latinos. J Nerv Ment Dis 197(5):337–347, 2009

Lim RF (ed): Clinical Manual of Cultural Psychiatry. Washington, DC, American Psychiatric Publishing, 2006

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Introduction

Anna Dickerman, M.D., John W. Barnhill, M.D.

Somatic symptom disorder (SSD) is a DSM-5 diagnosis that describes a cluster of patients who have distressing somatic symptoms along with abnormal thoughts, feelings, and behaviors in response to these symptoms. It is an umbrella term intended to describe most of the patients who had previously held such diagnoses as somatization disorder, pain disorder, and hypochondriasis, which appeared in the DSM-IV chapter on somatoform disorders. A key difference is that diagnosing SSD requires a search for positive symptoms, such as distress and dysfunction, rather than a search for a negative (ruling out medically unexplained symptoms). Patients can—and often do—have physiologically based medical diagnoses, but the new diagnosis allows the clinician to focus on the distress and abnormal thoughts, feelings, and behaviors rather than the validity of patients' medical complaints.

The DSM-5 chapter on somatic symptom and related disorders also includes illness anxiety disorder, conversion disorder, psychological factors affecting other medical conditions (PFAOMC), and factitious disorder, as well as other specified and unspecified somatic symptom and related disorder categories. The criteria for disorders throughout the chapter have been streamlined and simplified, with an emphasis on the development of diagnostic criteria that can be useful in medical clinics and among nonpsychiatric health professionals.

The term *hypochondriasis* was eliminated in DSM-5 because it was deemed pejorative and counterproductive to the development of a therapeutic alliance. It was also a term with a long, complex history that led to a broad spectrum of ideas about its meaning and etiology. DSM-5 splits hypochondriasis into two diagnostic clusters. Most people with DSM-IV hypochondriasis have significant health anxiety in the presence of significant somatic symptoms; in DSM-5, these people are described as having SSD. Perhaps 25% of individuals with elevated health anxiety lack significant somatic complaints; they are diagnosed with illness anxiety disorder (IAD), which is new in DSM-5. DSM-5 takes a similar approach to individuals who appear to have abnormal thoughts, feelings, and behaviors in the context of pain. Individuals who would have been diagnosed with a DSM-IV pain disorder generally fall under the DSM-5 SSD umbrella, with the specifier "with predominant pain." Some people with abnormal thoughts, feelings, and behaviors related to pain may be best categorized as having DSM-5 psychological factors affecting other medical conditions (PFAOMC), a diagnosis that was previously included in the DSM-IV chapter "Other Conditions That May Be a Focus of Clinical Attention." PFAOMC refers to a condition in which psychological or behavioral factors adversely influence a medical condition. An example would be denial of the significance of chest pain, leading to delayed medical intervention. Although it is new to DSM, the diagnosis of PFAOMC is likely to be quite common.

The exploration of medically unexplained symptoms is de-emphasized in DSM-5, and most of the disorders in this chapter do not require that the clinician "rule out" physiologically based medical conditions. DSM-5 conversion disorder, also known as functional neurological symptom disorder, is somewhat different. Its symptomatic criteria include altered voluntary motor or sensory function along with evidence that there is incompatibility between the symptom and recognized neurological or medical conditions. Specifiers for conversion disorder include symptoms (e.g., weakness or seizures), duration (e.g., acute or persistent), and the presence or absence of a relevant psychological stressor.

Factitious disorder is the conscious production of false signs or symptoms. As with conversion disorder, exploration of possible factitious disorder requires that the clinician consider the possibility that the patient's symptoms are not based on physiologically mediated illness. Such an approach need not be inevitably adversarial, and it is useful to balance the necessary skepticism with professional curiosity when the patient's presentation does not seem to be making sense.

As seen throughout DSM-5, the chapter on somatic symptom and related disorders includes an unspecified category that is best used when symptoms are suggestive but information is limited. The "other specified" category is used when clinicians make a decision that an individual has characteristic features of a specific somatic symptom disorder and has significant distress and/or dysfunction but does not quite meet the stated criteria for that particular disorder. For example, a patient might meet all the criteria for SSD or IAD but have had symptoms for less than the required 6 months; the patient would then be noted to have brief SSD or brief IAD. The other two

diagnoses within this other specified category are IAD without excessive health-related behaviors and pseudocyesis (i.e., false pregnancy).

Along with patients with nonepileptic seizures (pseudoseizures), a type of conversion disorder, who can be diagnosed through negative electroencephalograms in the presence of seizure activity, patients with symptoms of a pregnancy can be diagnosed with pseudocyesis via a pregnancy test. In general, however, the assessment of patients with somatic symptom and related disorders should not focus on the detection of falsehood or the aggressive pursuit of an unconscious etiology. Instead, the primary aim is to identify common clusters of thoughts, feelings, and behaviors that cause distress and/or dysfunction and that can then be the focus of effective clinical attention.

Suggested Readings

Dimsdale JE, Xin Y, Kleinman A, et al (eds): Somatic Presentations of Mental Disorders: Refining the Research Agenda for DSM-V. Arlington, VA, American Psychiatric Association, 2009

Friedman JH, LaFrance WC Jr: Psychogenic disorders: the need to speak plainly. Arch Neurol 67(6):753–755, 2010

MacKinnon RA, Michels R, Buckley PJ: The psychosomatic patient, in The Psychiatric Interview in Clinical Practice, 2nd Edition. Washington, DC, American Psychiatric Publishing, 2006, pp 447–460

Case 9.1Pain and Depression

James A. Bourgeois, O.D., M.D.

Michelle Adams, a 51-year-old former hairdresser, came to a psychiatric clinic at the urging of her primary care doctor. A note sent ahead revealed that she had been tearful and frustrated at her last medical appointment, and her doctor, who had been struggling to control her persistent back pain, felt that an evaluation by a psychiatrist might be helpful.

Greeting Ms. Adams in the waiting room, the psychiatrist was struck by both her appearance and her manner: here was a woman with shaggy silver hair and dark sunglasses, seated in a wheelchair, who offered a limp handshake and a plaintive sigh before asking the psychiatrist if he would mind pushing her wheelchair into his office. She was tired from a long commute, and, she explained, "Nobody on the street offered to help me out. Can you believe that?"

Once settled, Ms. Adams stated that she had been suffering from unbearable back pain for the last 13 months. On the night "that changed everything," she had locked herself out of her apartment and, while trying to climb in through a fire escape, had fallen and fractured her pelvis, coccyx, right elbow, and three ribs. Although she did not require surgery, she was bed-bound for 6 weeks and then underwent several months of physical therapy. Daily narcotic medication was only moderately helpful. She had seen "a dozen" doctors in various specialties and tried multiple treatments, including anesthetic injections and bioelectric stimulation therapy, but her pain was unrelenting. Throughout this ordeal and for years prior, Ms. Adams smoked marijuana daily, explaining that a joint enjoyed in hourly puffs softened her pain and helped her to relax. She did not drink alcohol or use other illicit drugs.

Prior to the accident, Ms. Adams had worked at a neighborhood salon for more than 20 years. She was proud to have a number of devoted clients, and she relished the camaraderie with her colleagues, whom she referred to as "my real family." She had been unable to return to work since her accident on account of the pain. "These doctors keep telling me I'm good to go back to work," she said with visible anger, "but they don't know what I'm going through." Her voice broke. "They don't believe me. They think I'm lying." She added that although friends reached out after the accident, lately they had seemed less sympathetic. She let the calls go to voice mail most of the time because she just did not feel up to socializing on account of the pain. In the last month, she had stopped bathing daily and gotten slack about cleaning her apartment. Without the structure of work, she often found herself up until 5:00 A.M., and pain woke her several times before she finally got out of bed in the afternoon. As for her mood, she

said, "I'm so depressed it's ridiculous." She often felt hopeless of any possibility of living without pain but denied ever thinking of suicide. She explained that her Catholic faith prevented her from considering taking her own life. Ms. Adams had never seen a psychiatrist before and did not recall ever having felt depressed prior to her accident, although she described a "hot temper" as a family trait. She spoke of only one meaningful romantic relationship, years ago, with a woman who was emotionally abusive. When asked about any legal difficulties, she revealed several arrests for theft in her 20s. She was "in the wrong place at the wrong time," she said, and was never convicted of a crime.

Diagnoses

- Somatic symptom disorder, with predominant pain, persistent, moderate to severe
- Cannabis use disorder
- Major depression

Discussion

Ms. Adams presents with a history of pain since her fall the year before. She has received care, rehabilitation, and various invasive outpatient procedures, yet her pain and its associated socially limiting dysfunction persist and have escalated. She has become, in an apparent crescendo of psychiatric comorbidity, increasingly depressed, to the point where she now manifests mood, motivation, self-care, and sleep symptoms. It would be necessary to elicit more information in order to confirm a diagnosis of major depression, but she does appear likely to meet criteria.

In addition, Ms. Adams uses marijuana daily. She appears to have become behaviorally dependent on it for its mildly analgesic and anxiolytic properties. She does not seem to see it as a problem. Nevertheless, she is chronically depressed, amotivated, and poorly functional, and is using daily an illicit substance known to induce exactly those effects. She likely qualifies, therefore, for a cannabis use disorder in DSM-5. It would also be useful to explore the possibility of a cannabis-induced major depression.

In addition to the depression and the cannabis abuse, Ms. Adams appears to have excessive thoughts, feelings, and behaviors related to her pain and physical debility. They have persisted for a year and are quite debilitating. Ms. Adams qualifies, therefore, for DSM-5 somatic symptom disorder (SSD), with a specifier of "predominant pain." In her case, the pain has taken on a "life of its own," far after the initial medical recovery period. It is important to recall that pain disorder is no longer considered a discrete illness in DSM-5 but instead is viewed as one of the SSDs.

As illustrated in this case, it is common for patients with SSDs to develop secondary mood and substance use disorders. In terms of phenomenology, it is often useful to approach such cases by sequentially ascertaining the "tri-morbidity" of somatic symptom (pain in this case), mood disorder, and substance use. As presented in this quite common narrative, the patient was functioning well without apparent disabling psychiatric illness or substance use until the emergence of overwhelming and persistent pain. Therefore, the "primary" illness is the SSD, with mood and substance problems "derivative" from the initial somatic symptom.

The diagnostic phase is often marked by multiple potential pitfalls. Patients with SSDs will usually be seen in primary care or nonpsychiatric specialty medical clinics and may balk at a psychiatric referral. Although only tangentially suggested in Ms. Adams's history, excess use of opioid analgesia often becomes the initial psychiatric focus, as well as the initial potential conflict. Psychiatrists may find themselves in a power struggle over opiates within 30 minutes of first meeting the patient. Thus, patients like Ms. Adams are at risk of not getting thorough evaluations for readily treatable disorders, such as depression and substance abuse, and therefore of not beginning the process of converting their pain from a catastrophe to a chronic but manageable symptom.

Suggested Readings

Bourgeois JA, Kahn D, Philbrick KL, Bostwick JM, et al: Casebook of Psychosomatic Medicine. Washington, DC, American Psychiatric Publishing, 2009

Dimsdale J, Sharma N, Sharpe M: What do physicians think of somatoform disorders? Psychosomatics 52(2):154–159, 2011

Case 9.2Somatic Complaints

James L. Levenson, M.D.

Norma Balaban, a 37-year-old married woman, was referred by her primary care physician for evaluation of depression and multiple somatic symptoms. She had been generally healthy until a year earlier, other than binge eating and obesity, and had undergone gastric bypass surgery 6 years earlier.

As she entered the consulting room, Ms. Balaban handed the psychiatrist a three-page summary of her physical concerns. Nocturnal leg spasms and daytime leg aches had been her initial concerns. She then developed sleep difficulties that led to "brain fog" and head heaviness. She had intermittent cold sensations in her extremities, face, ears, eyes, and nasal passages. Pulsating sensations in her eyes were, she thought, more pronounced after a poor night's sleep. In recent months, she had developed difficulty urinating, menstrual irregularity, and multiple muscle complaints, including right gluteal pain with a burning sensation into her right thigh. She also had neck stiffness with accompanying thoracic back spasms.

Ms. Balaban's primary care physician had evaluated the initial symptoms and then referred her to a rheumatologist and a neurologist. The rheumatologist diagnosed mechanical back pain without evidence of inflammatory arthritis. She had also diagnosed possible migraines with peripheral neuropathic and ocular symptoms. The neurologist noted that Ms. Balaban was also being evaluated by a neurologist at another medical center and by a neuroophthalmologist at our center. The neurologist's diagnosis was "atypical migraine variant," but she noted that "the patient seemed to also have a significant degree of depression, which might be aggravating the symptoms or even be an underlying precipitating factor." A review of tests done at the two local medical centers indicated that she had received the following essentially normal tests: two electroencephalograms, an electromyogram, three brain and three spinal magnetic resonance images, two lumbar puncture studies, and serial laboratory exams. Psychiatric consultation had been recommended, but the patient declined until repeatedly urged by her primary care physician.

Ms. Balaban initially spoke to the psychiatrist primarily about her physical complaints. She was very frustrated that despite having seen several specialists, she had received no clear diagnosis, and she was still very concerned about her symptoms. She had started taking fluoxetine and gabapentin, prescribed by her primary care physician, and experienced partial improvement in her mood and some of her pains. She found it difficult to concentrate and complete her work and was spending a lot of time on the Internet researching her symptoms. She also felt bad about not spending enough time with her children or husband but just did not have the energy. She acknowledged bouts of depressed mood over the prior year with some anhedonia and occasional thoughts of suicide (she had considered crashing her car), but no anorexia or guilt. She described having premenstrual depressive symptoms for about a year.

Ms. Balaban had been treated for postpartum depression 6 years earlier after the birth of her second child. Family history was significant for cancer, depression, and hypertension.

Ms. Balaban lived with her husband and their daughters, ages 10 and 6 years. Her husband was being treated for depression. The patient graduated from college and was the longtime administrative assistant to a dean at the local university. She grew up in a small town in a rural area. She reported a happy childhood and denied any experiences of physical or sexual abuse. There was no history of any substance abuse.

On mental status examination, the patient was alert, casually but neatly dressed, cooperative, and not at all defensive. Her mood and affect were depressed, and she demonstrated psychomotor retardation. There were no abnormalities of thought process or content, no abnormalities of perception, and no evident cognitive dysfunction.

Diagnosis

Somatic symptom disorder

Discussion

Ms. Balaban devotes an inordinate amount of time and energy to thinking about, documenting, and seeking care for her somatic symptoms. Those symptoms are distressing to her and interfere with her ability to function. She has been symptomatic at least 6 months. She meets criteria for DSM-5 somatic symptom disorder (SSD).

SSD is a new diagnosis in DSM-5 and reflects significant change from earlier classification systems. SSD symptoms can begin at any age, although the excess concern about somatic symptoms should generally persist at least 6 months. DSM-5 also emphasizes the importance of abnormal thoughts, feelings, and behaviors in response to the somatic symptoms, rather than whether there is a medical cause for the physical symptoms.

Ms. Balaban's large number of seemingly unrelated physical symptoms does suggest a psychiatric component to her complaints. It is possible that she has undiagnosed medical conditions that could account for many of her symptoms (e.g., multiple sclerosis), but such a medical diagnosis would be unlikely to affect the DSM-5 diagnosis. She would still probably be viewed as having excessive thoughts, feelings, or behaviors related to her symptoms and health concerns. In other words, the core issue in SSD is not the symptoms but rather the interpretation of the symptoms.

One ramification of this shift from the DSM-IV to the DSM-5 diagnosis is that the latter is not grounded in the *absence* of an explanation. The effort to prove that the patient lacks a pertinent medical diagnosis can lead to excessive testing, as seen in Ms. Balaban's situation. In addition, an extensive search for a negative can lead to an adversarial situation, such that the patient has to try to convince her physicians that she has a problem, and the physicians often feel pulled to order more tests, seek more consultations, and hope the patient finds a new primary physician. When a psychiatric label is eventually attached, the patient is likely to view the term as pejorative and to feel dismissed. The DSM-5 diagnosis of SSD should sidestep this conflict. Patients with SSD generally do have medical problems, but the psychiatric focus becomes the ways their thoughts, feelings, and behaviors are affected by their physical complaints.

Patients who present with excessive physical complaints often have psychiatric diagnoses from outside the somatic symptom and related disorders category. Although Ms. Balaban does not appear to meet full criteria for the diagnosis of major depressive disorder, she has prominent depressive symptoms, including some suicidal ideation. She also has a history of postpartum depression requiring psychiatric care. This history brings up the possibility of undiagnosed bipolar disorder as well as a possible depressive diagnosis. She has "nocturnal leg spasms" and could have DSM-5 restless legs syndrome, which could lead to insomnia and an exacerbation of somatic concerns. Further evaluation of Ms. Balaban would explore current and past depression, mania, and hypomania, as well as consider possible eating, sleeping, and opiate use disorders.

Suggested Readings

Dimsdale JE: Medically unexplained symptoms: a treacherous foundation for somatoform disorders? Psychiatr Clin North Am 34(3):511–513, 2011

Dimsdale J, Creed F; DSM-V Workgroup on Somatic Symptom Disorders: The proposed diagnosis of somatic symptom disorders in DSM-V to replace somatoform disorders in DSM-IV: a preliminary report. J Psychosom Res 66(6):473–476, 2009

Levenson JL: The somatoform disorders: 6 characters in search of an author. Psychiatr Clin North Am 34(3):515– 524, 2011

Case 9.3Chronic Lyme Disease

Robert Boland, M.D.

Oscar Capek, a 43-year-old man, was brought by his wife to an emergency room (ER) for what he described as a relapse of his chronic Lyme disease. He explained that he had been fatigued for a month and bedridden for a week. Saying he was too tired and confused to give much information, he asked the ER team to call his psychiatrist.

The psychiatrist reported that he had treated Mr. Capek for more than two decades. He first saw Mr. Capek for what appeared to be a panic attack. It resolved quickly, but Mr. Capek continued to see him for help coping with his chronic illness. Initially a graduate student pursuing a master's degree in accounting, Mr. Capek dropped out of school over worries that the demands of his studies would exacerbate his disease. Since then, his wife, a registered nurse, had been his primary support. He supplemented their income with small accounting jobs but limited these lest the stress affect his health.

Mr. Capek usually felt physically and emotionally well. He deemed that his occasional fatigue, anxiety, and concentration difficulties were "controllable" and did not require treatment. He was typically averse to psychotropic medications and took a homeopathic approach to his disease, including exercise and proper nutrition. When medication was required, he used small doses (e.g., one-quarter of a 0.5-mg lorazepam pill). His psychiatric sessions were commonly devoted to concerns about his underlying disease; he would often bring in articles on chronic Lyme disease for discussion and was active in a local Lyme disease support group.

Mr. Capek's symptoms would occasionally worsen. This occurred less than yearly, and these "exacerbations" usually related to some obvious stress. The worst was 1 year earlier when his wife briefly left him following his revelation of an affair. Mr. Capek expressed shame about his behavior toward his wife—both the affair and his inability to support her. He subsequently cut off contact with the other woman and attempted to expand his accounting work. The psychiatrist speculated that similar stress was behind his current symptoms.

The psychiatrist communicated regularly with Mr. Capek's internist. All testing for Lyme disease thus far had been negative. When the internist explained this, Mr. Capek became defensive and produced literature on the inaccuracy of Lyme disease testing. Eventually, the internist and psychiatrist had agreed on a conservative treatment approach with a neutral stance regarding the disease's validity.

On examination, Mr. Capek was a healthy, well-developed adult male. He was anxious and spoke quietly with his eyes closed. He frequently lost his train of thought, but with encouragement and patience, he could give a detailed history that was consistent with the psychiatrist's account. Physical examination was unremarkable. Lyme disease testing was deferred given his past negative tests. A standard laboratory screen was normal with the exception of a slightly low hemoglobin value. On hearing about the low hemoglobin, Mr. Capek became alarmed, dismissed reassurances, and insisted this be investigated further.

Diagnosis

Illness anxiety disorder, care-seeking type

Discussion

Mr. Capek insists that he has a disabling disease despite more plausible explanations. His insistence is undeterred by negative testing and contributes to chronic health anxieties and poor functioning. Previous systems of categorization, including DSM-IV, would consider Mr. Capek to have "hypochondriasis," but DSM-5 takes a different approach.

Partly because the diagnosis hypochondriasis was considered pejorative and not conducive to an effective doctorpatient relationship, and partly because it encouraged an excessively thorough effort to "prove a negative," patients who would previously have been said to have hypochondriasis are now diagnosed with one of two DSM-5 disorders: somatic symptom disorder (SSD) or illness anxiety disorder (IAD).

SSD is defined as an excessive or maladaptive response to somatic symptoms. In regard to Mr. Capek, the key diagnostic issue is that SSD requires significant physical symptoms. Although it is thought that most patients with DSM-IV hypochondriasis will have DSM-5 SSD, some will be better described by IAD, which is intended to describe patients with a conviction that they have a serious illness, coupled with prominent health anxieties and either excessive health-related behaviors or maladaptive avoidance. The important distinguishing factor is that physical symptoms in IAD are either completely absent or only mild in intensity.

Mr. Capek's symptoms appear to best fit IAD. Although he does have occasional symptoms, he usually feels healthy; the chief problem is that he believes he has an underlying disease and has organized his life to avoid triggering it. His behavior toward the likely insignificant hemoglobin test demonstrates his hypersensitivity toward any indication of worsening health. This maladaptive approach to his assumed illness, along with his preoccupation with the disease, appears to be his main pathology.

As with any SSD, there are many important rule-outs. Most important is the possibility of a yet-undiscovered medical illness. Even if Lyme disease is unlikely, there are several recognized albeit ill-defined syndromes, including chronic fatigue, immune dysfunction syndrome, and fibromyalgia that, although easily overlooked, seem to characterize a subset of patients who do not easily fit into alternative categories. It is important for the psychiatrist to consider undiagnosed medical illnesses and not move too quickly to an SSD diagnosis, because once the patient's symptoms are attributed to a psychiatric diagnosis, the medical workup tends to cease. In this case, the availability of an extended medical and psychiatric history increases diagnostic confidence.

Multiple psychiatric diagnoses are possible. Mr. Capek has a history of panic attacks. He is anxious and likely depressed at times; in a single encounter, it can be difficult to distinguish these symptoms from an SSD. Mr. Capek's illness worry persists despite evidence to the contrary, which brings up the possibility that he is psychotic. Although it can be difficult to judge where somatic preoccupation ends and a delusion begins, Mr. Capek's ideas do not attain the rigidity and intensity seen in the somatic delusions that are part of delusional disorder, schizophrenia, and major depressive disorder with psychotic features; furthermore, his illness concern is plausible and lacks the bizarre quality generally found in delusions. For example, in reminding his doctor that a Lyme test is not perfect, he is not being irrational but merely overvaluing an unlikely explanation.

Obsessive-compulsive disorder shares many features with IAD, and the distinction between the two may be more practical than meaningful. For now, the patient has a single obsession with health concerns. He does not have various associated concerns, such as contamination fears. Thus, IAD is a better diagnostic fit than obsessive-compulsive disorder.

Especially useful in confirming the presence of an IAD (and excluding multiple other psychiatric diagnoses) is the collateral information obtained from a psychiatrist who has known Mr. Capek for decades.

Historically, a diagnosis within the somatoform or somatic disorders cluster would require some assessment of the rationale behind the disorder (i.e., the gains that result from the debility). This effort, however, was made difficult by the rarity of actual confirmation of the hypotheses. Aside from the factitious disorder diagnosis, DSM-5 does not require any attempt to deduce underlying motivation when evaluating for an SSD. Nevertheless, in the process of understanding Mr. Capek's situation, it is difficult not to consider the reinforcing role of certain types of secondary gain. Although the patient is clearly suffering from his disorder, it has given him relief from many responsibilities and a potential excuse for inappropriate behaviors. Undermining these reinforcing agents must be a part of any meaningful treatment. An equally important role for the psychiatrist is to help reduce the iatrogenic harm that can be done by overzealous providers and help the patient and the medical team pursue a conservative, nonjudgmental approach.

Suggested Readings

Abramowitz JS, Braddock AE: Hypochondriasis: conceptualization, treatment, and relationship to obsessivecompulsive disorder. Psychiatr Clin North Am 29(2):503–519, 2006

Harding KJ, Skritskaya N, Doherty E, Fallon BA: Advances in understanding illness anxiety. Curr Psychiatry Rep 10(4):311–317, 2008

Rachman S: Health anxiety disorders: a cognitive construal. Behav Res Ther 50(7-8):502-512, 2012

Sirri L, Grandi S: Illness behavior. Adv Psychosom Med 32:160-181, 2012

Case 9.4Seizures

Jason P. Caplan, M.D., Theodore A. Stern, M.D.

Paulina Davis, a 32-year-old single African American woman with epilepsy first diagnosed during adolescence and no known psychiatric history, was admitted to an academic medical center after her family found her convulsing in her bedroom. Before she was taken to the emergency room (ER), emergency medical services had administered several doses of lorazepam, with no change in her presentation. On her arrival in the ER, a loading dose of fosphenytoin was given that successfully stopped the convulsive activity. Laboratory studies of samples obtained in the ER revealed therapeutic levels of her usual antiepileptics and no evidence of any infection or metabolic disturbance. Urine toxicology screens were negative for use of illicit substances. Ms. Davis was subsequently admitted to the neurology service for further monitoring.

During her admission, a routine electroencephalogram (EEG) was ordered. Shortly after the study began, Ms. Davis began convulsing; this prompted administration of intravenous lorazepam. When the EEG was reviewed, no epileptiform activity was identified. Ms. Davis was subsequently placed on video-EEG (vEEG) monitoring while her antiepileptics were tapered and discontinued. In the course of her monitoring, Ms. Davis had several episodes of convulsive motor activity; none were associated with epileptiform activity on the EEG. Psychiatric consultation was requested.

On interview, Ms. Davis denied prior psychiatric evaluations, diagnoses, or treatments. She denied having depressed mood or any disturbance of sleep, energy, concentration, or appetite. She reported no thoughts of harming herself or others. She endorsed no signs or symptoms consistent with mania or psychosis. There was no family history of psychiatric illness or substance abuse. Her examination revealed a well-groomed woman, sitting on her hospital bed with EEG leads in place. She was pleasant and easily engaged and made good eye contact. Cognitive testing revealed no deficits.

Ms. Davis noted that she had recently moved to the state to start graduate school; she was excited to start her studies and "finally get my career on track." She denied any recent specific psychosocial stressors other than her move and stated, "My life is finally where I want it to be." She was future oriented and concerned about the impact that her seizures might have on her long-term health and was worried that a protracted hospitalization might cause her to miss the first day of classes (only a week away from the time of the interview). Moreover, she was quite concerned about the costs of her hospitalization because her health insurance coverage did not begin until the school semester commenced and the payment for extended benefits coverage from her previous employer would have a significant impact on her budget.

When the findings of the vEEG study were discussed with Ms. Davis, she quickly became quite irritable, asking, "So, everyone thinks I'm just making this up?" She was not calmed by her treaters' attempts to clarify that they did not believe her to be faking her symptoms or by their reassurance that her symptoms might be helped by psychotherapy. Ms. Davis pulled her EEG leads from her scalp, dressed herself, and left the hospital against medical advice.

Diagnosis

• Conversion disorder (functional neurological symptom disorder) with attacks or seizures, chronic

Discussion

In DSM-5, the diagnosis of conversion disorder continues to describe a syndrome of one or more symptoms of altered sensory or motor function that cause significant distress or impairment of function and that cannot be accounted for by a recognized medical or neurological condition. The primary revision from the DSM-IV criteria is that the diagnosing clinician is no longer required to identify stressors, conflicts, or other psychological factors believed to precipitate or exacerbate the presenting symptoms. Furthermore, although DSM-IV provided four specifiers for the diagnosis (with motor symptoms, with sensory symptoms, with seizures or convulsions, and with mixed presentation), DSM-5 allows for greater diagnostic clarification by including seven specifiers of the medically unexplained presenting symptoms, along with an option for mixed symptoms. DSM-5 also includes modifiers for duration of symptoms: acute (less than 6 months) and persistent (more than 6 months).

The differential diagnosis of patients presenting with medically unexplained symptoms may include factitious disorder or malingering if it is believed that the patient is deliberately producing the symptoms. Presentations marked by significant worry or by behaviors prompted by the perception of illness or symptoms may be due to somatic symptom disorder or illness anxiety disorder. If conversion disorder is diagnosed, clinicians should be aware of the common co-occurring findings of depression, chronic pain disorders, fatigue, and a history of abuse.

Ms. Davis presents with chronic convulsive episodes that are not associated with epileptiform EEG findings. Although it is not necessarily uncommon for a patient with nonepileptic seizures (NES) to also be diagnosed with epileptic seizures (most experts agree that the prevalence of comorbid NES in epilepsy is about 10%), the clear majority of patients found to have NES have no need for ongoing treatment with antiepileptic medications. Likely due to the dramatic nature of the presentation and the costs involved in hospital care, the NES variant of conversion disorder garners much of the attention in the professional literature, although this condition has been found to account for only around one-fourth of all conversion disorder presentations. Although even recent editions of textbooks have made reference to the phenomenon of *la belle indifférence* (an apparent lack of concern exhibited by the patient regarding his or her symptoms) as indicative of a conversion diagnosis, available evidence does not support this finding as having any bearing on discriminating between organic illness and conversion. Although patients may become angry upon learning of a diagnosis of conversion disorder, the focus of discussion should be on the good news: that they will not be exposed to unnecessary medication or studies, and that treatment—in the form of psychotherapy—is available.

Suggested Readings

Driver-Dunckley E, Stonnington CM, Locke DE, Noe K: Comparison of psychogenic movement disorders and psychogenic nonepileptic seizures: is phenotype clinically important? Psychosomatics 52(4):337–345, 2011

Schachter SC, LaFrance WC Jr (eds): Gates and Rowan's Nonepileptic Seizures, 3rd Edition. New York, Cambridge University Press, 2010

Stone J, Smyth R, Carson A, et al: La belle indifférence in conversion symptoms and hysteria: systematic review. Br J Psychiatry 188:204–209, 2006

Case 9.5Abdominal Pain

Joseph F. Murray, M.D.

A hospital-based psychiatric consultation-liaison service was called to assess possible depression in Rebecca Ehrlich, a 24-year-old woman who had been hospitalized 2 days earlier for severe abdominal pain. She had been admitted through the emergency room for the latest flare-up of her underlying Crohn's disease. The consultation was called after the nurses became concerned that she was sad and lonely and was having a difficult time adjusting to her medical condition.

Ms. Ehrlich was interviewed by the medical student on the psychiatry service. The patient indicated that the pain was excruciating and that she was neither sad nor lonely but was simply visiting from out of town, so no one knew she was even in the hospital. She told the medical student that her only previous therapy had been in college, when she went to student health services to get help for anxiety about test taking and her career choice. She had successfully completed a short course of cognitive-behavioral therapy, and the anxiety had not reappeared. She denied any other psychiatric history and had never taken psychiatric medication. In college, she studied psychology and worked part-time as a hospital orderly. Ms. Ehrlich had considered a career in medicine or nursing and asked the student how he had decided to go to medical school.

Ms. Ehrlich said that she had previously worked regularly and had "quite a few friends" but that the recurrent abdominal pain had wrecked her social life and her job prospects. She had lost a job the year before because of absenteeism and had missed several job interviews due to her Crohn's flares. She had dated as a teenager but had been single since college. These things "were not the end of the world, but how would you feel?" As a member of an online bowel disorders support group, Ms. Ehrlich e-mailed other members on a daily basis. She added that the only person in the family who "got" her was an aunt who also had Crohn's disease.

The primary medical team was having difficulty obtaining collateral information from previous physicians, but the medical student was able to contact Ms. Ehrlich's mother. She did not know the exact names or phone numbers of her daughter's medical providers but did recall some of the hospitals and could recall, approximately, some of the physicians' names. She added that her daughter had not wanted her to be involved in her care and had not told her she was out of town, much less that she was in the hospital. She did say that the Crohn's disease had been diagnosed 2 years earlier, during her daughter's last semester of college. The mother estimated that Ms. Ehrlich had been hospitalized at least six times, in contrast with the daughter's report of two earlier hospitalizations. Neither the gastrointestinal (GI) team nor the medical student was able to locate Ms. Ehrlich's primary gastroenterologist, whose name the patient could only spell phonetically.

On examination, Ms. Ehrlich was cooperative and conversant, and appeared comfortable. Her speech was fluent. She appeared calm and unworried about her upcoming procedures. Her thought process was linear. She denied paranoia, hallucinations, or suicidality. Attention and both recent and remote memory were intact. She acknowledged that it had been difficult living with Crohn's disease, but she was optimistic that her symptoms would improve. She denied depressive symptoms. She looked sad at the beginning of the interview, but she appeared more engaged and euthymic the more she talked. She could not explain why the team was unable to locate her doctor and became irritated when the medical student pressed more specifically to elicit further details about her prior care. She was taken to have an endoscopy and a colonoscopy at the end of the interview.

Ms. Ehrlich's endoscopy and colonoscopy results were normal. That evening, the medical student from psychiatry sat in with the GI team as they reviewed the normal results with the patient. She said she was relieved there was no longer anything seriously wrong with her. The GI team told her that she could be discharged the next morning and that she should have her internist call them. She readily agreed.

After the GI team left, Ms. Ehrlich told the student that she was "feeling better already." She quickly removed her own intravenous line and started to get dressed. The student went to get the primary GI team. When they returned, the patient was gone.

The medical student spent much of the next day calling hospitals and physicians that met descriptions provided by the patient and her mother. That afternoon, one of the physicians called back and indicated that he had treated Ms. Ehrlich 6 months earlier at a hospital near her mother's home. That admission was strikingly similar: after a short hospitalization, she quickly fled from the hospital after a normal colonoscopy.

Diagnosis

Factitious disorder, recurrent

Discussion

The diagnosis of factitious disorder describes a cluster of behaviors in Ms. Ehrlich that might otherwise have remained confusing. Ms. Ehrlich meets all of the DSM-5 criteria for factitious disorder: she pre-sents herself as ill by falsifying symptoms; there are no obvious rewards to the hospitalization; and there is not an obvious alternative diagnosis such as a psychotic disorder. Although Ms. Ehrlich's inability to verify specific past providers might have been a clue to the possibility of deceit, confirmation of the diagnosis came only after Ms. Ehrlich's discharge, when the intrepid medical student was able to clarify a recurrent pattern of dishonesty.

The motivation for the "falsification" and "deceptive behavior" in factitious disorder is not clear. DSM-5 indicates that the symptoms exist without obvious external rewards. In contrast, DSM-IV described the motivation factor for factitious disorder as the assumption of the sick role. Although Ms. Ehrlich may well have been seeking the care of the members of the hospital staff, there is no way of knowing the sorts of subconscious (and conscious) motivators that might be at play. It does appear, however, that Ms. Ehrlich has factitious disorder rather than malingering, a diagnosis that is also notable for conscious symptom production. Malingering differs from factitious disorder in that the former is motivated by concrete factors such as money, housing, and substances of abuse. In practice, patients may have elements of multiple disorders. For example, Ms. Ehrlich might have been subconsciously motivated by taking on the sick role but might also have enjoyed the ready access to intravenous opiates.

Subjective complaints such as psychiatric symptoms and pain are easier to feign. Patients with factitious disorder may claim depression, for example, following the death of a loved one who has not died. They may add blood to a urine sample, ingest insulin or warfarin, inject fecal matter, or claim to have had a seizure. It is very easy to learn how to mimic diseases. Ms. Ehrlich could have learned about Crohn's disease from an Internet search, for example, or if she indeed has an aunt who has Crohn's disease, then she might have copied symptoms that she had observed. Or she could have learned about it from her work as a hospital orderly.

It is not surprising that clinicians frequently have a strong negative countertransference to a patient who falsifies symptoms. Such patients exploit clinicians' desire to care for the sick by pretending to be ill. It is incumbent on all providers to remember that patients with factitious disorder *are* quite ill, but not in the way they pretend. Medical illness presents in many ways, and it is obviously important to explore a range of possible diagnoses. On the other hand, the possibility of deceit—whatever the patient's underlying motivation—should lead health professionals to pay attention when symptoms are not making sense. Overly extensive and sometimes risky tests and procedures can be an iatrogenic consequence of medical diligence. Given that up to 1% of the hospitalized population is estimated to have factitious disorder, one need not be a cynic to include it in the differential diagnosis.

Suggested Readings

Eastwood S, Bisson JI: Management of factitious disorders: a systematic review. Psychother Psychosom 77(4):209–218, 2008

Fliege H, Grimm A, Eckhardt-Henn A, et al: Frequency of ICD-10 factitious disorder: survey of senior hospital consultants and physicians in private practice. Psychosomatics 48(1):60–64, 2007

Krahn LE, Li H, O'Connor MK: Patients who strive to be ill: factitious disorder with physical symptoms. Am J Psychiatry 160(6):1163–1168, 2003

Case 9.6Breathlessness

Janna Gordon-Elliott, M.D.

Sophie Fredholm was a 26-year-old woman with cystic fibrosis (CF) who was brought to the hospital with symptoms of respiratory distress. On the fourth day of her hospitalization, the intensive care unit called a psychiatric consultation for "noncompliance with treatment." The patient was refusing to wear the bivalve positive air pressure (BiPAP) device and was consistently found to be hypoxic and hypercarbic. The patient told the psychiatrist that she could not tolerate the BiPAP device because it made her claustrophobic and short of breath. She had been sleeping poorly and waking frequently with breathlessness and panic. She felt trapped in her windowless room, and worried that the doctors and nurses were not coming to see her frequently enough. She did not feel that the BiPAP device was as necessary as the doctors were saying, and she felt that they were just treating her like "the typical CF patient" and thus insisting she use the BiPAP device without figuring out if she really needed it or not.

In gathering a history, the consultant learned that Ms. Fredholm had grown up in a small town, with her parents and two older healthy siblings. Her mother, a school nurse, had administered her daily pulmonary treatments, calling it their "playtime" and singing songs and telling stories to pass the time. When the patient became an adolescent, she would frequently refuse the treatments and tell her parents she wanted to be "out like a normal kid," although she would regularly decline invitations to parties and sleepovers at the last minute, saying she was having trouble breathing.

During the psychiatric interview, Ms. Fredholm was continuously adjusting her oxygen face mask, taking it off for a few minutes, and then stopping to say she was too short of breath to continue talking. She was breathing fast and appeared tremulous. She repeatedly glanced through the open door of her room, and wondered aloud when her mother would be getting back from lunch in the cafeteria. She wanted her mother to talk to the doctors about the BiPAP device. She and her mother, she said, knew how to manage her symptoms better than the doctors did; she was sure she would feel better in a couple of days. She said, "They are just making me more anxious talking about BiPAP; they're not listening to me."

Later that night, because of rising carbon dioxide levels, Ms. Fredholm was intubated.

Diagnosis

Psychological factors affecting other medical conditions

Discussion

The case of Ms. Fredholm illustrates how physiological and psychological factors interact in complex ways to influence symptoms, emotions, behaviors, and medical care. In refusing elements of her treatment (i.e., BiPAP), Ms. Fredholm impedes optimal management and perhaps contributes to a negative outcome (intubation). Her behavior seems to be related to primary affect states (anxiety) as well as emotionally laden beliefs (that others cannot know her body's needs as well as she and her mother do; that she has been abandoned; that she is not like other patients). Her anxiety may in turn cause physiological changes (e.g., hypoxia, cerebral vasoconstriction) that further contribute to the experience of anxiety.

The DSM-5 diagnosis of psychological factors affecting other medical conditions (PFAOMC) describes a cluster of patients who have a medical problem that is adversely affected by psychological or behavioral factors. These

factors include psychological distress, patterns of interpersonal interaction, coping styles, and maladaptive coping strategies such as denial of symptoms and poor adherence to medications, diagnostic tests, and treatments. The diagnosis is reserved for situations, like that of Ms. Fredholm, in which the psychological or behavioral issues lead directly to an exacerbation of the medical condition.

The differential diagnosis for PFAOMC is broad. Somatic symptom disorder (SSD), illness anxiety disorder (IAD), and factitious disorder also pre-sent with a blurring of psychological and physical signs and symptoms, and commonly leave the clinician with the impression that patients' medical issues are in some way related to underlying emotional issues. In contrast to PFAOMC, SSD and IAD focus on situations in which the perception of— or fear of—physical symptoms influences emotions or behavior, rather than the reverse. People with factitious disorder induce medical complications by their behavior, but theirs is a conscious effort at deception.

Many psychiatric conditions—ranging from the substance use disorders to the psychotic, mood, and anxiety disorders—are associated with behaviors that can worsen a comorbid medical condition. In such cases, the other psychiatric condition should generally be noted rather than PFAOMC.

At times, however, the diagnosis of PFAOMC can help clarify a situation, even with a patient with a comorbid psychiatric diagnosis. For example, individuals with rigid, manipulative, or otherwise difficult personalities frequently have problematic responses to medical illness and the patient role, often with deleterious effects on their medical care. These patients are well described by the diagnosis of PFAOMC, perhaps in addition to a diagnosis reflecting their maladaptive character traits, such as a personality disorder.

The diagnoses of anxiety disorder due to another medical condition and depressive or bipolar disorder due to another medical condition, in which physiological changes directly cause anxiety and mood symptoms, respectively, may also overlap with PFAOMC. Ms. Fredholm's respiratory issues are presumably contributing to her anxiety; however, what is more salient in this case is how her emotions, beliefs, and behaviors are influencing her medical condition, not the other way around.

Denial of medical illness, though not a diagnosable disorder in the current classification system, is commonly seen in clinical settings and can be subsumed under the diagnosis of PFAOMC. Denial may include conscious and unconscious elements; may impact medical care and prognosis substantially; and can take a variety of forms, ranging from complete disavowal of one's medical condition to subtle renunciations of the medical reality (e.g., the skin cancer survivor who regularly "forgets" to apply sunscreen).

PFAOMC is an unusually heterogeneous diagnostic category. Nevertheless, by making explicit a situation in which psychological and behavioral factors are negatively affecting a medical condition, the diagnosis can allow for more effective patient care.

Suggested Readings

Groves MS, Muskin PR: Psychological responses to illness, in Textbook of Psychosomatic Medicine. Edited by Levenson JL. Washington, DC, American Psychiatric Publishing, pp 567–588

Sadock BJ, Sadock VA : Psychological Factors Affecting Physical Conditions (section), in Kaplan & Sadock's Synopsis of Psychiatry: Behavioral Sciences/Clinical Psychiatry, 10th Edition. Baltimore, MD, Lippincott Williams & Wilkins, 2007, pp 813–827

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Introduction

John W. Barnhill, M.D.

Until the publication of DSM-5, half of the people in eating disorder specialty clinics did not meet criteria for either of the two specific eating disorder categories—anorexia nervosa or bulimia nervosa—and instead received the nonspecific diagnosis of eating disorder not otherwise specified (EDNOS). This percentage swelled even further in general psychiatric outpatient settings. A large percentage of patients with impairment and distress related to eating problems were left, therefore, without a diagnosis that specifically described their condition.

DSM-5 has made multiple changes to help subdivide the eating disorder population into coherent and evidencebased subgroups. For example, binge-eating disorder (BED) has been moved out of the DSM-IV appendix that included criteria sets provided for further study and into the main body of the DSM-5 text. The criteria for anorexia nervosa (AN) remain conceptually unchanged but have been expanded in two ways. First, the requirement for amenorrhea has been eliminated. Second, a previous core AN criterion, the expressed fear of weight gain, is not always present in people who appear to display robust symptoms of AN; in order to remedy this quandary, DSM-5 adds an alternative to the "expressed fear" criterion: the individual may manifest persistent behavior that interferes with weight gain. This alternative criterion allows the diagnosis of people whose behavior is indicative of AN but who have impaired insight, suboptimal levels of cooperation or transparency, or alternative rationales for food restriction. Bulimia nervosa (BN) also stays conceptually the same in DSM-5, but the threshold for diagnosis has been lowered by reducing the frequency of binge eating and compensatory behavior from twice to once weekly.

Avoidant/restrictive food intake disorder (ARFID) is a new DSM-5 diagnosis that describes people who restrict or avoid food in a way that leads to significant impairment but who do not meet criteria for AN. A broad and inclusive category, ARFID includes individuals who previously met criteria for the DSM-IV diagnosis feeding disorder of infancy or early childhood. ARFID describes a cluster of patients who are generally children and adolescents but who can be any age.

By adding BED to the main text, reducing the threshold for a diagnosis of AN and BN, and creating the ARFID diagnosis, DSM-5 intends to more clearly describe subpopulations of patients who would previously have been recognized as having an eating disorder causing impairment but would have been characterized within the uninformative category of EDNOS. Furthermore, evidence indicates that individuals who meet the more flexible criteria are, in meaningful ways, similar to those who meet the older criteria. Controversy centers on whether this loosening and expansion of eating disorder diagnoses leads to assigning diagnoses to normal individuals; as is the case throughout DSM-5, diagnostic criteria require significant distress and/or impairment. Individuals within a normal range of eating behaviors should not receive a diagnosis.

Many patients with clinically relevant eating problems do not meet full criteria for a specific eating disorder. For example, an individual may meet all criteria for AN—including significant weight loss—but remain at a normal or above-normal weight. Such a presentation would warrant a diagnosis of specific eating disorder (atypical anorexia nervosa). Other specific eating disorders include bulimia or binge eating of low frequency or duration; purging without binge eating; and night eating syndrome. Finally, the diagnosis "unspecified feeding or eating disorder" is intended to describe individuals who have an apparent eating disorder but do not meet full criteria for a specific disorder, perhaps because of an inadequate amount of confirmatory information (e.g., in an emergency room setting).

In addition to disorders mentioned above, this chapter describes two feeding and eating disorders that are usually, but not always, diagnosed in childhood and adolescence: pica and rumination disorder. Pica refers to the persistent, clinically significant eating of nonnutritive, nonfood substances. Rumination disorder refers to the recurrent regurgitation of food, which can be seen in infants as well as throughout the life cycle. Pica and rumination disorder can be diagnosed with comorbid psychiatric conditions such as autism spectrum disorder, intellectual disability, and schizophrenia, as long as the eating disorder reaches a threshold of clinical significance.

Notably, DSM-5 clarifies a hierarchy of diagnoses so that only a single feeding or eating disorder diagnosis can be made for any particular individual (with the exception that pica can be comorbid with any other feeding or eating disorder). The overall eating disorder hierarchy is AN, BN, ARFID, BED, and rumination disorder. In other words, anorexia nervosa takes precedence over the others, and if AN is diagnosed, the individual cannot also have, for example, binge-eating disorder.

Suggested Readings

Stice E, Marti CN, Rohde P: Prevalence, incidence, impairment, and course of the proposed DSM-5 eating disorder diagnoses in an 8-year prospective community study of young women. J Abnorm Psychol 122(2):445–457, 2013

triegel-Moore RH, Wonderlich SA, Walsh BT, Mitchell JE (eds): Developing an Evidence-Based Classification of Eating Disorders: Scientific Findings for DSM-5. Arlington, VA, American Psychiatric Association, 2011

Walsh BT: The enigmatic persistence of anorexia nervosa. Am J Psychiatryb 170(5):477-484, 2013

Case 10.1Stomachache

Susan Samuels, M.D.

Thomas, an 8-year-old boy with a mild to moderate intellectual disability, was brought into the emergency room (ER) by his parents after his abdominal pain of the past several weeks had worsened over the prior 24 hours. His parents reported that he had developed constipation, with only one bowel movement in the past week, and that he had vomited earlier in the day. Teachers at his special education classroom for children with intellectual disabilities had written a report earlier in the week indicating that Thomas had been having difficulties since soon after transferring from a similar school in Florida about 4 months earlier. The teachers and parents agreed that Thomas often looked distressed, rocking, crying, and clutching his stomach.

One week earlier, a pediatrician had diagnosed an acute exacerbation of chronic constipation. Use of a recommended over-the-counter laxative did not help, and Thomas began to complain of nighttime pain. The discomfort led to a diminished interest in his favorite hobbies, which were video games and sports. Instead, he tended to stay in his room, playing with army men figurines that he had inherited from his grandfather's collection. Aside from episodes of irritability and tearfulness, he was generally doing well in school, both in the classroom and on the playground. When not complaining of stomachaches, Thomas ate well and maintained his position at about the 40th percentile for height and weight on the growth curve.

Thomas's past medical history was significant for constipation and stomachaches, as well as intermittent headaches. All of these symptoms had worsened several months earlier, after the family moved from a house in semirural Florida into an old walk-up apartment in a large urban city. He shared a room with his younger brother (age 6 years), the product of a normal, unexpected pregnancy, who was enrolled in a regular education class at the local public school. Thomas said his brother was his "best friend." Thomas was adopted at birth, and nothing was known of his biological parents except that they were teenagers unable to care for the child.

On medical examination in the ER, Thomas was a well-groomed boy sitting on his mother's lap. He was crying and irritable and refused to speak to the examiner. Instead, he would repeat to his parents that his stomach hurt. On physical examination, he was afebrile and had stable vital signs. His physical examination was remarkable only for general abdominal tenderness, although he was difficult to assess because he cried uncontrollably through most of the exam.

An abdominal X ray revealed multiple small metallic particles throughout the gastrointestinal tract, initially suspected to be ingested high-lead paint flakes, as well as three 2-centimeter-long metallic objects in his stomach. A blood lead level was 20 μ g/dL (whereas normal level for children is < 5 μ g/dL). More specific questioning revealed that Thomas, being constipated, often spent long stretches on the toilet by himself. His parents added that although the bathroom was in the process of being renovated, its paint was old and peeling. Consultants decided that the larger foreign bodies in the stomach might not safely pass and could be accounting for the constipation. Endoscopy successfully extricated three antique toy soldiers from Thomas's stomach.

Diagnoses

- Pica
- Intellectual disability, mild to moderate

Discussion

Thomas is an 8-year-old child with intellectual disability who was brought to an ER with abdominal pain, chronic constipation, irritability, and changes in mood and functioning. All of these symptoms followed his move to a new city and school 4 months earlier. The differential diagnosis for such complaints is broad and includes psychiatric causes, but the first priority is to do a thorough medical workup to search for sources of pain that the child might not be able to explain (e.g., ear infections, urinary tract infections).

When abdominal pain and constipation are the chief complaints, an abdominal radiograph generally reveals intestines full of stool. Such a result would prompt a more aggressive bowel regimen, as was recommended the week before by his pediatrician. Thomas's X ray, however, was unusual in that it revealed not only the residue of lead-based paint chips but also three small toy soldiers.

The persistent eating of nonnutritive, nonfood substances is the core feature of pica. To meet DSM-5 criteria, the ingestion must be severe enough to warrant clinical attention. Pica is most commonly comorbid with intellectual disability and autism spectrum disorder, although it can also be found in other disorders, such as schizophrenia and obsessive-compulsive disorder. As seen in Thomas, there is typically no aversion to food in general, and he continued to maintain his position on the growth chart.

Pica does not refer simply to the mouthing and occasional ingestion of nonfood objects that is common in infants, toddlers, and individuals with developmental delay. Instead, pica refers to chronic and clinically relevant ingestion of such inedible objects as clay, dirt, string, or cigarette butts. Pica can be extremely dangerous. In Thomas's case, for example, he could have suffered a gastrointestinal perforation from the soldiers. In addition, he was eating lead-based paint as well as the soldiers (which, being his grandfather's, could also have been made of lead). The acute lead exposure likely contributed to his abdominal pain, whereas chronic ingestion could be neurologically catastrophic in this boy who already has intellectual disability.

In addition to having the abdominal pain, Thomas was isolating himself from his classmates and brother and was irritable and tearful. It is possible that these are reflections of his pain, but they appear to be signs of psychological stress. The pica itself could also be a sign of stress, especially if it began only after the move from Florida. Psychosocial stressors frequently cause multiple physical symptoms in children, especially in those with intellectual disability. Thomas might also qualify, therefore, for a diagnosis of adjustment disorder with depressed mood. If his mood changes are determined to be secondary to the toxic levels of lead in his bloodstream, then a more accurate diagnosis might be a substance-induced depressive or anxiety disorder. In the ER setting, however, the clinician would likely defer making depressive, anxiety, or adjustment disorder diagnoses until having a chance to evaluate Thomas when he was not in acute abdominal distress.

Suggested Readings

Barrettv RP: Atypical behavior: self-injury and pica, in Developmental-Behavioral Pediatrics: Evidence and Practice. Edited by Wolraich ML, Drotar DD, Dworkin PH, Perrin EC. Philadelphia, PA, Mosby-Elsevier, 2008, pp 871–886

Katz ER, DeMaso RR: Rumination, pica, and elimination (enuresis, encopresis) disorders, in Nelson Textbook of Pediatrics, 19th Edition. Edited by Kliegman RM, Stanton BF, St Geme J, et al. Philadelphia, PA, Elsevier/Saunders, 2011

Williams DE, McAdam D: Assessment, behavioral treatment, and prevention of pica: clinical guidelines and recommendations for practitioners. Res Dev Disabil 33(6):2050–2057, 2012

Case 10.2Drifting Below the Growth Curve

Eve K. Freidl, M.D., Evelyn Attia, M.D.

Uma, an 11-year-old girl in a gifted and talented school, was referred to an eating disorder specialist by a child psychiatrist who was concerned that Uma had drifted below the 10th percentile for weight. The psychiatrist had been treating Uma for perfectionistic traits that caused her significant anxiety. Their sessions focused on anxiety, not on eating behavior.

Uma's eating difficulties started at age 9, when she began refusing to eat and reporting a fear that she would vomit. At that time, her parents sought treatment from a pediatrician, who continued to evaluate her yearly, explaining that it was normal for children to go through phases. At age 9, Uma was above the 25th percentile for both height and weight (52 inches, 58 pounds), but by age 11, she had essentially stopped growing and had dropped to the 5th percentile on her growth curves (52.5 inches, 55 pounds).

The only child of two professional parents who had divorced 5 years earlier, Uma lived with her mother on weekdays and with her nearby father on weekends. Her medical history was significant for her premature birth at 34 weeks' gestation. She was slow to achieve her initial milestones but by age 2 was developmentally normal. Yearly physical examinations had been unremarkable with the exception of the recent decline of her growth trajectory. Uma had always been petite, but her height and weight had never fallen below the 25th percentile for stature and weight for age on the growth chart. Uma was a talented student who was well liked by her teachers. She had never had more than a few friends, but recently she had stopped socializing entirely and had been coming directly home after school, reporting that her stomach felt calmer when she was in her own home.

For the prior 2 years, Uma had eaten only very small amounts of food over very long durations of time. Her parents had tried to pique her interest by experimenting with foods from different cultures and of different colors and textures. None of this seemed effective in improving her appetite. They also tried to let her pick restaurants to try, but Uma had gradually refused to eat outside of either parent's home. Both parents reported a similar mealtime pattern: Uma would agree to sit at the table but then spent her time rearranging food on her plate, cutting food items into small pieces, and crying if urged to eat another bite.

When asked more about her fear of vomiting, Uma remembered one incident, at age 4, when she ate soup and her stomach became upset and then she subsequently vomited. More recently, Uma had developed fear of eating in public and ate no food during the school day. She denied any concerns about her appearance and only became aware of her low weight after her most recent visit to the pediatrician. When educated about the dangers of low body weight, Uma became tearful and expressed a clear desire to gain weight.

Diagnosis

• Avoidant/restrictive food intake disorder

Discussion

Uma is an 11-year-old girl who pre-sents with a refusal to eat enough food to maintain her position on the growth curve. She fears vomiting, will not eat in public, and has gradually isolated herself from her friends. In contrast to individuals with anorexia nervosa (AN), Uma does not report any fear of gaining weight or becoming fat and does not deny the seriousness of her current low body weight. Her diagnosis, therefore, is avoidant/restrictive food intake disorder (ARFID), a new diagnosis in DSM-5. ARFID is a relatively broad category intended to describe a cluster of people who do not meet criteria for AN but whose avoidance or restriction of food leads to health problems, psychosocial dysfunction, and/or significant weight loss. In the case of children like Uma, the diminished food intake might result in a flattening of the growth trajectory rather than weight loss.

People with AN have a fear of gaining weight or of becoming fat, whereas people with ARFID lack a disturbance in body image. The distinction between ARFID and AN may be uncertain when individuals deny a fear of weight gain but instead offer diverse explanations for food restriction, such as somatic complaints (e.g., abdominal discomfort, fullness, lack of appetite), religious motives, desire for control, or desire for familial impact. Longitudinal assessment may be necessary to clarify the diagnosis, and ARFID may precede AN in some people.

A diagnosis of ARFID is likely to be applied primarily to children and adolescents, but people of any age can have this disorder. Three main subtypes have been described: inadequate overall intake in the presence of an emotional

disturbance such that the emotional problem interferes with appetite and eating but the avoidance does not stem from a specific motive; restricted range of food intake (sometimes referred to as "picky eating"); and food avoidance due to a specific fear such as fear of swallowing (functional dysphagia), fear of poisoning, or fear of vomiting.

Uma fears going out and appears to avoid friends and social experiences. Such behavior might be consistent with a specific phobia, in that Uma specifically feared vomiting in public. Although specific phobia may be concurrent with an eating disorder, a diagnosis of ARFID is likely a more parsimonious explanation. As outlined in DSM-5, ARFID should be diagnosed in the presence of symptoms compatible with another diagnosis when the severity of the eating disturbance exceeds that routinely associated with the other condition and warrants additional clinical attention.

In Uma's case, a variety of other disorders should also be considered during the evaluation. These include medical, structural, and neurological disorders that can impede eating; obsessive-compulsive disorder; and depressive and anxiety disorders that might have emerged in the context of her parents' divorce and her progression toward puberty. Although any of these might be further explored, none of them seem immediately pertinent to Uma's weight loss.

Suggested Readings

Bryant-Waugh R, Markham L, Kreipe RE, Walsh BT: Feeding and eating disorders in childhood. Int J Eat Disord 43(2):98–111, 2010

Kreipe RE, Palomaki A: Beyond picky eating: avoidant/restrictive food intake disorder. Curr Psychiatry Rep 14(4):421–431, 2012

Case 10.3Headaches and Fatigue

Jennifer J. Thomas, Ph.D., Anne E. Becker, M.D., Ph.D.

Valerie Gaspard was a 20-year-old single black woman who had recently immigrated to the United States from West Africa with her family to do missionary work. She presented to her primary care physician complaining of frequent headaches and chronic fatigue. Her physical examination was unremarkable except that her weight was only 78 pounds and her height was 5 feet 1 inch, resulting in a body mass index (BMI) of 14.7 kg/m², and she had missed her last menstrual period. Unable to find a medical explanation for Ms. Gaspard's symptoms, and feeling concerned about her extremely low weight, the physician referred Ms. Gaspard to the hospital eating disorders program.

Upon presentation for psychiatric evaluation, Ms. Gaspard was cooperative and pleasant. She expressed concern about her low weight and denied fear of weight gain or body image disturbance: "I know I need to gain weight. I'm too skinny," she said. Ms. Gaspard reported that she had weighed 97 pounds prior to moving to the United States and said she felt "embarrassed" when her family members and even strangers told her she had grown too thin. Notably, everyone else in her U.S.-dwelling extended family was either of normal weight or overweight.

Despite her apparent motivation to correct her malnutrition, Ms. Gaspard's dietary recall revealed that she was consuming only 600 calories per day. The day before the evaluation, for example, she had eaten only a small bowl of macaroni pasta, a plate of steamed broccoli, and a cup of black beans. Her fluid intake was also quite limited, typically consisting of only two or three glasses of water daily.

Ms. Gaspard provided multiple reasons for her poor intake. The first was lack of appetite: "My brain doesn't even signal that I'm hungry," she said. "I have no desire to eat throughout the whole day." The second was postprandial bloating and nausea: "I just feel so uncomfortable after eating." The third was the limited choice of foods permitted by her religion, which advocates a vegetarian diet. "My body is not really my own. It is a temple of God," she explained. The fourth reason was that her preferred sources of vegetarian protein (e.g., tofu, processed meat substitutes) were not affordable within her meager budget. Ms. Gaspard had not completed high school and made very little money working at a secretarial job at her church.

Ms. Gaspard denied any other symptoms of disordered eating, including binge eating, purging, or other behaviors intended to promote weight loss. However, with regard to exercise, she reported that she walked for approximately

3–4 hours per day. She denied that her activity was motivated by a desire to burn calories. Instead, Ms. Gaspard stated that because she did not have a car and disliked waiting for the bus, she traveled on foot to all work and leisure activities.

Ms. Gaspard reported no other notable psychiatric symptoms apart from her inadequate food intake and excessive physical activity. She appeared euthymic and did not report any symptoms of depression. She denied using alcohol or illicit drugs. She noted that her concentration was poor but expressed hope that a herbal supplement she had just begun taking would improve her memory. When queried about past treatment history, she reported that she had briefly seen a dietitian about a year earlier when her family began "nagging" her about her low weight, but she had not viewed the meetings as helpful.

Diagnosis

Anorexia nervosa, restricting type

Discussion

Ms. Gaspard's most appropriate DSM-5 diagnosis is anorexia nervosa (AN). Although her history suggests alternative explanations for her cachectic presentation, none is as compelling as AN. For example, avoidant/restrictive food intake disorder, newly named with revised criteria in DSM-5, could also present with an eating disturbance, significant malnutrition, and either a lack of interest in or an aversion to eating triggered by or associated with a range of physical complaints, including gastrointestinal discomfort. However, Ms. Gaspard's bloating and nausea are a red herring: both are common in AN, where they can be idiopathic or associated with delayed gastric emptying or whole-gut transit time. Similarly, although major depressive disorder can also be associated with appetite loss, Ms. Gaspard is euthymic and actively engaged in her missionary work. Lastly, although Ms. Gaspard's limited access to food and transportation may contribute to her malnutrition and excessive physical activity, it is notable that no one else in her family (with whom she shares communal resources) is underweight.

Because Ms. Gaspard does not engage in binge eating (i.e., she denies eating large amounts of food while feeling out of control) or purging (i.e., she denies self-induced vomiting or abuse of enemas, laxatives, diuretics, or other medications), her presentation is consistent with the restricting subtype of AN. An elevated risk for an eating disorder following immigration from a culturally non-Western to a Western country has been described for some populations, attributed to increased exposure to Western beauty ideals as well as stressors associated with acculturation. Although Ms. Gaspard would not have met DSM-IV criteria for AN because of her lack of fat phobia and her continued (albeit irregular) menses, she meets revised DSM-5 criteria for AN.

The first criterion for AN is significantly low weight. Ms. Gaspard's BMI of 14.7 places her below the first BMI centile for U.S. females of her age and height. Furthermore, her BMI is well below the World Health Organization's lower limit of 18.5 kg/m² for adults. Her weight is so low that her menses have become irregular. It is important to note that amenorrhea (i.e., lack of menses for 3 months or more) was a DSM-IV criterion for AN but was omitted from DSM-5 due to research suggesting that low-weight eating-disorder patients who menstruate regularly exhibit psychopathology commensurate with that of their counterparts with amenorrhea.

A second criterion for AN is either an intense fear of fatness or persistent behavior that interferes with weight gain despite a significantly low weight. Ms. Gaspard's rationales for food refusal are inconsistent with the intense fear of weight gain that DSM-IV previously characterized as the sine qua non of AN. However, many low-weight patients— especially those from culturally non-Western backgrounds—do not explicitly endorse weight and shape concerns.

Culture-based differences—including prevailing local norms that govern many factors, including dietary and meal patterns, aesthetic ideals for body shape and weight, embodiment of core cultural symbols and social relations, self-agency and self-presentation, and somatic idioms of distress—potentially influence the experience, manifestation, and articulation of eating pathology. For example, a clinical narrative that links restrictive eating behaviors to weight management goals can be easily formulated for a patient whose social context associates prestige with thinness, stigmatizes obesity, and assigns high value to achievement and autonomy.

The determinative cultural underpinnings of conventional AN presentation are perhaps best illustrated in Sing Lee's work from Hong Kong documenting "non-fat-phobic anorexia nervosa," a variant of eating disorder that strongly resembles DSM-IV AN except for its absent fear of weight gain. Lee and colleagues argued that fear of fatness had insufficient cultural salience for many of their patients, who rationalized extreme dietary restriction differently but nonetheless reached a dangerously low weight. Evidence that the absence of fat phobia may be associated with a more benign clinical course raises compelling questions about not just cultural mediation, but also cultural

moderation of eating pathology. Globalized commerce and communication have opened avenues for broad exposure to what Sing Lee termed a "culture of modernity," and eating disorders are now recognized as having wide geographical distribution. The amendment in DSM-5 of AN Criterion B now encompasses individuals like Ms. Gaspard who exhibit persistent behavior that interferes with weight gain, even if they do not explicitly endorse fat phobia.

Indeed, Ms. Gaspard's low food intake (600 calories per day) and high level of physical activity (3–4 hours per day) are clearly at odds with her stated desire to gain weight, however earnest her pronouncements may sound. Moreover, her myriad rationales for her restricted dietary intake (ranging from lack of hunger to forgetfulness to lack of resources) slightly undermine the credibility of each individual one. Following Ms. Gaspard over time to ascertain that her behaviors are persistent would help confirm the AN diagnosis, but her clinical history suggests that when Ms. Gaspard has previously been confronted about her low weight (i.e., by her family, by the dietitian), she has been either unwilling or unable to implement changes that would restore her to a healthy weight.

A diagnosis of AN also requires that a third criterion be met: a disturbance in the experience of one's body or shape, undue influence of that weight or shape on self-evaluation, and/or a lack of recognition of the seriousness of low weight. Ms. Gaspard denies an altered self-image and says she is worried about her low weight. However, her lack of follow-through with an earlier dietary intervention and her subsequent presentation to primary care to manage the symptoms of her dehydration and malnutrition (i.e., headaches, fatigue, poor concentration) suggest that she may not grasp the seriousness of her low weight. Furthermore, Ms. Gaspard's characterization of her family's appropriate concern as "nagging" supports that she does not recognize the health impacts of her significantly low weight.

Suggested Readings

Becker AE, Thomas JJ, Pike KM: Should non-fat-phobic anorexia nervosa be included in DSM-V? Int J Eat Disord 42(7):620–635, 2009

Benini L, Todesco T, Dalle Grave R, et al: Gastric emptying in patients with restricting and binge/purging subtypes of anorexia nervosa. Am J Gastroenterol 99(8):1448–1454, 2004

Centers for Disease Control and Prevention, National Center for Health Statistics: CDC growth charts: United States. Advance Data No. 314. Vital and Health Statistics of the Centers for Disease Control and Prevention. May 30, 2000. Available at: *http://www.cdc.gov/growthcharts/data/set1clinical/cj41c024.pdf*. Accessed May 6, 2013.

Lee S: Self-starvation in context: towards a culturally sensitive understanding of anorexia nervosa. Soc Sci Med 41(1):25–36, 1995

Lee S: Reconsidering the status of anorexia nervosa as a Western culture-bound syndrome. Soc Sci Med 42(1):21– 34, 1996

Roberto CA, Steinglass J, Mayer LE, et al: The clinical significance of amenorrhea as a diagnostic criterion for anorexia nervosa. Int J Eat Disord 41(6):559–563, 2008

van Hoeken D, Veling W, Smink FR, Hoek HW: The incidence of anorexia nervosa in Netherlands Antilles immigrants in the Netherlands. Eur Eat Disord Rev 18(5):399–403, 2010

Case 10.4Vomiting

James E. Mitchell, M.D.

Wanda Hoffman was a 24-year-old white woman who presented with a chief complaint: "I have problems throwing up." These symptoms had their roots in early adolescence, when she began dieting despite a normal BMI. At age 18 she went away to college and began to overeat in the context of new academic and social demands. A 10-pound

weight gain led her to routinely skip breakfast. She often skipped lunch as well, but then—famished—would overeat in the late afternoon and evening.

The overeating episodes intensified, in both frequency and volume of food, and Ms. Hoffman increasingly felt out of control. Worried that the binges would lead to weight gain, she started inducing vomiting, a practice she learned about in a magazine. She first thought this pattern of behavior to be quite acceptable and saw self-induced vomiting as a way of controlling her fears about weight gain. The pattern became entrenched: morning food restriction followed by binge eating followed by self-induced vomiting.

Ms. Hoffman continued to function adequately in college and to maintain friendships, always keeping her behavior a secret from those around her. After college graduation, she returned to her hometown and took a job at a local bank. Despite renewing old friendships and dating and enjoying her work, she often did not feel well. She described diminished energy and poor sleep, as well as various abdominal complaints, including, at different times, constipation and diarrhea. She frequently made excuses to avoid friends, and she became progressively more socially isolated. Her mood deteriorated, and she found herself feeling worthless. At times, she wished she were dead. She decided to break out of this downward spiral by getting a psychiatric referral from her internist.

On mental status examination, the patient was a well-developed, well-nourished female, in no apparent distress. Her BMI was normal at 23. She was coherent, cooperative, and goal directed. She often felt sad and worried but denied feeling depressed. She denied an intention to kill herself but did sometimes think life was not worth living. She denied confusion. Her cognition was intact, and her insight and judgment were considered fair.

Diagnoses

- Bulimia nervosa
- Major depressive disorder

Discussion

Ms. Hoffman presents a fairly classic history for bulimia nervosa (BN). Like 90% of patients with BN, Ms. Hoffman is female, and, as is usual, her symptoms began when she was in her late teens or early 20s. One reason for this age at onset is the stress of entering college or the workforce. Genetics and environment also play a role, but it is not entirely clear why certain young people develop BN while others do not, despite equivalent amounts of body dissatisfaction.

The hallmark of the illness is binge eating, which is usually defined as eating an inappropriately large amount of food in a discrete period of time (e.g., at a meal), in conjunction with a sense of loss of control while eating. Although food portions are typically large in BN, the predominant feature for many people is the sense of loss of control.

Along with the binge eating, the vast majority of patients engage in self-induced vomiting. This behavior usually begins out of fear that the binge eating will result in weight gain, with the subsequent vomiting seen as a way of eliminating this risk. Early in the course of the illness, most patients induce vomiting with their fingers, but they often develop the capacity to vomit at will. Some patients with BN may also use laxatives to induce diarrhea; this method may induce a sense of weight loss, but laxatives are actually more effective at inducing dehydration, with its accompanying physical symptoms and medical risk. Some individuals with BN also use diuretics, and many experiment with diet pills.

Most people with BN tend to seek help because of complications of the disorder rather than dissatisfaction with the eating behavior. For example, medical complications commonly include dehydration and electrolyte abnormalities, particularly hypochloremia and metabolic alkalosis, and, more rarely, hypokalemia. These complications can lead to feelings of fatigue, headache, and poor concentration. Rare but serious medical complications include gastric dilatation and esophageal rupture.

In addition to the eating disorder, Ms. Hoffman presents with depressed mood, anhedonia, poor sleep, low energy, physical complaints, feelings of worthlessness, and diminished concentration. She denies suicidal intent or plan, but she does have thoughts of death. She meets criteria, therefore, for a DSM-5 major depressive disorder. Depression is commonly comorbid with BN. Other common comorbidities include anxiety disorders, substance use problems (often involving alcohol, and personality disorders).

Although Ms. Hoffman sought help from a psychiatrist, she did so through her internist, and it is common for people with BN to present to their primary care physicians with vague medical complaints. Interestingly, the health

practitioners who are often in the best position to identify patients with BN are dentists, who find evidence of obvious enamel erosion.

Suggested Readings

Peat C, Mitchell JE, Hoek HW, Wonderlich SA: Validity and utility of subtyping anorexia nervosa. Int J Eat Disord 42(7):590–594, 2009

van Hoeken D, Veling W, Sinke S, et al: The validity and utility of subtyping bulimia nervosa. Int J Eat Disord 42(7):595–602, 2009

Wonderlich SA, Gordon KH, Mitchell JE, et al: The validity and clinical utility of binge eating disorder. Int J Eat Disord 42(8):687–705, 2009

Case 10.5Weight Gain

Susan L. McElroy, M.D.

Yasmine Isherwood, a 55-year-old married woman, had been in psychiatric treatment for 6 months for an episode of major depression. She had responded well to a combination of psychotherapy and medications (fluoxetine and bupropion), but she began to complain of weight gain. She was at her "highest weight ever," which was 140 pounds (her height was 5 feet 5 inches, so her BMI was 23.3).

The psychiatrist embarked on a clarification of Ms. Isherwood's eating history, which was marked by recurrent, distressing episodes of uncontrollable eating of large amounts of food. The overeating was not new but seemed to have worsened while she was taking antidepressants. She reported that the episodes occurred two or three times per week, usually between the time she arrived home from work and the time her husband did so. These "eating jags" were notable for a sense that she was out of control. She ate rapidly and alone, until uncomfortably full. She would then feel depressed, tired, and disgusted with herself. She usually binged on healthy food but also had "sugar binges" where she ate primarily sweets, especially ice cream and candy. She denied current or past self-induced vomiting, fasting, or misuse of laxatives, diuretics, or weight-loss agents. She reported exercising for an hour almost every day but denied being "addicted" to it. She did report that in her late 20s, she had become a competitive runner. At that time, she had often run 10-kilometer races and averaged about 35 miles per week, despite a lingering foot injury that eventually forced her to shift to swimming, biking, and the elliptical machine.

Ms. Isherwood stated that she had binged on food "for as long as I can remember." She was "chunky" as a child but stayed at a normal weight throughout high school (120–125 pounds) because she was so active. She denied a history of anorexia nervosa. At age 28, she reached her lowest adult weight of 113 pounds. At that point, she felt "vital, healthy, and in control."

In her mid-30s, she had a major depressive episode that lasted 2 years. She had a severely depressed mood, did not talk, "closed down," stayed in bed, was very fatigued, slept more than usual, and was unable to function. This was one of the few times in her life that the binge eating stopped and she lost weight. She denied a history of hypomanic or manic episodes. Although she lived with frequent sadness, she denied other serious depressive episodes until the past year. She denied a history of suicidal ideation, suicide attempts, and any significant use of alcohol, tobacco, or illicit substances.

The evaluation revealed a well-nourished, well-developed female who was coherent and cooperative. Her speech was fluent and not pressured. She had a mildly depressed mood but had a reactive affect with appropriate smiles. She denied guilt, suicidality, and hopelessness. She said her energy was normal except for post-binge fatigue. She denied psychosis and confusion. Her cognition was normal. Her medical history was unremarkable, and physical examination and basic laboratory test results provided by her internist were within normal limits.

Diagnoses

- Binge-eating disorder, mild
- Major depressive disorder, recurrent, in remission

Discussion

Ms. Isherwood describes overeating episodes that are marked by a sense of being out of control. She eats rapidly and until overly full. She eats alone and feels disgusted and distressed afterward. These episodes occur several times per week and do not involve inappropriate compensatory behaviors such as vomiting or use of laxatives. She conforms, therefore, to the new DSM-5 definition of binge-eating disorder (BED).

Although BED shares features with bulimia nervosa (BN) and obesity, it is distinguishable from both conditions. Compared to obese individuals without binge eating, obese individuals with BED have greater weight concerns and higher rates of mood, anxiety, and substance use disorders. Compared to individuals with BN, individuals with BED have lower weight concerns, greater rates of obesity, and lower rates of associated mood, anxiety, and substance use disorders. DSM-5 criteria for BED have been broadened from the provisional DSM-IV criteria. Instead of a requirement of two binge episodes per week for 6 months, DSM-5 requires one episode per week for 3 months. This shift represents an example of the sort of research that examines symptomatic clustering. In this case, it became apparent that individuals with less frequent and less persistent binge episodes were quite similar to people with slightly more frequent and more persistent episodes. Ms. Isherwood reports two or three episodes per week, which would put her in the mild category.

Although a diagnosis of BED should not be given in the presence of either BN or AN, patients with BED can have past histories of other eating disorders as well as infrequent inappropriate compensatory behaviors. For example, Ms. Isherwood recalled a period of time in her 20s when she was running frequent races and running 35 miles per week with a chronic foot ailment. Even though she recalls feeling "vital, healthy, and in control" during that period of time, she may also have had BN if that period included both binge eating and competitive running that was intended to compensate for the bingeing.

BED patients often seek treatment initially for obesity (BMI \ge 30), but clinical samples indicate that up to one-third of patients with BED are not obese. Non-obese patients with BED are more similar to than different from their obese counterparts, although they are more likely to engage in both healthy and unhealthy weight loss behaviors. It is possible that Ms. Isherwood maintained a normal weight despite her extensive binge-eating history because of her regular exercise regimen. It is also possible that Ms. Isherwood's excessive running was spurred by an episode of hypomania; about 15% of patients with bipolar II disorder have an eating disorder, and BED is the most common.

BED is often associated with mood, anxiety, substance use, and impulse-control disorders. Although Ms. Isherwood denies any history of alcohol or drug misuse, she has a history of recurrent major depressive disorder. Although the case does not go into detail, it would be useful to explore the connection between Ms. Isherwood's eating habits and her depressive symptoms. Major depression itself can lead to excess eating, but if both BED and depression are present, both should be diagnosed. Finally, the history does not discuss personality, but bingeing is included in the impulse-control criterion for borderline personality disorder. If full criteria for both are met, then both should be diagnosed.

Suggested Readings

Goldschmidt AB, Le Grange D, Powers P, et al: Eating disorder symptomatology in normal-weight vs. obese individuals with binge eating disorder. Obesity (Silver Spring) 19(7):1515–1518, 2011

Hudson JI, Hiripi E, Pope HG Jr, Kessler RC: The prevalence and correlates of eating disorders in the National Comorbidity Survey Replication. Biol Psychiatry 61(3):348–358, 2007

Wonderlich SA, Gordon KH, Mitchell JE, et al: The validity and clinical utility of binge eating disorder. Int J Eat Disord 42(8):687–705, 2009

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Chapter 11. Elimination Disorders

Introduction

John W. Barnhill, M.D.

The chapter on elimination disorders is the second of four DSM-5 chapters that explicitly deal with variations of normal bodily processes. These normal bodily processes can go awry in multiple ways, but from a diagnostic perspective, the distress and/or dysfunction can emerge as a symptomatic part of another disorder or as a cluster of symptoms that can be categorized as a relatively autonomous elimination disorder (with or without comorbidities).

Enuresis and encopresis are the two primary elimination disorders. Each is subdivided in ways that are both logical and clinically relevant. The diagnostic criteria for each disorder specify the developmental age at which the diagnosis becomes applicable. For example, enuresis—the repeated voiding of urine into bed and clothes—is not a diagnosis until the child has reached a developmental age of 5 years. A significant number of younger children simply are not yet trained to reliably use the bathroom.

DSM-5 does not request that the clinician ascertain the degree to which voluntary control plays a role; for example, a psychiatric diagnosis of nighttime bed-wetting (nocturnal enuresis) need not depend on whether the parent indicates that "he is doing it for attention." Similarly, a young boy who refuses to defecate in the bathroom at school and then is regularly and embarrassingly incontinent warrants a diagnosis (encopresis with constipation and overflow incontinence) that does not demand that the clinician delve deeply into the child's views on kindergarten, separation, and bodily control. The clinician may choose to make those assessments, but the diagnostic process does not require such a pursuit.

Instead, the focus is on more readily ascertainable measures. Is the enuresis clinically significant? Is it persistent? Is it causing distress? DSM-5 also requests that the clinician make an effort to evaluate for physiological causes of enuresis and encopresis, because such common and readily treatable conditions as a urinary tract infection or dehydration can cause highly upsetting symptoms.

Abnormalities of elimination are also seen as secondary to many medical and nonmedical psychiatric conditions. The link between depression and constipation is common, for example, as is the link between gastrointestinal distress and a wide range of medications. These comorbidities should be actively considered. At the same time, it is important to tactfully consider whether an autonomous elimination disorder should be the focus of clinical attention.

Suggested Readings

von Gontard A: Elimination disorders: a critical comment on DSM-5 proposals. Eur Child Adolesc Psychiatry 20(2):83–88, 2011

von Gontard A: The impact of DSM-5 and guidelines for assessment and treatment of elimination disorders. Eur Child Adolesc Psychiatry 22 (suppl 1):S61–S67, 2013

Case 11.1Temper Tantrums and Somatic Complaints

David H. Rubin, M.D.

Zack was an 8-year-old boy brought to the outpatient child psychiatry clinic by his mother because of increasing tantrums and somatic complaints without an apparent cause. The mother reported that the symptoms appeared related to the nights that he spent with his aunt, another single mom with a boy similar in age to Zack. He had been close to this aunt since birth but had only recently begun to spend every Friday night with her when the mother took on a night shift at work.
For 2 months prior to the consultation, Zack would report nausea and headaches on Fridays and complain that his aunt's house was "creepy." He continued to visit, with reluctance, although he did once call his mother at work demanding that she pick him up, saying, "Other kids live in their own home every day of the week."

In recent weeks, Zack screamed and hid when it came time to go to his aunt's home. His mother became concerned that something could have "happened" to Zack during a visit. The mother struggled to reconcile this with the fact that Zack had no objections to seeing the aunt and cousin anywhere else, and he had no objection to the cousin sleeping at their home. Her sister had always been "a good mom" and was always home during the sleepovers. She did have a boyfriend, but Zack seemed to like him. In fact, Zack seemed especially excited to go to the park or ball games with his cousin and the boyfriend.

Zack had never previously had particularly significant separation, behavioral, or emotional issues. He achieved all developmental milestones on time. He had never seen a doctor aside from routine visits and one bad cold when he was age 3. Zack had yet to achieve consistent overnight continence, however, and did wet the bed approximately twice weekly. He had no daytime voiding symptoms or constipation. The pediatrician had told them that this was "normal" at Zack's age. The mother had never made a big deal about the bed-wetting, and Zack had never expressed significant distress about it.

Family history was negative for all psychiatric illness on the mother's side, and the mother said her own developmental landmarks were normal as far as she had been told. The mother knew little about Zack's father's developmental or family history, and she had not seen him since before Zack was born.

On mental status examination, Zack was cooperative and appeared well nourished and well cared for. He had little difficulty separating from his mother. After an initial period of warming up to the interviewer, his speech was spontaneous with a vocabulary appropriate for his age. He maintained age-appropriate eye contact. His affect was initially mildly anxious, but he rapidly calmed. Anxiety only reappeared upon discussing his sleepovers, when Zack demonstrated some fidgeting, decreased eye contact, and mild irritability directed toward his mother. When asked about the bed-wetting, Zack appeared embarrassed. He said he had wet the bed at his aunt's house a few times and that both his cousin and his aunt's boyfriend teased him about it. His aunt had intervened, but he described being "scared" that he would do it again.

Diagnosis

Enuresis, nocturnal only

Discussion

Zack presents with uncharacteristic temper tantrums, somatic complaints, and persistent refusal to spend the night at his aunt's home. By the end of the interview, the focus of clinical concern had shifted to Zack's enuresis, a disorder that in itself is generally benign but can lead to significant psychosocial distress and behavioral change.

A DSM-5 enuresis diagnosis does not require that the clinician assess motivation (i.e., the urination can be voluntary or involuntary). Instead, the behavior should be clinically significant as defined by frequency (e.g., twice weekly for 3 months) or by its impact (e.g., distress or functional change). Enuresis can develop at any age, although there is a lower age limit of 5 years for the diagnosis. For patients with a neurodevelopmental disorder, that age restriction applies to their developmental, not chronological, age. Finally, the disorder should not be caused by a substance or medical condition.

The enuresis diagnosis also includes a number of subtypes. Because Zack's enuresis seems to occur only at night, his would be described as "nocturnal only." He has never achieved a 6-month period of consistent overnight dryness, so his enuresis is characterized as primary. Primary nocturnal enuresis is common in children ages 5–10 and is especially common in boys. Although Zack's mother does not know when Zack's father achieved nighttime continence, a family history of enuresis is very common, and a number of genetic factors have been identified as contributory to the disorder. Secondary enuresis, in which incontinence returns after the child has already achieved at least 6 months of consistent dryness, demands a careful consideration of many medical etiologies, including diabetes, seizure disorder, obstructive sleep apnea, neurogenic bladder, constipation, and urethral obstruction. In rare cases, these conditions can be responsible for primary enuresis as well, so Zack's presentation should prompt a coordinated effort with the pediatrician to rule them out.

Any distress associated with the condition is usually dependent on others' reactions to the bed-wetting; however, distress is not necessary for the diagnosis of enuresis. In Zack's case, he became ashamed only after he was

teased by his cousin and his aunt's boyfriend. Given that his development has been otherwise normal, Zack most likely has enuresis without any other psychiatric diagnosis.

Enuresis is commonly comorbid with other emotional and behavioral disorders of childhood, however, and Zack should be considered for several specific psychiatric disorders. Zack's anxiety and somatic complaints developed in the context of separation from a primary caregiver. This should lead to an exploration of an anxiety disorder such as separation anxiety. Zack separates easily from his mother in other contexts, such as school and the psychiatric evaluation, making separation anxiety an unlikely explanation for his presenting symptoms.

Zack was brought for evaluation because of defiance, somatic complaints, and temper tantrums. Disorders of behavior, mood, and impulse control—such as oppositional defiant disorder, conduct disorder, and disruptive mood dysregulation disorder—might all be considered. Zack's symptoms have lasted only 2 months, however, and he is generally doing fine. Because the changes appear to be specifically focused on a single context with an understandable trigger, Zack is unlikely to have any of these diagnoses.

It is no surprise that Zack's mother is concerned that the specificity of the trigger might be related to some sort of abuse. Although he has obvious trouble on Friday nights, Zack's general well-being and the ease with which he usually interacts with his cousin, his aunt, and his aunt's boyfriend make it unlikely that he has been abused. His mother is right, however, that something did happen: he was teased by his cousin and his aunt's boyfriend, two people he seems to especially trust, so their words would likely be felt as especially traumatic by this 8-year-old boy.

Suggested Readings

Hollmann E, Von Gontard A, Eiberg H, et al: Molecular genetic, clinical and psychiatric associations in nocturnal enuresis. Br J Urol 81 (suppl 3):37–39, 1998

Robson WL: Clinical practice: evaluation and management of enuresis. N Engl J Med 360(14):1429-1436, 2009

Robson WL, Leung AK, Van Howe R: Primary and secondary nocturnal enuresis: similarities in presentation. Pediatrics 115(4):956–959, 2005

von Gontard A, Heron J, Joinson C: Family history of nocturnal enuresis and urinary incontinence: results from a large epidemiological study. J Urol 185(6):2303–2306, 2011

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Chapter 12. Sleep-Wake Disorders

Introduction

John W. Barnhill, M.D.

The pursuit of restful sleep is bedeviled by work and family pressures, long-distance travel, and the ubiquitous presence of stimulants (e.g., coffee) and electronics (e.g., e-mail). A good night's sleep can be a casualty of a host of psychiatric disorders, including anxiety, depression, and bipolar and psychotic disorders, as well as a variety of nonpsychiatric medical conditions. Sleep problems may not simply be epiphenomena but can precipitate, prolong, and intensify these other psychiatric and medical conditions. All too often, however, the DSM-5 sleep-wake disorders exist as silent and undiagnosed contributors to distress and dysfunction.

DSM-5 makes use of both a "lumping" and a "splitting" approach to the sleep disorders. Insomnia disorder can exist autonomously, but DSM-5 encourages consideration of comorbidity with both psychiatric and nonpsychiatric medical conditions. In so doing, DSM-5 moves away from making a causal attribution (e.g., depression inevitably causes insomnia) and instead acknowledges the bidirectional interactions between sleep and other disorders. Clarification of an independent sleep disorder is also a reminder to the clinician that the sleep problem may not resolve spontaneously but instead may warrant independent psychiatric attention.

In addition to a broad clinical approach, DSM-5 features sleep disorders that require very specific physiological findings. For example, a patient may present with restless sleep and daytime fatigue. If the patient's bed partner identifies unusually loud snoring, sleep apnea would likely be considered. A DSM-5 diagnosis of obstructive sleep apnea hypopnea requires not only clinical evidence but also a polysomnogram that reveals at least five obstructive apneas or hypopneas per hour of sleep (or, if there is no evidence of nocturnal breathing difficulties, 15 or more such apneic events per hour).

Other sleep disorders can be diagnosed through either clinical evidence or a combination of patient report, laboratory results, and sleep studies. For example, narcolepsy is defined by two required criteria. First, clinical report must indicate recurrent, persistent episodes marked by irrepressible sleep or an irrepressible need for sleep. The second criterion can be met in three ways: by recurrent episodes of cataplexy (defined clinically); hypocretin deficiency (defined via cerebrospinal fluid levels obtained through lumbar puncture); or specifically abnormal rapid eye movement (REM) sleep latency as determined by nocturnal sleep polysomnography or a multiple sleep latency test.

REM sleep behavior disorder and restless legs syndrome are new disorders within the main text of DSM-5. For each, substantial evidence has clarified the physiological basis, prevalence, and clinical relevance. Both are often comorbid with other psychiatric and nonpsychiatric medical conditions (e.g., REM sleep behavior disorder comorbid with narcolepsy and neurodegenerative disorders such as Parkinson's disease; restless legs syndrome comorbid with depression and cardiovascular disease).

The initial sleep assessment generally involves a retrospective patient report. Clinicians are accustomed to working with subjective reports, but a sleep complaint that is impossible ("I haven't slept in weeks") can lead the clinician to think "insomnia" and move on with other aspects of the evaluation. Increasingly robust diagnostic criteria for the sleep-wake disorders are helpful for a variety of reasons, but they are especially helpful as a reminder to the general clinician to explore common complaints that are often underdiagnosed and that contribute to significant distress and dysfunction.

Suggested Readings

Edinger JD, Wyatt JK, Stepanski EJ, et al: Testing the reliability and validity of DSM-IV-TR and ICSD-2 insomnia diagnoses: results of a multitrait-multimethod analysis. Arch Gen Psychiatry 68(10):992–1002, 2011

Ohayon MM, Reynolds CF 3rd: Epidemiological and clinical relevance of insomnia diagnosis algorithms according to the DSM-IV and the International Classification of Sleep Disorders (ICSD). Sleep Med 10(9):952–960, 2009

Reite M, Weissberg M, Ruddy J: Clinical Manual for Evaluation and Treatment of Sleep Disorders. Washington, DC, American Psychiatric Publishing, 2009

Case 12.1Difficulty Staying Asleep

Charles F. Reynolds, M.D.

Aidan Jones, a 30-year-old graduate student in English, visited a psychiatrist to discuss his difficulty staying asleep. The trouble began 4 months earlier, when he started to wake up at 3:00 every morning, no matter when he went to bed, and then was unable to fall back to sleep. As a result, he felt "out of it" during the day. This led him to feel increasingly worried about how he was going to finish his doctoral dissertation when he was unable to concentrate owing to exhaustion. At first he did not recall waking up with anything in particular on his mind. As the trouble persisted, he found himself dreading the upcoming day and wondering how he would teach his classes or focus on his writing if he was getting only a few hours of sleep. Some mornings he lay awake in the dark next to his fiancée, who was sleeping soundly. On other mornings he would cut his losses, rise from bed, and go very early to his office on campus.

After a month of interrupted sleep, Mr. Jones visited a physician's assistant at the university's student health services, where he customarily got his medical care. (He suffered from asthma, for which he occasionally took inhaled β_2 -adrenergic receptor agonists, and a year earlier he had had mononucleosis.) The physician's assistant prescribed a sedative-hypnotic, which did not help. "Falling asleep was never the problem," Mr. Jones explained. Meanwhile, he heeded some of the advice he read online. Although he felt reliant on coffee during the day, he never drank it after 2:00 P.M. An avid tennis player, he restricted his court time to the early morning. He did have a glass or two of wine every night at dinner with his fiancée, however. "By dinnertime I start to worry about whether I'll be able to sleep," he said, "and, to be honest, the wine helps."

The patient, a slender and fit-appearing young man looking very much the part of the young academic in a tweed jacket and tortoise-rimmed glasses, was pleasant and open in his storytelling. Mr. Jones did not appear tired but told the evaluating psychiatrist, "I made a point to see you in the morning, before I hit the wall." He did not look sad or on edge and was not sure if he had ever felt depressed. But he was certain of the nagging, low-level anxiety that was currently oppressing him. "This sleep problem has taken over," he explained. "I'm stressed about my work, and my fiancée and I have been arguing. But it's all because I'm so tired."

Although this was his first visit to a psychiatrist, Mr. Jones spoke of a fulfilling 3-year psychodynamic psychotherapy with a social worker while in college. "I was just looking to understand myself better," he explained, adding with a chuckle that as the son of a child psychiatrist, he was accustomed to people assuming he was "crazy." He recalled always being an "easy sleeper" prior to his recent difficulties; as a child he was the first to fall asleep at slumber parties, and as an adult he inspired the envy of his fiancée for the ease with which he could doze off on an airplane.

Diagnosis

Insomnia disorder

Discussion

Mr. Jones reports 4 months of feeling dissatisfied with his sleep most nights, with difficulty maintaining sleep and early morning awakening. He describes daytime fatigue, difficulty concentrating, mild symptoms of anxiety, and interpersonal and vocational impairment. He does not appear to qualify for diagnoses of other medical, psychiatric, sleep, or substance use disorders. He meets the clinical criteria for DSM-5 insomnia disorder.

The case history suggests that the patient's sleep disturbance began during a period of heightened stress related to time pressures and that he has developed some behaviors that may worsen or perpetuate his sleep disturbance. He worries about not sleeping and creates a self-fulfilling prophecy. He may also be self-medicating with caffeine to maintain alertness during the day and with wine to dampen arousal during the evening.

Also noted is a medical history of asthma, for which Mr. Jones takes occasional β_2 -adrenergic receptor agonists. Because these medications may be stimulating, it would be helpful to know when and how much of them he actually uses.

The patient reports a history of participating for 3 years in psychodynamic psychotherapy while in college. It would be helpful to know more about his mood and anxiety symptoms to determine whether his insomnia might be related to an earlier, and perhaps recurrent, mood or anxiety disorder. Conversely, insomnia itself increases the risk for either new-onset or recurrent episodes of mood, anxiety, or substance use disorders. It might also be helpful to explore Mr. Jones's family history of mood, anxiety, substance use, or sleep disorders.

A 2-week sleep-wake diary would be helpful in evaluating Mr. Jones's sleep issues, including the amount of time spent in bed, his lifestyle (timing of physical and mental activities that could increase arousal and interfere with sleep), the timing and use of substances that can act on the central nervous system, and other medical issues (e.g., asthma attacks). A history from Mr. Jones's fiancée could be informative with respect to his sleep-related pathologies, such as apnea, loud snoring, leg jerks, or partial arousals from sleep (non-REM or REM parasomnias).

In addition to having Mr. Jones keep a sleep-wake diary, it would be useful to have him document the severity of his current sleep complaint by use of a self-report inventory such as the Insomnia Severity Index (ISI) or the Pittsburgh Sleep Quality Index (PSQI). These instruments provide useful baselines or benchmarks against which to measure change over time. In addition, the use of brief self-report measures of affective state, such as the Patient Health Questionnaire 9-item depression scale (PHQ-9) or the Generalized Anxiety Disorder 7-item scale (GAD-7), would allow the clinician to further assess for coexisting or supervening mental disorders.

Formal sleep laboratory testing (polysomnography) does not appear to be indicated for Mr. Jones. However, if further information emerged from history or diary, it could be appropriate to obtain testing for a breathing-related sleep disorder or for periodic limb movement disorder. Another diagnostic possibility is a circadian rhythm sleep disorder, such as an advanced sleep phase syndrome (unlikely, however, given the relatively young age of the patient).

As illustrated by this case, DSM-5 has moved away from categorizing "primary" or "secondary" forms of insomnia disorder. Instead, DSM-5 mandates concurrent specification of coexisting conditions (medical, psychiatric, and other sleep disorders), for two reasons: 1) to underscore that the patient has a sleep disorder warranting independent clinical attention, in addition to the medical or psychiatric disorder also present, and 2) to acknowledge bidirectional and interactive effects between sleep disorders and coexisting medical and psychiatric disorders.

This reconceptualization reflects a paradigm shift in the field of sleep disorders medicine. The shift is away from making causal attributions between coexisting disorders ("a" is due to "b"), because there are often limited empirical data to support such attribution and because optimal treatment planning requires attention to both "a" and "b" (because the co-occurrence of each may make the other worse).

Thus, the differential diagnosis of sleep-wake complaints necessitates a multidimensional approach, with consideration of coexisting conditions. Such conditions are the rule, not the exception. Finally, the DSM-5 classification of insomnia disorder and other sleep-wake disorders includes dimensional as well as categorical assessment, for several reasons: 1) to capture severity, 2) to facilitate measurement-based clinical care, 3) to capture behaviors that may contribute to the pathogenesis and perpetuation of sleep-wake complaints, and 4) to allow correlation with and exploration of underlying neurobiological substrates.

Suggested Readings

Chapman DP, Presley-Cantrell LR, Liu Y, et al: Frequent insufficient sleep and anxiety and depressive disorders among U.S. community dwellers in 20 states, 2010. Psychiatr Serv 64(4):385–387, 2013

Reynolds CF 3rd: Troubled sleep, troubled minds, and DSM-5. Arch Gen Psychiatry 68(10):990-991, 2011

Reynolds CF 3rd, O'Hara R: DSM-5 sleep-wake disorders classification: overview for use in clinical practice. Am J Psychiatry (in press)

Case 12.2Anxious and Sleepy

Maurice M. Ohayon, M.D., D.Sc., Ph.D.

Bernadette Kleber was a 34-year-old divorced, unemployed white mother of three school-age children. She was living with a new companion. Ms. Kleber presented to a psychiatrist for anxiety and sleepiness.

Ms. Kleber had experienced anxiety much of her life, but she had become much more worried and stressed since the birth of her first child 10 years before. She said she was "okay at home" but anxious in social situations. She avoided having to interact with new people, fearing that she would be embarrassed and judged. For example, she wanted to lose the weight that she had gained since the births of her children (current body mass index [BMI] 27.7) but was afraid of the ridicule that might accompany her efforts at the gym. She had gradually withdrawn from situations in which she might be forced to meet new people, and this made it almost impossible for her to interview for a new job, much less work in one. She had been successfully treated for social phobia 5 years earlier with psychotherapy, a selective serotonin reuptake inhibitor [SSRI] antidepressant, and clonazepam 0.25 mg twice daily, but her symptoms had returned over the prior year. She denied increasing the dose of either medication or taking any other medication (prescribed or over the counter) for anxiety. Although excited about her new relationship, she was worried her new girlfriend would leave her if she did not "tune up my act."

She denied periods of significant depression, although she said she had experienced multiple periods of feeling frustrated with her limited effectiveness. She also denied all manic symptoms.

The psychiatrist then asked Ms. Kleber about her "sleepiness." She said she slept more than anyone she knew. She said she typically slept at least 9 hours per night but then took two naps for 5 additional hours during the day. She did not recall a problem until the end of high school, when she started falling asleep around 8:00 or 9:00 P.M. and dozing every afternoon. When she tried to go to college, she realized how much more sleep she needed than her friends and eventually dropped out because she could not stay awake in class. Despite the naps, she typically fell asleep when visiting friends or family and when reading or watching TV. She quit driving alone for fear of falling asleep at the wheel. Late afternoon naps were not restorative and had no apparent impact on her falling asleep at night.

Raising a family was difficult, especially because mornings were Ms. Kleber's worst period. For at least half an hour after waking, she was disoriented and confused, making it difficult to get her children to school. Throughout the day, she said she felt "scattered and inattentive."

Snoring had appeared 5 years earlier. Her companion was unsure whether Ms. Kleber also had breathing pauses during her sleep. Ms. Kleber denied having ever experienced sleep paralysis or abruptly falling asleep in the middle of a sentence. Although she would fall asleep while socializing, it would generally occur during a lull in the conversation while she was in a quiet spot in the corner of a couch. She denied falling down when she fell asleep. She reported experiencing hypnopompic hallucinations several times per year since she was a teenager.

On examination, Ms. Kleber was an overweight woman who was cooperative and coherent. She was concerned about her anxiety but preoccupied with her sleep problem. She denied depression, suicidality, psychosis, and memory complaints. Her insight and judgment appeared intact.

Her physical examination was essentially noncontributory. Her medical history was significant only for hypercholesterolemia and occasional migraine headaches. Ms. Kleber did have some muscular complaints, such as weakness in her legs and pain in her left arm; these were related to exertion. She has smoked marijuana occasionally to help with her pain but denied that the marijuana was an important contributor to her sleepiness. She denied a history of head trauma and unusual illnesses. She denied a family history of sleep or mood problems, although multiple relatives were "anxious."

Ms. Kleber was referred for sleep studies. Polysomnography showed an apnea hypopnea index of 3 events per hour. The next day, she underwent a multiple sleep latency test (MSLT), which indicated a mean sleep latency of 7 minutes with one sleep-onset REM period during the testing. A lumbar puncture was done to assess cerebrospinal fluid (CSF) levels of hypocretin-1; the level appeared in the normal range.

Diagnoses

Social phobia

• Hypersomnolence disorder

Discussion

Ms. Kleber appears to have several DSM-5 diagnoses that warrant clinical attention. She has been diagnosed with social phobia in the past, and its recurrence seems to have led to this psychiatric consultation. She has gained weight since the birth of her children, and her obesity exacerbates her social avoidance and puts her at risk for sleep disturbances and medical complications. Obesity is not a diagnosis in the main text of DSM-5, but it is listed in the DSM-5 chapter "Other Conditions That May Be a Focus of Clinical Attention." Ms. Kleber's anxiety and weight issues might both warrant independent clinical attention, but it is her sleep problems that appear to most profoundly affect her life.

Ms. Kleber sleeps too much. The sleep is not restful or restorative. Because of the sleep problems, she can barely function as a mother and she indicates that she cannot keep or maintain a job, drive independently, or socialize with friends. She is worried she will lose her new romantic partner. The excess sleep and sleepiness have apparently occurred daily since she neared the end of high school. Ms. Kleber's symptoms are indicative of DSM-5 hypersomnolence disorder. Criteria include symptoms at least 3 days per week for at least 3 months (Ms. Kleber has had symptoms almost daily for over 15 years). The nocturnal sleep duration (9 hours) alone might not suggest a problem, but her total daily sleep duration of 14 hours is typical of hypersomnolence, as are her inertia upon awakening and her unexpected lapses into sleep.

It is important to rule out other explanations for her somnolence. Ms. Kleber smokes marijuana and uses a benzodiazepine for anxiety. She insists that her use is either occasional (the marijuana) or at a low, stable dose (the clonazepam), and that her symptoms predated her use of either. Although both can be sedating, they do not appear to be causative agents. She has pain and headaches, so it would be useful to tactfully inquire further about her possible use of pain medications, which can be sedating. She also describes demoralization about her lack of effectiveness, which should prompt a consideration of depression, which can lead to excessive amounts of nonrestorative sleep. At the moment, none of these possibilities seems likely.

There are multiple sleep disorders that can lead to excessive sleep and/or daytime somnolence. Ms. Kleber's obesity, excessive sleepiness, and snoring should prompt a consideration of sleep apnea, and a sleep study was certainly indicated. Polysomnography yielded an apnea hypopnea index of 3 events per hour, which is in the normal range and indicates that Ms. Kleber does not have a sleep-related breathing disorder.

Ms. Kleber should also be evaluated for narcolepsy, which is characterized by recurrent periods of an irrepressible need to sleep, lapsing into sleep, or napping within the same day. Ms. Kleber's clinical picture is suggestive. Not only does she fall asleep abruptly, but she has relatively frequent hypnopompic hallucinations. Although generally considered normal, hypnopompic hallucinations can reflect sleep-onset REM intrusions and are, therefore, suggestive of narcolepsy. To satisfy requirements for DSM-5 narcolepsy, the individual should demonstrate cataplexy, CSF hypocretin deficiency, or a reduction of REM sleep latency during nocturnal polysomnography or an MSLT. Ms. Kleber's MSLT showed a mean sleep latency of 7 minutes with only one sleep-onset REM period during the testing. The sleep latency is brief; however, to qualify for narcolepsy, she would need at least two early REM periods during the study. Levels of CSF hypocretin-1 appeared in the normal range, which rules out narcolepsy-cataplexy/hypocretin deficiency syndrome. Unless her episodes of falling asleep are viewed as cataplexy, Ms. Kleber would not qualify for a narcolepsy diagnosis. At this point, then, Ms. Kleber qualifies only for DSM-5 hypersomnolence disorder in addition to her social phobia.

Suggested Readings

Karasu SR, Karasu TB: The Gravity of Weight: A Clinical Guide to Weight Loss and Maintenance. Washington, DC, American Psychiatric Publishing, 2010

Ohayon MM, Reynolds CF 3rd: Epidemiological and clinical relevance of insomnia diagnosis algorithms according to the DSM-IV and the International Classification of Sleep Disorders (ICSD). Sleep Med 10(9):952–960, 2009

Ohayon MM, Dauvilliers Y, Reynolds CF 3rd: Operational definitions and algorithms for excessive sleepiness in the general population: implications for DSM-5 nosology. Arch Gen Psychiatry 69(1):71–79, 2012

Case 12.3Sleepiness

Brian Palen, M.D., Vishesh K. Kapur, M.D., M.P.H.

César Lopez, a 57-year-old Hispanic man, presented for reevaluation of his antidepressant medication. He described several months of worsening fatigue, daytime sleepiness, and generally "not feeling good." He lacked the energy to do his usual activities, but he still enjoyed them when he did participate. He had been having some trouble focusing on his work as an information technology consultant and was worried that he would lose his job. An SSRI antidepressant had been started 2 years earlier, resulting in some improvement of symptoms, and Mr. Lopez insisted he was adherent to this medication.

He denied stressors. In addition to having been diagnosed with depression, he had hypertension, diabetes, and coronary artery disease. He complained of heartburn as well as erectile dysfunction, for which he had not been medically evaluated.

Mr. Lopez was born in Venezuela. He was married and had two grown children. He did not consume tobacco or alcohol but did drink several servings of coffee each day to help maintain alertness.

On physical examination, he was 5 feet 10 inches tall, weighed 235 pounds, and had a BMI of 34. His neck circumference was 20 inches. His respiratory rate was 90, and his blood pressure was 155/90. No other abnormalities were present.

On mental status examination, the patient was a heavyset, cooperative man who appeared tired but was without depressed mood, anxiety, psychosis, or cognitive decline.

More focused questioning revealed that Mr. Lopez not only had trouble staying awake at work, but also occasionally nodded off while driving. He slept 8–10 hours nightly but had frequent awakenings, made nightly trips to the bathroom (nocturia), and often woke with a choking sensation and sometimes with a headache. He had snored since childhood, but he added, "All the men in my family are snorers." Before she elected to sleep nightly in their guest bedroom, his wife said he snored very loudly and intermittently stopped breathing and gasped for air.

Mr. Lopez was sent for a sleep study (polysomnography). Results included the following:

- Apnea hypopnea index: 25 events per hour
- Oxygen desaturation index: 20 events per hour
- Nadir oxygen saturation: 82%
- % Time with oxygen saturation < 90%: 8%
- Arousal index: 35 events per hour
- Sleep stage (%):
 - % Time in stage N1 sleep: 20%
 - % Time in stage N2 sleep: 60%
 - % Time in stage N3 sleep: 10%
 - % Time in REM sleep: 10%

Diagnosis

Obstructive sleep apnea hypopnea, moderate severity

Discussion

Mr. Lopez presents for a reevaluation of his treatment for depression, but his presenting symptoms are much more notable for fatigue and sleepiness than for a mood disorder. The patient's history of loud snoring and episodes of choking and gasping suggest that his most likely underlying problem is obstructive sleep apnea hypopnea (OSAH).

Although OSAH affects about 3% of the overall population, rates are much higher in people with pertinent risk factors. Mr. Lopez, for example, is above age 50, is obese with a large neck circumference, and has a family history notable for "all the men" being snorers. Snoring is a particularly sensitive indicator for OSAH, especially when very loud, occurring more than 3 days per week, and accompanied by episodes of choking and gasping. As seen in Mr. Lopez, patients with OSAH also frequently report nocturia, heartburn, sexual dysfunction, and morning headaches, reflecting the multisystem effects of this disorder.

OSAH is characterized by the repetitive collapse (apnea) or partial collapse (hypopnea) of the pharyngeal airway during sleep. Relaxation of the pharyngeal muscles during sleep allows soft tissue in the back of the throat to block the pharyngeal airway. The resultant decrease in airflow can cause significant reductions in blood oxygen saturation. The increased work of breathing through an occluded airway stimulates brief arousals to allow resumption of normal breathing. This pattern can repeat itself hundreds of times throughout the night, resulting in significantly fragmented sleep patterns.

Sleep studies (polysomnography) quantify sleep in multiple ways, but DSM-5 focuses specifically on the apnea hypopnea index (AHI), which is a measure of the number of complete breathing pauses (apneas) and partial breathing events (hypopneas) that last for at least 10 seconds per hour of sleep. If patients have at least 15 obstructive apneas or hypopneas per hour (an AHI of 15), they meet criteria regardless of associated symptoms. With at least five such episodes (an AHI of 5), patients must also have either nocturnal breathing disturbances or daytime sleepiness or fatigue.

The AHI is also the determinant of the severity of OSAH. Mild cases are associated with an AHI of less than 15 (which, by definition, includes some sort of symptoms). Mr. Lopez's 25 events per hour fall in the moderate range of 15–30. OSAH is considered to be severe if the AHI is greater than 30.

Although not specifically related to DSM-5 criteria, Mr. Lopez's polysomnography is notable for abnormal sleep architecture, with a reduction of the percentage of time spent in REM and stage N3 sleep. It demonstrates elevated amounts of time spent with oxygen saturation below 90%, and his arousal index, which measures cortical arousals per hour, is 35, far above the 20 that is the high range of normal.

OSAH is similar to many DSM-5 diagnoses in that if untreated, it can have a seriously negative impact on quality of life. OSAH is unusual within DSM-5, however, in that its diagnosis is heavily based on the results of a test rather than on clinical observation. As exemplified in the case of Mr. Lopez, many people with this disorder do not get promptly diagnosed, leading to extended periods of not receiving adequate treatment. Interestingly, one of the most "objective" of psychiatric diagnoses is only considered during a sensitive clinical assessment.

Suggested Readings

Peppard PE, Szklo-Coxe M, Hla KM, Young T: Longitudinal association of sleep-related breathing disorder and depression. Arch Intern Med 166(16):1709–1715, 2006

Schwartz DJ, Karatinos G: For individuals with obstructive sleep apnea, institution of CPAP therapy is associated with an amelioration of symptoms of depression which is sustained long term. J Clin Sleep Med 15(6):631–635, 2007

Sharafkhaneh A, Giray N, Richardson P, et al: Association of psychiatric disorders and sleep apnea in a large cohort. Sleep 28(11):1405–1411, 2005

Young T, Palta M, Dempsey J, et al: The occurrence of sleep-disordered breathing among middle-aged adults. N Engl J Med 328(17):1230–1235, 1993

Young T, Shahar E, Nieto FJ, et al: Predictors of sleep-disordered breathing in community dwelling adults: the Sleep Heart Health Study. Arch Intern Med 162(8):893–900, 2002

Case 12.4Feeling Itchy, Creepy, and Crawly

Kathy P. Parker, Ph.D., R.N.

Dingxiang Meng was a 63-year-old Chinese-born man who was referred for a psychiatric consultation for depression and excessive somatic complaints. He had a history of psychotic depressions for which he had been admitted twice in the prior decade. He was evaluated as an outpatient in the renal unit of a small hospital during his routine hemodialysis.

At the time of the evaluation, Mr. Meng said he felt "itchy, creepy, and crawly," like "worms were crawling underneath the skin." These symptoms had fluctuated over the prior few years but had worsened in recent weeks, and he felt like he was "going crazy." He said he was worried and often tired but said he always laughed when playing with his grandchildren or when visiting with people from his home country. He did not display a thought disorder. A review of the chart indicated that Mr. Meng's physical complaints had been conceptualized at various times as akathisia, peripheral neuropathy, and "psychosomatic" and "psychotically ruminative" symptoms. He had been euthymic and off all psychiatric medications for 2 years at the time of this evaluation.

Mr. Meng said his physical symptoms were worse at night when he tried to sit still or lie down. He said the discomfort was only in his legs. Rubbing them helped, but the greatest relief came from standing up and pacing. Dialysis was especially difficult because of "being strapped to a machine for hours." He also complained of daytime sleepiness and fatigue. In the course of the interview, Mr. Meng twice jumped up from receiving the dialysis. One of the nurses mentioned that he often asked to cut short his dialysis, generally looked tired, and always seemed to be "jumping around."

Mr. Meng had been diagnosed with diabetes soon after his immigration to the United States 15 years earlier. He developed progressive renal insufficiency and had begun hemodialysis 7 years earlier. He was divorced, with two adult children and three young grandchildren. He spoke little English; all interviews were done using a Mandarin interpreter. He lived with one of his children.

Diagnosis

Restless legs syndrome

Discussion

Mr. Meng presents with depression, fatigue, a creepy sensation of "worms" crawling under his skin, and an intense urge to move. It was not clear to earlier examiners whether his hospitalizations for "psychotic depression" were related to these physical sensations. These sensations were diagnosed in multiple ways over the years: as akathisia, peripheral neuropathy, and "psychosomatic" and "psychotically ruminative" symptoms.

Instead of these diagnoses, Mr. Meng most likely has restless legs syndrome (RLS). A newly independent diagnosis in DSM-5, RLS is characterized by an urge to move the legs, usually accompanied by disagreeable sensations. Mr. Meng's symptoms are typical. The symptoms are improved by movement and are most intense in the evening or when the person is in some sort of sedentary situation (such as dialysis). The symptoms are frequent, chronic, and distressing.

RLS is a particularly common problem for people with end-stage renal disease (ESRD) who are undergoing dialysis. Usually, but not always, the condition is associated with periodic limb movements: stereotypical movements involving extension of the big toe with partial flexing of the ankle, knee, and sometimes hip. Mr. Meng's daytime sleepiness could be related to a delayed sleep onset but also to a reduction in the quality of his sleep; RLS is associated with both problems. ESRD and dialysis are adequate explanations for the RLS (which often has no explanation), but a search should be made for such contributors as anemia, folate deficiency, and uremia. Although obviously not applicable to Mr. Meng, pregnancy is also associated with RLS.

It is not clear why the RLS diagnosis was delayed, especially since RLS is such a common finding in dialysis units. Mr. Meng's history of psychotic depressions might have led the treating team to assume that his complaints were psychological. Such an understanding might have led to the diagnosis of "psychosomatic" symptoms, implying that his physical symptoms were attributable to some sort of psychological disorder or conflict. Not only does that appear to be a misunderstanding of Mr. Meng's complaints, it is a misuse of the term *psychosomatic*, which is better conceptualized as the branch of psychiatry that focuses on comorbidity between psychiatric and medical illnesses; using that definition, it is meaningless to describe someone as "psychosomatic." Because Mr. Meng was taking antipsychotic medication for at least some of the time that he was also symptomatic, it does make some sense that akathisia was considered. Newer antipsychotic medications (i.e., the atypical antipsychotics) are rarely implicated in akathisia, however, and his symptoms persisted 2 years after the discontinuation of all psychiatric medication. Peripheral neuropathy tends to cause pain, burning, and numbness in the extremities, which is not exactly Mr. Meng's actual complaint.

Perhaps of most concern are the chart notes that indicate that Mr. Meng's restless legs were a manifestation of "psychotic rumination." Communication difficulties may have contributed to this understanding, but it is possible that Mr. Meng's two psychiatric admissions for "psychotic depression" might have actually been precipitated by the somatic preoccupations, anxiety, and dysphoria caused by an undiagnosed case of RLS—a disorder that, although new to DSM-5 as a diagnosis, has long been found to be troublesome and is frequently comorbid with a number of medical illnesses.

Suggested Readings

Araujo SM, de Bruin VM, Nepomuceno LA, et al: Restless legs syndrome in end-stage renal disease: clinical characteristics and associated comorbidities. Sleep Med 11(8):785–790, 2010

Hening W, Allen RP, Tenzer P, Winkelman JW: Restless legs syndrome: demographics, presentation, and differential diagnosis. Geriatrics 62(9):26–29, 2007

La Manna G, Pizza F, Persici E, et al: Restless legs syndrome enhances cardiovascular risk and mortality in patients with end-stage kidney disease undergoing long-term haemodialysis treatment. Nephrol Dial Transplant 26(6):1976–1983, 2011

Li Y, Walters AS, Chiuve SE, et al: Prospective study of restless legs syndrome and coronary heart disease among women. Circulation 126(14):1689–1694, 2012

Oka Y, Ioue Y: Secondary restless legs syndrome [in Japanese]. Brain Nerve 61(5):539-547, 2009

Winkelman JW, Chertow GM, Lazarus JM: Restless legs syndrome in end-stage renal disease. Am J Kidney Dis 28(3):372–378, 1996

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Chapter 13. Sexual Dysfunctions

Introduction

John W. Barnhill, M.D.

Although the criteria for the sexual disorders are relatively straightforward, they hint at the challenge of categorizing sexual problems. For example, a diagnostic system that intends to meaningfully describe sexual dysfunction must take into consideration the broad range of normal sexual response. The system must take into account the fact that dysfunction and distress depend heavily on the individual's expectations, wishes, and opportunities regarding sexual activity (as well as those of his or her partner). It should consider the effects of aging. It should consider the effects of proscriptive societal and religious norms on sexual behavior as well as take into account what it means to sexually function as a man or woman (or elsewhere on the modern gender continuum). The system should also take into account medications and illnesses that predictably reduce sexual desire and/or function, as well as those that predictably intensify desire and/or function, in addition to the reality that most assessments of sexual function and dysfunction are incomplete without an understanding that although sexual response has a biological underpinning, it is experienced from intrapersonal, interpersonal, and cultural perspectives.

In that biopsychosocial context, making a diagnosis of, for example, male hypoactive sexual desire disorder is potentially more complicated than briefly exploring whether the patient is interested in having sex.

DSM-5 identifies eight sexual dysfunctions, four specific for men, three for women, and one that can apply to either gender (substance/medication-induced sexual dysfunction). DSM-5 terminology and criteria vary somewhat between the genders. For example, men may have erectile disorder and/or male hypoactive sexual desire disorder, but for women, the somewhat comparable condition is merged into female sexual interest/arousal disorder.

DSM-5 also addresses the fact that both men and women can have difficulties with orgasm. Whereas women may meet criteria for DSM-5 female orgasmic disorder, men may be diagnosed with either delayed ejaculation or premature (early) ejaculation. Women can also have genito-pelvic pain/penetration disorder, a diagnosis that is new to DSM-5 and that was developed with the increasing recognition that prior diagnoses of vaginismus and dyspareunia were highly comorbid and difficult to distinguish. In addition, as is generally the case in DSM-5, there are categories for clinical presentations that either do not quite meet criteria or are incomplete (i.e., other specified or unspecified sexual dysfunction).

Except for substance/medication-induced sexual dysfunction, all of the disorders require a minimum duration of 6 months. In addition, each disorder can be noted to be lifelong versus acquired and generalized versus situational. If a medical condition is deemed pertinent, it can be listed as a specifier, but DSM-5 has specifically excluded the previous diagnosis of sexual dysfunction due to a medical condition because of the view that most of the sexual dysfunctions can be attributable to both psychological and biological factors.

Suggested Readings

Balon R, Segraves RT (eds): Clinical Manual of Sexual Disorders. Washington, DC, American Psychiatric Publishing, 2009

Kaschak E, Tiefer L (eds): A New View of Women's Sexual Problems. Binghamton, NY, Haworth Press, 2001

Klein M: Sexual Intelligence: What We Really Want From Sex-and How to Get It. New York, HarperCollins, 2012

Case 13.1Sexual Dysfunction

Cynthia A. Graham, Ph.D.

Elizabeth Olsen and Finn Nelson presented for couples counseling in the context of increased bickering prior to their upcoming wedding. They were both successful attorneys in their late 30s. They had known each other since high school, had been dating for about 2 years, and planned to get married in about 6 months. Both denied ever having previously seen a therapist or received a psychiatric diagnosis.

The couples therapist met with them together for one session. Both Ms. Olsen and Mr. Nelson reported being very much in love and wanting the marriage to work out, but they also said that they were fighting much of the time. Ms. Olsen said she admired Mr. Nelson's brilliance and steadiness and did not know why they fought. He, on the other hand, said he was still "totally infatuated" but upset about Ms. Olsen's overall lack of interest in him. As the session neared a close, Mr. Nelson asked Ms. Olsen whether she wanted to bring up "the schedule, the alcohol, or the sex thing," at which she smiled and said, "I'm afraid we're out of time for today."

The therapist met with each of them separately. At his meeting, Mr. Nelson said his biggest concern with Ms. Olsen was her lack of interest in sex. She seemed to go through the motions, he said, and always relied on alcohol. He worried that he was a "7 trying to date a 10" and that she just did not find him attractive. He also worried that he loved her more than she loved him, and worried about the fact that, try as he might, he was unable to bring her to orgasm or to even get her significantly aroused. This was, in turn, leading him to initiate sex less frequently, and even when he tried, he would "often just give up half-way through." He had brought it up with her several times, but she had insisted that there was no problem. The therapist asked what he had meant by "the schedule thing." He explained that since they had begun dating, she had limited their time together to one "school night," usually a Tuesday, and then either a Friday or Saturday night. She had insisted that the schedule was necessary for her to complete her work and see her best girlfriends, but he had come to increasingly believe it was to avoid him.

In her individual session, Ms. Olsen said she was most frustrated by Mr. Nelson's intensity. She had set up their weekly schedule because otherwise he would want to constantly have sex with her. As it was, he wanted sex every time they got together, often twice in the same night. She readily admitted that she got drunk to tolerate intercourse. She added that she had used alcohol to numb herself since she began dating while in her teens. Until she had started dating Mr. Nelson, most of her sexual experiences had been while "drunk with strangers." She had had a couple of boyfriends, but one was secretly gay and the other was "happy to get a blow job every now and again." She had not told Mr. Nelson about these misadventures because she preferred that he continue to see her as "the near-virginal beauty queen." Although alcohol made intercourse acceptable, "sexual arousal was almost never tolerable" and made her want to pass out. In recent months, Mr. Nelson had increasingly "forced the orgasm issue." In the past, she would simply have broken up with any boyfriend who acted that way, but she believed she needed to stick it out because she was nearing 40 and this would be her "last chance to have a baby." When asked why she thought she had these issues with sex, Ms. Olsen looked out the window for almost a minute and answered, "I'm not going to tell you."

Diagnosis

Female sexual interest/arousal disorder

Discussion

Ms. Olsen and Mr. Nelson present because of bickering in anticipation of their upcoming wedding. Sexual and relationship problems frequently co-occur, and it will be important to assess whether their relationship difficulties preclude their working together to resolve their sexual problems.

From a diagnostic perspective, the most obvious issues surround Ms. Olsen, who reports that intercourse became somewhat tolerable only because of alcohol intoxication and that most of her sexual experiences had been while "drunk with strangers." She says that actual sexual arousal is "almost never tolerable" and makes her want to pass out. Ms. Olsen would ordinarily have broken up with any man who "forced the orgasm issue," but she is approaching 40, is desperate for a child, admires Mr. Nelson, and is trying to forge a workable compromise.

Looking at her issues from a DSM-5 perspective, Ms. Olsen has diminished interest in sexual activity and reduced enjoyment of sex, which indicates the possibility of female sexual interest/arousal disorder. She also does not experience orgasm during sexual activity, which could indicate female orgasmic disorder. It is not clear whether

she has pain during intercourse. If so, she might have genito-pelvic pain/penetration disorder. It appears that Ms. Olsen's sexual issues have been lifelong, as opposed to acquired. All of these diagnoses, however, require distress in Ms. Olsen. From the case report, it appears that her concern is not with her own sexuality but rather with Mr. Nelson's insistence on making sex part of the relationship.

Another important disqualifier for all of these DSM-5 diagnoses would be the presence of a nonsexual psychiatric diagnosis that could explain the symptoms. Ms. Olsen says sexual arousal makes her want to pass out and then tells the therapist that she is not going to reveal why she has these issues with sex. These statements imply the possibility of traumatic sexual experience(s) or early sexual abuse. It would be useful to explore further whether she has symptoms of posttraumatic stress disorder, depression, anxiety, or some other nonsexual psychiatric disorder that could be contributing to her sexual issues. If any of these other disorders are deemed causative, then Ms. Olsen would not warrant a separate DSM-5 diagnosis focused on her sexual issues.

Ms. Olsen also indicates a need to be intoxicated before engaging in sexual activity. The intoxication appears to be directly related to her more primary sexual issues, but the role of alcohol in her life should still be explored. If, for example, she has a history of "sex with strangers" that put her at physical risk and led to recurrent social problems, then she would probably be diagnosed with alcohol use disorder. While her alcohol use with Mr. Nelson is unlikely to pose physical dangers, it may be contributing to their bickering and may have other ramifications in her life.

Given the many potential diagnostic issues for this couple, it might be useful to employ Bancroft's "three windows approach." Through the first "window," the clinician explores aspects of the current situation that would affect their sexual relationship. Examples might be the bickering, Mr. Nelson's insecurity, and Ms. Olsen's rigid schedule imposed to limit sexual activity. The second window—vulnerability of the individual—encourages an exploration of past difficulties. Ms. Olsen's sexual issues are most obvious and warrant further exploration, but it would also be important to understand Mr. Nelson's sexual and relationship history. The third window—health-related factors that alter sexual function—emphasizes the importance of exploring potentially pertinent physical, pharmacological, or hormonal factors that might be affecting the couple's sexual life together.

The couple seems to focus very much on Ms. Olsen's sexual problems, but it would be useful to broaden the evaluation to include nonsexual issues that might be pertinent to their relationship. It is also notable that both Mr. Nelson and Ms. Olsen disclosed much more in their individual sessions than during their joint session. Although this is a common occurrence, it is important for the clinician to clarify what can and cannot be shared as well as to explore some of the reasons for each individual's reluctance to talk openly in front of the other.

Suggested Readings

Bancroft J: Human Sexuality and Its Problems, 3rd Edition. Edinburgh, Churchill Livingstone/Elsevier, 2009

Bancroft J, Loftus J, Long JS: Distress about sex: a national survey of women in heterosexual relationships. Arch Sex Behav 32(3):193–208, 2003

Graham CA: The DSM diagnostic criteria for female sexual arousal disorder. Arch Sex Behav 39(2):240-255, 2010

Laumann EO, Paik A, Rosen RC: Sexual dysfunctions in the United States: prevalence and predictors. J Am Med Assoc 281(6):537–544, 1999

Case 13.2Sexual Problems

Richard Balon, M.D.

Gerhard Palmer, a 55-year-old married accountant, presented to a psychiatrist for a second opinion in the context of recurrent major depression. He had not responded to two 3-month antidepressant trials, one with fluoxetine and another with sertraline, both at high dosages. He had not been taking medications for about a month following the last failed trial. The evaluation revealed a severely depressed man with profound psychomotor retardation, poor concentration, early insomnia, mildly diminished libido, and anhedonia. Mr. Palmer denied substance abuse, drank minimally, and did not smoke. He had started taking propranolol for hypertension about 6 months previously. His physical examination was unremarkable. Basic laboratory tests were within normal limits. His blood pressure was 135/85.

Treatment with clomipramine was initiated, and the dose was quickly titrated to 250 mg/day. Buspirone 30 mg/day was added. After 5 weeks of treatment, Mr. Palmer reported feeling much improved. He was sleeping and eating well, was participating in enjoyable activities with increasing enthusiasm, and, for the first time in many months, felt a return of his sexual interest.

After not having had sexual intercourse in months, Mr. Palmer tried unsuccessfully to have sex several times. He was distressed to find that for the first time in his life, he was unable to maintain an erection during intercourse and was unable to ejaculate, even during masturbation. These problems persisted for a month. He recalled having had slightly delayed ejaculation while taking fluoxetine. He did not recall sexual problems during a prior trial of bupropion.

Diagnoses

- Medication-induced sexual dysfunction
- Major depressive disorder, in full remission

Discussion

Mr. Palmer complains of sexual problems that partially fulfill the requirements for two DSM-5 diagnoses: erectile disorder and delayed ejaculation. His problems do not fulfill criteria for either of these disorders, however, for two reasons: the duration is less than 6 months, and there is a strong possibility that both of these conditions can be attributed to either medications or medical-psychiatric comorbidity.

Mr. Palmer's erectile and ejaculation difficulties appear to have begun directly after the initiation of clomipramine, a tricyclic antidepressant with strong serotonergic properties. TCA are associated with various impairments of sexual function, most frequently erectile dysfunction. Clomipramine's sexual side effects also include delayed or inhibited ejaculation, reflecting its effects as a strong serotonin reuptake inhibitor. Mr. Palmer has also been started on buspirone, a partial serotonin and dopamine agonist that is usually not associated with sexual dysfunction and which is sometimes actually used to ameliorate the sexual dysfunction associated with antidepressants.

If clomipramine is the offending agent, then Mr. Palmer's sexual dysfunction would best fit DSM-5 medicationinduced sexual dysfunction. The criteria for this disorder include evidence that the sexual dysfunction was temporally related to the onset or dosage change of a specific medication. The association of erectile disorder and delayed ejaculation with clomipramine in this case seems to be clear.

DSM-5 also requires an assessment that the sexual dysfunction is not better accounted for by some other mechanism. For example, major depression is frequently associated with sexual dysfunction, primarily decreased libido, which Mr. Palmer did have prior to taking clomipramine. His decreased libido actually improved with improvement of depression. In addition, various substances of abuse (e.g., alcohol, nicotine, heroin) can also be associated with impairment of sexual function. Mr. Palmer denies abusing substances, does not smoke, and drinks infrequently. Thus, substance abuse appears an unlikely cause of his sexual problems.

Various medical illnesses (e.g., diabetes mellitus, cardiovascular disease) are also associated with sexual problems. In fact, sexual dysfunction is sometimes the sentinel of physical illness. In regard to Mr. Palmer, he was diagnosed with high blood pressure and started taking propranolol 6 months earlier. Both hypertension and this medication can impair sexual functioning. However, Mr. Palmer did not report sexual dysfunction until after he started taking the clomipramine, months after starting the propranolol. Such a self-report would seem to rule out both hypertension and propranolol as the cause for the sexual difficulty, but it is also possible that Mr. Palmer's depression led to sexual inactivity, so that the sexual dysfunction simply went unnoticed. Nevertheless, the most likely culprit for his sexual dysfunction remains the clomipramine, the same medication that has significantly improved the quality of his life.

Suggested Readings

Balon R: SSRI-associated sexual dysfunction. Am J Psychiatry 163(9):1504-1509, 2006

oldberg JF, Ernst CL: Managing the Side Effects of Psychotropic Medications. Washington, DC, American Psychiatric Publishing, 2012

Introduction

John W. Barnhill, M.D.

Psychiatrists study, categorize, and treat all manners of mental illness. Although there is a fringe perspective that all mental illness is "myth," almost no one within psychiatry doubts the distress and dysfunction that accompany such mental illnesses as schizophrenia, psychotic depression, and bipolar mania. There is more debate, however, about symptom clusters that blend subtly into variations on normal. When is shyness an anxiety disorder? When does quirkiness become high-functioning autism spectrum disorder? At what point do disagreeable behaviors become a personality disorder? When do "senior moments" become minor neurocognitive disorder? These debates are inevitable and are akin to similar debates about such nonpsychiatric medical diagnoses as diabetes and hypertension.

Definitions of normalcy directly affect psychiatric research funding and clinical insurance coverage, and they affect how society views atypical feelings, behaviors, and thoughts. To deal with this issue, DSM-5 focuses heavily on distress and dysfunction and, throughout the text, advises clinicians to make diagnoses only when symptoms are both enduring and significant. This mandate seems clinically and ethically satisfying: if no one is suffering or being negatively affected, there is no disorder.

A heated debate remains, however, in regard to clusters of behaviors, cognitions, and feelings that are not intrinsically pathological but are problematic because they exist within a certain social structure. Perhaps nowhere is this debate more heated than in the discussion of sexual behavior. Historically, for example, homosexuality was classified as a psychiatric disorder. At least partly in response to political pressure, the diagnosis of homosexuality was changed in DSM-III to a diagnosis of unhappiness over being homosexual (ego-dystonic homosexuality). DSM-IV included persistent and marked distress about sexual orientation as a "sexual disorder not otherwise specified." DSM-5 has moved further away from pathologizing homosexuality by eliminating all specific references to sexual orientation as a cause of psychiatric disturbance. Obviously, people who engage in or fantasize about sex with people of the same gender can have any of the DSM-5 diagnoses—and they can also be unhappy about their sexual orientation is not viewed as a contributor privileged over any other characteristic.

Historically, gender identity referred to an individual's identification as a male or female. Typically, gender identity was viewed as binary and consistent with biological markers such as chromosomes and external genitalia. Some well-known clinics provided evaluations and treatment to assist people with discordant gender identity in their efforts to develop a body that matched their internal conception; however, for most psychiatrists, gender identity was rarely much of an issue.

Societal shifts have muddied these waters, and there are increasing numbers of people who do not see themselves as falling into traditional dichotomies (male/female; heterosexual/homosexual) and who connect with lesbian, gay, bisexual, and transgender organizations for a variety of reasons, including the shared sense of being societal outsiders.

DSM-III and DSM-IV entered these complex and largely uncharted waters with diagnoses (transsexualism and gender identity disorder, respectively) that indicated that the clinical problem was the discordant gender identity. DSM-5 moves further in the direction of depathologizing discordant gender identity by developing a new diagnosis, gender dysphoria, which emphasizes clinically significant distress or dysfunction along with the discordance.

The diagnosis of gender dysphoria may reflect a compromise between conflicting, pragmatic goals. For example, having a diagnosis that specifically references gender identity issues might be important for people who seek insurance coverage for gender reassignment surgery and hormonal therapy, as well as for transgender people who seek legal protection when they have experienced discrimination based on gender identity. On the other hand, it might be possible for a diagnosis related to gender identity to be used in legal settings as an indicator of some sort of pathology.

DSM-5 is not, however, most concerned with the financial and legal ramifications of its nomenclature. It also seems unlikely that DSM-5 intends the term *gender dysphoria* to refer primarily to psychological reactions to societal prejudice; discrimination comes in many forms, and no other triggers for discrimination are privileged with their

own diagnosis. DSM-5 also clarifies that the diagnosis does not refer simply to gender nonconformity or transvestism.

Instead, the DSM-5 diagnosis of gender dysphoria reflects a clinical reality: a subset of patients present with unhappiness that seems bound up with the discordance between their bodies and their sense of self as well as the reality that surgical and hormonal interventions are far from perfected. While perhaps an imperfect label, *gender dysphoria* is intended to improve the likelihood that these patients' specific issues will be the subject of clinical attention.

Suggested Readings

Altman K: Facial feminization surgery: current state of the art. Int J Oral Maxillofac Surg 41(8):885-894, 2012

Salamon G: Assuming a Body: Transgender and Rhetorics of Materiality. New York, Columbia University Press, 2010

Staub ME: Madness Is Civilization: When the Diagnosis Was Social. Chicago, IL, University of Chicago, 2011

Case 14.1Gender Reassignment

John W. Barnhill, M.D., Friedemann Pfäfflin, M.D.

Jody Rohmer, a 52-year-old salesperson, presented to a psychiatrist as part of a court proceeding that was intended to legally reassign her gender to female.

Jody had been born with male genitals and raised as a boy. In contrast to a more gender-typical older brother, Jody had been seen as a "sissy" since early childhood, generally preferring the company of girls to boys. She had considered herself a bisexual male through her teen years. Around age 19, during a romantic relationship with a man, she had become aware of a strong desire to be a woman. The relationship ended, but the desire to be a woman evolved into a strong sense that she had been born into the wrong gender. She had tried to figure out whether this sense had existed earlier, but all she could recall was occasionally wishing she were a girl to fit in more comfortably with her friends. She definitely recalled, however, that by age 19 or 20, she was very unhappy with being seen as a man and viewed her genitalia as "repugnant" and a "mistake of nature." Between ages 22 and 24, Ms. Rohmer lived as a female, including changing her name and exclusively wearing women's clothes. She also dated. Gay and straight men were generally uninterested, so she primarily dated lesbians or people at various stages of cross-sex treatment.

At age 24, Ms. Rohmer was evaluated by two experienced court-assigned psychiatrists, who agreed with her perspective. In the same year, she had sex reassignment surgery, followed by a legal sex change from male to female. The results of her sex reassignment surgery were not very satisfactory. She lived as a woman for over 15 years, but the experience did not live up to her expectations. A tall, muscular person, she was frequently identified as a transsexual rather than a woman like any other woman. She found this constant public scrutiny to be "exhausting." Although she dated regularly during this period, she was routinely disappointed in relationships with both male and female sexual partners.

At age 42, Ms. Rohmer consulted a plastic surgeon and asked him to remove her breast implants. She hoped that her life would be "easier and more relaxed" in the male role. She was also curious and excited about the prospect of integrating "male personality traits," which she saw as increased assertiveness and dominance. After the breast surgery, she began to take male hormones, which did make her more active and aggressive.

The shift did not, however, help her feel better. She missed her male genitals and was aware that they could never be satisfactorily reconstructed. The male hormones stimulated her sexual appetite, but she was left without the possibility of achieving a normal male orgasm. Instead of being relaxed after a sexual encounter, she felt tense and dissatisfied. Furthermore, dating became more complicated. She was still bisexual but primarily attracted to men. Most gay men were uninterested in a relationship (and/or sex) with someone with female genitalia, whereas most straight men were uninterested in a relationship (and/or sex) with someone who appeared male even if the person had female genitalia. She gravitated to lesbian circles but was unable to find a girlfriend. She also found that the

male hormones made her edgier and more aggressive at work, which led to a job loss and welfare, which was an embarrassing decline from her previously successful professional career.

Ms. Rohmer stopped taking male hormones at age 51 and found that her female identity was still very strong and even stronger than she herself had anticipated. She calmed down, found a new job, and came to the conclusion that her femininity was now irreversible. At age 52 she got new breast implants and applied to the court to again assign her legally as a woman.

Ms. Rohmer said she had been "depressed" in her early 20s and found psychotherapy to be helpful. She said she was an anxious person, generally worried that people were judging her negatively. She added that she also thought her perspective was accurate, that most people would immediately identify her as a man in a woman's body and think about her critically. She described a period of time during her 30s when she drank alcohol every evening to put herself to sleep, but denied negative consequences. She denied suicide attempts, arrests, and self-injuries such as cutting. She said she had "almost" given up on having a successful relationship but was "somehow" still optimistic that something would work out. She denied that her relationships had been particularly stormy or difficult; typically, she said, the other person would be initially intrigued but then become uninterested.

Diagnosis

Gender dysphoria

Discussion

Ms. Rohmer presents with a complex story of her own development as well the development of the concept of DSM-5 gender dysphoria.

Ms. Rohmer's natal gender was male, and she was raised as a boy. Her childhood behaviors were considered "sissy" and therefore "gender atypical." She would certainly have been aware by adolescence of her "gendernonconforming" behavior—if she were not aware, her classmates would no doubt have clarified the point—but she considered herself a bisexual male until age 19. At that point, she became aware of a strong sense of being a woman, although she vaguely recalled childhood memories in which she wished she could have been a girl so that she could more easily play with the girls on the playground. At that point, she would have been considered "transgender," a broad-spectrum term that refers to the transient or persistent identification as different from one's natal gender.

There is some ambiguity about when Ms. Rohmer decided she was female, but it seems most likely that she would be seen as having late-onset dissatisfaction, which refers to people whose dissatisfaction develops in adolescence and adulthood. Whereas natal males with childhood-onset gender dysphoria are almost always sexually attracted to men, those with late-onset gender dysphoria are generally attracted to women. Ms. Rohmer describes herself as bisexual in regard to her sexual object choice, but it would be useful to explore her fantasies rather than simply her behaviors. This is generally true in understanding sexual orientation (and sexuality in general), but it is especially true in someone like Ms. Rohmer who emphasizes that her sexual choices were heavily influenced by who happened to be interested in dating someone gender atypical rather than who she herself might find most appealing.

At the point when Ms. Rohmer first decided to live as a woman, she would have been viewed as a "transsexual," a term that refers to an individual who seeks or has undergone a social transition between genders (in Ms. Rohmer's case, from male to female). The gender reassignment came to fruition—both legally and surgically—when she was 24. Although she maintained a female "gender identity"—a social, not a physiological, construct—for over 15 years, she does not appear to have ever been satisfied. Neither the surgery nor her social life went as hoped, and her "posttransition" period was disappointing. Her diagnosis of gender dysphoria would be said to persist, therefore, and it also continued after she quit taking hormones and lived as a male. She now presents for further evaluation of the reasonableness of her request to shift her legal status back to female.

Ms. Rohmer first asked for such a gender reassignment when she age 24. At that time (about 1986), she would have been diagnosed with DSM-III transsexualism. During much of the time that she was dissatisfied with her female gender identity, she would have been diagnosed with DSM-IV gender identity disorder. DSM-5 criteria indicate that she should be diagnosed with gender dysphoria, a term that emphasizes that the disorder is not her gender atypicality but rather her distress over her situation. Ms. Rohmer's situation is complicated by the back-and-forth efforts to reach a satisfactory compromise. Nevertheless, she does express dissatisfaction with her current secondary sexual characteristics (male) and a strong desire for the secondary characteristics of the other gender.

In addition to assessing the acceptability of shifting her legal status, the consulting psychiatrist should look for likely comorbid conditions. Ms. Rohmer describes depression, anxiety, and excessive alcohol use. The case report is inconclusive, but these conditions all should be further explored.

Suggested Readings

Byne W, Bradley SJ, Coleman E, et al: Treatment of gender identity disorder. Am J Psychiatry 169(8):875–876, 2012

de Vries AL, Cohen-Kettenis PT: Clinical management of gender dysphoria in children and adolescents: the Dutch approach. J Homosex 59(3):301–320, 2012

Drescher J, Byne W: Gender dysphoric/gender variant (GD/GV) children and adolescents: summarizing what we know and what we have yet to learn. J Homosex 59(3):501–510, 2012

Pfäfflin F: Regrets after sex reassignment surgery. J Psychol Human Sex 5(4):69–85, 1992. Reprinted in: Bockting W, Coleman E (eds): Gender Dysphoria: Interdisciplinary Approaches in Clinical Management. New York, Haworth Press, 1992, pp 69–85

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Introduction

John W. Barnhill, M.D.

Executive functions help control and regulate attention, memory, and behavior. They are critical to adaptation, to the initiation and completion of tasks, and to the ability to delay gratification. They inhibit inappropriate, dangerous, and hurtful behaviors.

Disruptive, impulse-control, and conduct disorders compose make up a heterogeneous cluster of people who all tend to have impaired executive functioning. The DSM-5 chapter defining these conditions includes oppositional defiant disorder, intermittent explosive disorder, conduct disorder, antisocial personality disorder, pyromania, and kleptomania, as well as categories for people who have clinically relevant symptoms but do not meet criteria for a named disorder.

Other DSM-5 disorders are associated with impulsivity, poor planning, and interpersonal conflicts, and these other disorders—ranging from attention-deficit/hyperactivity disorder to substance use disorders to some of the personality disorders—are frequently comorbid with the disorders described in this chapter. Furthermore, disruptive impulsivity is associated with substance use, HIV and hepatitis C infections, traumatic brain injury, and all manner of dangerous behavioral patterns that produce direct physiological assaults on executive functioning and can lead to intensifying cycles of dysfunctional behavior.

All of these disorders tend to start early in life, which is unsurprising given the relative immaturity of executive functions during childhood and adolescence. If the clinical interview indicates that one of the disruptive, impulsecontrol, or conduct disorders has suddenly sprouted during the adult years, the individual most likely either has developed a serious neuropsychiatric disorder or has not provided an accurate history. On the other hand, children who present with one of these disorders do not inevitably go on to develop such pervasively damaging diagnoses as antisocial personality disorder or lifelong intermittent explosive disorder. They are at risk for ongoing problems, however, including depressive, anxiety, and substance use disorders.

These children are also at risk for encountering a disproportionate amount of societal trouble, and DSM-5 provides a structure for investigating severity. In individuals with oppositional defiant disorder, for example, pervasiveness of symptoms across settings is a useful marker for severity, whereas "limited prosocial emotions" is a specifier for conduct disorder that identifies greater severity and a different treatment response.

Poorly controlled behavior and emotions lie on a continuum, and most sporadically impulsive behavior and dysregulated emotions do not indicate a DSM-5 disorder but rather immaturity intensified by such situational issues as family and interpersonal strife, intoxication, and peer pressure. As is the case throughout DSM-5, the onus is on the clinician to carefully consider when thoughts, feelings, and behaviors cross the line into a level of distress and dysfunction that warrants a diagnosis.

Particularly relevant variables include frequency, setting, and duration of the troublesome episodes. An accurate history is necessary to gather this information. Such an investigation can be stymied by the fact that, as is the case with the personality disorders, people other than the identified patient may be more distressed than the patient. Furthermore, psychiatric history tends to depend on patient honesty, and many of these patients are not spontaneously and transparently forthcoming. For these reasons, evaluations are often initiated by family and institutions (school, work, the legal system) and are unlikely to be complete without collateral information.

Suggested Readings

Buitelaar JK, Smeets KC, Herpers P: Conduct disorders. Eur Child Adolesc Psychiatry 22 (suppl 1):S49-S54, 2013

Hollander E, Stein DJ (eds): Clinical Manual of Impulse-Control Disorders. Washington, DC, American Psychiatric Publishing, 2006

Pardini DA, Frick PJ, Moffitt TE: Building an evidence base for DSM-5 conceptualizations of oppositional defiant disorder and conduct disorder: introduction to the special section. J Abnorm Psychol 119(4):683–688, 2010

Case 15.1Doesn't Know the Rules

Juan D. Pedraza, M.D., Jeffrey H. Newcorn, M.D.

Kyle was a 12-year-old boy who reluctantly agreed to admission to a psychiatric unit after getting arrested for breaking into a grocery store. His mother said she was "exhausted," adding that it was hard to raise a boy who "doesn't know the rules."

Beginning as a young child, Kyle was unusually aggressive, bullying other children and taking their things. When confronted by his mother, stepfather, or a teacher, he had long tended to curse, punch, and show no concern for possible punishment. Disruptive, impulsive, and "fidgety," Kyle was diagnosed with attention-deficit/hyperactivity disorder (ADHD) and placed in a special education program by second grade. He began to see a psychiatrist in fourth grade for weekly psychotherapy and medications (quetiapine and dexmethylphenidate). He was adherent only sporadically with both the medication and the therapy. When asked, he said his psychiatrist was "stupid."

During the year prior to the admission, he had been caught stealing from school lockers (a cell phone, a jacket, a laptop computer), disciplined after "mugging" a classmate for his wallet, and suspended after multiple physical fights with classmates. He had been arrested twice for these behaviors. His mother and teachers agreed that although he could be charming to strangers, people quickly caught on to the fact that he was a "con artist." Kyle was consistently unremorseful, externalizing of blame, and uninterested in the feelings of others. He was disorganized, was inattentive and uninterested in instructions, and constantly lost his possessions. He generally did not do his homework, and when he did, his performance was erratic. When confronted about his poor performance, he tended to say, "And what are you going to do, shoot me?" Kyle, his mother, and his teachers agreed that he was a loner and not well liked by his peers.

Kyle lived with his mother, stepfather, and two younger half-siblings. His stepfather was unemployed, and his mother worked part-time as a cashier in a grocery store. His biological father was in prison for drug possession. Both biological grandfathers had a history of alcohol dependence.

Kyle's early history was normal. The pregnancy was uneventful, and he reached all of his milestones on time. There was no history of sexual or physical abuse. Kyle had no known medical problems, alcohol or substance abuse, or participation in gang activities. He had not been caught with weapons, had not set fires, and had not been seen as particularly cruel to other children or animals. He had been regularly truant from school but had neither run away nor stayed away from home until late at night.

When interviewed on the psychiatric unit, Kyle was casually groomed and appeared his stated age of 12. He was fidgety and made sporadic eye contact with the interviewer. He said he was "mad" and insisted he would rather be in jail than on a psychiatric unit. His speech was loud but coherent, goal directed, and of normal rate. His affect was irritable and angry. He denied suicidal or homicidal ideation. He denied psychotic symptoms. He denied feeling depressed. He had no obvious cognitive deficits but declined more formal testing. His insight was limited, and his judgment was poor by history.

Diagnoses

- Conduct disorder, childhood-onset type, severe, with limited prosocial emotions
- Attention-deficit/hyperactivity disorder

Discussion

Kyle is a 12-year-old boy who was brought to a psychiatric unit after getting caught breaking into a grocery store. He has a lengthy history of behaviors that violate the rights of others. These behaviors deviate significantly from age-appropriate societal norms and have caused social, academic, and functional impairment. He has a disorder of conduct.

In DSM-5, the criteria for conduct disorder (CD) are organized into four categories of behavior: aggression to people and animals, destruction of property, deceitfulness or theft, and serious violations of rules. A CD diagnosis requires three or more specific behaviors out of the 15 that are listed within these four categories. The behaviors

must have been present in the last 12 months, with at least one criterion present in the prior 6 months. Kyle has at least seven of the 15: bullying, fighting, stealing (with and without confrontation), break-ins, lying, and truancy.

Kyle also has a history of comorbid DSM-5 ADHD, as evidenced by persistent symptoms of hyperactivity, restlessness, impulsivity, and inattention. ADHD is found in about 20% of youth with CD. The criteria for the two disorders are relatively distinct, although both entities present with pathological levels of impulsivity.

DSM-5 includes multiple specifiers that allow CD to be further subdivided. Kyle's behavior began before age 10, which places him in the category of childhood-onset type as opposed to adolescent-onset type. There is also an unspecified-onset designation, used when information is inadequate to clarify whether the behaviors began before age 10. When trying to identify the age at onset, the clinician should seek multiple sources of information and recall that estimates are often 2 years later than actual onset. People with an early age at onset—like Kyle—are more likely to be male, to be aggressive, and to have impaired peer relationships. They are also more likely to have comorbid ADHD and to go on to have adulthoods marked by criminal behavior and substance use disorders. In contrast, CD that manifests between ages 10 and 16 (onset is rare after age 16) tends to be milder, and most individuals go on to achieve adequate social and occupational adjustment as adults. Both groups have an elevated risk, however, of many psychiatric disorders.

The second DSM-5 specifier for CD relates to the presence (or absence) of callous and unemotional traits. The "limited prosocial emotions" specifier requires the persistent presence of two or more of the following: lack of remorse or guilt; lack of empathy; lack of concern about performance; and shallow or deficient affect. Kyle has a history of disregard for the feelings of others, appears unconcerned about his performance ("What are you going to do, shoot me?"), and shows no remorse for his actions. This label applies to only a minority of people with CD and is associated with aggression and fearless thrill seeking.

A third specifier for CD relates to the severity of symptoms. Lying and staying out past a curfew might qualify a person for mild CD. Vandalism or stealing without confrontation might lead to a diagnosis of moderate CD. Kyle's behaviors would qualify for the severe subtype.

Multiple other aspects of Kyle's history are useful to understanding his situation. His father is in prison for substance use and/or dealing. Both of his biological grandfathers have histories of alcohol abuse. His mother and stepfather are underemployed, although details about the stepfather are unknown. In general, CD risk has been found to be increased in families with criminal records, conduct disorder, and substance abuse, as well as mood, anxiety, and schizophrenia spectrum disorders. Environment also contributes, both in regard to chaotic early child-rearing and, later, to living in a dangerous, threatening neighborhood.

Kyle's diagnosis of conduct disorder is an example of how diagnoses can evolve over the course of a lifetime. His earlier behavior warranted a diagnosis of DSM-5 oppositional defiant disorder (ODD), which is characterized by a pattern of negative, hostile, and defiant behaviors that are usually directed at an authority figure (e.g., parent or teacher) and may cause significant distress in social or academic settings. However, ODD cannot be diagnosed if CD is present. As he enters adolescence, Kyle is at risk for many psychiatric disorders, including mood, anxiety, and substance abuse disorders. Of particular concern is the possibility that his aggression, theft, and rules violations will persist and his diagnosis of conduct disorder will shift in adulthood to antisocial personality disorder.

Suggested Readings

Buitelaar JK, Smeets KC, Herpers P.: Conduct disorders. Eur Child Adolesc Psychiatry 22 (suppl 1):S49–S54, 2013

Maughan B, Rowe R, Messer J, et al: Conduct disorder and oppositional defiant disorder in a national sample: developmental epidemiology. J Child Psychol Psychiatry 45(3):609–621, 2004

Nock MK, Kazdin AE, Hiripi E, Kessler RC: Prevalence, subtypes, and correlates of DSM-IV conduct disorder in the National Comorbidity Survey Replication. Psychol Med 36(5):699–710, 2006

Rowe R, Maughan B, Moran P, et al: The role of callous and unemotional traits in the diagnosis of conduct disorder. J Child Psychol Psychiatry 51(6):688–695, 2010

Case 15.2Impossible to Live With

Emil F. Coccaro, M.D.

Lucas Sandahl, a 32-year-old landscape architect, presented to a psychiatrist for help with anger. He came to the office with his wife, the mother of their two young children. The couple agreed that Mr. Sandahl had become "almost impossible to live with." Mr. Sandahl's wife reported that although she had always considered her husband "high-strung," the outbursts were increasing in both frequency and intensity, and she worried that he would become violent with her.

Their most recent argument began when Mr. Sandahl came home after a "hard day at work" to find that dinner was not ready. When he entered the kitchen and saw his wife sitting at the table reading the newspaper, he "exploded" and launched into a tirade about how "bad" a wife she was. When his wife tried to explain her own long day, Mr. Sandahl cursed at her and broke glassware and a kitchen chair. Terrified, Mr. Sandahl's wife ran out of the kitchen, gathered up the toddlers, and left for her mother's house a few miles away. The next day, she told her husband that he would need to get help immediately or prepare for a divorce.

Mr. Sandahl said his "blowups" began in childhood but did not become "problematic" for him until age 13. At about that time, he started having frequent fights with classmates that would occasionally result in trips to the principal's office. In between the altercations, he was active socially and a solid student.

Mr. Sandahl estimated that he had had approximately four verbal outbursts a week in recent years, generally in response to frustration, unexpected demands, or perceived insults. In addition to these heated verbal tussles, Mr. Sandahl described acts of violence about every 2 months; for example, he threw a computer monitor across the room when it started "acting up," he kicked a hole in a wall when one of his children would not quit crying, and he destroyed his mobile phone during an argument with his mother. He denied physical fights since his adolescence, although he had nearly come to blows with a neighbor as well as an assortment of strangers and employees. The idea that he might physically hurt someone scared Mr. Sandahl "to the core."

These outbursts blighted his relationships with colleagues and romantic partners and led to his decision to start his own landscaping company at age 25. The business had done well, despite his demanding style and "hair-trigger" temper that led to high employee turnover.

Mr. Sandahl described the episodes as short-lived, reaching a peak within seconds and rarely lasting more than a few minutes. Between episodes, he described himself as feeling "fine." He had experienced brief periods of depressed mood and increased anxiety, but these had not impaired him significantly and tended to resolve on their own within a week. Mr. Sandahl drank socially, but neither he nor his wife linked the outbursts to the alcohol. He had a history of experimentation with various drugs of abuse, but not in recent years.

Mr. Sandahl reported at least two other immediate family members with significant "anger issues." His father was emotionally abusive and perfectionistic, expecting "great things" from his only son. Mr. Sandahl's older sister also had problems with her temper; he attributed her three divorces to her emotionally abusive behavior.

On examination, Mr. Sandahl was casually dressed, cooperative, and coherent. He was worried about his behavior and contrite toward his wife. He denied depression, psychosis, and confusion. He denied any thoughts of hurting himself or others. He was cognitively intact.

His insight and judgment were good during the course of the interview.

Diagnosis

Intermittent explosive disorder

Discussion

Aggressive behavior in individuals with DSM-5 intermittent explosive disorder (IED) is impulsive and/or anger based, is associated with significant distress and/or impairment, is expressed as either high-frequency but lowintensity or low-frequency but high-intensity verbal and physical aggression, and is not better explained by other behavioral disorders.

Mr. Sandahl meets all the DSM-5 criteria for IED. He reports verbally aggressive outbursts more than two times a week for more than 3 months, and he reports physically aggressive outbursts involving the destruction of property

at least three times a year. This behavior is invariably out of proportion to the provocations, is not planned, and is anger based. It causes impairment, if not distress, in his personal and work life, and it is not better explained by any other psychiatric disorder or medical illness.

Mr. Sandahl displays many features that are associated with IED but are not necessarily part of the DSM-5 criteria. These include hostile attribution bias (e.g., dinner not being ready because his wife is lazy rather than because she had a hard day herself), "trigger points" associated with frustration and/or perceived insults, an immediate family history of problems with anger, a personal history of emotional abuse (from his father), early age at onset, and chronic course. Many or most individuals with IED have traits associated with a personality disorder, even if they do not meet all the criteria for a specific personality disorder (e.g., perfectionism as in obsessive-compulsive personality disorder). This is because the vast majority of individuals with IED have long-standing difficulties with impulse control and interpersonal relationships. When individuals do meet criteria for IED and a personality disorder, both diagnoses should be made.

Individuals with borderline personality disorder and antisocial personality disorder are especially likely to have outbursts that can resemble those of IED. Unless they have a comorbid IED, however, their outbursts are generally less aggressive than those seen in people with IED.

The most common comorbidities with IED are anxiety, depressive, and substance use disorders. Although Mr. Sandahl describes transient periods of depressed mood and anxiety, and he does drink alcohol, none of these appear to fulfill criteria for a DSM-5 diagnosis. Intermittent outbursts are also found in a variety of other psychiatric disorders. If the recurrent explosive episodes were related to traumatic brain injury, delirium, dementia, or recurrent intoxication, then the IED diagnosis would not be applied. None of these appear pertinent to Mr. Sandahl's situation. On the other hand, if Mr. Sandahl had also been diagnosed with attention-deficit/hyperactivity disorder, conduct disorder, oppositional defiant disorder, or autism spectrum disorder, comorbid diagnoses would be appropriate.

In addition to frequent verbal and physical aggression, Mr. Sandahl also engages in intimate partner abuse. Although his behavior does not appear to be the controlling and isolating behavior of male intimate partner abusers who are psychopathic at core, his behavior is clearly abusive to his spouse, and she has finally reached the limit of her tolerance. Treatment is a critical issue not simply for the marriage but also to avoid perpetuating the cycle of violence in his children.

Suggested Readings

Coccaro EF: Intermittent explosive disorder as a disorder of impulsive aggression for DSM-5. Am J Psychiatry 169(6):577–588, 2012

Kessler RC, Coccaro EF, Fava M, et al: The prevalence and correlates of DSM-IV intermittent explosive disorder in the National Comorbidity Survey Replication. Arch Gen Psychiatry 63(6):669–678, 2006

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Introduction

Jonathan Avery, M.D.

The substance-related and addictive disorders chapter of DSM-5 covers disorders associated with 10 classes of drugs, as well as gambling disorder, the first behavioral addiction disorder to be included in DSM.

All of the DSM-5 substance use disorders require clinically significant impairment or distress and the presence of at least two physical, psychological, and social consequences of the drug use. DSM-5 includes several specifiers to further characterize the substance use disorders; these specifiers relate to *course* (e.g., early remission, sustained remission, etc.) and *severity*(based on the number of criteria endorsed). Notably, the diagnosis of substance use disorder has replaced the prior categories of substance abuse and dependence.

DSM-5 also provides diagnostic criteria for clinical presentations that are directly related to substance use, such as intoxication and withdrawal, along with descriptive specifiers. For example, if an individual presents with alcohol intoxication, the clinician can add a code indicating the presence or absence of a comorbid alcohol use disorder. For patients who maintain a clear sensorium during alcohol withdrawal but also develop perceptual disturbances, the DSM-5 diagnosis would likely be alcohol withdrawal with perceptual disturbances. In the much more likely event that the perceptual disturbances are accompanied by confusion, the diagnosis would shift to an alcohol withdrawal delirium (a disorder listed in the chapter on neurocognitive disorders rather than the chapter on substance-related disorders).

Substance use can also result in symptom clusters that resemble a broad array of psychiatric diagnoses, including depressive, bipolar, and psychotic disorders. DSM-5 clarifies a diagnostic approach that is based significantly on course and the likely impact of the substance in question. For example, if depressive symptoms occur during acute withdrawal from cocaine, the depressive symptoms would be deemed to be part of the withdrawal. If the clinically significant depressive symptoms begin in the context of cocaine use and then persist after cessation of the cocaine use and beyond the expected duration of withdrawal, the individual would likely qualify for a cocaine-induced depressive disorder. If the significant depressive symptoms persist an appreciable amount of time (e.g., 1 month) following the cessation of cocaine use, then the patient would likely be evaluated as having an autonomous major depressive disorder. In that event, the cocaine might be seen as a trigger but would no longer be part of the DSM-5 diagnosis.

Gambling disorder is a controversial addition to the chapter. Evidence indicates that behavioral addictions, such as gambling, have much in common with substance use disorders, including pattern of use and activation of the same reward system in the brain. Other behavioral addictions, such as Internet and sex addiction, are being considered for the next edition of DSM as well, but the evidence base for these disorders remains limited.

Suggested Readings

Galanter M, Kleber HD (eds): The American Psychiatric Publishing Textbook of Substance Abuse Treatment, 4th Edition. Washington, DC, American Psychiatric Publishing, 2008

Hasin DS, O'Brien CP, Auriacombe M, et al: DSM-5 criteria for substance use disorders: recommendations and rationale. Am J Psychiatry 170(8):834–851, 2013

Inaba DS, Cohen WE: Uppers, Downers, All Arounders, 7th Edition. Medford, OR, CNS Productions, 2011

Case 16.1A "Typical" Alcoholic

Marc A. Schuckit, M.D.

Matthew Tucker, a 45-year-old white plumber, was referred for a psychiatric evaluation after his family did an intervention to express their concern that his alcohol problems were getting out of hand. Mr. Tucker denied having had a drink since making the appointment 3 days earlier.

For 20 years after high school, Mr. Tucker typically drank 3–5 beers per evening, 5 times per week. Over the last 7 years, he had consumed alcohol almost daily, with an average of 6 beers on weeknights and 12 beers on weekends and holidays. His wife repeatedly voiced her concern that he was "drinking too much," but despite his efforts to limit his alcohol intake, Mr. Tucker continued to spend much of the weekend drinking, sometimes missing family get-togethers, and often passed out while watching TV in the evening. He remained productive at work, however, and never called in sick. In many ways, his history represents what is likely to be seen in the "typical alcoholic." Mr. Tucker had achieved two month-long periods of abstinence in the prior 4 years. Both times, he said he had gone "cold turkey" in response to his wife's concerns. He denied having had symptoms of alcohol withdrawal either time.

In the 6 months prior to the evaluation, Mr. Tucker had become uncharacteristically irritable, fatigued, dysphoric, and worried. He was unable to enjoy his usual activities, including food and sex, and had difficulty concentrating. He also reacted more emotionally to stresses and expressed unsubstantiated concern about the future of his business. The patient often awoke at 2:00 A.M. and had trouble getting back to sleep.

Mr. Tucker and his wife indicated that although this period of sadness had lasted 6 months, he had experienced several similar episodes in the prior 5 years, lasting 4–6 weeks each. They denied any such episodes earlier in his life.

Mr. Tucker had been married for 18 years, and he and his wife had one 17-year-old daughter. He was a high school graduate with 2 years of community college who currently owned a successful plumbing company. The patient denied any other history of psychiatric or medical problems, as well as any history of mania or suicide attempts. He had never seen a psychiatrist before.

At a recent annual checkup, Mr. Tucker's internist noted a mildly elevated blood pressure (135/92), a γ -glutamyltransferase value of 47 IU/L, and a mean corpuscular volume of 92.5 μ m³. All other laboratory results were in the normal range.

At the time of his first visit, Mr. Tucker was neatly dressed, maintained good eye contact, and showed no evidence of confusion or psychotic symptoms. His eyes teared up when he talked about the future, and he admitted to feeling sad for most or all of the day on a regular basis for the last 6 months, but he denied suicidal ideation or plans. His cognition was intact, and he demonstrated an understanding of the effects that the alcohol was having on him.

A physical examination by the psychiatrist revealed a normal pulse rate, no tremor or sweating, and only a slightly elevated blood pressure.

Diagnoses

- Alcohol use disorder
- Alcohol-induced depressive disorder

Discussion

Mr. Tucker appears to have at least two DSM-5 diagnoses. The first is alcohol use disorder, as indicated by his unsuccessful efforts to cut down, excessive time spent intoxicated or recovering from the effects of alcohol, missed important social activities, and continued use of alcohol despite problems. Mr. Tucker had no clinically significant symptoms of alcohol withdrawal during the evaluation despite having been abstinent for 3 days, and he denied any history of withdrawal during prior efforts to stop drinking.

A second diagnosis relates to his mood symptoms. Mr. Tucker meets symptomatic criteria for a major depressive episode with onset about 6 months earlier. He describes a persistently depressed mood, reduced interest in activities, interval insomnia, diminished ability to concentrate, and fatigue. He has had "several" such episodes in the past 5 years, all of which had apparently resolved spontaneously within 4–6 weeks of abstinence.

It is important to distinguish between depressive episodes that occur only in the context of heavy alcohol use and those that develop independent of excessive drinking. The latter occurring in a person with an alcohol use disorder

is likely to run the course of any major depressive episode, with a similar duration and response to usual treatments. Depressions that develop during periods of heavy drinking—as seen in Mr. Tucker—are different. More properly called an alcohol-induced depressive disorder, these episodes are likely to diminish and disappear within several weeks to a month of abstinence. Few data indicate that these depressions require antidepressant medications, and when the person stops the heavy drinking, the depressive symptoms are likely to diminish to below the threshold of a major depressive episode in less time than medications would probably take to produce their major effects. Subthreshold symptoms (e.g., sleep impairment) can persist, continuing to improve with sobriety. If criteria for major depression were to continue to be met after a month of abstinence, however, Mr. Tucker would be said to have an independent major depressive disorder, though the clinician might view the alcohol use as having been a triggering event.

Suggested Readings

Babor T, Higgins-Biddle J, Dauser D, et al: Brief interventions for at-risk drinking: patient outcomes and costeffectiveness in managed care organizations. Alcohol Alcohol 41(6):624–631, 2006

Schuckit MA: Alcohol-use disorders. Lancet 373(9662):492-501, 2009

Schuckit MA, Smith TL: Onset and course of alcoholism over 25 years in middle class men. Drug Alcohol Depend 113(1):21–28, 2011

Schuckit MA, Smith TL, Kalmijn J: Relationships among independent major depressions, alcohol use, and other substance use and related problems over 30 years in 397 families. J Stud Alcohol Drugs 74(2):271–279, 2013

Case 16.2Alcohol Withdrawal

Roger D. Weiss, M.D.

Nicholas Underwood, a 41-year-old software engineer, entered an alcohol treatment program with this chief complaint: "I need to stop drinking or my wife will divorce me."

At the time of admission, Mr. Underwood stated that he was drinking approximately 1 liter of vodka per day, every day, and had not had an alcohol-free day in over 2 years. For many years, Mr. Underwood had drunk alcohol only after work, but about a year prior to the evaluation he had begun to routinely drink in the morning whenever he had the day off. More recently, he had begun to feel "shaky" every morning and would sometimes treat that sensation with a drink, followed by more alcohol during the day.

Mr. Underwood experienced a number of problems related to drinking. His wife was "at the end of her rope" and considering divorce. His diminished ability to concentrate at work was "sinking" his once-promising career. He was spending more time trying to recover from the effects of drinking and found himself both planning strategies both for abstinence and for surreptitiously taking his next drink.

Mr. Underwood first tried alcohol in high school and said that he had always been able to hold his liquor more than his friends could. In college, he was one of the heaviest drinkers in a fraternity known as "Animal House" around campus. Through his 30s, he gradually increased the frequency of his drinking from primarily on weekends to daily. Over the prior year, he had switched from being exclusively a beer drinker to drinking vodka. He had gone to many Alcoholics Anonymous meetings over the years but tended to drink as soon as the meeting ended. He had received no formal treatment.

The patient denied recent use of other substances; he had smoked marijuana and snorted cocaine several times during college but never since. He had used no other illicit drugs and took no medications. He did not smoke cigarettes. He had experienced blackouts on several occasions during college but not since then. He had no history of seizures and no other medical problems. Family history was significant for alcohol dependence in his father and paternal grandfather.

Mr. Underwood entered the alcohol treatment program at approximately 3:00 P.M., having not had a drink since the evening before. He was diaphoretic and exhibited significant tremulousness in his hands. He complained of anxiety, restlessness, irritability, nausea, and recent insomnia.

Clinical evaluation revealed a casually groomed, diaphoretic man who was cooperative but anxiously pacing and who immediately said, "I'm getting ready to jump out of my skin." Speech was of normal rate, rhythm, and tone. He denied depression. There was no evidence of psychotic thinking, and he denied auditory, visual, or tactile hallucinations. He was alert and oriented to person, place, and date. He had no gross memory deficits, but his attention and concentration were noted to be reduced.

Notable features of his physical examination were marked diaphoresis, a blood pressure of 155/95, a heart rate of 104 beats/minute, severe tremulousness in his upper extremities, and hyperactive deep tendon reflexes throughout. Laboratory tests were within normal limits except for aspartate aminotransferase and alanine aminotransferase, which were approximately 3 times normal.

Diagnoses

- Alcohol withdrawal
- Alcohol use disorder, severe

Discussion

Mr. Underwood clearly meets the criteria for alcohol withdrawal. In addition to recent cessation of heavy and prolonged alcohol use, Mr. Underwood demonstrates the following symptoms: autonomic hyperactivity, hand tremor, insomnia, nausea, agitation, and anxiety. In other words, he has six of the eight criteria for alcohol withdrawal, far exceeding the lower required limit of two.

One way to remember the key symptoms of alcohol withdrawal is to think of the so-called four Ss: sleep problems, sweats, stomach problems, and shakes. Importantly, a major goal of treatment of alcohol withdrawal is the avoidance of the fifth S—namely, grand mal seizures.

Alcohol withdrawal occurs in the context of physical dependence. Although it can occur upon reduction of drinking in individuals with severe dependence, significant withdrawal typically occurs upon sudden, complete cessation of drinking. Symptoms of withdrawal ordinarily can begin 4–12 hours after the last drink, with a peak in intensity 24–48 hours after the last drink.

A major goal in the pharmacological treatment of withdrawal is the avoidance of the two most serious complications of alcohol withdrawal: 1) grand mal seizures and 2) alcohol withdrawal delirium (also known as delirium tremens). Seizures occur in approximately 3% of patients experiencing withdrawal; they typically occur 7–48 hours after the last drink, with the majority of seizures occurring between 17 and 24 hours afterward. In some circumstances, a seizure is followed by alcohol withdrawal delirium, the hallmark of which is disorientation and fluctuation in consciousness, generally with severe autonomic hyperactivity. Patients at greatest risk for delirium are those with serious medical illness and a long-standing history of very heavy drinking. Because alcohol withdrawal delirium is sometimes fatal, it needs to be treated aggressively in a closely monitored medical setting. It is important to note that although seizures are sometimes followed by delirium, the reverse is rarely true. Therefore, if a patient experiences delirium and subsequently has a grand mal seizure, the clinician should look for another cause of the seizure (e.g., a subdural hematoma).

Mr. Underwood also meets symptomatic criteria for alcohol use disorder. He has been drinking large amounts of alcohol despite recurrent efforts to quit. His cravings for alcohol are strong, and he has continued to use despite occupational and marital problems that appear to be exacerbated directly by his alcohol use and by the time necessary to recover from his nightly intoxication. He has also demonstrated both tolerance and withdrawal. Mr. Underwood meets at least eight of the 11 criteria for alcohol use disorder, thereby qualifying for the "severe" specifier.

Suggested Readings

Amato L, Minozzi S, Vecchi S, Davoli M: Benzodiazepines for alcohol withdrawal. Cochrane Database Syst Rev 2010 Mar 17(3):CD005063

Amato L, Minozzi S, Davoli M: Efficacy and safety of pharmacological interventions for the treatment of the Alcohol Withdrawal Syndrome. Cochrane Database Syst Rev 2011 Jun 15(6):CD008537

Case 16.3Addiction

Petros Levounis, M.D., M.A.

Oliver Vincent never saw himself as an addict. He had always been "on top of things." At age 35, he was independently wealthy as the owner of several clothing franchises, lived with an ex-partner in a more-than-comfortable apartment in New York City, worked out every day, enjoyed the company of a group of loving friends, and, although single, had not given up on the idea of someday (preferably soon) finding the perfect man to share his life with. Mr. Vincent came out to his Irish Catholic family when he was 19. His parents had already guessed that Mr. Vincent was gay long before he told them, and they took the non-news fairly well. Their main concern had been that their son might be discriminated against because of his sexuality, get hurt, and live a lonely life. Nothing could be farther from the way things turned out: Mr. Vincent was "out and proud" and living it up.

When Mr. Vincent found himself with a substance use problem, he addressed it the same way he had dealt with pretty much everything else: head on. For the first time in his life, he decided to see a psychiatrist.

Mr. Vincent described a pattern that revolved around weekend "party and play" activities.¹ On Friday and Saturday evenings—and occasionally during the week—he would go out to dinner with friends and then to a club or a private party. He tended to drink two or three cocktails and four to five glasses of wine during the evening. Without the alcohol, he found he could easily say "no" to substances, but "after a good buzz, if someone has coke—and there is always someone around who has coke—I use. And then my heart starts to race, and then I do everything I can to hook up. I used to go online, but these days, it's all on Grindr."²

1

Party and *play* are code words for drugs and sex, respectively. The term is sometimes abbreviated PNP.

Grindr is a smartphone application that uses GPS to identify and connect similarly inclined individuals in a person's geographical vicinity.

Overall, Mr. Vincent drank alcohol and used cocaine three to four times a week and "occasionally used tina and bath salts." He could hardly attend Monday morning meetings, much less prepare for them, and had been trying to cut down on his cocaine use for the prior 6 months without success.

3

Tina is slang for crystal methamphetamine. *Bath salts* is slang for a powder that contains a variety of synthetic stimulants.

Since Mr. Vincent had started using cocaine regularly, he had lost weight and had trouble sleeping. He worried that his effort at the gym was going to waste. His business continued to succeed, but his own effectiveness had decreased. Most importantly, he did not practice safer sex when high on stimulants, and he worried about HIV seroconversion.

Diagnosis

Cocaine use disorder, moderate

Discussion

Mr. Vincent has a cocaine use disorder. If the use of crystal methamphetamine or bath salts is deemed to be significant, a more accurate diagnosis would be stimulant use disorder. According to DSM-5, a stimulant or cocaine use disorder involves a pattern of significant impairment and distress accompanied by at least two of 11 criteria. Mr. Vincent has demonstrated a persistent desire to cut down without success, has had recurrent unprotected sex while high, recognizes the attendant risks, and appears to go through withdrawal every Monday. Mr. Vincent's illness meets at least four DSM-5 criteria and would be described as moderate in severity.

Mr. Vincent's situation supports the rationale for the shift in DSM-5 from two separate diagnoses (substance abuse and dependence) to a unified substance use disorder. In the DSM-IV system, abuse was meant to signify a less severe disorder than dependence, but a case like Mr. Vincent's could be diagnostically challenging. If it were not for using cocaine in physically hazardous situations (unprotected sex with risk of HIV transmission), Mr. Vincent's

disorder would fully meet criteria for DSM-IV cocaine dependence but not for abuse—a confusing formulation. DSM-5 unifies these two diagnoses and then describes three levels of severity: mild, moderate, and severe.

Mr. Vincent may qualify for several other DSM-5 diagnoses. If evaluated on a Saturday night, he would likely qualify for the diagnosis of cocaine intoxication, as evidenced by tachycardia and poor judgment. If evaluated on Monday morning, he would likely meet criteria for cocaine withdrawal, characterized by dysphoria and fatigue. Mr. Vincent's alcohol use is also problematic. It appears to lead directly to the cocaine use and—depending on additional history that should be elicited—may or may not rise to the level of an alcohol use disorder.

Further investigation might reveal additional symptomatology, but Mr. Vincent does not appear to be suffering from major depressive, anxiety, personality, or trauma-related disorders. His substance use seems to have been fueled primarily by social determinants, specifically a "party and play" subculture of the gay male community, which has accepted, legitimized, and eventually normalized the use of stimulants.

Many substance-using patients have other co-occurring psychiatric disorders, and it is often tempting to assume that substance use must have been caused by (and/or resulted in) some type of major mood disturbance or other psychiatric problem. Nevertheless, a significant number of addicted patients have no comorbidities. Many people—possibly including Mr. Vincent's parents—assume that lesbian, gay, bisexual, and transgender people live miserable and lonely lives, and that a variety of psychiatric diagnoses are almost inevitable. A different stereotype might suggest that stimulant use and unsafe sex is a normative part of a gay subculture and should simply be accepted as a reasonable part of the "party and play" world. Both of these stereotypes can deskill the clinician, reduce his or her effectiveness, and lead to overestimating or underestimating psychopathology.

Furthermore, although dangerous and distressing behavior might sometimes seem like an inherent part of a subculture (e.g., that of young urban gay men), it is useful to recall that most people within that broad category do not routinely use substances or engage in recurrent, risky sexual behavior. By coming for a psychiatric consultation, Mr. Vincent himself has indicated that these aspects of his otherwise terrific life are out of control and in need of professional help.

Suggested Readings

Levounis P, Arnaout B (eds): Handbook of Motivation and Change: A Practical Guide for Clinicians. Washington, DC, American Psychiatric Publishing, 2010

Levounis P, Herron AJ (eds): The Addiction Casebook. Washington, DC, American Psychiatric Publishing, 2014

Levounis P, Ruggiero JS: Outpatient management of crystal methamphetamine dependence among gay and bisexual men: how can it be done? Primary Psychiatry 13(2):75–80, 2006

Levounis P, Drescher J, Barber M (eds): The LGBT Casebook. Washington, DC, American Psychiatric Publishing, 2012

Case 16.4Knee Pain

Jonathan Avery, M.D., Stephen Ross, M.D.

Peter Winters, a 46-year-old white minister, was referred to the psychiatry outpatient department by his primary care doctor for depressive symptoms and opioid misuse in the setting of chronic right knee pain.

Mr. Winters injured his right knee playing basketball 17 months earlier. His mother gave him several tablets of hydrocodone-acetaminophen that she had for back pain, and he found this helpful. When he ran out of the pills and his pain persisted, he went to the emergency room. He was told he had a mild sprain. He was given a 1-month supply of hydrocodone-acetaminophen. He took the pills as prescribed for 1 month, and his pain resolved.

After stopping the pills, however, Mr. Winters began to experience a recurrence of the pain in his knee. He saw an orthopedist, who ordered imaging studies and determined there was no structural damage. He was given another 1-month supply of hydrocodone-acetaminophen. This time, however, he needed to take more than prescribed in

order to ease the pain. He also felt dysphoric and "achy" when he abstained from taking the medication, and described a "craving" for more opioids. He returned to the orthopedist, who referred him to a pain specialist.

Mr. Winters was too embarrassed to go to the pain specialist, believing that his faith and strength should help him overcome the pain. He found it impossible to live without the pain medication, however, because of the pain, dysphoria, and muscle aches when he stopped the medication. He also began to "enjoy the high" and experienced intense craving. He began to frequent emergency rooms to receive more opioids, often lying about the timing and nature of his right knee pain, and even stole pills from his mother on two occasions. He became preoccupied with trying to find more opioids, and his work and home life suffered. He endorsed low mood, especially when contemplating the impact of opioids on his life, but denied any other mood or neurovegetative symptoms. Eventually, he told his primary care doctor about his opioid use and low mood, and that doctor referred him to the outpatient psychiatry clinic.

Mr. Winters had a history of two lifetime major depressive episodes that were treated successfully with escitalopram by his primary care doctor. He also had a history of an alcohol use disorder when he was in his 20s. He managed to quit using alcohol on his own after a family intervention. He smoked two packs of cigarettes daily. His father suffered from depression, and "almost everyone" on his mother's side of the family had "issues with addiction." He had been married to his wife for 20 years, and they had two school-age children. He had been a minister in his church for 15 years. Results of a recent physical examination and laboratory testing performed by his primary care physician had been within normal limits.

On mental status examination, Mr. Winters was cooperative and did not exhibit any psychomotor abnormalities. He answered most questions briefly, often simply saying "yes" or "no." Speech was of a normal rate and tone, without tangentiality or circumstantiality. He reported that his mood was "lousy," and his affect was dysphoric and constricted. He denied symptoms of paranoia or hallucinations. He denied any thoughts of harming himself or others. Memory, both recent and remote, was grossly intact.

Diagnoses

- Opioid use disorder
- Tobacco use disorder
- Alcohol use disorder, in remission
- Major depressive disorder

Discussion

Among substance use disorders, nonmedical abuse of prescription opioids is secondary only to cannabis misuse in prevalence. Clinicians often do not screen individuals like Mr. Winters for risk factors for addiction before prescribing opioids. Not only is the patient a member of the clergy, but he has a legitimate reason for taking pain medication. Mr. Winters had several risk factors for prescription opioid addiction, however, including a personal and family history of addiction, current heavy tobacco use, and a history of depression. His initial behaviors may have been classified as a "pseudoaddiction"—behaviors that look addictive but do not reflect true addiction. His use, however, did lead to out-of-control compulsive use of opioids that has had a negative impact on his life. According to DSM-5, Mr. Winters would be diagnosed with having an opioid use disorder.

Opioid use disorder has replaced the previous DSM-IV categories of opioid abuse and opioid dependence. One reason this change was made was to improve diagnostic accuracy by providing a way to characterize individuals who fell outside the diagnoses of opioid abuse and dependence yet still had a significant opioid use problem. Opioid use disorder can be diagnosed when there is a maladaptive pattern of opioid use that leads to clinically significant impairment or distress over a 12-month period, as manifested by at least two of 11 criteria. Mr. Winters exhibits at least six criteria of an opioid use disorder: recurrent opioid use resulting in a failure to fulfill major role obligations; tolerance; withdrawal; craving; use of the opioid in larger amounts over a longer period than was intended; and a great deal of time spent in activities necessary to obtain, use, or recover from the opioid's effects. Craving, or a strong desire to use substances, is very prevalent in Mr. Winters's case. Craving was added to the diagnostic criteria in DSM-5 because it is often a hallmark symptom of addiction.

Mr. Winters's mood symptoms need to be explored further, but they likely represent an exacerbation of his underlying major depressive disorder. An opioid-induced depressive disorder and dysthymic disorder should also be part of the differential diagnosis. Other psychiatric diagnoses that should be considered in an individual with an

opioid use disorder include antisocial personality disorder and posttraumatic stress disorder. Mr. Winters was apparently found to be medically healthy by his primary care doctor, but HIV, hepatitis C, and bacterial infections are also common among users of opioids by injection, although less prevalent in individuals who use only prescription opioids.

Although more history of his knee pain is needed, a diagnosis of a somatic symptom disorder should be considered for Mr. Winters as well. In DSM-IV, Mr. Winters might have been diagnosed with a pain disorder associated with psychological factors and a general medical condition (knee sprain). DSM-5 takes a different approach to individuals with pain, however, and rejects the previously held notion that some pains are only associated with psychological factors, somatic factors, or both. Instead, DSM-5 endorses a view that psychological, somatic, and environmental factors all contribute to pain. It is clear that Mr. Winters's pain is multidetermined. He would possibly be diagnosed with a somatic symptom disorder, with predominant pain, according to DSM-5. This disorder is characterized by one or more somatic symptoms that are distressing and/or result in significant disruption of daily activities, as well as excessive thoughts, feelings, and behaviors related to these somatic symptoms or associated health concerns.

Suggested Readings

Boscarino JA, Rukstalis MR, Hoffman SN, et al: Prevalence of prescription opioid-use disorder among chronic pain patients: comparison of the DSM-5 vs. DSM-4 diagnostic criteria. J Addict Dis 30(3):185–194, 2011

Cheney B, Galanter M, Dermatis H, Ross S: Medical versus spiritual orientations: differential patient views toward recovery. Am J Drug Alcohol Abuse 35(5):301–304, 2009

Compton WM, Thomas YF, Stinson FS, Grant BF: Prevalence, correlates, disability, and comorbidity of DSM-IV drug abuse and dependence in the United States: results from the National Epidemiologic Survey on Alcohol and Related Conditions. Arch Gen Psychiatry 64(5):566–576, 2007

Wu LT, Woody GE, Yang C, et al: Differences in onset and abuse/dependence episodes between prescription opioids and heroin: results from the National Epidemiologic Survey on Alcohol and Related Conditions. Subst Abuse Rehabil 2011(2):77–88, 2011

Case 16.5A Downward Spiral

Charles H. Silberstein, M.D.

Raymond Xavier, a divorced 29-year-old semi-employed landscaper, presented to a private psychiatrist with a complaint that his life was in a downward spiral. At the time of the appointment, he had been without a permanent home for over 6 months. He had lived in various places, including his car and friends' homes. For over 1 month prior to presentation, he had been living in a tent in the woods. He had called his parents on his recent birthday, and they had offered to pay for substance abuse treatment as long as they could pay directly.

Mr. Xavier reported that his problem started at age 24, when he had a new wife and young child and had taken on two jobs to make ends meet (working in a factory and as a local delivery driver). When he injured his back and could not get to work because of the pain, a friend offered him a few tablets of acetaminophen-oxycodone (Percocet). Not only did his pain disappear, but his energy and mood improved. For the first time in his life, he felt "normal and happy."

Mr. Xavier continued to use one to four Percocet tablets per day for 1½ years. He never took more than one pill at a time. Then, at age 26, he snorted half a bag of heroin (about \$5 on the street). "It took about 10 minutes, but I was transported into an indescribable euphoria. Like taking that first Percocet times 10.... You chase that first feeling for the rest of your life. It never repeats." Within months of starting heroin, he began using it intravenously in an effort to glimpse the euphoria again.

After that first experience with heroin, the progression of use was rapid. Within 6 months, Mr. Xavier was unemployed, separated from his family, and homeless. "I was sleeping in my car or on the streets... using up to 30 bags [\$300] daily."

Mr. Xavier began to reach out for help. He enrolled in outpatient rehabilitation for opioid users. The cravings to use, even while in treatment, were intense. Mr. Xavier reported multiple relapses. He added cocaine to the heroin injections, and "speedballs" became Mr. Xavier's drug of choice for a while, but he then returned to using only heroin. The first of multiple accidental overdoses occurred in a vacant house when he was 27. He had been admitted to "about 10 detoxes and rehabs" but would typically relapse within hours or weeks of discharge. He had also gone sporadically to Narcotics Anonymous meetings for years.

To acquire money for his habit, he broke into homes, stole from relatives, and wrote bad checks. "Every penny went to drugs. I'm lucky not to be in prison, but not so lucky in that everybody hates me."

He decided to move to Martha's Vineyard a year prior to the consultation because it "sounded like a quiet place." He brought some methadone with him, but the eventual withdrawal was "fierce."

He continued to use heroin and oxycodone when he could easily get them. Otherwise, he drank alcohol heavily, although he said, "I need to stop drinking—that's what really gets me in trouble." He also took diazepam (Valium) sporadically; however, he did not consider that to be a problem but more of a way to get through the day.

He worked occasionally as a landscaper. His boss—someone he had met at a Narcotics Anonymous meeting—had made it clear that he would call when there was extra work to be done, but that until Mr. Xavier got clean, the boss would not actually expect him to show up. He had held a variety of other odd jobs, including office supplies salesman, veterinary assistant, and gas station attendant. He had not seen his daughter in over 2 years.

On examination, Mr. Xavier appeared somewhat unkempt. He was generally cooperative but appeared restless, and at one point he urgently left the room; when he returned, he reported that he was experiencing bouts of diarrhea. His pupils were enlarged and his skin was remarkable for sweating and piloerection. He yawned several times and appeared irritable and unhappy. His arms and legs frequently twitched. He repeatedly blew his nose and appeared tearful. His speech was rapid, and he appeared impatient. He denied psychotic symptoms, suicidality, and homicidality. He said he was hopeful that if he could get some Suboxone (buprenorphine and naloxone), he might be able to keep a job and maybe get to be a real father.

Laboratory studies were negative for HIV and hepatitis A, B, and C.

Diagnoses

- Opioid withdrawal
- Opioid use disorder
- Alcohol use disorder

Discussion

In response to not taking heroin or methadone, Mr. Xavier experiences a cluster of symptoms that are typical of acute opioid withdrawal. These include diarrhea, lacrimation and rhinorrhea, pupillary dilation, sweating, yawning, restlessness, and occasional spasms of his legs (from which the phrase "kicking the habit" is derived). He has a dysphoric, anxious mood.

Symptoms that are attributable to acute opioid withdrawal overlap with a variety of other DSM-5 disorders. For example, Mr. Xavier's anxiety and depression are significant but likely to be directly related to the withdrawal experience; in such a situation, neither warrants a separate diagnosis. If the symptoms extend beyond the immediate withdrawal period (the duration of which varies with the half-life of the particular opioid), then the likely diagnosis would be a substance-induced depressive (or anxiety) disorder. If the symptoms persist 1 month after discontinuation of the substance, then an autonomous disorder could be diagnosed (even if triggered by the substance use).

The patient also reports significant alcohol abuse as well as sporadic use of diazepam. Both can have intense withdrawal symptoms and could be contributing to the current clinical picture. Neither, however, induces the fairly specific opioid withdrawal symptoms of lacrimation, yawns, and diarrhea. Mr. Xavier does not quantify his alcohol use, but he does say, "I need to stop drinking—that's what really gets me in trouble." Even without much of a clarification of his use, he describes drinking more than he intends and having drinking-related problems; this qualifies him for an alcohol use disorder.

Mr. Xavier has stolen from strangers and family, has abandoned his wife and child, and is apparently an unreliable employee. This might lead to a consideration of antisocial personality disorder. Heroin is illegal and expensive,

however, and it is almost impossible for the average user to acquire enough heroin through a legitimate job. For this reason, DSM-5 specifically suggests not diagnosing antisocial personality disorder when the behavior directly stems from efforts to acquire drugs. If, however, the antisocial behavior was evident in childhood or before the onset of the substance abuse, both diagnoses can be made. Without a history of antisocial behavior unrelated to the acquisition of heroin, Mr. Xavier would likely not meet criteria for antisocial personality disorder. He might, however, warrant a diagnosis of adult antisocial behavior, which is listed in the chapter "Other Conditions That May Be a Focus of Clinical Attention." Like other diagnoses that are listed in that chapter but not in the main text of DSM-5, adult antisocial behavior is linked to a V code from ICD-9 and a Z code from ICD-10.

More clear-cut, of course, is Mr. Xavier's severe opioid use disorder, a diagnosis that refers to the compulsive, prolonged self-administered use of opioids without medical supervision. Mr. Xavier's opioid use meets all 11 DSM-5 criteria: taking larger amounts than intended; inability to cut down; excessive time spent obtaining, using, and recovering from the opioid's effects; craving; an inability to fulfill role obligations; persistent social and interpersonal problems; reduced activities; putting oneself at physical risk; continued use despite knowledge of its consequences; tolerance; and withdrawal.

In many ways Mr. Xavier's is a classic presentation. Onset is typically in the late teens and early 20s. The experience of feeling "normal and happy" with first use is common, as is "chasing the high," the relentless pursuit of that initial sense of well-being and euphoria. Some opioid users maintain jobs and families, but many fall into a desperately negative spiral. Mr. Xavier is atypical in one way, however, because he has not been infected with one of the viruses commonly found in intravenous substance users: HIV and hepatitis A, B, and C.

Suggested Reading

Borg L, Kravets I, Kreek MJ: The pharmacology of long-acting as contrasted with short-acting opioids, in Principles of Addiction Medicine, 4th Edition. Edited by Ries RK, Miller SC, Fiellin DA, Saitz R. Philadelphia, PA, Lippincott Williams & Wilkins, 2009, pp 117–131

Case 16.6Stress and Substance Abuse

Li Jin, D.O., Daryl Shorter, M.D., Coreen Domingo, Dr.P.H., Thomas R. Kosten, M.D.

Shaun Yates, a 34-year-old African American college student, presented for evaluation of chronic mood instability. His symptoms had persisted and worsened in the decade since he returned from a 12-month military tour in Iraq. Mr. Yates denied having had significant psychiatric symptoms prior to his enlistment. During his deployment, he worked in transportation, and although he was not directly involved in combat, he "lost many comrades." This was his first psychiatric evaluation. He did not "like to talk about this stuff," but his wife insisted.

Upon presentation, Mr. Yates reported that his mood was "down." He felt that he was "sleepwalking" most of the time and not enjoying his wife or two young children. He reported restlessness, as well as uncalled-for vigilance whenever he went to public places. He avoided driving, especially over bridges, and preferred to "stick around the neighborhood." His sleep was regularly interrupted by vivid, disturbing dreams about "bombs and land mines." After several years of underemployment that was partly attributable to these symptoms, his wife had convinced him to go back to college to have more job flexibility in the future.

Mr. Yates reported concentration difficulties since his return from the service. Cocaine initially helped, but his ability to study declined with escalating cocaine use. He reported some guilt related to sexual behavior while using, but he denied feelings of worthlessness or hopelessness. He had a remote history of passive suicidality ("fleeting thoughts"), but he denied active suicidal ideation and suicide attempts. His appetite was good, and he denied any history of panic attacks, mania, psychosis, or obsessive-compulsive symptoms. He denied a history of psychiatric hospitalization or outpatient treatment. There was no family psychiatric history aside from a father with alcohol abuse.

Mr. Yates first consumed alcohol on weekends when he was age 14. He had an early high tolerance, requiring 1 pint of alcohol to "get drunk." Mr. Yates reported that his drinking escalated somewhat in the military—"maybe a little out of control"—and that he experienced regular blackouts. After discharge, he would typically drink 1 pint every 2–3 days, but sometimes more. During periods of heavy use, he had occasional morning tremors that were resolved by drinking. He denied other withdrawal symptoms, but the morning drinking reminded him of his father,

who ultimately died of cirrhosis at age 56, so he began to limit his drinking to weekends. Since the onset of frequent cocaine use, he had begun to use alcohol to "come down" from the cocaine high. He denied a history of legal complications or arrests.

Beginning in high school, Mr. Yates smoked cannabis socially, never smoking more often than twice per month. During the year prior to the evaluation, he found that marijuana helped with insomnia, and he began to crave it every evening. His wife objected, arguing that he would eventually get caught by either the police or their children. He continued to use the marijuana, despite the nightly arguments, because cannabis led to the greatest likelihood that he would sleep without nightmares.

Mr. Yates identified cocaine as his overall drug of choice. He had first used cocaine a few years after he left the service. He used primarily by "snorting," although he did experiment with smoking crack cocaine. He denied ever using intravenous drugs. Over the prior year, his cocaine costs had increased to \$200 per week, and he found himself pawning items and missing class and work, especially when he was especially depressed after using. Although his wife did not know about the cocaine or its role in his overall performance, he was making little progress toward his college degree and had lost at least three jobs because of cocaine-related absenteeism. In the past year, Mr. Yates had begun using phencyclidine (PCP) to lower the cost. He would dip joints (marijuana cigarettes) in PCP before smoking.

Mr. Yates consumed other substances when he found them easily available, generally at parties. These included ecstasy (estimated 10 lifetime uses), benzodiazepines (estimated 20 lifetime uses), and prescription opiates (estimated 5 lifetime uses). He had also smoked 3–5 cigarettes per day since age 16. His efforts to quit smoking failed because of persistent craving and withdrawal symptoms.

Diagnoses

- Posttraumatic stress disorder
- Cocaine use disorder, severe
- Alcohol use disorder, mild
- Cannabis use disorder, mild
- Tobacco use disorder, mild

Discussion

Mr. Yates presents for evaluation of "chronic mood instability" that could be related to traumatic experiences in the military, chronic substance abuse, or an essentially unrelated psychiatric condition. He might view his substance use as "self-medication," but one or more of these substances might be inducing or exacerbating a psychiatric disorder. Clarification of these diagnoses is crucial.

Mr. Yates came to the psychiatrist because of his unstable mood and declining functioning. Given the apparent development of these symptoms since his military service, it is reasonable to explore the possibility of posttraumatic stress disorder (PTSD), a diagnosis that can bring together a variety of seemingly disparate symptoms. Although Mr. Yates did not engage in combat, he reports that he "lost many comrades." Furthermore, his work in transportation during the early years of the war in Iraq would have been especially dangerous given the possibility of land mines and suicide bombers. In addition to some sort of trauma, PTSD requires symptoms from four different clusters: intrusion (e.g., nightmares of bombs), avoidance (e.g., of bridges and driving), negative alterations in cognitions and mood (depression, detachment), and arousal (excess vigilance). In Mr. Yates, these symptoms have persisted for more than 1 month and affect his life. The one criterion whose status is not immediately clear is whether the disturbance is attributable to the physiological effects of a substance.

Mr. Yates began his long, varied substance abuse at age 14, with alcohol. His use progressed to involve cannabis, benzodiazepines, ecstasy, prescription opioids, cocaine, PCP, and tobacco. As a group, the substances have contributed to his deteriorating grades, physically hazardous behaviors (i.e., blackouts, risky sexual practices), marital discord (arguments about the marijuana), and, presumably, worsening of his underlying PTSD symptoms.

Under DSM-IV, it would have been fairly straightforward to provide Mr. Yates with a diagnosis of polysubstance dependence. Such a broad diagnosis, however, can short-circuit an inquiry into which substances are actually a problem, and may not be especially helpful in regard to treatment. For these reasons, DSM-5 eliminated the

term *polysubstance*. Instead, Mr. Yates's use of each of the substances should be independently assessed to determine whether a clinically relevant threshold has been reached.

Cocaine is Mr. Yates's substance of choice. It has also caused the most impairment. His cocaine use led to three lost jobs, poor school performance, the pawning of personal items, and recurrent postuse dysphoria. Although he recognizes the negative consequences and has tried to cut back, his use has escalated. Meeting at least seven of 11 criteria, Mr. Yates has a severe DSM-5 cocaine use disorder.

At its worst, Mr. Yates's alcohol use included blackouts, withdrawal tremor, and getting "a little out of control." The case report does not indicate whether his alcohol use caused other problems, but he still meets criteria for at least a mild alcohol use disorder because of his drinking while in the military. If looked at cross-sectionally at the time of the evaluation, his diminished use does not appear to meet the requirement of two of 11 symptomatic criteria. Nevertheless, DSM-5 emphasizes that once criteria for a substance use disorder have been met, "remission" is not reached until the individual meets none of the criteria (aside from craving). Mr. Yates would, therefore, still meet criteria for an alcohol use disorder.

The evaluation of Mr. Yates's cannabis use is more complicated. This substance seems to help him sleep, and he does not report direct adverse effects. He does, however, crave the substance, and its use is causing marital problems; therefore, he meets DSM-5 criteria for mild cannabis use disorder. In regard to tobacco, he only smokes 3–5 cigarettes per day, but he craves the substance, and when he has recurrently tried to stop, he has failed because of withdrawal. These symptoms qualify him for a mild tobacco use disorder. Although he has used ecstasy, benzodiazepines, and prescription opiates, his use of these substances does not appear to meet criteria for a DSM-5 disorder.

Patients often abuse more than one substance, and drug effects can interact in complex ways with other psychiatric diagnoses such as PTSD. A longitudinal understanding of all of Mr. Yates's psychiatric diagnoses, including his use of multiple substances, is critical to both understanding the patient and developing a workable treatment plan.

Suggested Readings

Arnaout B, Petrakis IL: Diagnosing co-morbid drug use in patients with alcohol use disorders. Alcohol Res Health 31(2):148–154, 2008

Saunders JB, Schuckit MA, Sirovatka PJ, Regier DA: Diagnostic Issues in Substance Use Disorders: Refining the Research Agenda for DSM-V. Arlington, VA, American Psychiatric Association, 2007

Case 16.7Gambling

Silvia Bernardi, M.D., Carlos Blanco, M.D., Ph.D.

Tomás Zambrano was a 36-year-old married first-generation Hispanic man who presented to the gambling clinic at a major medical center for evaluation and treatment.

A football coach at a suburban high school, Mr. Zambrano had a 5-year-old son. He denied having any prior psychiatric or substance abuse history. He was appropriately dressed and groomed, expressed himself fluently in both English and Spanish, spoke in normal tone and volume, and on examination presented with intact cognitive function and average intelligence.

Mr. Zambrano had been betting on sports and playing cards since childhood, noting in the evaluation that gambling "is part of our culture." His own father's favorite hobby and stress reliever had been to play poker with friends at night, and Mr. Zambrano remembered with affection the father-son moments they shared. Poker became for him a familial activity that he increasingly used to relieve work-related stress. He relished the excitement as well as the intellectual challenge and competition.

Card games did not, however, remain a benign pastime for Mr. Zambrano. He had begun to lose more money than he could afford. Over the prior 2 years, he had gradually increased the frequency and stakes of his poker nights. When he lost, he placed even larger bets, convinced that the odds would favor him the next time. When he won, he felt great and would continue to play, convinced he was "on a streak." Although losses made him feel unworthy,
stupid, and irritable, he believed success would come if he could fine-tune his strategy. He felt a powerful, almost constant impulse to increase the tempo of his gambling and recover the money he had lost. When he tried to cut back on gambling, he felt irritable and preoccupied, and quickly returned to his poker nights.

By the time Mr. Zambrano presented to the gambling clinic, he felt desperate. Nightly poker had led to daytime fatigue and poor performance at his coaching job, which he had previously loved. He was consumed with thoughts about his next poker game. His wife and son had long resented his time away from the family, but his wife had just found out that he had used up his son's college fund plus accumulated \$30,000 in credit card debt. When his wife threatened to file for divorce, he felt sad and depressed and decided to seek treatment.

Diagnosis

Gambling disorder

Discussion

Mr. Zambrano is preoccupied with gambling, has a recurrent pattern of chasing his losses, and has been gambling with escalating amounts of money. He lies to his wife about his losses and has jeopardized his marital relationship and his job. Mr. Zambrano demonstrates at least five of nine criteria for DSM-5 gambling disorder (four of the nine are required for the diagnosis).

If excess gambling is a symptom of a manic episode, the gambling disorder diagnosis is not made. When manic episode is the principal diagnosis, the patient tends to gamble mostly in the context of excitement and grandiosity and will display other symptoms of bipolar disorder, such as increased energy and diminished need for sleep. When gambling is used as a maladaptive coping response, the individual tends to engage in gambling activities mostly during negative mood states, such as anxiety and depression. The clinician should also keep in mind that gambling losses can trigger mood episodes, generally adjustment disorders, although comorbid major depressive disorder and mania or hypomania may also occur. Assessment of the temporal relationship among symptoms and the intensity of those symptoms helps to establish the principal diagnosis. In this case, Mr. Zambrano specifically denied all manic symptoms.

Mr. Zambrano is somewhat unusual in his denial of all psychiatric comorbidity. A large percentage of people with gambling disorder have a substance use disorder, personality disorder, mood disorder, and/or anxiety disorder. Because accurate assessment of comorbidity is essential for treatment decisions, it would be useful for the clinician to explore the possibility that Mr. Zambrano is minimizing other symptomatology.

Mr. Zambrano is more typical in having a father who was also a gambler. Many people with gambling disorders also report first-degree relatives who gamble, although it is not clear the degree to which the behavior is learned versus genetically inherited.

Suggested Readings

Black DW, Monahan PO, Temkit M, Shaw M: A family study of pathological gambling. Psychiatry Res 141(3):295–303, 2006

Blanco C, Myers J, Kendler KS: Gambling, disordered gambling and their association with major depression and substance use: a Web-based cohort and twin-sibling study. Psychol Med 42(3):497–508, 2012

Kessler RC, Hwang I, LaBrie R, et al: DSM-IV pathological gambling in the National Comorbidity Survey Replication. Psychol Med 38(9):1351–1360, 2008

Petry NM, Stinson FS, Grant BF: Comorbidity of DSM-IV pathological gambling and other psychiatric disorders: results from the National Epidemiologic Survey on Alcohol and Related Conditions. J Clin Psychiatry 66(5):564–574, 2005

Petry NM, Blanco C, Stinchfield R, Volberg R: An empirical evaluation of proposed changes for gambling diagnosis in the DSM-5. Addiction 108(3):575–581, 2013

Slutske WS, Zhu G, Meier MH, Martin NG: Genetic and environmental influences on disordered gambling in men and women. Arch Gen Psychiatry 67(6):624–630, 2010

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Introduction

John W. Barnhill, M.D.

All of the neurocognitive disorders feature prominent, acquired cognitive deficits. These cognitive disorders can be divided into two broad groups—acute delirium and the more chronic neurocognitive disorders (NCDs)—each of which can be further characterized.

Delirium is characterized as a fluctuating disturbance of attention, awareness, and cognition that develops acutely and in the context of one or more identified physiological precipitants. Delirium can be further characterized in regard to such factors as duration, activity level, and etiology. Most often encountered among medically hospitalized and/or substance-abusing patients, delirium requires a careful search for etiology—which is often multifactorial. If the delirium is caused by substance withdrawal or intoxication, the pertinent diagnosis is delirium, comorbid with possible substance use disorders. For example, a patient might be coded as having alcohol withdrawal delirium, acute, hyperactive, along with an alcohol use disorder.

In addition to acute delirium, this chapter of DSM-5 also describes chronic neurocognitive disorders. Two aspects of the nomenclature may be confusing. First, most of the chronic neurocognitive disorders have been generally described as dementias. Although still in use, the term *dementia* is sometimes seen as having a pejorative connotation. In addition, this term may better fit the disorders that are progressive and most commonly affect older adults (e.g., Alzheimer's disease) rather than the abrupt and static cognitive decline related to a disorder such as traumatic brain injury (TBI).

A second issue is that the term *neurocognitive* implies an emphasis on cognitive deficits. All of the NCDs involve multiple deficits, however, and DSM-5 suggests that the assessment of NCD include an assessment of such executive functions as complex attention, learning and memory, language, visuoconstructional perceptual ability, and social cognition. Furthermore, all of the NCDs can have prominent personality and behavioral components that may be the most visible and dysfunctional aspect of the clinical presentation.

The neurocognitive disorders are divided into major and mild categories based on the person's cognitive functioning and level of practical independence.

Major neurocognitive disorder conforms to criteria used previously within psychiatry, medicine, and neurology, and usefully identifies clusters of people with similar deficits and care needs.

Mild neurocognitive disorder, a new category in DSM-5, represents an attempt to identify clusters of patients whose impairment may be relatively subtle but still significant. As is true throughout psychiatry, clinical judgment is required to avoid excessive pathologizing. For example, occasional "senior moments" are not mild NCD. Instead, mild NCD is intended to identify people whose deficits are impairing their quality of life to the extent that they warrant clinical attention. A second reason for creating a mild NCD diagnosis is the reality that most of the major neurocognitive disorders are inexorably progressive, and the effort to reduce their catastrophic impact will likely include recognition and treatment at an early stage of disease progression.

Suggested Readings

Blazer D: Neurocognitive disorders in DSM-5. Am J Psychiatry 170(6):585-587, 2013

Ganguli M, Blacker D, Blazer DG, et al: Classification of neurocognitive disorders in DSM-V: a work in progress. Am J Geriatr Psychiatry 19(3):205–210, 2011

Weiner MF, Lipton AM (eds): Clinical Manual of Alzheimer Disease and Other Dementias. Washington, DC, American Psychiatric Publishing, 2012

Yudofsky SC, Hales RE: Clinical Manual of Neuropsychiatry. Washington, DC, American Psychiatric Publishing, 2012

Case 17.1Dysphoria

John W. Barnhill, M.D.

A psychiatric consultant was called to evaluate depression in Victor Alvarez, a 76-year-old-man who appeared dysphoric the day after surgery to repair a broken hip. It was late in the evening, and no one from the admitting team was available, but a social work note in the chart indicated that the patient's fracture appeared to have been the result of his tripping in his messy apartment. The note also stated that the patient had no children or known living family.

The neighbor who had brought Mr. Alvarez to the hospital had stated that the patient had been more reclusive in recent years and that his self-care had worsened after his wife's death 6 months earlier. Up until the day of the surgery, however, he had been able to function independently in his apartment. The neighbor, a nurse, also mentioned that while they were waiting for the ambulance, her husband had sat with Mr. Alvarez while she searched the apartment for pill bottles. She said she had found only an unopened bottle of acetaminophen and a dusty bottle of a medication used for hypertension.

Routine admission laboratory results indicated that Mr. Alvarez had an elevated blood urea nitrogen level, a low albumin level, and a high normal mean corpuscular volume. His blood pressure was 160/110. In addition to medications related to the surgery, the chart indicated that he had received haloperidol 2 mg after a bout of agitation. A nursing note 1 hour after the haloperidol administration indicated that the patient was "worried and stiff."

On mental status examination, Mr. Alvarez was lying at a 45-degree angle in his unkempt bed. He appeared thin and had moderate temporal wasting. His affect was sad, worried, and constricted. He appeared stiff and uncomfortable. He did not immediately respond to the interviewer's questions and comments. His eyes remained generally shut, but they did flicker open a few times, and his body habitus implied that he was awake. After multiple efforts, the psychiatrist was able to get the patient to say "I'm fine" and "Get out." When asked where he was, Mr. Alvarez said, "My apartment." When he did open his eyes, the patient appeared confused. He did not respond to other questions and declined to do a clock drawing test. The surgery team had called in a one-to-one companion earlier in the day, and she said that the patient was generally either asleep or trying to get out of bed and that he had not been making any sense all day.

Diagnosis

Unspecified delirium

Discussion

Although information is limited, Mr. Alvarez does appear to have developed disturbances in his levels of awareness and attention, and these problems appear acute and directly related to the surgery and hospitalization. A more extensive evaluation would more thoroughly assess his level of awareness and ability to direct, focus, sustain, and shift attention. It would also more carefully document any specific deficits in orientation, executive ability, language, visual perception, learning, and memory. As often happens in acute settings, however, this psychiatrist must make an initial diagnosis with incomplete information, and Mr. Alvarez does appear to meet DSM-5 symptomatic criteria for delirium.

Delirium is common among hospital inpatients and is especially common among several different subgroups of patients, including elderly patients following hip surgery. Delirium is often normalized by the treating team (e.g., they might say, "Who wouldn't be a little confused in an intensive care unit?"), and it is generally overlooked unless the quiet confusion is accompanied by agitation. As happened in Mr. Alvarez's case, delirium is often mistaken for depression because patients with either disorder can appear sad and worried. As is true for all neurocognitive disorders, however, delirium can affect more than cognition, and making the diagnosis is important for reducing accidents and treatment delays as well as for guiding psychiatric treatment.

The diagnosis of delirium is somewhat unusual within DSM-5. In addition to documenting a fluctuating course and a set of symptomatic criteria, a diagnosis of DSM-5 delirium requires evidence that directly links the disturbance to a physiological insult. This is an unusual requirement. Although psychiatrists often look for possible causes for a broad array of disorders, DSM-5 diagnoses generally do not require a search for a cause. In Mr. Alvarez's case, the single most likely cause of his delirium is the hip fracture. Because they tend to happen to older people and to

involve surgery, anesthesia, and pain medications, broken hips commonly cause delirium. Mr. Alvarez's delirium is likely to be multifactorial, and the consulting psychiatrist should search the chart for other contributors, which might include medications (e.g., anticholinergic medications), laboratory abnormalities (e.g., anemia), and medical comorbidities (e.g., an infection).

In addition to looking for what is most common, the clinician needs to look for what is most dangerous. Perhaps most urgent is the possibility of substance withdrawal. If the neighbor's information is correct—that no pertinent medication bottles were in the apartment-then it is unlikely that Mr. Alvarez is in withdrawal from medications such as benzodiazepines or barbiturates. It is possible, however, that his delirium reflects alcohol withdrawal. The psychiatrist lacks a thorough history, but Mr. Alvarez's lab results indicate a high-normal mean corpuscular volume-which often reflects chronic alcohol use-and his elevated blood pressure could reflect alcohol withdrawal rather than the untreated hypertension which is implied by the dusty bottle of blood pressure medications that were found by the neighbor (unless those pills were intended for his now-deceased wife). The patient has been agitated, a frequent finding in alcohol withdrawal, although he seems to have been generally hypoactive, which is more typical of a postoperative delirium. Such ambiguity should prompt the psychiatrist to seek further clues (e.g., aspartate aminotransferase/alanine aminotransferase ratio, low magnesium level, other elevated vital signs) and have a direct conversation with the neighbor (e.g., to learn whether she found discarded alcohol bottles when looking for medication bottles). This information is critical because alcohol withdrawal delirium is potentially catastrophic. If the patient turns out to have a significant alcohol use disorder, the treatment plan needs to be adjusted, because the primary treatment for alcohol withdrawal is benzodiazepines, which are generally contraindicated in patients with delirium that is related to surgery and advanced age.

Although not potential emergencies, two other diagnoses should also be considered in Mr. Alvarez. The neighbor notes that he has suffered decline in self-care since his wife died. While the elevated blood urea nitrogen suggests acute dehydration, his low albumin and temporal wasting hint at malnutrition, which often accompanies apathy and diminished functionality. It is definitely possible, then, that Mr. Alvarez was primed for the delirium by having had a mild or major neurocognitive disorder (i.e., dementia) in the preceding years. If he does have a dementia, it is not clear which type is more likely. Alzheimer's disease is the most common type of dementia, but this patient's apparent hypertension also puts him at risk for a vascular etiology as either primary or comorbid with Alzheimer's disease. The patient is also noted to be stiff following the use of haloperidol for agitation, a result that is especially common in cognitive decline related to either Lewy body disease or Parkinson's disease. Accurately clarifying the existence of a dementia is unlikely on the night of the evaluation, but dementia should be included in the differential diagnosis.

Another diagnosis that should be considered is depression. The patient's wife died the year before, and Mr. Alvarez appears to be isolated and poorly functional. Although his chronic decline can certainly be related to a neurocognitive disorder, it would be useful for the psychiatrist to more systematically check for depressive symptoms as the delirium clears.

On the night of the evaluation, however, the psychiatrist would probably limit the diagnosis to unspecified delirium. A more careful search over the next 12–24 hours would be aimed at clarifying comorbidities such as alcohol use disorder, depression, and dementia.

Suggested Readings

Fricchione GL, Nejad SH, Esses JA, et al: Postoperative delirium. Am J Psychiatry 165(7):803-812, 2008

Trzepacz PT, Meagher DJ: Delirium, in Clinical Manual of Neuropsychiatry. Edited by Yudofsky SC, Hales RE. Washington, DC, American Psychiatric Publishing, 2012, pp 61–118

Case 17.2Agitated and Confused

José R. Maldonado, M.D.

Wesley Brown, a 63-year-old white businessman, was "found down" in the road by police and brought to the emergency room (ER) of a large university-affiliated hospital. The psychiatry service was consulted for management of "psychotic behavior" in the ER. The patient's family reported that the patient had exhibited an approximately 2-week history of "strange behavior." According to his sister, Mr. Brown had been running around

the kitchen with knives, sending paranoid e-mails about the justice system to his friends, showing his guns to the neighbors, seeing people in the walls, having paranoid thoughts that his wife was having an affair, and not sleeping. The patient's wife had reported him missing 3 days prior to admission. Notably, his car was found a few blocks away with a large box in its trunk containing numerous medications and the patient's extensive gun collection.

Mr. Brown's vital signs were within normal limits. His medical records revealed a history of coronary artery disease and a coronary artery bypass graft 5 years prior to admission, as well as chronic back pain and several spinal surgeries, with an associated history of daily opiate use. He had no prior psychiatric history, including any history of depression or antidepressant medications. His outpatient medications included metoprolol, cyclobenzaprine, and morphine (in the form of MS-Contin).

His physical examination was notable for heavy sedation, mydriasis, hypoactive bowel sounds, urinary retention, epistaxis, and depressed reflexes. A computed tomography (CT) scan of the head was negative, and CT of the cervical spine showed degeneration. His blood alcohol screen was negative, and complete blood count and comprehensive metabolic panel results were within normal limits, as were an electrocardiogram and cerebrospinal fluid from a lumbar puncture. His urine toxicology screen was positive for "benzodiazepines and tricyclics."

Mr. Brown's mental status examination revealed waxing and waning alertness, an unkempt appearance, lack of cooperation with nursing and medical personnel, somewhat slurred speech, and signs of psychomotor retardation. His affect alternated between subdued/somnolent and restless/agitated. He denied suicidal or homicidal ideation but reported significant paranoid ideation that focused on his wife's suspected affair. His thought process was notably tangential. He denied both auditory and visual hallucinations. His judgment and insight were impaired. During his initial evaluation, the patient was noted to have a Mini-Mental State Examination score of 16 of 30 possible points. He lost 7 of 10 points for orientation, 3 for attention and calculation, 2 for recall, and 1 each for sentence writing and copying design.

Diagnosis

Delirium

Discussion

Mr. Brown was "found down" after a 2-week episode of uncharacteristically strange behavior that was of apparently sudden onset. According to his wife and sister, he had been paranoid and threatening, waving knives and showing off his guns. He had been missing for a few days before being brought to the ER. His mental status examination was notable for a marked disturbance in both attention and awareness. His level of attention fluctuated over hours. Various cognitive deficits were new and were seemingly unrelated to another neurocognitive disorder.

Although someone in the ER called this behavior "psychotic," Mr. Brown presents with a fairly classic DSM-5 delirium. One criterion for delirium is often particularly difficult to identify: evidence from the history, physical examination, or laboratory findings that the disturbance is caused by the physiological consequence of another medical condition, substance intoxication or withdrawal, or a toxin exposure (or a combination of such factors).

Mr. Brown's initial workup was notable for a toxicology screen positive for benzodiazepines and tricyclic antidepressants (TCAs). His physical examination revealed mydriasis, hypoactive bowel sounds, urinary retention, depressed reflexes, and fluctuating levels of sedation. These results point toward an anticholinergic delirium. Potential sources of anticholinergic delirium include benzodiazepines and TCAs (as per Mr. Brown's positive toxicology screening test). In addition, opioid agents could be implicated, especially given the patient's history of chronic pain and opioid use. Although Mr. Brown's toxicology screen was negative for opiates, short-acting opioids might have precipitated the delirium but then been out of his system by the time he arrived in the ER. He also has a long-standing history of pain, which itself is associated with both the development and the severity of delirium.

The presence of TCAs in Mr. Brown's toxicology screen is puzzling. His family insisted he had never taken antidepressants, and his records seemed to back them up. His medications did include cyclobenzaprine, however, a commonly used centrally acting muscle relaxant. It is often used to assist during opioid tapers. Cyclobenzaprine also happens to have a tricyclic structure and shares many of the pharmacological characteristics and psychoactive effects of TCAs. Mr. Brown's delirium was, therefore, likely caused by some combination of cyclobenzaprine, opioids, and benzodiazepines. Lack of sleep could have been the result of the delirium and then a factor in its perpetuation.

Suggested Readings

Khan RA, Kahn D, Bourgeois JA: Delirium: sifting through the confusion. Curr Psychiatry Rep 11(3):226-34.2009

Maldonado JR: Delirium in the acute care setting: characteristics, diagnosis and treatment. Crit Care Clin 24(4):657–722, 2008

Maldonado JR: Pathoetiological model of delirium: a comprehensive understanding of the neurobiology of delirium and an evidence-based approach to prevention and treatment. Crit Care Clin 24(4):789–856, 2008

Tune L, Carr S, Hoag E, Cooper T: Anticholinergic effects of drugs commonly prescribed for the elderly: potential means for assessing risk of delirium. Am J Psychiatry 149(10):1393–1394, 1992

Case 17.3Depressed and Withdrawn

Peter V. Rabins, M.D., M.P.H.

Arthur Cullman, a 71-year-old man, was referred to a psychiatrist by his primary care physician for evaluation of depressive symptoms that had not responded to medication trials. His wife reported that Mr. Cullman had begun to change at age 68, about a year after his retirement. He had gradually stopped playing golf and cards, activities he had enjoyed "for decades." He had explained that seeing his friends was no longer "fun," and he generally refused to socialize. Instead, he sat on the couch all day, worrying about finances and the future. He denied sadness, however, and any suicidal or homicidal ideation. His wife said he was sleeping 10–12 hours a day instead of his customary 7 hours and that he had, uncharacteristically, gained 8 pounds in less than 1 year.

His wife had become worried that retirement had left Mr. Cullman depressed, and she had mentioned her concerns to their primary care physician. Their physician agreed and prescribed sertraline (titrated to 100 mg/day for 8 months) and then sustained-release venlafaxine (titrated to 150 mg twice daily and maintained at that level for over 1 year). Mr. Cullman's symptoms gradually worsened during these medication trials, and the internist ultimately referred him for a psychiatric evaluation.

Mr. Cullman's past psychiatric history was notable for an episode in his 20s when he had difficulty at work, felt apathetic and unconnected, and had difficulty concentrating. These symptoms persisted for several months and resolved without treatment as his work situation improved.

Mr. Cullman's family history was positive for a single episode of major depression in one of his two younger brothers; the depression responded well to psychotherapy and an antidepressant medication. His mother had developed dementia in her 70s.

Mr. Cullman's personal history revealed unremarkable development and childhood, graduation from college with a degree in business, a successful career as a corporate manager, and retirement at age 67. He and his wife had been married for 45 years, denied significant discord, and had three children and four grandchildren who were in good health. Premorbidly, he had been outgoing, energetic, and well organized.

Mr. Cullman's medical history was notable for hypertension, hyperlipidemia, and type 2 diabetes mellitus. He was taking lisinopril, metformin, simvastatin, and venlafaxine.

Mental status examination revealed an alert, cooperative man who was neatly dressed and who had a steady but slow gait and no abnormal movements other than psychomotor slowing. Mr. Cullman's speech was soft in volume but normal in rate and rhythm, without paraphasic errors. He had a limited range of emotional expression, denied feeling sad or guilty, but felt he had retired too early. He denied self-blame, hopelessness, and suicidal thoughts or plans. He was aware that his wife was concerned and acknowledged that he was less energetic and active than in the past. He ascribed these changes to his retirement. He said he was generally satisfied with his life. On cognitive examination, Mr. Cullman was oriented except for the date. He remembered one of three objects in 2 minutes, performed three of five serial 7 subtractions correctly, named four common objects correctly, and repeated a complex sentence accurately. He was able to draw the face of a clock and place the numbers correctly but was not able to correctly place the hands at 10 minutes after 2. His blood pressure was 142/82, and his pulse was 84 and regular. His physical examination was noncontributory. His neurological examination revealed intact cranial nerves and 1+ symmetric deep tendon reflexes.

Diagnosis

Major neurocognitive disorder due to Alzheimer's disease

Discussion

This 71-year-old man presents with a 3-year history of gradual social withdrawal. Mr. Cullman has failed two prolonged trials of antidepressant medication, one of which did not reach maximum dose (sertraline) and one of which reached a moderately high dose (venlafaxine). He had a successful marriage and career, and the presenting apathy is a significant change from his lifelong baseline. He may have had an episode of depression in his 20s, but this is not well established. He has a family history of depression in a brother and late-life dementia in his mother. The prominent symptoms on examination are slowness, lack of self-reported sad or dysphoric mood, lack of concern about his decline, increased sleep, and a cognitive examination that indicates impairments in memory, concentration, and math, as well as impaired clock drawing.

The differential diagnosis in Mr. Cullman's case includes a primary dementia (neurocognitive disorder) and major depression with marked apathy. Favoring major depression is the presence of lack of interest in usually enjoyed activities, hypersomnia, and unhappiness with retirement.

The more likely diagnosis, however, is major neurocognitive disorder due to Alzheimer's disease, with apathy and mood disturbance. This diagnosis is supported by the presence of memory, executive function, and visuospatial function abnormalities (abnormal clock drawing) on examination. The history includes a gradual onset and slow progression, which is more consistent with a dementia than a depression, as is the lack of a patient-reported mood change. Although Alzheimer's disease is the most likely cause of the neurocognitive disorder, reversible causes of dementia should be investigated.

DSM-5 has improved the diagnostic approach to dementia in several ways. First, it no longer requires that memory be impaired, a requirement that is appropriate for Alzheimer's disease but not necessarily for frontotemporal dementia or vascular dementia. By listing a set of impairments by domain—complex attention, executive function, learning and memory, language, perceptual-motor, and social cognition—DSM-5 broadens clinician understanding of the protean manifestations of the neurocognitive disorders. Unfortunately, however, DSM-5 requires impairment in only one domain, a change not only from DSM-IV but also from most conceptualizations of dementia that require multiple impairments. In DSM-IV and ICD, impairments in a single domain, be it language, perception, or memory, were identified as focal impairments and classified separately because the differential diagnosis for them is distinct from that for multiple impairments.

A second major change is the use of *neurocognitive disorder* as the overarching term. This was presumably done to destigmatize cognitive impairment, because the word *demented* is thought to be pejorative. Time will tell whether this change is widely embraced and whether it will aid patients and families in accepting the diagnosis and lead to improved care by breaking down barriers due to stigma. The term *dementia* is still included as an alternative description. I favor the traditional term because *neurocognitive* implies that the manifestations are cognitive and "neurological," whereas changes in mood, experience (hallucinations and delusions), and behavior (agitation, wandering, apathy) can also be symptoms of dementia.

A third general change is the division into minor and major neurocognitive disorders. This change acknowledges the recognition in recent years that many neurodegenerative disorders develop so gradually that subtle impairments are present before function is impaired. This demarcation will become clinically relevant in the future when preventive strategies depend on recognizing very mild disorder.

Suggested Readings

Blazer D: Neurocognitive disorders in DSM-5. Am J Psychiatry 170(6):585-587, 2013

Rabins PV, Lyketsos CG: A commentary on the proposed DSM revision regarding the classification of cognitive disorders. Am J Geriatr Psychiatry 9(3):201–204, 2011

Rosenberg PB, Onyike CU, Katz IR, et al: Clinical application of operationalized criteria for 'Depression of Alzheimer's Disease.' Int J Geriatr Psychiatry 20(2):119–127, 2005

Case 17.4Disheveled and Drained

George S. Alexopoulos, M.D.

Betty Drucker, a 76-year-old white woman, was experiencing sad mood, diminished interest in pleasurable activities, excessive worries about her finances, feelings of insecurity when interacting with others, and difficulties in concentration and word finding. She had reduced her social interactions, stopped going to her senior citizens center, and dropped out of her weekly card game because she could not concentrate or memorize her cards. She had lost 7 pounds in the prior 2 months, and her sleep was interrupted by periods of insomnia with agonizing ruminations. This was the first time she had experienced any psychiatric symptoms.

Ms. Drucker had hypertension, hyperlipidemia, and a history of coronary occlusion for which she had received a stent. She was taking hydrochlorothiazide, the angiotensin receptor inhibitor olmesartan, atorvastatin, and low-dose aspirin. She had smoked half a pack of cigarettes per day for about 30 years.

On examination, Ms. Drucker was disheveled and appeared drained of energy. She took a long time to respond to questions. She had a depressed, anxious mood and a sad affect, and was preoccupied with her finances but could be temporarily reassured. She complained of forgetfulness; she was able to recall two out of four objects in 3 minutes and recognized a third when given several choices. In 1 minute, she could think of 14 items available in a supermarket. She failed to cluster items of similar kind. Ms. Drucker had difficulty producing a list of vegetables alternating with items of clothing; she produced 12 correct responses and 4 errors. She spaced the hours unequally in drawing a clock but placed the hands correctly. Her Mini-Mental State Examination score was 24. She gave 22 correct responses over 1 minute in the Stroop Test, which measures "response inhibition" by asking the person to identify the color of ink in which incongruous words are written (e.g., the word "RED" written in blue ink).

A neurological examination was essentially noncontributory. A CT head scan revealed pronounced periventricular and subcortical white matter hyperintensities.

Diagnoses

- Major depressive disorder
- Mild neurocognitive disorder

Discussion

Four questions need to be addressed in characterizing Ms. Drucker's syndrome: 1) Are the depressive symptoms and signs a response to chronic stress resulting from increasing social restrictions and functional limitations (DSM-5: adjustment disorder with depressed mood)? 2) Is the cognitive dysfunction a transient aspect of a depressive syndrome (DSM-5: major depressive disorder, single episode)? 3) Is the cognitive impairment an early-stage neurocognitive disorder (DSM-5: major depressive disorder, single episode)? 4) Are both depressive and cognitive symptoms due to an underlying neurological event, affecting both cognitive and mood networks, that may not progress into dementia (DSM-5: depressive disorder due to another medical condition)? Some of these questions can be addressed by a careful clinical evaluation, but others may be answered only after the depressive symptoms subside or after long-term follow-up.

Increasing functional limitations and the need to adjust to a new, unfamiliar lifestyle often lead to symptoms of depression and anxiety. Most stress-induced reactions consist of low mood, tearfulness, or feelings of hopelessness. However, reactions to chronic stress rarely present with symptoms in all five domains of the depressive syndrome (i.e., mood, motoric activity, cyclic functions, somatic symptoms, and ideational disturbance). When they do involve all domains and cause rigidified distress and dysfunction, patients should receive the diagnosis of major depression, and chronic stress should be viewed as a triggering factor.

Cognitive dysfunction is an integral part of late-life major depression. Unless there is a coexisting neurological insult such as a neurocognitive disorder, the cognitive dysfunction of late-life depression is mild. Attention, timed

tests, and effortful cognitive functions (e.g., verbal free recall) are most impaired. Impairment in executive function is also common in late-life depression and includes abnormal performance in tasks of semantic fluency, semantic organization, response inhibition, planning, and sequencing. Executive dysfunction occurs in up to 40% of depressed older patients and is a risk factor for poor response to antidepressants. Patients with the depression-executive dysfunction syndrome do not develop dementia as a rule, but executive dysfunction often persists even when the depression subsides.

Late-life depression often coexists, however, with a neurocognitive disorder. More than 20% of patients with Alzheimer's disease develop major depression either during the preclinical phase or during the early or middle stages of dementia. Depression is even more common in patients with vascular or mixed neurocognitive disorder, Lewy body disease, frontotemporal lobar degeneration, or Parkinson's disease. As part of a severe depression, a few older patients develop a dementia syndrome whose symptoms and signs subside with improvement of depression. This syndrome had been viewed as a benign "pseudodementia." The improvement generally proves to be transient, however, with late-life depressive pseudodementia generally evolving into an irreversible neurocognitive disorder during long-term follow-up.

At this point, Ms. Drucker appears to most closely meet DSM-5 criteria for both major depression and mild neurocognitive disorder with disturbances in both memory and executive function. Her vascular risk factors (hypertension, hyperlipidemia), history of coronary artery disease, and CT scan findings suggest a vascular contribution to both her depressive and cognitive symptoms.

Assuming that Ms. Drucker's syndrome was correctly identified (major depression and minor neurocognitive disorder), the differential diagnosis should focus on the most likely etiological contributors to the syndrome. Clinical examination should focus on common causes of late-life depression and mild cognitive impairment—that is, early-stage Alzheimer's disease, vascular dementia, mixed dementia, Lewy body disease, Parkinson's disease, and frontotemporal dementia. A history of smoking, hypertension, and coronary artery disease would suggest a vascular contribution to both major depression and cognitive symptoms. Psychomotor retardation and executive dysfunction further support this possibility because both symptoms can be caused by compromise of medial frontal and subcortical structures due to small vessel disease.

Another possibility is that Ms. Drucker suffers from an early-stage, mixed Alzheimer's/vascular dementia. Cerebrovascular pathology accelerates the clinical expression of the Alzheimer's process. In fact, mixed-etiology cognitive syndromes are more common than cognitive syndromes of exclusively vascular etiology. In Ms. Drucker's case, the diagnoses of Lewy body and Parkinson's dementia are unlikely because she has no extrapyramidal signs or autonomic instability. Also unlikely is the diagnosis of frontotemporal dementia in a patient with memory disturbance in the absence of emerging personality pathology and behavioral disinhibition.

Suggested Readings

Alexopoulos GS: The vascular depression hypothesis: 10 years later. Biol Psychiatry 60(12):1304-1305, 2006

Alexopoulos GS, Meyers BS, Young RC, et al: The course of geriatric depression with "reversible dementia": a controlled study. Am J Psychiatry 150(11):1693–1699, 1993

Alexopoulos GS, Raue PJ, Kiosses DN, et al: Problem-solving therapy and supportive therapy in older adults with major depression and executive dysfunction: effect on disability. Arch Gen Psychiatry 68(1):33–41, 2011

Morimoto SS, Gunning FM, Kanellopoulos D, et al: Semantic organizational strategy predicts verbal memory and remission rate of geriatric depression. Int J Geriatr Psychiatry 27(5):506–512, 2012

Case 17.5Stiff and Forgetful

James E. Galvin, M.D., M.P.H.

Carl Estel, a 74-year-old right-handed man, was brought for a neuropsychiatric evaluation after a multi-year decline marked by stiffness, forgetfulness, and apathy. His wife had been trying to get him in for an evaluation for years and had finally become desperate enough to enlist his brothers to bring him for the evaluation.

Mrs. Estel described her husband's problems as starting when he retired at age 65. He had seemed "out of sorts" almost immediately, and she had wondered at the time whether he was getting depressed. He became uncharacteristically forgetful, misplacing items and neglecting to pay bills. He had trouble with appointments, medications, and calculations. He had declined to see a physician at her urging until he was involved in a traffic accident a few years prior to this evaluation. While evaluating him for minor injuries, a physician had said that the accident was caused by inattention and diminished depth perception, that Mr. Estel should stop driving, and that he might have early dementia.

Over the past year, things had gotten worse. Mr. Estel often could not recall the outcome of sporting events that he had just watched on television, although his memory improved with cues. He resisted activities such as travel and socializing that he had previously enjoyed. A former athlete, he quit taking walks around the neighborhood after several falls. He quit playing cards with neighbors because the rules had become confusing. He looked depressed and acted apathetic but generally said he was fine. His judgment and problem-solving skills were rated as poor. A retired plumbing contractor who had completed 4 years of college, Mr. Estel sometimes seemed unable to operate household appliances. All of these cognitive problems seemed to fluctuate, so that his wife reported that sometimes he was "almost like his old self," whereas at other times it was "like living with a zombie, a depressed zombie." She described his excessive daytime drowsiness and frequent staring spells. She also reported that she felt exhausted.

When asked specifically about sleep, Mrs. Estel reported that neither of them slept well. Mainly, she said, it was because of her husband "acting out his dreams." He punched and screamed and would occasionally fall out of bed. She was bruised the morning after these episodes and decided it was safer to sleep on the couch. These episodes occurred several times per month. She recalled that these sleep episodes began just before he retired; she recalled wondering at the time whether he had posttraumatic stress disorder, but she did not think he had suffered any particular trauma. A few years earlier, a friend had offered a "sleeping pill" that had helped her own husband with dementia. Mr. Estel had responded to it with extreme rigidity and confusion, and his wife had nearly taken him to the emergency room in the middle of the night.

Mrs. Estel denied that her husband had ever had any psychiatric illness. When asked about psychotic symptoms, she said he often seemed to swat at invisible things in the air. This happened about twice a month.

Mr. Estel's medical history was pertinent for hypercholesterolemia, cardiovascular disease with a stent, and possible transient ischemic attacks. His family history was positive for his mother having developed dementia in her mid-70s.

On examination, Mr. Estel was a stooped, stiff man who shuffled into the office. While listening to his wife present the history he often stared into space, seeming to pay no attention to the content of the conversation. His right hand was tremulous. He appeared depressed but when asked, he said he felt fine. His voice was so quiet that words were often unintelligible even when the interviewer leaned close. He drooled at times and did not notice until his wife wiped his chin.

When asked to do cognitive testing, he shrugged his shoulders and said, "I don't know."

Diagnoses

- Major neurocognitive disorder with Lewy bodies
- Rapid eye movement sleep behavior disorder

Discussion

Mr. Estel presents with a progressive decline in cognition, particularly in the areas of attention, executive ability, and visual-spatial skills. These symptoms are a significant change from his baseline and interfere with his functioning. He therefore meets criteria for a major neurocognitive disorder, or dementia.

Mrs. Estel's excellent history allows for a more specific understanding of her husband's neurocognitive disorder. Mr. Estel's first symptom appears to have been a sleep disturbance characterized by a violent enactment of his dreams. His memory and executive functioning have declined significantly; however, years later, his level of awareness continues to fluctuate during the course of the day. At least a couple of years after the memory decline, he developed parkinsonian symptoms. He began to have apparent visual hallucinations, which continue. He responded to an unknown "sleeping pill" with a severe intensification of his parkinsonian symptoms and apparent "confusion." Mr. Estel, therefore, has a probable DSM-5 major neurocognitive disorder with Lewy bodies (NCDLB).

NCDLB (also known as Lewy body dementia) is diagnosed in people with neurocognitive disorder by evaluating for three possible "core" features and two "suggestive" features that are relatively specific for NCDLB. A "probable" diagnosis is made if the patient has two core features, or one suggestive feature with one or more core features. For a "possible" diagnosis, the individual should have one core feature, or one or more suggestive features.

The first core feature of NCDLB is a fluctuating cognition with pronounced variations in attention and alertness. Although some variation is seen in other neurocognitive disorders, the fluctuation is more pronounced in NCDLB than in, for example, Alzheimer's dementia. Cognitive fluctuations are not simply variations in memory but instead represent spontaneous alterations in consciousness, attention, or concentration. These may wax and wane over minutes, hours, or days, with symptoms such as excessive daytime sleepiness, including napping for > 2 hours daily; illogical or incoherent thinking or conversation; and frequent staring spells. Mrs. Estel reports that Mr. Estel is sometimes almost "his old self" but at other times "a zombie." In addition to fluctuating cognition, Mr. Estel, like other patients with NCDLB, tends to have memory deficits that are improved with cues (as noted in regard to his recollection of sporting events). This contrasts with Alzheimer's disease, in which cues do not generally help in the recollection.

A second core feature is recurrent visual hallucinations. Although Mr. Estel denies having these, his wife reports that he recurrently waves at the air, as if he sees something. Visual hallucinations (which patients commonly describe as small people, children, or animals) may be accompanied by hallucination in other modalities.

Mr. Estel also has the third core feature: his parkinsonian symptoms developed 2 years later than his cognitive impairment. If these symptoms had developed in reverse order, he would be more likely to have Parkinson's disease. Mr. Estel has some of the typical features of spontaneous parkinsonism: bradykinesia, rigidity (with or without the presence of cogwheeling), postural instability, and resting tremor.

Mr. Estel may also meet criteria for both suggestive features listed in DSM-5 for NCDLB. He appears to meet criteria for rapid eye movement (REM) sleep behavior disorder, which he developed just before his wife noticed cognitive difficulties. REM sleep behavior disorder is a common prodromal symptom of both Parkinson's disease and NCDLB.

A final suggestive criterion is sensitivity to antipsychotic medication. Mr. Estel developed confusion and an exacerbation of his parkinsonian features after taking a "sleeping pill" offered by a friend whose husband took the medication for dementia. Although it is difficult to be sure what the pill was, a likely culprit would be an antipsychotic medication. If so, then Mr. Estel would meet the NCDLB criterion of "severe neuroleptic sensitivity." Neuroleptic sensitivity is characterized by excessive rigidity with exposure to "classic" neuroleptics or other antidopaminergic medications (e.g., antiemetics). Affected patients would also have an increased risk of neuroleptic malignant syndrome.

Although NCDLB is the most likely diagnosis, other possibilities should be considered. Alzheimer's disease is the most common dementia, but the presence of REM sleep behavior disorder points toward a synucleinopathy like NCDLB, as does the fact that his memory improves with cues. Mr. Estel has parkinsonian features, and REM sleep behavior disorder is also associated with Parkinson's disease, but his cognitive symptoms started before his movement disorder, making it unlikely that he has Parkinson's disease. Cerebrovascular disease can cause somewhat similar symptoms, but there should be accompanying focal neurological signs and/or abnormalities on brain imaging. Mr. Estel appears to have no history of psychiatric illness. Although primary psychiatric disorders can emerge in late life, his constellation of symptoms—cognitive, motor, sleep, and behavior—supports a neurocognitive disorder diagnosis rather than a primary psychiatric diagnosis such as a depressive disorder.

Suggested Readings

Karantzoulis S, Galvin JE: Distinguishing Alzheimer's disease from other major forms of dementia. Expert Rev Neurother 11(11):1579–1591, 2011

Mortimer AM, Likeman M, Lewis TT: Neuroimaging in dementia: a practical guide. Pract Neurol 13(2):92–103, 2013

Case 17.6Paranoia and Hallucinations

Lorin M. Scher, M.D., Barbara J. Kocsis, M.D.

Dorothy Franklin, a 54-year-old former waitress, was brought into the psychiatric emergency room (ER) by her husband for escalating delusions and visual hallucinations. Her husband reported that she had been episodically agitated for about 10 years, uncharacteristically suspicious for about 6 months, and complaining of daily hallucinations for weeks to months. The patient referred to her experience as "my nightmare" and explained, "I see a judge standing in front of me. Plain as day. He is a good judge, but I throw bombs at him and I can't stop. I'm terrified!" The patient and her husband could not identify a precipitating event and denied that she took medications or illicit substances that might trigger these experiences.

Four weeks prior to this evaluation, Ms. Franklin's husband had taken her to an emergency room because the symptoms had "spun out of control" and "she was tortured by the hallucinations." At that time, she had a normal physical examination and negative laboratory workup. She was psychiatrically hospitalized, given a diagnosis of unspecified schizophrenia spectrum and other psychotic disorder, and prescribed low-dose risperidone and clonazepam. The vivid hallucinations diminished markedly within days of starting the medication, and she was discharged from the psychiatric unit after 4 days. For a few weeks, she did not mention the judge. Despite medication adherence, however, the same visual hallucination returned and had been present almost constantly for a week prior to their return to the ER.

Ms. Franklin had been "completely fine" until her early 40s. In the ensuing decade, she had seen multiple psychiatrists for agitation, paranoia, and occasional aggression. She had received a new diagnosis of "schizophrenia" when she was 45, but most of the other diagnoses were "not specific." She and her husband could not recall the names of all of the many psychiatric medications that she had been prescribed over the years, but they included antidepressant, antipsychotic, antianxiety, and mood-stabilizing medications.

Ms. Franklin had smoked half a pack of cigarettes a day for many years but only rarely drank alcohol and never used recreational drugs. She had worked as a waitress for 20 years but quit 10 years prior to the evaluation because of too many "dropped trays," misremembered customer orders, and noticeable irritability. Around that time, she was arrested for "hitting someone" in a shopping mall, and she and her husband decided she needed to reduce her stress level.

The patient had two healthy adult children in their late 20s. She had one sister with "depression and irritability." The patient's mother passed away 10 years earlier at age 70. She had been wheelchair bound for years because of severe dementia, postural instability, and involuntary movements. The patient's maternal grandfather "got sick" in his late 50s and completed suicide with a firearm at age 62.

On mental status examination, Ms. Franklin appeared her stated age, with thin body habitus and good grooming and hygiene. She sat next to her husband, holding his hand and often looking to him when asked questions. She had moderate psychomotor slowing, and noticeable involuntary "dancelike" movements of her trunk and upper extremities. Her eye contact was intermittent but intense. Ms. Franklin described her mood as "not well at all," and her affect was blunted and minimally reactive. Her speech was soft and slowed, with minimal spontaneity. Her thought process was linear but slowed. She was preoccupied by paranoid delusions and visual hallucinations. She reported actively hallucinating during the interview. She denied suicidal and homicidal thoughts or plans. On cognitive examination, she was alert and oriented to person, place, and time. She had good attention and concentration, although she had significant impairments in both short- and long-term memory. Her performance on the Mini-Mental State Examination and clock drawing test revealed moderate impairment in planning and visuospatial tasks.

In the ER, initial test results, including extensive laboratory testing, were all normal. The patient was admitted to the inpatient psychiatric unit for safety and for further workup of her psychotic symptoms.

Initial Diagnosis

Unspecified schizophrenia spectrum and other psychotic disorder (further evaluation follows the initial discussion)

Initial Discussion

Ms. Franklin has developed a psychotic disorder with multiple characteristics that point toward an underlying medical or neuropsychiatric etiology. The onset was relatively late for a psychosis, for example, and she has visual hallucinations, early-onset cognitive deficits, and a cluster of nonspecific neurologic symptoms (clumsiness, choreiform movements, and bradykinesia).

General medical causes of psychosis are multiple, and include infectious, metabolic, cerebrovascular, epileptic, demyelinating, and degenerative etiologies, as well as substance-induced psychosis and toxidromes. Once medications and illicit substances appear unlikely, the patient should undergo a thorough medical workup. In Ms. Franklin, particular attention should be paid to neuropsychiatric causes, given her neurological and progressive cognitive impairments.

Potential neuropsychiatric etiologies for Ms. Franklin's symptoms include Parkinson's disease, dementia with Lewy bodies, Huntington's disease, epilepsy, and multiple sclerosis.

Parkinson's disease, which affects 1% of the population over age 50, is defined by tremor, bradykinesia, rigidity, and, in some patients, dementia. Depression is widely experienced by patients with Parkinson's disease, and psychosis is not uncommon. Furthermore, the anticholinergic and dopaminergic drugs used to treat Parkinson's disease are known to precipitate or worsen psychosis. Neurocognitive disorder with Lewy bodies (NCDLB) is another consideration, given its hallmark symptom of visual hallucinations, coupled with Parkinson's disease-like symptoms. Huntington's disease is a fatal autosomal dominant disorder that commonly manifests in the fourth or fifth decade of life, and is marked by cognitive decline, motor symptoms, and psychiatric disturbance. Psychiatric symptoms are widespread throughout the disease course and include depression, apathy, irritability, and psychosis. In patients like Ms. Franklin, epilepsy—particularly complex partial seizures—should always be ruled out with electroencephalography (EEG). Complex partial seizures may present with panic attack-like symptoms and brief hallucinations, although patients with long-standing epilepsy may develop chronic, unrelenting psychotic symptoms. Multiple sclerosis, an inflammatory demyelinating disease most common in women, is often marked by depression, irritability, and cognitive deficits, although hallucinations and delusions are not common

Final Diagnosis

Neurocognitive disorder due to Huntington's disease

Discussion (continued)

After Ms. Franklin was admitted to the psychiatric unit with an unspecified psychotic disorder, she received brain magnetic resonance imaging (MRI) to rule out mass lesions (e.g., tumor or stroke) and demyelinating processes (e.g., multiple sclerosis). MRI findings were normal, and the neurology department was consulted for diagnostic assistance and administration of EEG to evaluate for a possible seizure disorder. Ms. Franklin's electroencephalogram was negative for seizure activity.

Given the nature and time course of Ms. Franklin's symptoms, coupled with her family history of dementia and delayed-onset psychiatric disturbances, the psychiatry and neurology teams became concerned about the possibility of Huntington's disease. After extensive discussion with the patient and her spouse, she agreed to undergo genetic testing for Huntington's disease, and the test result was positive. After further psychosocial and medication management, she and her husband were referred to a comprehensive outpatient Huntington's disease clinic.

Suggested Readings

Beck BJ: Mental disorders due to a general medical condition (Chapter 21), in Massachusetts General Hospital Comprehensive Clinical Psychiatry. Edited by Stern TA, Rosenbaum JF, Fava M, et al. Philadelphia, PA, Mosby/Elsevier, 2008

Lancman M: Psychosis and peri-ictal confusional states. Neurology 53 (5 suppl 2):S33-S38, 1999

Rosenblatt A, Leroi I: Neuropsychiatry of Huntington's disease and other basal ganglia disorders. Psychosomatics 41(1):24–30, 2000

Scher LM, Kocsis BJ: How to target psychiatric symptoms of Huntington's disease. Current Psychiatry 11(9): 34–39, 2012

Weintraub D, Hurtig HI: Presentation and management of psychosis in Parkinson's disease and dementia with Lewy bodies. Am J Psychiatry 164(10):1491–1498, 2007

Case 17.7Suddenly Rebellious

Stuart C. Yudofsky, M.D., Robert E. Hales, M.D., M.B.A.

Only upon the repeated and fervent insistence of her parents did 19-year-old Emily reluctantly agree to see a psychiatrist. "It's not me you want to see," Emily proclaimed emphatically. "It's my insane parents who need your help." Emily did not offer a chief complaint, aside from the concern that her parents were driving her "crazy." She added, "Everything is going great in my life. I have plenty of friends, go out almost every night, and always have lots of fun."

While Emily was taking some time away from "the so-called real world," her sister was attending Duke University, her younger brother was excelling at a competitive private high school, and both her parents seemed to enjoy their careers as radiologists. She asked, "Don't you think that's enough strivers for one family?"

Emily agreed to have her parents join the session, and they told a different story. They tearfully disclosed that their daughter had become irritable, unproductive, and oppositional. She drank to intoxication almost every night, often not returning home for an entire weekend. In searching her room, they had found small amounts of marijuana, alprazolam (Xanax), cocaine, and prescription stimulants. The parents described the changes in Emily's personality as "an adolescent nightmare" and described her friends as "losers who do nothing but dye their hair, get tattoos, and hate everything." Emily's attitudes and behavior contrasted markedly with those of her parents and siblings. "We don't mind that she is doing her own thing and that she isn't conservative like the rest of us," her father said, "but it's like we don't even recognize who she's become."

According to her parents, Emily's "adolescent nightmare" began 4 years earlier. She had apparently been a studious 15-year-old girl with a lively sense of humor and a wide circle of "terrific friends." "Almost overnight," she began to shun her longtime friends in favor of "dropouts and malcontents" and began to accumulate traffic tickets and school detentions. Instead of her former bright-eyed curiosity, Emily manifested a lack of interest in all her academic subjects, and her grades dropped from As to Ds. The parents were at an absolute loss to explain the sudden and dramatic change.

The abrupt change in performance led the psychiatrist to ask Emily to take a battery of neuropsychological tests so the results could be compared with those of tests that she had taken when she had applied to a private high school several years earlier. In particular, Emily retook two high school admissions tests: the System for Assessment and Group Evaluation (SAGE), which measures a broad array of academic and perceptual aptitudes, and the Differential Aptitude Tests (DAT), which focus on reasoning, spelling, and perceptual skills.

On the SAGE, her average percentile scores dropped from the upper 10% for a 13-year-old to the bottom 10% for an adult (and the bottom 20% for a 13-year-old). When Emily took the DAT at age 13, she scored in the highest range for ninth graders across almost all measures. Her worst result had been in spelling, where she scored at the second-highest level. Upon repeating the test at age 19, she scored below the high school average in all measures.

EEG, brain CT, and T2-weighted brain MRI images did not show evidence of structural brain damage. However, fluid-attenuated inversion recovery (FLAIR) T2-weighted MRI displayed a clear lesion in the left frontal cortex, highly suggestive of previous injury to that region.

Upon further questioning about the crucial period in which she seemed to have changed, Emily admitted to being in a traffic accident with her now ex-boyfriend, Mark. Although Emily did not recall much from this episode, she remembered that she hit her head and that she had bad headaches for many weeks thereafter. Because Emily was not bleeding and there was no damage to the car, neither Mark nor Emily reported the incident to anyone. With Emily's permission, the psychiatrist contacted Mark, who was away at college but a willing and excellent historian.

He remembered the incident well. "Emily hit her head very, very hard on the dashboard of my car. She was not totally unconscious but very dazed. For about 3 hours, she spoke very slowly, complained that her head hurt badly, and was confused. For about 2 hours she didn't know where she was, what day it was, and when she had to get home. She also threw up twice. I was really scared, but Emily didn't want me to worry her parents since they're so overprotective. And then she broke up with me, and we've hardly spoken since."

Diagnoses

- Mild neurocognitive disorder due to traumatic brain injury, with behavioral disturbance
- Alcohol use disorder

Discussion

Feeling pressured to see a psychiatrist by "overprotective" parents, Emily tries to frame her own story as that of an underachieving young woman who is enjoying her youth and rebelling against her family's academic and social strictures. In contrast, her parents emphasize her "overnight" change from a pleasant, high-achieving 15-year-old girl into a rude, academically failing, substance-abusing "nightmare." The differential diagnosis for such a change is broad but clarified through history, collateral information, and cognitive testing.

Critical to an accurate diagnosis is recognition of change that appears to be somewhat different from what is typically explained by the onset of a mood, anxiety, or substance use disorder. This recognition led to the decision to retest Emily's performance on high school aptitude and achievement examinations, which revealed the dramatic decline in her test scores. Focused historical inquiry led to the discovery of the motor vehicle accident that was pivotal to the development of Emily's symptoms.

In the accident, Emily suffered a traumatic brain injury (TBI). History collected from the car's driver and from Emily indicates that she had two of the four core criteria for a TBI diagnosis: she was disoriented and confused for hours afterward, and she did not recall much about the accident (posttraumatic amnesia). Only one is necessary to make the TBI diagnosis. Emily apparently did not lose consciousness, and no neurological signs were noted in the history. Although routine brain scans were read as normal, a FLAIR T2-weighted MRI done 4 years later revealed a lesion that was "highly suggestive" of trauma to the left frontal cortex.

For a DSM-5 diagnosis of a neurocognitive disorder due to TBI, a person must also have evidence of decline in cognitive functioning. Emily meets this standard; her decline is substantiated by parental observation, school records, and aptitude and achievement tests taken before and after high school. It is less obvious as to whether her neurocognitive disorder is considered mild or major. The more severe category is generally reserved for individuals whose deficits interfere with activities of daily living, such as paying bills and managing medications. The mild category targets people with more modest impairment. Emily's test results reflect a dramatic decline, from the top tenth percentile to the bottom tenth percentile. For Emily and her family, that drop is likely to be viewed as catastrophic. Nevertheless, the fact that she is able to dress, drive, and socialize seems to indicate that the most appropriate diagnosis is mild neurocognitive disorder, it specifically excludes the use of a code for a behavioral disturbance specifier in mild neurocognitive disorder; nevertheless, the behavioral disturbance should still be indicated in writing.

Emily's case reflects two particular challenges in neuropsychiatric diagnosis. First, although some neuropsychiatric disorders have sudden, dramatic onsets, many others are more insidious. In some cases—as with Emily—the insult may have been acute but the link between the underlying neuropsychiatric disorder and the presenting symptoms is obscure. Although the TBI was an acute event with abrupt academic and social sequelae, Emily was not visibly injured, and she maintained many of her verbal skills. Instead of an immediate recognition of deficits, the school and family were left puzzled by Emily's disruptive behavior, academic decline, and personality changes.

Second, it can be difficult to determine whether the presenting symptoms are direct or secondary effects of the brain injury, or a combination of both. The insult to Emily's frontal cortex had a significant cognitive impact, and she is no longer able to achieve to her usual standards. Injury to her prefrontal cortex may also have directly affected her impulse control, executive functioning, social judgment, and capacity to understand and apply abstract concepts.

Resultant academic and interpersonal failures would change how she was seen by her parents, teachers, and classmates, and the failures would change how she saw herself. Unrecognized as suffering from a TBI, Emily was unable to maintain her position among the "strivers" in her family and peer group. Instead, Emily found a fraternity

of "dropouts and malcontents," a group that might have helped her regain a sense of belonging. Emily began to use alcohol and illicit substances at about the same time, which leads to other questions: Did she do so to boost her cognition (e.g., with stimulants), to reduce anxiety (e.g., with cannabis), or primarily to get high? Did she use substances to convince herself that her cognition and personality changes were under her control, or to better fit into an outsider subculture that almost requires substance use?

In other words, what is phenomenon and what is epiphenomenon? Were Emily's striking personality changes the direct result of her TBI, or were these changes dysfunctional responses to the psychosocial stresses engendered by her significant cognitive impairment? Or, perhaps, was there a complex interaction between these changes, accompanied by the increasing stresses and opportunities of adolescence?

It may be difficult to elaborate all of the factors that might have contributed to Emily's current situation, but it is important to identify comorbid conditions that can further exacerbate her cognitive deficits and personality issues. Identification of substance use disorders is important, but it will also be crucial to look for disorders across the DSM-5 spectrum, particularly mood and anxiety disorders. Clarifying such issues will likely be important for the development of an eclectic and flexible treatment for this young woman, as well as for her worried family.

Suggested Readings

Lee H, Wintermark M, Gean AD, et al: Focal lesions in acute mild traumatic brain injury and neurocognitive outcome: CT versus 3T MRI. J Neurotrauma 25(9):1049–1056, 2008

McAllister TW: Mild brain injury, in Textbook of Traumatic Brain Injury, 2nd Edition. Edited by Silver JM, McAllister TW, Yudofsky SC. Washington, DC, American Psychiatric Publishing, 2011, pp 239–264

Ruff RM, Iverson GL, Barth JT, et al: Recommendations for diagnosing a mild traumatic brain injury: a National Academy of Neuropsychology Education paper. Arch Clin Neuropsychol 24(1):3–10, 2009

Silver JM, McAllister TW, Arciniegas DB: Depression and cognitive complaints following mild traumatic brain injury. Am J Psychiatry 166(6):653–661, 2009

Yudofsky SC: Getting help, in Fatal Flaws: Navigating Destructive Relationships With People With Disorders of Personality and Character. Washington, DC, American Psychiatric Publishing, 2005, pp 461–474

Yudofsky SC, Hales RE: Neuropsychiatry: back to the future. J Nerv Ment Dis 200(3):193-196, 2012

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Chapter 18. Personality Disorders

Introduction

John W. Barnhill, M.D.

Personality is the enduring pattern of behavior and inner experience. It underlies how we think, feel, and act and frames how we view ourselves and the people around us. When we think of who we are, we often think of personality as the central defining characteristic.

Psychiatrists and other mental health practitioners spend considerable time thinking about personality and the ways in which dysfunctional personalities cause distress and dysfunction in individuals and in the people around them. Disorders of personality are, in some ways, as complex as humanity, itself full of idiosyncrasies, half-articulated conflicts, and unknowable complexities.

Like many other complex systems, however, personalities and personality disorders tend to fall into patterns, and, for generations, clinicians and personality researchers from a variety of fields have searched for a holy grail: a nosological system that is both simple to use and sophisticated enough to capture the nuances and paradoxes of human personality.

Traditionally, the field of psychiatry has conceptualized personality disorders categorically, as reflecting distinct clinical syndromes. In another paradigm, personality disorders are conceptualized dimensionally, as dysfunctional variants of human personality traits that exist on a gradient from maladaptive to normal. As part of the DSM-5 development process, a team of personality researchers explored multiple ways to incorporate both paradigms, and as a result created a new hybrid categorical-dimensional model.

After vigorous debate among team members, the DSM-5 text includes the traditional categorical model of personality disorders as well as the new hybrid categorical-dimensional model. It is the traditional categorical perspective that is included in the main body of the text, while the alternative DSM-5 model for personality disorders is described in Section III, "Emerging Measures and Models." This decision means that the 10 DSM-IV personality disorders—and their criteria—remain essentially unchanged. The primary substantive change is that as part of the removal of the axial system, the personality disorders are no longer listed separately from other DSM-5 diagnoses.

To better understand the similarities and differences of the two models, it may be useful to explore how the two DSM-5 diagnostic systems recommend that a clinician assess a patient with, for example, obsessive-compulsive personality disorder (OCPD). From a categorical perspective, the individual would receive a diagnosis of OCPD when certain criteria were met. First, the clinician should identify a persistent, dysfunctional pattern of, for instance, perfectionism at the expense of flexibility. The clinician would then identify at least four of seven specific symptomatic criteria (preoccupation with lists, inability to delegate tasks, stubbornness, etc.) and search for disorders that might be responsible for the same symptoms (and that could lead to either the coding of the other diagnosis only, such as when schizophrenia causes symptoms akin to those found in OCPD, or the coding of both diagnoses, such as when the person also meets criteria for another personality disorder).

The new DSM-5 hybrid model reshapes the 10 DSM-IV personality disorder categories into a roster of six redefined categories (antisocial, avoidant, borderline, narcissistic, obsessive-compulsive, and schizotypal). For each of the six, the hybrid model requires two assessments. The first involves a determination that the individual has significant impairment in at least two of four personality functioning areas: identity, self-direction, empathy, and intimacy. For each of the six personality disorders, these personality specifics differ. For example, to qualify for OCPD, an individual might be found to have significant impairment from a sense of self excessively derived from work (identity) and from rigidity and stubbornness negatively affecting relationships (intimacy).

The new hybrid model then requires an assessment of personality traits that are organized under five broad trait domains. As shown in , these traits and trait domains exist on a spectrum; for example, for one of the five trait domains, antagonism lies on one end of the spectrum and agreeableness on the other. These five broad trait domains are new to many psychiatrists, but they have been rigorously studied for several decades within academic psychology under the rubric of the Five Factor Model, whose personality dimensions include neuroticism, extraversion, agreeableness, conscientiousness, and openness. For each of these personality dimensions, there are

clusters of related personality traits. Applied to a particular person, the Five Factor Model can assign a percentile score for each trait. For example, the theoretical person with OCPD might score in the 95th percentile for conscientiousness and in the 5th percentile for openness. DSM-5 adapted these personality dimensions and traits in order to more specifically focus on psychiatric disorder.

Twenty-five specific pathological personality traits are included under the umbrella of these five negative trait domains. For each of the personality disorders, DSM-5 requires that the individual demonstrate most of the typical personality traits. For example, the patient with OCPD must demonstrate the trait of rigid perfectionism (an aspect of the trait domain of conscientiousness) as well as at least two of the following three traits: perseveration (an aspect of negative affectivity), intimacy avoidance (an aspect of detachment), and restricted affectivity (also an aspect of detachment).

The DSM-5 hybrid model also specifies that specific traits can be recorded even if not recognized as part of a diagnosed personality disorder (e.g., hostility, a trait associated with the trait domain of negative affectivity, could be listed alongside any DSM-5 diagnosis and not be considered just a trait associated with, for instance, antisocial personality disorder).

Both of the DSM-5 models have advantages and disadvantages. The new DSM-5 hybrid model might contribute to a more nuanced understanding of patients, and its approach takes advantage of decades' worth of personality research. Its current complexity is daunting, however, even to seasoned clinicians, and the use of a new system would potentially reduce the usefulness of existing research data within psychiatry.

The traditional categorical paradigm has been critiqued for excessive comorbidity and intradisorder heterogeneity, as well as for the fact that one of the most common personality disorder diagnoses in the past has been "personality disorder not otherwise specified," which is clarified only marginally by the DSM-5 use of "other specified" and "unspecified" personality disorders. On the other hand, the categorical approach is relatively straightforward to use, is familiar from DSM-IV, and follows the categorical structure used throughout the rest of DSM-5. It is also the personality model included in the main body of the DSM-5 text and, as such, remains the American Psychiatric Association's official perspective on personality disorders.

Suggested Readings

MacKinnon RA, Michels R, Buckley PJ: The Psychiatric Interview in Clinical Practice, 2nd Edition. Washington, DC, American Psychiatric Publishing, 2006

Michels R: Diagnosing personality disorders. Am J Psychiatry 169(3):241-243, 2012

Shedler J, Beck A, Fonagy P, et al: Personality disorders in DSM-5. Am J Psychiatry 167(9):1026-1028, 2010

Skodol AE, Bender DS, Oldham JM, et al: Proposed changes in personality and personality disorder assessment and diagnosis for DSM-5, part II: clinical application. Personal Disord 2(1):23–30, 2011

Skodol AE, Clark LA, Bender DS, et al: Proposed changes in personality and personality disorder assessment and diagnosis for DSM-5, part I: description and rationale. Personal Disord 2(1):4–22, 2011

Westen D, Shedler J, Bradley B, DeFife JA: An empirically derived taxonomy for personality diagnosis: bridging science and practice in conceptualizing personality. Am J Psychiatry 169(3):273–284, 2012

Case 18.1Personality Conflicts

Larry J. Siever, M.D., Lauren C. Zaluda, B.A.

Frazier Archer was a 34-year-old single white man who called a mood and personality disorders research program because an ex-friend had once said he was "borderline," and Mr. Archer wanted to learn more about his personality conflicts.

During his diagnostic research interviews, Mr. Archer reported regular, almost daily situations in which he was sure he was being lied to or deceived. He was particularly wary of people in leadership positions and people who had studied psychology and, therefore, had "training to understand the human mind," which they used to manipulate people. Unlike those around him, Mr. Archer believed he did not "drink the Kool-Aid" and was able to detect manipulation and deceit.

Mr. Archer was extremely detail oriented at work, and had trouble delegating and completing tasks. Numerous employers had told him that he focused excessively on rules, lists, and small details, and that he needed to be more friendly. He had held numerous jobs over the years, but he was quick to add, "I've quit as often as I've been fired." During the interview, he defended his behavior, asserting that unlike many people, he understood the value of quality over productivity. Mr. Archer's wariness had contributed to his "bad temper" and emotional "ups and downs." He socialized only "superficially" with a handful of acquaintances and could recall the exact moments when previous "so-called friends and lovers" had betrayed him. He spent most of his time alone.

Mr. Archer denied any significant history of trauma, any current or past problems with substance use, and any history of head trauma or loss of consciousness. He also denied any history of mental health diagnosis or treatment, but reported that he felt he might have a mental health condition that had not yet been diagnosed.

On mental status examination, Mr. Archer appeared well groomed, cooperative, and oriented. His speech varied; at times he would pause thoughtfully prior to answering questions, causing his rate of speech to be somewhat slow. His tone also changed significantly when he discussed situations that had made him angry, and many of his responses were lengthy, digressive, and vague. However, he seemed generally coherent and did not evidence perceptual disorder. His affect was occasionally inappropriate (e.g., smiling while crying) but generally constricted. He reported apathy as to whether he lived or died but did not report any active suicidal ideation or homicidal ideation.

Notably, Mr. Archer became irritated and argumentative with research staff when he was told that although he could receive verbal feedback on his interviews, he could not receive a copy of completed questionnaires and diagnostic tools. He commented that he would document in his personal records that research staff were refusing him the forms.

Diagnoses

- Paranoid personality disorder
- Obsessive-compulsive personality disorder

Discussion

Mr. Archer describes a long-standing, inflexible, dysfunctional pattern of dealing with the world. He demonstrates an enduring pattern of distrust and suspiciousness. He believes that others are exploiting or deceiving him; doubts the loyalty of friends; bears grudges; and recurrently mistrusts the fidelity of sexual partners. This cluster of symptoms qualifies him for DSM-5 paranoid personality disorder (PPD).

A second cluster of personality traits relates to Mr. Archer's preoccupation with perfectionism and control. He is excessively focused on rules, lists, and details. He is inflexible and unable to delegate. In addition to PPD, he has DSM-5 obsessive-compulsive personality disorder (OCPD).

For any of the personality disorders, it is important to exclude the physiological effects of a substance or another medical condition; neither of these appears likely in Mr. Archer, who denied all substance abuse, medical illness, and head injury. Furthermore, his patterns of behavior appear to be enduring and not related to either a major change in life circumstance or another psychiatric disorder.

It is unsurprising that in addition to the PPD and OCPD diagnoses, Mr. Archer meets partial criteria for other personality disorders, including schizotypal, borderline, narcissistic, and avoidant personality disorders. Personality disorders are frequently comorbid, and if a patient meets criteria for more than one disorder, each should be recorded. PPD is especially unlikely to be an isolated diagnosis, in either clinical or research populations. PPD is often comorbid with schizotypal personality disorder and/or other schizophrenia spectrum disorders, a finding attributable to overlapping paranoia-related criteria. In Mr. Archer's case, his emotional instability, anxiety, anger, and arrogance are symptoms often found in a personality cluster that includes borderline personality disorder and narcissistic personality disorder. Because of the relative infrequency of PPD as an "isolated" disorder, current research is pointing toward the possibility that some personality disorders, including PPD, could be consolidated to create more inclusive diagnoses. Paranoia would then be viewed as a specifier or modifier for other disorders. That is not the situation with DSM-5, however, and PPD should continue to be listed as a comorbid condition when criteria are met.

A second interesting diagnostic issue related to PPD is the concern among some clinicians that diagnosing PPD is tantamount to trying to identify an early stage of schizophrenia. There is genetic, neurobiological, epidemiological, and symptomatic evidence that PPD, like schizotypal personality disorder, is related to schizophrenia and lies on the schizophrenia spectrum. However, PPD is not a precursor to schizophrenia, and its symptoms are not indicative of the prodromal phase of schizophrenia. Prodromal schizophrenia is best characterized by early psychotic symptoms, including disorganized thoughts and behavior, whereas the thought patterns in PPD are generally more similar to those of delusional disorder and related thought disorders.

Suggested Readings

Berman ME, Fallon AE, Coccaro EF: The relationship between personality psychopathology and aggressive behavior in research volunteers. J Abnorm Psychol 107(4):651–658, 1998

Bernstein D, Useda D, Siever L: Paranoid personality disorder, in The DSM-IV Personality Disorders. Edited by Livesley WJ. New York, Guilford, 1995, pp 45–57

Kendler KS: Diagnostic approaches to schizotypal personality disorder: a historical perspective. Schizophr Bull 11(4):538–553, 1985

Kendler KS, Neale MC, Walsh D: Evaluating the spectrum concept of schizophrenia in the Roscommon Family Study. Am J Psychiatry 152(5):749–754, 1995

Siever LJ, Davis KL: The pathophysiology of schizophrenia disorders: perspectives from the spectrum. Am J Psychiatry 161(3):398–413, 2004

Siever LJ, Koenigsberg HW, Harvey P, et al: Cognitive and brain function in schizotypal personality disorder. Schizophr Res 54(1–2):157–167, 2002

Thaker GK, Ross DE, Cassady SL, et al: Saccadic eye movement abnormalities in relatives of patients with schizophrenia. Schizophr Res 45(3):235–244, 2000

Triebwasser J, Chemerinski E, Roussos P, Siever L: Paranoid personality disorder. J Pers Disord August 28, 2012

Zimmerman M, Chelminski I, Young D: The frequency of personality disorders in psychiatric patients. Psychiatr Clin North Am 31(3):405–420, 2008

Case 18.20ddly Isolated

Salman Akhtar, M.D.

Grzegorz Buchalski was an 87-year-old white man who was brought to the psychiatric emergency room (ER) by paramedics after they had been called to his apartment by neighbors when they noticed an odd smell. Apparently, his 90-year-old sister had died some days earlier after a lengthy illness. Mr. Buchalski had delayed reporting her death for several reasons. He had become increasingly disorganized as his sister's health had worsened, and he was worried that his landlord would use the apartment's condition as a pretext for eviction. He had tried to clean up, but his attempts consisted mainly of moving items from one place to another. He said he was about to call for help when the police and paramedics showed up.

In the ER, Mr. Buchalski recognized that his actions were odd and that he should have called for help sooner. At times, he became tearful when discussing the situation and his sister's death; at other times, he seemed aloof, speaking about these in a calm, factual way. He also wanted to clarify that his apartment had indeed been a mess but that much of the apparent mess was actually his large collection of articles on bioluminescence, a topic he had been researching for decades.

A licensed plumber, electrician, and locksmith, Mr. Buchalski had worked until age 65. He described his late sister as having been always "a little strange." She had never worked and had been married once, briefly. Aside from the

several-month marriage, she and Mr. Buchalski had lived in the family's two-bedroom Manhattan apartment their entire lives. Neither of them had ever seen a psychiatrist.

When questioned, Mr. Buchalski stated that he had never had a romantic or sexual relationship and had never had many friends or social contacts outside his family. He explained that he had been poor and Polish and had had to work all the time. He had taken night classes to better understand "the strange world we live in," and he said his intellectual interests were what he found most gratifying. He said he had been upset as he realized that his sister was dying, but he would call it "numb" rather than depressed. He also denied any history of manic or psychotic symptoms. After an hour with the psychiatric trainee, Mr. Buchalski confided that he hoped the medical school might be interested in some of his papers after his death. He said he believed that bioluminescent and genetic technologies were on the verge of a breakthrough that might allow the skin of animals and then humans to glow in subtle colors that would allow people to more directly recognize emotions. He had written the notes for such technology, but they had grown into a "way-too-long science fiction novel with lots of footnotes."

On examination, Mr. Buchalski was a thin, elderly man dressed neatly in khakis and button-down shirt. He was meticulous and much preferred to discuss his interests in science than his own story. He made appropriate eye contact and had a polite, pleasant demeanor. His speech was coherent and goal directed. His mood was "fine," and his affect was appropriate though perhaps unusually cheerful under the circumstances. He denied all symptoms of psychosis, depression, and mania. Aside from his comments about bioluminescence, he said nothing that sounded delusional. He was cognitively intact, and his insight and judgment were considered generally good, although historically impaired in regard to his delay in calling the police about his sister.

Diagnosis

Schizoid personality disorder

Discussion

Mr. Buchalski's aloof, taciturn, and asexual lifestyle certainly fit the diagnostic criteria for schizoid personality disorder; his explanation that he has been friendless because he is Polish and poor is a weak rationalization for his psychosocial deficits. The eccentricity of his interest in bioluminescence, the exaggerated estimation of the value of his "papers," and the fact that he has lived pretty much all his life in the family's residence with his sister give further evidence of his inward preoccupation and lack of social engagement. The striking poverty of his emotional response at his sister's passing away and his failure to make any sort of funeral arrangements are confirmatory of a flattened affective life and weak ego skills. The fact that he is cognitively intact rules out a gradually occurring, dementing etiology for his withdrawal and "confirms" the diagnosis of schizoid personality disorder.

Such a diagnosis has a long history in psychiatry and psychoanalysis. In psychiatry, its origins go back to Eugen Bleuler, who coined the term *schizoid* in 1908 to describe a natural component of personality that pulled one's attention toward one's inner life and away from the external world. He labeled a morbid exaggeration of this tendency as "schizoid personality." Such individuals were described as quiet, suspicious, and "comfortably dull." Bleuler's description was elaborated upon over the next century, and many features were added to it. These included solitary lifestyle, love of books, lack of athleticism, tendency toward autistic thinking, poorly developed sexuality, and covert but intense sensitivity to others' emotional responses. This last feature, however, got dropped from the more recent portrayals of schizoid personality, including the ones in DSM-III and DSM-IV. Despite the reservations of many investigators (e.g., Otto Kernberg, John Livesley, and myself), "lacking desire for close relationships" became a prime criterion for the schizoid diagnosis. Among other factors that were emphasized were asexuality, indifference to praise or criticism, anhedonia, and emotional coldness. The hypersensitivity criterion and the ostensible link to schizophrenia were assigned, respectively, to the categories of "avoidant" and "schizotypal" personality disorders.

Within psychoanalysis, the schizoid condition was best described by W. R. D. Fairbairn and Harry Guntrip. According to them, intense sensitivity to both love and rejection and a propensity to readily withdraw from interpersonal relatedness lay at the core of schizoid pathology. The individual thus afflicted oscillated between wanting closeness and dreading it; feared the vigor of his or her own needs and their impact on others; and was attracted to literary and artistic activities because these were avenues of self-expression without direct human contact. Schizoid personality evolved from one or more of the following scenarios: 1) tantalizing refusal by early caretakers that aroused frightening amounts of emotional hunger; 2) chronic parental rejection, which resulted in compliant apathy and lifelessness; and 3) sustained neglect by parents, which led to retreat into the fantasy world.

The absence of developmental history and of any data about Mr. Buchalski's childhood weakens a psychodynamic understanding of Mr. Buchalski's schizoid personality. However, developmental history is not a required criterion for

a descriptive diagnosis; this criterion is primarily utilized by psychodynamically oriented psychiatrists. All in all, the diagnosis of schizoid personality disorder seems reasonable for Mr. Buchalski, although some might argue in favor of a schizotypal personality disorder diagnosis given the oddity of his interests. If further exploration yields information that qualifies this patient for both personality disorders, then both should be recorded.

In regard to other comorbidities, the most likely appears to be hoarding disorder, a diagnosis new to DSM-5. Mr. Buchalski indicates that he delayed calling the police after his sister died because he was worried that his landlord would use the condition of the apartment as a pretext for eviction. He describes a large collection of bioluminescence papers, for example, a statement that could mean a 2-foot-tall stack of manuscripts or an apartment crammed to the ceilings with decades' worth of newspapers, magazines, and scribbled notes, saved because of their potential usefulness. Clarifying the presence of this (or any other) comorbid condition would be crucial to the development of a treatment plan that tries to maximize the likelihood of independent happiness for this patient.

Suggested Readings

Akhtar S: Schizoid personality disorder: a synthesis of developmental, dynamic, and descriptive features. Am J Psychother 41(4):499–518, 1987

Livesley WJ, West M, Tanney A: A historical comment on DSM-III schizoid and avoidant personality disorders. Am J Psychiatry 142(11):1344–1347, 1985

Triebwasser J, Chemerinski E, Roussos P, Siever. Schizoid personality disorder. J Pers Disord 26(6):919-926, 2012

Case 18.3Worried and Oddly Preoccupied

Kristin Cadenhead, M.D.

Henry, a 19-year-old college sophomore, was referred to the student health center by a teaching assistant who noticed that he appeared odd, worried, and preoccupied and that his lab notebook was filled with bizarrely threatening drawings.

Henry appeared on time for the psychiatric consultation. Although suspicious about the reason for the referral, he explained that he generally "followed orders" and would do what he was asked. He agreed that he had been suspicious of some of his classmates, believing they were undermining his abilities. He said they were telling his instructors that he was "a weird guy" and that they did not want him as a lab partner. The referral to the psychiatrist was, he said, confirmation of his perception.

Henry described how he had seen two students "flip a coin" over whether he was gay or straight. Coins, he asserted, could often predict the future. He had once flipped a coin and "heads" had predicted his mother's illness. He believed his thoughts often came true.

Henry had transferred to this out-of-town university after an initial year at his local community college. The transfer was his parents' idea, he said, and was part of their agenda to get him to be like everyone else and go to parties and hang out with girls. He said all such behavior was a waste of time. Although they had tried to push him into moving into the dorms, he had refused, and instead lived by himself in an off-campus apartment.

With Henry's permission, his mother was called for collateral information. She said Henry had been quiet, shy, and reserved since childhood. He had never had close friends, had never dated, and had denied wanting to have friends. He acknowledged feeling depressed and anxious at times, but these feelings did not improve when he was around other people. He was teased by other kids and would come home upset. His mother cried while explaining that she always felt bad for him because he never really "fit in," and that she and her husband had tried to coach him for years without success. She wondered how a person could function without any social life.

She added that ghosts, telepathy, and witchcraft had fascinated Henry since junior high school. He had long thought that he could change the outcome of events like earthquakes and hurricanes by thinking about them. He had consistently denied substance abuse, and two drug screens had been negative in the prior 2 years. She

mentioned that her grandfather had died in an "insane asylum" many years before Henry was born, but she did not know his diagnosis.

On examination, Henry was tall, thin, and dressed in jeans and a T-shirt. He was alert and wary and, although nonspontaneous, he answered questions directly. He denied feeling depressed or confused. Henry denied having any suicidal thoughts, plans, or attempts. He denied having any auditory or visual hallucinations, panic attacks, obsessions, compulsions, or phobias. His intellectual skills seemed above average, and his Mini-Mental State Examination score was 30 out of 30.

Diagnoses

- Schizotypal personality disorder
- Paranoid personality disorder

Discussion

Henry presents with a pattern of social and interpersonal deficits accompanied by eccentricities and cognitive distortions. These include delusional-like symptoms (magical thinking, suspiciousness, ideas of reference, grandiosity), eccentric interests, evidence of withdrawal (few friends, avoidance of social contact), and restricted affect (emotional coldness). Therefore, Henry appears to meet criteria for DSM-5 schizotypal personality disorder.

Henry also suspects that others are undermining him, reads hidden meaning into benign activities, bears grudges, and is overly sensitive to perceived attacks on his character. In addition to schizotypal personality disorder, he meets criteria for paranoid personality disorder. If an individual meets criteria for two personality disorders—as is often the case—both should be recorded.

Henry, however, is only 19 years old, and a personality disorder diagnosis should be made only after exploring other diagnoses that could produce similar symptoms. For example, Henry's deficits in social communication and interaction could be consistent with a diagnosis of autism spectrum disorder (ASD) without intellectual impairment. It is possible that he had unreported symptoms beyond "shyness" in the early developmental period, and, as was reported about Henry, children with ASD commonly undergo schoolyard teasing. He and his mother do not, however, report the sorts of restricted, repetitive patterns of behavior, interests, or activities that are also a hallmark of ASD. Without these, Henry would not be diagnosed on the autism spectrum.

Henry also may have a psychiatric disorder that develops in young adulthood, and he is at the peak age for the onset of depressive, bipolar, and anxiety disorders. Any of these can exacerbate baseline personality traits and make them appear to be disorders, but Henry does not appear to have significant depressive, manic, or anxiety symptoms.

More likely in this case would be a diagnosis on the schizophrenia spectrum. For Henry to have an actual schizophrenia diagnosis, however, he would need to have two or more of the following five criteria: delusions, hallucinations, disorganized speech, grossly disorganized or catatonic behavior, and negative symptoms. Because he denies hallucinations and appears to be logical and not to have either odd behavior or negative symptoms, he does not have schizophrenia. Instead, he may have delusions—and it would be useful to clarify the extent to which he has fixed, false beliefs about predicting and affecting the future—but his beliefs seem more bizarre than those typically seen in delusional disorder.

Although Henry currently may best fit the two personality disorder diagnoses listed above, he may go on to develop a more explicitly psychotic disorder. Psychiatric clinicians and researchers are particularly interested in distinguishing individuals who present as unusual as teenagers and are likely to go on to develop a more disabling schizophrenia from those who present similarly but will not go on to develop a major psychiatric disorder. Although the current ability to predict schizophrenia is not robust, early intervention could substantially reduce the psychological suffering and the long-term functional consequences. To that end, DSM-5 Section III includes attenuated psychosis syndrome as one of the conditions for further study. Attenuated psychosis syndrome focuses on subsyndromal symptoms, including impaired insight and functionality, in an effort to clarify which patients are in the process of a decline into schizophrenia and which patients are demonstrating the beginnings of a more crystallized personality disorder.

Suggested Readings

Addington J, Cornblatt BA, Cadenhead KS, et al: At clinical high risk for psychosis: outcome for nonconverters. Am J Psychiatry 168(8):800–805, 2011

Ahmed AO, Green BA, Goodrum NM, et al: Does a latent class underlie schizotypal personality disorder? Implications for schizophrenia. J Abnorm Psychol 122(2):475–491, 2013

Fisher JE, Heller W, Miller GA: Neuropsychological differentiation of adaptive creativity and schizotypal cognition. Pers Individ Dif 54(1):70–75, 2013

Case 18.4Unfairness

Charles L. Scott, M.D.

Ike Crocker was a 32-year-old man referred for a mental health evaluation by the human resources department of a large construction business that had been his employer for 2 weeks. At his initial job interview, Mr. Crocker presented as very motivated and provided two carpentry school certifications that indicated a high level of skill and training. Since his employment began, his supervisors had noted frequent arguments, absenteeism, poor workmanship, and multiple errors that might have been dangerous. When confronted, he was reportedly dismissive, indicating that the problem was "cheap wood" and "bad management" and added that if someone got hurt, "it's because of their own stupidity."

When the head of human resources met with him to discuss termination, Mr. Crocker quickly pointed out that he had both attention-deficit/hyperactivity disorder (ADHD) and bipolar disorder. He said that if not granted an accommodation under the Americans with Disabilities Act, he would sue. He demanded a psychiatric evaluation.

During the mental health evaluation, Mr. Crocker focused on unfairness at the company and on how he was "a hell of a better carpenter than anyone there could ever be." He claimed that his two marriages had ended because of jealousy. He said that his wives were "always thinking I was with other women," which is why "they both lied to judges and got restraining orders saying I'd hit them." As "payback for the jail time," he refused to pay child support for his two children. He had no interest in seeing either of his two boys because they were "little liars" like their mothers.

Mr. Crocker said he "must have been smart" because he had been able to make Cs in school despite showing up only half the time. He spent time in juvenile hall at age 14 for stealing "kid stuff, like tennis shoes and wallets that were practically empty." He left school at age 15 after being "framed for stealing a car" by his principal. Mr. Crocker pointed out these historical facts as evidence that he was able to overcome injustice and adversity.

In regard to substance use, Mr. Crocker said he smoked marijuana as a teenager and started drinking alcohol on a "regular basis" after he first got married at age 22. He denied that use of either substance was a problem.

Mr. Crocker concluded the interview by demanding a note from the examiner that he had "bipolar" and "ADHD." He said that he was "bipolar" because he had "ups and downs" and got "mad real fast." Mr. Crocker denied other symptoms of mania. He said he got down when disappointed, but he had "a short memory" and "could get out of a funk pretty quick." Mr. Crocker reported no difficulties in his sleep, mood, or appetite. He learned about ADHD because "both of my boys got it." He concluded the interview with a request for medications, adding that the only ones that worked were stimulants ("any of them") and a specific short-acting benzodiazepine.

On mental status examination, Mr. Crocker was a casually dressed white man who made reasonable eye contact and was without abnormal movements. His speech was coherent, goal directed, and of normal rate. There was no evidence of any thought disorder or hallucinations. He was preoccupied with blaming others, but these comments appeared to represent overvalued ideas rather than delusions. He was cognitively intact. His insight into his situation was poor.

The head of human resources did a background check during the course of the psychiatric evaluation. Phone calls revealed that Mr. Crocker had been expelled from two carpentry training programs and that both his graduation certificates had been falsified. He had been fired from his job at one local construction company after a fistfight

with his supervisor and from another job after abruptly leaving a job site. A quick review of their records indicated that he had provided them with the same false documentation.

Diagnosis

Antisocial personality disorder

Discussion

Mr. Crocker has a pervasive pattern of disregard for and violation of the rights of others, as indicated by many different actions. He has been arrested twice for domestic violence—once each from two separate marriages—and has spent time in jail. Mr. Crocker has falsified his carpentry credentials and provides ample evidence of repeated fights and irritability, both at work and within his relationships. He demonstrates little or no regard for how his actions affect the safety of his coworkers. He refuses to see his young sons or pay child support, because they are "little liars." He exhibits no remorse for how his actions negatively affect his family, coworkers, or employers. He routinely quits jobs and fails to plan ahead for his next employment. He meets all seven of the symptomatic criteria for DSM-5 antisocial personality disorder (APD).

The diagnosis of APD cannot be made until age 18, but it does require evidence for conduct disorder before age 15. Mr. Crocker's history indicates a history of truancy, adjudication for theft at age 14, and expulsion from school at age 15 for car theft.

At the end of the evaluation, Mr. Crocker requests two potentially addictive medications. He smoked marijuana in high school and may have begun to drink alcohol heavily in his 20s. Although it might be difficult to elicit an honest account of his substance use, Mr. Crocker may indeed have a comorbid substance use disorder. Such a diagnosis would not affect his diagnosis of APD, however, because his antisocial behavior predates his reported use of substances. In addition, his antisocial attitudes and behaviors are manifest in multiple settings and are not simply a result of his substance abuse (e.g., stealing to pay for his drugs).

Mr. Crocker's claim that he has ADHD would require evidence that he had some hyperactive-impulsive or inattentive symptoms that caused impairment before age 12 years. Although ADHD could be a comorbid condition and could account for some of his impulsivity, it would not account for his wide-ranging antisocial behavior.

The APD diagnosis also requires that the behavior not occur only during the course of bipolar disorder or schizophrenia. Although Mr. Crocker states that he has bipolar disorder, he provides no evidence that he has ever been manic (or schizophrenic).

Mr. Crocker's interpersonal style is marked by callous disregard for the feelings of others and an arrogant selfappraisal. Such qualities can be found in other personality disorders, such as narcissistic personality disorder, but they are also common in APD. Although comorbidity is not uncommon, individuals with narcissistic personality disorder do not exhibit the same levels of impulsivity, aggression, and deceit as are present in APD. Individuals with histrionic personality disorder or borderline personality disorder may be manipulative or impulsive, but their behaviors are not characteristically antisocial. Individuals with paranoid personality disorder may demonstrate antisocial behaviors, but their actions tend to stem from a paranoid desire for revenge rather than a desire for personal gain. Finally, people with intermittent explosive disorder also get into fights, but they lack the many exploitive traits that are a pervasive part of APD.

Suggested Readings

Edwards DW, Scott CL, Yarvis RM, et al: Impulsiveness, impulsive aggression, personality disorder, and spousal violence. Violence Vict 18(1):3–14, 2003

Wygant DB, Sellbom M: Viewing psychopathy from the perspective of the Personality Psychopathology Five model: implications for DSM-5. J Pers Disord 26(5):717–726, 2012

Case 18.5Fragile and Angry

Frank Yeomans, M.D., Ph.D., Otto Kernberg, M.D.

Juanita Delgado, a single, unemployed Hispanic woman, sought therapy at age 33 for treatment of depressed mood, chronic suicidal thoughts, social isolation, and poor personal hygiene. She had spent the prior 6 months isolated in her apartment, lying in bed, eating junk food, watching television, and doing more online shopping than she could afford. Multiple treatments had yielded little effect.

Ms. Delgado was the middle of three children in an upper-middle-class immigrant family in which the father reportedly valued professional achievement over all else. She felt isolated throughout her school years and experienced recurrent periods of depressed mood. Within her family, she was known for angry outbursts. She had done well academically in high school but dropped out of college because of frustrations with a roommate and a professor. She attempted a series of internships and entry-level jobs with the expectation that she would return to college, but she kept quitting because "bosses are idiots. They come across as great and they all turn out to be twisted." These "traumas" always left her feeling terrible about herself ("I can't even succeed as a clerk?") and angry at her bosses ("I could run the place and probably will"). She had dated men when she was younger but never let them get close physically because she become too anxious when any intimacy began to develop.

Ms. Delgado's history included cutting herself superficially on a number of occasions, along with persistent thoughts that she would be better off dead. She said that she was generally "down and depressed" but that she had had dozens of 1- to 2-day "manias" in which she was energized and edgy and pulled all-nighters. She tended to "crash" the next day and sleep for 12 hours.

She had been in psychiatric treatment since age 17 and had been psychiatrically hospitalized three times after overdoses. Treatments had consisted primarily of medication: mood stabilizers, low-dose neuroleptics, and antidepressants that had been prescribed in various combinations in the context of supportive psychotherapy.

During the interview, she was a casually groomed and somewhat unkempt woman who was cooperative, coherent, and goal directed. She was generally dysphoric with a constricted affect but did smile appropriately several times. She described shame at her poor performance but also believed she was "on Earth to do something great." She described her father as a spectacular success, but he was also a "Machiavellian loser who was always trying to manipulate people." She described quitting jobs because people were disrespectful. For example, she said that when she worked as a clerk at a department store, people would often be rude or unappreciative ("and I was there only in preparation to become a buyer; it was ridiculous"). Toward the end of the initial session, she became angry with the interviewer after he glanced at the clock ("Are you bored already?"). She said she knew people in the neighborhood, but most of them had "become frauds or losers." There were a few people from school who were "Facebook friends," doing amazing things all over the world. Although she had not seen them in years, she intended to "meet up with them if they ever come back to town."

Diagnosis

Borderline personality disorder

Discussion

Ms. Delgado presents with affective instability, difficulty controlling her anger, unstable interpersonal relationships, an identity disturbance, self-mutilating behavior, feelings of emptiness, and transient, stress-related paranoia. She meets criteria, therefore, for DSM-5 borderline personality disorder (BPD).

Individuals with BPD often present with depressive and/or bipolar symptoms, and Ms. Delgado is no exception. Her presenting symptoms include a predominantly depressed mood, diminished interests, overeating, anergia, and chronic suicidal ideation. Disabling, persistent for 6 months, and occurring in the absence of substance use or a medical disorder, Ms. Delgado's symptoms also meet criteria for a DSM-5 major depression. Such comorbidity between BPD and depression is common. It is interesting to note that Ms. Delgado's preoccupations are accusatory, whereas the typical preoccupation of a depressed person without a personality disorder is guilty and self-accusatory. It would be worth exploring the possibility that Ms. Delgado's depressive symptoms are more episodic and reactive than she initially reports. It also seems possible that she qualifies for lifelong depression, which would indicate dysthymic disorder but would also point toward a personality disorder.

Ms. Delgado reports "manias" that are not typical of someone with bipolar disorder. For example, she describes having had dozens of 1- to 2-day episodes in which she is energized and edgy, followed by a "crash" and 12 hours of sleep. These do not conform to the criteria for bipolar I or bipolar II disorder, in regard to either symptoms or duration. The emotional instability and affect storms of BPD can look very much like a manic or hypomanic episode, which can lead to underdiagnosis of BPD. Even in the presence of a significant manic episode, the clinician

should explore such historical variables as affective stability, maturity of interpersonal relationships, and stability of work, relationships, and self-assessment. If problems are found, a BPD diagnosis is likely.

Criteria for DSM-5 personality disorders remain unchanged from the previous classification system. However, the alternative model for personality disorders, presented in DSM-5 Section III, suggests a more dimensional approach, one in which the interviewer would explicitly consider personality functioning. The appendix outlines five different trait domains that exist on a continuum. "Emotional stability" is contrasted with "negative affectivity," for example, whereas "antagonism" is at the other end of the spectrum from "agreeableness" (see Table 18–1 in the introduction to this chapter).

This dimensional view of personality is compatible with Kernberg's long-standing model of borderline personality organization (BPO). In addition to meeting the DSM-5 criteria for BPD, Ms. Delgado fits the criteria for BPO —a psychological structure conceived as being characterized by 1) lack of a clear and coherent sense of self and others (identity diffusion), 2) frequent use of primitive defense mechanisms based on splitting, and 3) intact but fragile reality testing. The more integrated and realistically complex the individual's representations of self and others are, the more the individual is able to modulate and control his or her emotional states and successfully interact with others.

Ms. Delgado demonstrates identity diffusion in her contradictory views of herself (as both superior and inadequate) and others (her father as both spectacular and a "Machiavellian loser"). Her defensive style is characterized by consistent projection of her hostile feelings and perceiving the hostility as coming from others. The fragility of her reality testing, seen in the slights she felt at work, has led to chronic occupational dysfunction.

Because people with personality disorders often do not present an interpersonal narrative that conforms to the story that would be told by others, it is important to attend to the patient's behavior in relation to the therapist. With Ms. Delgado, evidence of her fragility is seen in her sense that the therapist's glancing at the clock meant he did not like her and wanted to get rid of her.

Suicidal tendencies are part of both depression and BPD. In general, acute or chronic parasuicidal behavior is typical of severe personality disorders. Furthermore, suicidality can develop abruptly during crises among a variety of patients, but it is especially prevalent in people—like Ms. Delgado—with a fragile sense of both the world and themselves.

Suggested Readings

Clarkin JF, Yeomans FE, Kernberg OF: Psychotherapy for Borderline Personality: Focusing on Object Relations. Washington, DC, American Psychiatric Publishing, 2006

Kernberg OF, Yeomans FE: Borderline personality disorder, bipolar disorder, depression, attention deficit/hyperactivity disorder, and narcissistic personality disorder: practical differential diagnosis. Bull Menninger Clin 77(1):1–22, 2013

Oldham JM, Skodol AE, Bender DS (eds): American Psychiatric Publishing Textbook of Personality Disorders, 2nd Edition. Washington, DC, American Psychiatric Publishing (in press).

Tusiani B, Tusiani PA, Tusiani-Eng P: Remnants of a Life on Paper. New York, Baroque Press, 2013

Case 18.6Painful Suicidality

Elizabeth L. Auchincloss, M.D.

Karmen Fuentes was a 50-year-old married Hispanic woman who presented to the psychiatric emergency room (ER) at the urging of her outpatient psychiatrist after telling him that she had been thinking about overdosing on Advil.

In the ER, Ms. Fuentes explained that her back had been "killing" her since she fell several days earlier at the family-owned grocery store where she had worked for many years. The fall had left her downcast and depressed, although she denied other depressive symptoms aside from a poor mood. She spoke at length about the fall and about how it reminded her of a fall that she had sustained a few years earlier. At that time, she had gone to see a neurosurgeon, who told her to rest and take nonsteroidal anti-inflammatory drugs. She described feeling "abandoned and not cared about" by him. The pain had diminished her ability to exercise, and she was upset that she had gained weight. While relating the events surrounding the fall, Ms. Fuentes began to cry.

When asked about her suicidal comments, she said they were "no big deal." She reported that they were "just a threat" aimed at her husband to "teach him a lesson" because "he has no compassion for me" and had not been supportive since the fall. She insisted her comments about overdosing did not have other meaning. When her ER interviewer expressed concern about the possibility that she would kill herself, she exclaimed with a smile, "Oh wow, I didn't realize it's so serious. I guess I shouldn't do that again." She then shrugged and laughed. She went on to talk about how "nice and sweet" it was that so many doctors and social workers wanted to hear her story, calling many of them by their first names. She was also somewhat flirtatious with her male resident interviewer, who had mentioned that she was the "best-dressed woman in the ER."

According to her outpatient psychiatrist of 3 years, she had never before expressed suicidal ideation until this week, and he would be unable to check in on her until after he left on vacation the next day. Ms. Fuentes's husband reported that she talked about suicide "like other people complain about the weather. She's just trying to get me worried, but it doesn't work anymore." He said he would never have suggested she go to the ER and thought the psychiatrist had overreacted.

Ms. Fuentes initially sought outpatient psychotherapy at age 47 because she was feeling depressed and unsupported by her husband. During 3 years of outpatient treatment, Ms. Fuentes had been prescribed adequate trials of sertraline, escitalopram, fluoxetine, and paroxetine. None seemed to help.

Ms. Fuentes described being "an early bloomer." She became sexually active with older men when she was in high school. She said dating had been the most fun thing she had ever done and that she missed seeing men "jump through hoops" to sleep with her. She lived with her 73-year-old husband. Her 25-year-old son lived nearby with his wife and young son. She described her husband as a "very famous" musician. She said that he had never helped around the house or with child-rearing and did not appreciate how much work she put into taking care of their son and grandson.

Diagnosis

Histrionic personality disorder

Discussion

Ms. Fuentes presents to the ER with depression and suicidality, but neither of these symptoms is as prominent as her ongoing pattern of excessive emotionality and attention seeking. Her behavior with the ER staff and perhaps the fall itself appear to serve a need for attention and care, and both Ms. Fuentes and her husband describe her chronic suicidal threats as efforts to punish and elicit concern. For example, the ER visit was precipitated by Ms. Fuentes making her first suicidal threat in treatment just as her doctor was going on vacation, suggesting that she might have felt left out and abandoned.

Ms. Fuentes's emotions shift rapidly between tearful and cheerful, but she consistently dismisses the actual threat of suicide. Instead, Ms. Fuentes focuses on her dramatic fall, and on her perception that neither her husband nor her neurosurgeon appears to be interested in her suffering. Throughout her ER visit, she was seductive with her interviewer and unusually friendly with staff, calling many of them by their first names. Even in a busy ER, filled with sick, injured, and presumably unkempt people, Ms. Fuentes maintains her concern about her physical appearance. She implies that her dress, grooming, and weight are centrally important to her sense of self-esteem, and that she continues to pay close attention to their maintenance.

These observations suggest that her suicidality is not part of a major affective disorder. Instead, she has at least six of the eight symptomatic criteria for a DSM-5 diagnosis of histrionic personality disorder (HPD): discomfort when not the center of attention; seductive behavior; intense but shifting and shallow emotionality; the use of

physical appearance to draw attention; self-dramatization and theatricality; and a tendency to consider relationships to be more intimate than they are. While Ms. Fuentes does not show clear evidence of other criteria for HPD, such as impressionistic speech and suggestibility, these may have simply not been included in the case report.

Because patients with HPD often have comorbid somatic symptom disorders, careful attention should be given to evaluating the patient for these disorders. Ms. Fuentes has been episodically preoccupied with physical discomfort, and further evaluation might demonstrate a more pervasive and impairing pattern of physical complaints or concerns. Patients with HPD also have elevated rates of major depressive disorder. Indeed, Ms. Fuentes shows many signs of depressed mood. Furthermore, Ms. Fuentes was referred to the ER because of suicidality. Although she and her husband minimize the seriousness of these threats, HPD does appear to be associated with an elevated risk of suicide attempts. Many of these attempts will be sublethal, but a variety of suicidal "gestures" can lead to serious harm and even semi-accidental death. Clinical work with Ms. Fuentes will involve balancing the recognition that her suicidal ideation serves the need for attention with awareness that it may also lead to actual self-harm.

As in all psychiatric assessments, clinicians must consider whether the personality issues are a problem before making a diagnosis. Norms for emotional expressiveness, interpersonal behavior, and style of dress vary significantly between cultures, genders, and age groups, and it is important not to gratuitously pathologize variations that are not accompanied by dysfunction and distress. As an example of potential bias, women are more frequently diagnosed with HPD despite population studies that indicate that HPD is equally common in men and women.

HPD is often comorbid with other personality disorders. Although Ms. Fuentes has traits that are common to other personality disorders, she does not appear to have a second diagnosis. For example, Ms. Fuentes's suicidal threats and dramatic presentation might lead the examiner to consider borderline personality disorder. Ms. Fuentes does not, however, show the marked instability in interpersonal relationships, extreme self-destructiveness, angry disruptions in interpersonal relationships, and chronic feelings of emptiness that are common in borderline personality disorder. While Ms. Fuentes complains of not receiving the care that she would like, she does not manifest the fear of separation and the sort of submissive and clingy behavior that are typical of dependent personality disorder. Similarly, although she appears to have an excessive need for admiration, she has not demonstrated the lack of empathy that is a cardinal feature of narcissistic personality disorder. Finally, while she demonstrates some manipulative behavior, as do people with antisocial personality disorder, hers is motivated by a desire for attention rather than some sort of profit.

Suggested Readings

Gabbard GO: Cluster B personality disorders: hysterical and histrionic, in Psychodynamic Psychiatry in Clinical Practice, 4th Edition. Washington, DC, American Psychiatric Publishing, 2005, pp 541–570

Hales RE, Yudofsky SC, Roberts LW (eds): The American Psychiatric Publishing Textbook of Psychiatry, 6th Edition. Washington, DC, American Psychiatric Publishing, 2014

MacKinnon RA, Michels R, Buckley PJ: The histrionic patient, in The Psychiatric Interview in Clinical Practice, 2nd Edition. Washington, DC, American Psychiatric Publishing, 2006, pp 137–176

Case 18.7Dissatisfaction

Robert Michels, M.D.

Larry Goranov was a 57-year-old single unemployed white man who was asking for a review of his treatment at the psychiatric clinic. He had been in weekly psychotherapy for 7 years with a diagnosis of dysthymic disorder. He complained that the treatment had been of little help and he wanted to make sure that the doctors were on the right track.

Mr. Goranov reported a long-standing history of low-grade depressed mood and decreased energy. He had to "drag" himself out of bed every morning and rarely looked forward to anything. He had lost his last job 3 years earlier, had broken up with a girlfriend slightly later, and doubted that he would ever work or date again. He was embarrassed that he still lived with his mother, who was in her 80s. He denied any immediate intention or plan to kill himself, but if he did not improve by the time his mother died, he did not see what he would have to live for. He denied disturbances in sleep, appetite, or concentration.

Clinic records indicated that Mr. Goranov had been adherent to adequate trials of fluoxetine, escitalopram, sertraline, duloxetine, venlafaxine, and bupropion, as well as augmentation with quetiapine, aripiprazole, lithium, and levothyroxine. He had some improvement in his mood while taking escitalopram but did not have remission of symptoms. He also had a course of cognitive-behavioral therapy early in his treatment; he had been dismissive of the therapist and treatment, did not do his assigned homework, and appeared to make no effort to use the therapy between sessions. He had never tried psychodynamic psychotherapy.

Mr. Goranov expressed frustration at his lack of improvement, the nature of his treatment, and his specific therapy. He found it "humiliating" that he was forced to see trainees who rotated off his case every year or two. He frequently found that the psychiatry residents were not especially educated, cultured, or sophisticated, and felt they knew less about psychotherapy than he did. He much preferred to work with female therapists, because men were "too competitive and envious."

Mr. Goranov previously worked as an insurance broker. He explained, "It's ridiculous. I was the best broker they had ever seen, but they won't rehire me. I think the problem is that the profession is filled with big egos, and I can't keep my mouth shut about it." After being "blackballed" by insurance agencies, Mr. Goranov did not work for 5 years, until he was hired by an automobile dealer. He said that although it was beneath him to sell cars, he was successful, and "in no time, I was running the place." He quit within a few months after an argument with the owner. Despite encouragement from several therapists, Mr. Goranov had not applied for a job or pursued employment rehabilitation or volunteer work; he strongly viewed these options as beneath him.

Mr. Goranov has "given up on women." He had many partners as a younger man, but he generally found them to be unappreciative and "only in it for the free meals." The psychiatric resident notes indicated that he responded to demonstrations of interest with suspicion. This tendency held true in regard to both women who had tried to befriend him and residents who had taken an interest in his care. Mr. Goranov described himself as someone who had a lot of love to give, but said that the world was full of manipulators. He said he had a few buddies, but his mother was the only one he truly cared about. He enjoyed fine restaurants and "five-star hotels," but he added that he could no longer afford them. He exercised daily and was concerned about maintaining his body. Most of his time was spent at home watching television or reading novels and biographies.

On examination, the patient was neatly groomed, had slicked-back hair, and wore clothing that appeared to be by a hip-hop designer generally favored by men in their 20s. He was coherent, goal directed, and generally cooperative. He said he was sad and angry. His affect was constricted and dismissive. He denied an intention to kill himself but felt hopeless and thought of death fairly often. He was cognitively intact.

Diagnosis

Narcissistic personality disorder

Discussion

When a patient presents to a psychiatrist, symptoms are generally those aspects of psychopathology that are easiest to recognize and to diagnose. Anxiety, depression, obsessions, and phobias are seen similarly by patient and doctor and are central defining characteristics of many disorders. Patients with personality disorders are different. Their problems are often more distressing to others than to the patient, and their symptoms are often vague and may seem secondary to their central issue. What determines the diagnosis or defines the focus of treatment is not the anxiety or depression, for example, but rather who the patient is, the life he or she has chosen to lead, and the pattern of his or her human relationships.

A corollary is that the patient's complaints may be less revealing than the way in which they are made. The consultation interview with most patients consists of collecting information and making observations. The consultation with most patients who have personality disorders requires the creation of a relationship, and then the doctor's experiencing and understanding of that relationship. Countertransference responses can be important diagnostic tools, and the way in which the patient relates to the clinician reflects the template that structures how the patient relates to others. For example, Mr. Goranov's primary complaint is his sad mood. Although he could have a depressive disorder, he seems to lack most of the pertinent DSM-5 criteria for any of the depressive disorders. Instead, his low mood appears to be a response to chronic disappointment. Despite his view of himself as talented and attractive, he is unemployed, underappreciated, and alone. Empty demoralization is a common accompaniment to personality disorder and, as with Mr. Goranov, is often unresponsive to pharmacotherapy.

Further, atypical for most patients with serious depression, he is concerned about maintaining his appearance and his attractiveness to others. His grooming, clothes, and manner reflect his underlying grandiosity, his conviction that he is special and deserving of the appreciation that he has failed to receive.

This story about Mr. Goranov reflects a typical mild to moderate narcissistic personality disorder. Classic features include grandiosity, a conviction that he deserves special treatment, estrangement from others, a strikingly diminished capacity for empathy, and an attitude of arrogant disdain. The depressed affect is clearly present, but it is secondary to his fundamental personality psychopathology.

These patients are difficult to treat. They see their problem as the failure of the world to recognize their true value, and they often slide into depressed, lonely social withdrawal as life progresses. A therapeutic alliance requires making contact with them around their pain, loneliness, and isolation, and working to enhance their pleasure rather than to renounce their claims on others.

Mr. Goranov is a patient. He is not just someone with a social and personal identity who happens to be a patient; being a patient has become central to who he is. Furthermore, he is a dissatisfied patient, and his psychiatrist does not provide him with what he wants or feels entitled to get. In fact, as his story unfolds, it is clear that this is a familiar problem for Mr. Goranov. He is dissatisfied with his friends, his jobs, and his significant others. Like his therapists, they have not been good enough, have failed to recognize his value, and have failed him.

Suggested Readings

Akhtar S: The shy narcissist, in Changing Ideas in a Changing World: The Revolution in Psychoanalysis. Essays in Honour of Arnold Cooper. Edited by Sandler J, Michels R, Fonagy P. London, Karnac, 2000, pp 111–119

Cooper AM: Further developments of the diagnosis of narcissistic personality disorder, in Disorders of Narcissism: Diagnostic, Clinical, and Empirical Implications. Edited by Ronningstam EF. Washington, DC, American Psychiatric Press, 1998, pp 53–74

Ronningstam EF (ed): Disorders of Narcissism: Diagnostic, Clinical, and Empirical Implications. Washington, DC, American Psychiatric Press, 1998

Ronningstam EF, Weinberg I: Narcissistic personality disorder: progress in recognition and treatment. Focus 11(2):167–177, 2013

Case 18.8Shyness

J. Christopher Perry, M.P.H., M.D.

Mathilda Herbert was a 23-year-old woman referred for psychiatric consultation to help her "break out of her shell." She had recently moved to a new city to take classes to become an industrial lab technician and had moved in with an older cousin, who was also a psychotherapist and thought she should "get out and enjoy her youth."

Although she had previously been prescribed medications for anxiety, Ms. Herbert said that her real problem was "shyness." School was difficult because everyone was constantly "criticizing." She avoided being called on in class because she knew she would "say something stupid" and blush and everyone would make fun of her. She avoided speaking up or talking on telephones, worried about how she would sound. She dreaded public speaking.

She was similarly reticent with friends. She said she had always been a people pleaser who preferred to hide her feelings with a cheerful, compliant, attentive demeanor. She had a few friends, whom she described as "warm and lifelong." She felt lonely after her recent move and had not yet met anyone from school or the local community.

She said she had broken up with her first serious boyfriend 2 years earlier. He had initially been "kind and patient" and, through him, she had a social life by proxy. Soon after she moved in with him, however, he turned out to be an "angry alcoholic." She had not dated since that experience.

Ms. Herbert grew up in a metropolitan area with her parents and three older siblings. Her brother was "hyperactive and antisocial" and took up everyone's attention, whereas her sisters were "hypercompetitive and perfect." Her mother was anxiously compliant, "like me." Ms. Herbert's father was a very successful investment manager who often pointed out ways in which his children did not live up to his expectations. He could be supportive but tended to disregard emotional uncertainty in favor of a "tough optimism." Teasing and competition "saturated" the household, and "it didn't help that I was forced to go to the same girls' school where my sisters had been stars and where everyone was rich and catty." She developed a keen sensitivity to criticism and failure.

Her parents divorced during her senior year of high school. Her father married another woman soon thereafter. Although she had planned to attend the same elite university as her two sisters, she chose to attend a local community college at the last minute. She explained that it was good to be away from all the competition, and her mother needed the support.

Ms. Herbert's strengths included excellent work in her major, chemistry, especially after one senior professor took a special interest. Family camping trips had led to a mastery of outdoor skills, and she found that she enjoyed being out in the woods, flexing her independence. She also enjoyed babysitting and volunteering in animal shelters, because kids and animals "appreciate everything you do and aren't mean."

During the evaluation, Ms. Herbert was a well-dressed young woman of short stature who was attentive, coherent, and goal directed. She smiled a lot, especially when talking about things that would have made most people angry. When the psychiatrist offered a trial comment, linking Ms. Herbert's current anxiety to experiences with her father, the patient appeared quietly upset. After several such instances, the psychiatrist worried that any interpretive comments might be taken as criticism and had to check a tendency to avoid sensitive subjects. Explicitly discussing his concerns led both the patient and psychiatrist to relax and allowed the conversation to continue more productively.

Diagnoses

- Avoidant personality disorder
- Social anxiety disorder

Discussion

Ms. Herbert's shyness extends into a persistent social avoidance that reduces her ability to enjoy herself. She underperforms at school, and she seems to have chosen her college (a local community college) and career (lab technician) largely to reduce perceived risk and to avoid anxiety. She feels lonely but is unable to make connections with friends. She is stymied in her efforts to date men. She appears to have two DSM-5 diagnoses that are so often comorbid that they may be differing conceptualizations of similar conditions: avoidant personality disorder (AvPD) and social anxiety disorder (social phobia).

AvPD reflects a persistent pattern of social inhibition, feelings of inadequacy, and hypersensitivity to negative evaluation. It also requires four or more of seven criteria, which Ms. Herbert easily meets. She avoids occupational activities that involve significant interpersonal contact. For most of her life, she has been reluctant to speak up, fearing to draw criticism or ridicule, even from family members. She avoids being the center of attention, is selfdoubting, and blushes easily. She avoids new situations. She is unwilling to get involved with people unless she is certain that she will be liked. These have had a debilitating effect on all aspects of her life.

Like most people with AvPD, Ms. Herbert also qualifies for DSM-5 social anxiety disorder (social phobia). She demonstrates fear of social scrutiny and of being negatively evaluated. Social situations are endured, but barely, and her anxiety is almost always present. She appears shy, selects work where there will be limited social interaction, and prefers to live with family members.

Ms. Herbert describes having these symptoms from a young age. Although shyness is commonly reported in individuals with AvPD and social anxiety disorder, most shy children do not go on to report the sorts of issues prevalent in people with these disorders: diminished school performance, employment, productivity, socioeconomic status, quality of life, and overall well-being.

During the interview, the psychiatrist sensed Ms. Herbert's distress and felt uncharacteristically restricted in what he could ask. In other words, he became aware of a countertransference reaction in which he feared hurting her feelings. After he shared his own concerns that she would feel criticized by his comments, both the psychiatrist and the patient were able to more comfortably explore her history and deepen the therapeutic alliance. A strong alliance helps mitigate distress and shame and increases the likelihood of a more thorough exploration for common comorbidities as well as a smoother transition into treatment.

Suggested Readings

Perry JC: Cluster C personality disorders: avoidant, obsessive-compulsive, and dependent, in Gabbard's Treatments of Psychiatric Disorders, 5th Edition. Edited by Gabbard GO. Washington, DC, American Psychiatric Publishing (in press)

Sanislow CA, Bartolini EE, Zoloth EC: Avoidant personality disorder, in Encyclopedia of Human Behavior, 2nd Edition. Edited by Ramachandran VS. San Diego, CA, Academic Press, 2012, pp 257–266

Case 18.9Lack of Self-Confidence

Raymond Raad, M.D., M.P.H., Paul S. Appelbaum, M.D.

Nate Irvin was a 31-year-old white man who sought outpatient psychiatric services for "lack of self-confidence." He reported lifelong troubles with assertiveness and was specifically upset by having been "stuck" for 2 years at his current "dead-end" job as an administrative assistant. He wished someone would tell him where to go next so that he would not have to face the "burden" of decision. At work, he found it easy to follow his boss's directions but had difficulty making even minor independent decisions. The situation was "depressing," he said, but nothing new.

Mr. Irvin also reported dissatisfaction with his relationships with women. He described a series of several-monthlong relationships over the prior 10 years that ended despite his doing "everything I could." His most recent relationship had been with an opera singer. He reported having gone to several operas and taken singing classes to impress her, even though he did not particularly enjoy music. That relationship had recently ended for unclear reasons. He said his mood and self-confidence were tied to his dating. Being single made him feel desperate, but desperation made it even harder to get a girlfriend. He said he felt trapped by that spiral. Since the latest breakup, he had been quite sad, with frequent crying spells. It was this depression that had prompted him to seek treatment. He denied all other symptoms of depression, including problems with sleep, appetite, energy, suicidality, and ability to enjoy things.

Mr. Irvin initially denied taking any medications, but he eventually revealed that 1 year earlier his primary care physician had begun to prescribe alprazolam 0.5 mg/day for "anxiety." His dose had escalated, and at the time of the evaluation, Mr. Irvin was taking 5 mg/day and getting prescriptions from three different physicians. Cutting back led to anxiety and "the shakes."

Mr. Irvin denied any prior personal or family psychiatric history, including outpatient psychiatric appointments.

After hearing this history, the psychiatrist was concerned about Mr. Irvin's escalating alprazolam use and his chronic difficulties with independence. She thought the most accurate diagnosis was benzodiazepine use disorder comorbid with a personality disorder. However, she was concerned about the negative unintended effects that

these diagnoses might have on the patient, including his employment and insurance coverage, as well as how he would be dealt with by future clinicians. She typed into the electronic medical record a diagnosis of "adjustment disorder with depressed mood." Two weeks later, Mr. Irvin's insurance company asked her his diagnosis, and she gave the same diagnosis.

Diagnoses

- Dependent personality disorder
- Benzodiazepine use disorder

Discussion

Mr. Irvin has an excessive need for someone to take care of him and make decisions for him. He has difficulty making decisions independently and wishes that others would make them for him. He lacks the confidence to initiate projects or do things on his own, he generally feels uncomfortable being alone, and he is reluctant to disagree on even minor matters. He goes to almost desperate lengths to seek and maintain relationships and to obtain support and nurturing from others.

Mr. Irvin, therefore, meets at least six of the eight DSM-5 criteria (only five are required) for dependent personality disorder. To meet the criteria for the diagnosis, these patterns must also fit the general criteria for a personality disorder (i.e., the symptoms must differ from cultural expectations and be enduring, inflexible, pervasive, and associated with distress and/or impairment in functioning). Mr. Irvin's symptoms meet this standard. Furthermore, his symptoms are persistent and debilitating, and lie outside the normal expectations for a healthy adult man of his age.

Many psychiatric diagnoses can intensify dependent personality traits or be comorbid with dependent personality disorder. In this patient, it is especially important to consider a mood disorder, because he presents with "depression" that has recently worsened. Some patients with mood disorders can present with symptoms that mimic personality disorders, so if this patient is in the midst of a major depressive episode, his dependent symptoms may be confined to that episode. Mr. Irvin, however, denies other symptoms of depression and does not meet criteria for any of the depressive disorders.

Notably, Mr. Irvin is using alprazolam. He has been taking the medication in increasing amounts over a longer period of time than was intended. To obtain an adequate supply, he gets prescriptions from three different physicians. He has developed tolerance (resulting in dose escalation) and withdrawal (as demonstrated by anxiety and shakes). Assuming that further exploration would confirm clinically significant impairment or distress, Mr. Irvin meets criteria for a benzodiazepine use disorder. Given his history of use and his tendency not to be entirely transparent, it would be especially important to tactfully explore the possibility that he is using other substances, including alcohol, tobacco, illicit drugs, and prescription drugs such as opioids.

The psychiatrist in this case faces a conflict common in clinical practice. Documentation of patients' diagnoses in clinical charts—and their release to third parties—can sometimes have downstream effects on patients' insurance coverage or disability status and can lead to stigmatization, both within and outside the health care system. Given this reality, psychiatrists can be tempted to record only the least severe of several diagnoses, or sometimes to report inaccurate but presumably less pejorative disorders. In this case, the psychiatrist does both. Although the patient has depressed mood, he does not meet criteria for the adjustment disorder that is recorded by his psychiatrist. He does, however, appear to meet criteria for both dependent personality disorder and benzodiazepine use disorder, but neither of these more serious and potentially more stigmatizing diagnoses is included in the chart or disclosed to the insurer.

When diagnoses are inaccurately recorded in medical charts, ostensibly for the purpose of protecting patients, this may end up causing harm instead. Subsequent clinicians who review the rec-ords may lack critical information regarding patients' presentation and treatment. For example, if Mr. Irvin were to urgently call for a prescription of benzodiazepines, a covering psychiatrist might have no way of knowing from the patient's chart about either the pattern of benzodiazepine abuse or the physiological dependence. As a physician who intends to "do no harm," Mr. Irvin's psychiatrist has tried to shield him from stigma but has instead exposed him to medical risk.

The physician has other responsibilities beyond those to the patient. When the physician and patient agree to accept payment from an insurer, the physician may be obligated to provide to insurers and governmental agencies a reasonable amount of honest clinical information. Lack of disclosure is tantamount to fraud and can be prosecuted. In addition, although being part of the medical profession affords many privileges, it also involves

responsibilities. Diagnostic deceit may seem like an innocuous effort to protect the patient, but the dishonesty negatively affects the reputation of the entire profession, a reputation that is integral to the ability to render treatment to future patients.

Suggested Readings

Appelbaum PS: Privacy in psychiatric treatment: threats and responses. Am J Psychiatry 159(11):1809–1818, 2002

Howe E: Core ethical questions: what do you do when your obligations as a psychiatrist conflict with ethics? Psychiatry 7(5):19–26, 2010

Mullins-Sweatt SN, Bernstein DP, Widiger TA: Retention or deletion of personality disorder diagnoses for DSM-5: an expert consensus approach. J Pers Disord 26(5):689–703, 2012

Case 18.10Relationship Control

Michael F. Walton, M.D.

Ogden Judd and his boyfriend, Peter Kleinman, presented for couples therapy to address escalating conflict around the issue of moving in together. Mr. Kleinman described a several-month-long apartment search that was made "agonizing" by Mr. Judd's rigid work schedule and his "endless" list of apartment demands. They were unable to come to a decision, and eventually they decided to just share Mr. Judd's apartment. As Mr. Kleinman concluded, "Ogden won."

Mr. Judd refused to hire movers for his boyfriend's belongings, insisting on personally packing and taking an inventory of every item in his boyfriend's place. What should have taken 2 days took 1 week. Once the items were transported to Mr. Judd's apartment, Mr. Kleinman began to complain about Mr. Judd's "crazy rules" about where items could be placed on the bookshelf, which direction the hangers in the closet faced, and whether their clothes could be intermingled. Moreover, Mr. Kleinman complained that there was hardly any space for his possessions because Mr. Judd never threw anything away. "I'm terrified of losing something important," added Mr. Judd.

Over the ensuing weeks, arguments broke out nightly as they unpacked boxes and settled in. Making matters worse, Mr. Judd would often come home after 9:00 or 10:00 P.M., because he had a personal rule to always have a blank "to-do" list by the end of the day. Mr. Kleinman would often wake early in the morning to find Mr. Judd grimly organizing shelves or closets or sorting books alphabetically by author. Throughout this process, Mr. Judd appeared to be working hard at everything while enjoying himself less and getting less done. Mr. Kleinman found himself feeling increasingly detached from his boyfriend the longer they lived together.

Mr. Judd denied symptoms of depression and free-floating anxiety. He said that he had never experimented with cigarettes or alcohol, adding, "I wouldn't want to feel like I was out of control." He denied a family history of mental illness. He was raised in a two-parent household and was an above average high school and college student. He was an only child and first shared a room as a college freshman. He described that experience as being difficult due to "conflicting styles—he was a mess and I knew that things should be kept neat." He had moved mid-year into a single dorm room and had not lived with anyone until Mr. Kleinman moved in. Mr. Judd was well liked by his boss, earning recognition as "employee of the month" three times in 2 years. Feedback from colleagues and subordinates was less enthusiastic, indicating that he was overly rigid, perfectionistic, and critical.

On examination, Mr. Judd was a thin man with eyeglasses and gelled hair, sitting on a couch next to his boyfriend. He was meticulously dressed. He was cooperative with the interview and sat quietly while his boyfriend spoke, interrupting on a few occasions to contradict. His speech was normal in rate and tone. His affect was irritable. There was no evidence of depression. He denied specific phobias and did not think he had ever experienced a panic attack. At the end of the consultation, Mr. Judd remarked, "I know I'm difficult, but I really do want this to work out."

Diagnosis

Obsessive-compulsive personality disorder

Discussion

Couples treatment would probably focus on the relationship rather than on either of the two men, but the case report clearly focuses on Mr. Judd's contribution to the difficulties in the relationship. Mr. Judd is viewed as a controlling, perfection-driven, and inflexible "workaholic." He holds on to belongings excessively and finds it difficult to integrate new items into his apartment, spending hours single-handedly organizing books that could otherwise just be placed on a bookshelf. He is driven and unable to delegate, and although those qualities can be adaptive in some circumstances, they are causing him distress and dysfunction in regard to his situation with his boyfriend and with his colleagues at work. Mr. Judd appears to fulfill criteria, therefore, for a DSM-5 diagnosis of obsessive-compulsive personality disorder (OCPD).

OCPD and obsessive-compulsive disorder (OCD) can be comorbid, but the two conditions usually exist separately. The important distinguishing factor is that whereas OCPD is considered a maladaptive pattern of behavior marked by excessive control and inflexibility, OCD is characterized by the presence of true obsessions and compulsions.

There can, however, be significant behavioral overlap between OCD and OCPD. For example, hoarding behaviors can be common to both diagnoses. In OCPD, the cause of the hoarding disorder is the need for order and completeness, and Mr. Judd reports that he is "terrified of losing something important." To compensate for the fact that his apartment is now shared with his boyfriend—and is overfull—Mr. Judd works grimly into the night so that his bookshelves and closet maintain their usual standard of excessive organization. In OCD, the cause of the hoarding tends to be either the avoidance of onerous compulsive rituals or obsessional and often irrational fears of incompleteness, harm, and contamination. The behaviors are typically unwanted and distressing, and are likely to lead to the accumulation of odd debris such as fingernail clippings or rotten food. In hoarding disorder, a new diagnosis in DSM-5, the focus is exclusively on a persistent difficulty discarding or parting with possessions rather than on a need for order or on obsessions and compulsions.

In regard to Mr. Judd, it would be useful to specifically explore whether his hoarding behavior attenuates a specific, particularly distressing or intrusive thought, and to understand the extent of his accumulations. His list-making and arranging may be compulsions and meet criteria for OCD if they are found not only to be accompanied by tension and difficulty relaxing but also to be time-consuming, distressing, overly repetitive, and ritualistic. Although DSM-5 encourages an effort to distinguish between OCPD, OCD, and hoarding disorder, these three disorders can be comorbid with each other.

As discussed in the introduction to this chapter, Section III of DSM-5 outlines an alternative model that includes five personality disorder trait domains (see Table 18–1 in the introduction to this chapter): negative affectivity, detachment, antagonism, disinhibition (vs. conscientiousness), and psychoticism. Several of these factors are pertinent to a diagnosis of OCPD. For example, Mr. Judd's interpersonal style with both his boyfriend and his coworkers appears to be marked by rigid detachment and restricted levels of intimacy. He manifests significant amounts of negative affectivity, as reflected in his grim persistence in continuing tasks past the point of usefulness. Finally, Mr. Judd's compulsivity pervades the entire story, as marked by extreme conscientiousness and rigid perfectionism.

Suggested Readings

Hays P: Determination of the obsessional personality. Am J Psychiatry 129(2):217-219, 1972

Lochner C, Serebro P, van der Merwe L, et al: Comorbid obsessive-compulsive personality disorder in obsessivecompulsive disorder (OCD): a marker of severity. Prog Neuropsychopharmacol Biol Psychiatry 35(4):1087–1092, 2011

Pinto MA, Eisen J, Mancebo M, et al: Obsessive-compulsive personality disorder, in Obsessive-Compulsive Disorder: Subtypes and Spectrum Conditions. Edited by Abramowitz J, McKay D, Taylor S. Oxford, UK, Oxford University Press, 2008, pp 246–270

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Chapter 19. Paraphilic Disorders

Introduction

John W. Barnhill, M.D.

Paraphilias are defined as intense and persistent sexual interests outside of foreplay and genital stimulation with phenotypically normal, consenting adults. A paraphilic *disorder* requires both the presence of a paraphilic urges and the existence of distress, dysfunction, and/or acting on the urges (as described in more detail later in this introduction). The definition of *paraphilia* is broad enough that there are dozens, even hundreds, of identified paraphilias and paraphilic disorders, all of which are replete with ambiguity and controversy, but DSM-5 specifically identifies only eight: voyeuristic, exhibitionistic, frotteuristic, sexual masochism, sexual sadism, pedophilic, fetishistic, and transvestic disorders.

Paraphilias can be divided into those that feature anomalous activities (e.g., sexual masochism) and those that feature anomalous targets (e.g., fetishes). Paraphilias can also be divided into those that are victimless (e.g., transvestism) and those that are defined in such a way that, when enacted, they inevitably include victimization (e.g., sexual sadism and pedophilic disorders).

For example, an individual might indicate that he experiences recurrent and intense sexual arousal from either the use of nonliving objects (e.g., shoes) or a focus on a nongenital body part (e.g., feet). If the associated fantasies, urges, or behaviors transcend his "normophilic" sexual interests and behaviors, then he can be said to have a specific paraphilia—that is, a fetish. If, on the other hand, the fetish is not intense or persistent but is used as an occasional part of a broad sexual repertoire in the pursuit of genital stimulation, then the individual would likely not meet criteria for a paraphilia. If the fetish leads the individual to experience dysfunction (e.g., clinically relevant sexual difficulties with a partner) or distress (e.g., clinically relevant shame), then he—and people with fetishes are almost always men—would warrant a diagnosis of fetishistic disorder.

Some of the paraphilias included in DSM-5 were selected because their enactment inevitably leads to victimization. Voyeurism is the most common of these paraphilias. DSM-5 voyeurism does not refer to someone who casually ogles a passerby or who is sexually excited by "spying" on people at a clothing-optional beach. DSM-5 voyeuristic disorder involves nonconsenting persons and, as such, is a criminal activity. The disorder is diagnosed when voyeuristic urges are recurrently enacted, leading to distress or significant impairment in social, occupational, or other important areas of functioning. As is the case with all the paraphilias associated with criminal activity, a disorder is also diagnosed even if the individual denies distress and dysfunction, as long as there is a pattern of criminally significant paraphilic behavior. Like the other potentially criminal paraphilias, voyeuristic disorder can also be diagnosed in an individual who does not act on his desires but whose urges or fantasies are causing clinically significant distress or impairment in social, occupational, or other areas of functioning.

Some of these paraphilias are associated with particularly heinous crimes. From a forensic perspective, pedophilic disorder identifies people—almost always men—who act on their persistent sexual interest in prepubertal children. From a forensic perspective, the diagnosis is not generally aimed at men who, among their various sexual fantasies, consider teenagers attractive, yet do not break laws or encounter interpersonal difficulty and are not bothered by their fantasies. DSM-5 also clarifies that the child should be less than 13 years old and that the perpetrator should be at least 16 years old and 5 years older than the victim. The primary forensic interest is in behaviors that transcend what is typically meant by sexuality and move into predation and sociopathy. DSM-5 does allow for the pedophilic disorder diagnosis to be made, however, in situations in which the sexual interest in prepubertal children is not enacted but the urges or fantasies cause marked distress or interpersonal difficulty.

Similarly, the diagnosis of sexual sadism disorder appears to identify two different clinical populations. In both groups, the individual experiences recurrent and intense sexual arousal from another's suffering, as manifested by fantasies, urges, or behaviors. The primary forensic interest is in people who force unconsenting children and adults to experience physical and psychological suffering as part of the perpetrator's own pursuit of sexual arousal. In such settings, the sexual sadism disorder is most commonly applied to men with comorbid antisocial personality disorder who are awaiting trial. The diagnosis of sexual sadism disorder can also be used to describe people who do not act on their sadistic urges and/or do not involve unconsenting victims in their behaviors but who experience distress or impairment. Sexual sadism disorder does not apply to the vast majority of people whose sexual

behavior and fantasies lie under the broad umbrella of BDSM (bondage, domination/discipline, sadism/submission, and masochism). For the majority of people who engage in practices associated with BDSM, mutual agreement and consent are central. Although the fantasy and the specific behavior may include control, pain, and/or humiliation, the people involved are consenting adults, and most do not appear to suffer associated distress or impairment.

Criteria for a paraphilic diagnosis are somewhat unusual among diagnoses in DSM-5. For example, voyeurism, pedophilia, and sexual sadism can be diagnosed when the individual denies distress, dysfunction, sexual arousal, or even any involvement in the activity, as long as there is evidence of involvement that indicates a likelihood of persistent sexual arousal related to the paraphilia. This definition is true for all the paraphilias that tend to lead to criminal behavior, including frotteurism (touching or rubbing against a nonconsenting individual) and exhibitionism (exposing the genitals to an unconsenting person). The idea that conclusions can be made based on external evidence regardless of psychiatric assessment (including some combination of patient history, clinical observation, and mental status examination) is typical in the legal system but is not typical of most psychiatric evaluations. The inclusion of external evidence is also not part of the definition for the paraphilias that do not typically involve the criminal justice system.

The paraphilias prompt interesting questions. The first is whether the psychiatric nomenclature should get involved in sexual behaviors that are heavily influenced by cultural norms and may lead to little or no distress and dysfunction in the individual. For example, a diagnosis that identifies a cluster of people who sexually abuse prepubertal children (pedophilia) may be useful both for the legal system and for clinicians who create treatment programs. If expanded to include a focused sexual interest in adolescents (so-called hebephilia, which was considered for inclusion but ultimately not discussed in DSM-5), the paraphilia runs up against the wide variations that exist in regard to human maturation and to what is legally and culturally acceptable in different states, countries, and eras.

Paraphilia nosology prompts the important question of what, exactly, is the key factor that turns a behavior into a disorder. Is it the atypicality? Is it the individual's distress (e.g., guilt if someone has been hurt)? In the case of paraphilias that feature a victim, is it the effect of the actions (e.g., the hurt person), regardless of the perpetrator's reactions or intent? Is it the compulsive, driven nature of the behavior? Historically, the field of psychiatry was fairly confident about the landmarks and behaviors that could be considered part of normal human sexual development. In the twenty-first century, definitions of sexual normalcy are hotly contested. The DSM paraphilias no longer include, for example, homosexuality, but they do include other sexual behaviors that lack both a victim and inevitable dysfunction or distress (e.g., fetishes and transvestism). The boundaries of paraphilic behaviors are shifting, and it remains to be seen how the field will further incorporate the notion that many atypical patterns of sexual development and behavior are being increasingly seen as normal variations both within the profession and throughout the broader culture.

Despite the ongoing flux and debate, the current diagnostic approach to the paraphilic disorders is fairly clear and can be considered from two angles. One angle is predominantly legal. If a victim is harmed because of another person's pattern of non-normative sexual behavior, there is likely an underlying paraphilic disorder (as well as a likely comorbidity such as antisocial personality disorder). The second angle does not involve the legal system. If an individual indicates a persistent, non-normative pattern of sexual behavior, urges, or fantasies, then a paraphilia can likely be identified. If that paraphilia directly causes distress or dysfunction, then a disorder can be diagnosed. And through this complexity, it remains a matter of clinical judgment whether this diagnosis merits professional attention.

Suggested Readings

Balon R: Controversies in the diagnosis and treatment of paraphilias. J Sex Marital Ther 39(1):7–20, 2013

De Block A, Adriaens PR: Pathologizing sexual deviance: a history. J Sex Res 50(3-4):276-298, 2013

Malón A: Pedophilia: a diagnosis in search of a disorder. Arch Sex Behav 41(5):1083–1097, 2012

Case 19.1Sadism

J. Paul Fedoroff, M.D.

Raven Lundquist arrived half an hour late for her psychiatric evaluation. A 24-year-old graduate student in philosophy, she was dressed in black, appeared sullen, and avoided eye contact. She had recently moved home to live with her parents.

With some encouragement, Ms. Lundquist explained that the appointment was her mother's idea. Until 2 weeks earlier, Ms. Lundquist had been living in a lesbian relationship with Sandy Morrison. The relationship collapsed when Ms. Morrison caught Ms. Lundquist kissing her (Ms. Morrison's) brother. Furious, she sent the diary kept by Ms. Lundquist to the latter's mother, after first writing "SADIST" across the cover. The diary was filled with explicit descriptions of bondage, control, and whipping. Much of it involved Ms. Lundquist's feelings when she disciplined Ms. Morrison, but other entries discussed "BDSM [bondage, domination/discipline, sadism/submission, and masochism] sex parties" in which Ms. Lundquist appeared to enjoy being paid to inflict pain and humiliation on older men.

Ms. Lundquist said the consultation was "absurd. There's no problem, except that if I don't get psychiatric 'help,' I'll be kicked out to the curb. I'm a top [dominant sexual partner]. So what?" Ms. Lundquist agreed to return for a second session with the understanding that the psychiatrist would "hear my side of the story and decide whether therapy would be a good idea."

At the second session, Ms. Lundquist said she decided to study philosophy after reading *Justine* by the Marquis de Sade. "It's not as good as *Lolita*, but it struck a chord." She said she intended to specialize in the ethics of medical treatments. "Yeah, there's a control issue there, but I also like the idea that individuals have rights. I never tied anyone up who didn't ask for it." Ms. Lundquist admitted to drinking more than she should, often drinking to intoxication when she meant to only have a drink or two. Most of her fights with her mother and with her girlfriend occurred after she had "been really drunk," and she often missed early morning classes because of a hangover. She avoided illegal drugs ("I don't like to lose control, and alcohol is bad enough"). She had no criminal history. She did get paid to attend the BDSM parties, but "all I did was look threatening, wear something skimpy, and spank these old guys. They wanted it and were so pathetic. Tying up my girlfriend was much more fun." Her childhood history was notable for having lived in foster homes before being adopted by the woman she calls her "intrusive but well-meaning mother." She had memory gaps from her childhood and thought she might have been molested. "It would make sense, wouldn't it? But I really don't remember."

Ms. Lundquist described sexual attraction to both men and women but preferred women because "they are typically more submissive." When she masturbated, she fantasized about "power and control," but she could not be more specific. She found herself attracted to her girlfriend's brother and would probably date him "even if he's not a sub." ("Sub" typically describes a person who assumes a subservient, submissive role in the relationship, although appearances can be deceptive.)

Ms. Lundquist's medical history was pertinent for having had scoliosis, for which, as a child, she was treated with a Harrington rod and spent a lot of time in the hospital.

On examination, Ms. Lundquist was guarded in the description of her emotions. She said that she had been "bummed out" since breaking up with her girlfriend, but she denied other symptoms of depression. She added that she was less upset about missing her girlfriend than about having to move back with her mother. She tended to stay up at night and sleep in. Her appetite fluctuated, and she occasionally put herself on crash diets to "prove I have control over my urges." She had never been suicidal. She had thoughts of killing others and admitted to some "arousal" at the idea but had no plans or known targets. She had no delusions or hallucinations and no anxiety-related symptoms. She was intelligent and cognitively intact.

Diagnosis

Alcohol use disorder

Discussion

Ms. Lundquist presents for a psychiatric evaluation because of her mother's concern that she is a sadist. According to Ms. Lundquist, she does enjoy being a "top," or dominant sexual partner. She has been paid to spank men at

parties that focused on BDSM, but it is not clear that she found such activity to be especially arousing. She describes a strong interest in maintaining control, both in regard to sex (e.g., tying up her girlfriend) and in her life (she does not use drugs because she does not want to lose control, and having to move back home—where she would presumably have less control over life—was more painful than losing a girlfriend).

In English, the word *sadism* refers to cruelty, insensitivity, and other disagreeable traits that are not necessarily sexual. DSM-5 sexual sadism is defined as "recurrent and intense sexual arousal from the physical or psychological suffering of another person." It is not clear whether Ms. Lundquist fits this definition. The case does not go into much detail about her sexual fantasies or behaviors, and it is not clear whether she gets sexually aroused by inducing suffering.

The diagnosis of sexual sadism disorder also requires either that the individual has acted on these sexual urges with a nonconsenting individual, or that the sexual urges or fantasies cause marked distress or impairment. There is no evidence to suggest that Ms. Lundquist ever acted out hurtful sexual fantasies on a nonconsenting victim. Indeed, she aligns with a BDSM community that typically insists on consent. Activities are clearly spelled out in advance, including an automatic way to end the activity (e.g., safe words).

Ms. Lundquist's elaboration of her fantasies is vague and noncontributory, and it is not clear that humiliation and pain are important components. More importantly, she denies distress and impairment in relation to her sexual behavior. Although her former girlfriend is angry at Ms. Lundquist, that is related to her kissing the brother rather than to any of their sexual behavior. Reading the diary caused distress to the mother, but Ms. Lundquist is not, herself, distressed by her sadistic fantasies, urges, or behaviors.

It is possible, then, that Ms. Lundquist has sexual sadism (arousal from the suffering of others) without having a sexual sadism disorder (inflicting suffering on a nonconsenting person or being distressed or impaired by the urges or fantasies). In other words, Ms. Lundquist may have a paraphilia without having a DSM-5 paraphilic disorder.

Although Ms. Lundquist may prefer to focus on her sexual activities (thereby maintaining control of the interview), the evaluating psychiatrist may want to explore other issues. For example, Ms. Lundquist thinks she may have been sexually abused as a foster child, and she does not recall large chunks of her childhood. This brings up the possibility of a dissociative disorder and/or posttraumatic stress disorder. She mentions a Harrington rod in passing, but it would be important to explore the impact of recurrent pain and hospitalizations on her interest in pain, control, and medical ethics. It would be useful to more fully clarify her depressive and anxiety symptoms.

The patient denies abuse of hard drugs, but she does admit to drinking more than she should. She describes often drinking to intoxication, being unable to control her intake, missing morning classes because of the aftereffects of alcohol, and having interpersonal conflicts that appear to be directly related to intoxication. The only DSM-5 diagnosis that appears certain, then, is alcohol use disorder.

Ms. Lundquist was coerced into this evaluation by her mother, but she returned for a second session so that she could tell her side of the story and "decide whether therapy would be a good idea." Ms. Lundquist may or may not need therapy for help with her sexuality, but therapy may be crucial to help with other aspects of her life.

Suggested Readings

Fedoroff JP: Sadism, sadomasochism, sex, and violence. Can J Psychiatry 53(10):637-646, 2008

Fedoroff JP: Forensic and diagnostic concerns arising from the proposed DSM-5 criteria for sexual paraphilic disorder. J Am Acad Psychiatry Law 39(2):238–241, 2011

Money J: Vandalized Lovemaps. Buffalo, NY, Prometheus, 1989

Case 19.2Relationship Problems

Richard Balon, M.D.

Terry Najarian, a 65-year-old salesman for a large corporation, presented for a psychiatric evaluation after his wife threatened to leave him. Although he said he was embarrassed to discuss his issues with a stranger, he described his sexual interest in women's undergarments in a quite matter-of-fact manner. This interest had surfaced several years earlier and had not been a problem until he was caught masturbating by his wife 6 weeks prior to the evaluation. Upon seeing him dressed in panties and a bra, she initially "went nuts," thinking he was having an affair. After he clarified that he was not seeing anyone else, she "shut him out" and hardly spoke to him. When they argued, she called him a "pervert" and made it clear that she was considering divorce unless he "got help."

Mr. Najarian's habit began in the setting of his wife's severe arthritis and likely depression, both of which significantly reduced her overall activity level and specifically her interest in sex. His "fetish" was the bright spot during his frequent and otherwise dreary business trips. He also masturbated at home but generally waited until his wife was out of the house. His specific pattern was to masturbate about twice weekly, using bras and panties that he had collected over several years. He said that intercourse with his wife had faded to "every month or two" but was mutually satisfying.

The patient had been married for over 30 years, and the couple had two grown children. Mr. Najarian had planned to retire comfortably later that year, but not if the two choices were either to "split the assets or to sit around the house and be called a pervert all day." He became visibly anxious when discussing his marital difficulties. He described some recent difficulty falling asleep and "worried constantly" about his marriage but denied other psychiatric problems. He had made a show of throwing away a half dozen pieces of underwear, which had seemed to reassure his wife, but he had saved his "favorites" and "could always buy more." He said he was of mixed mind. He did not want to end his marriage, but he saw nothing harmful in his new mode of masturbating. "I'm not unfaithful or doing anything bad," he said. "It just excites me, and my wife certainly doesn't want to be having sex a few times a week."

Mr. Najarian denied any difficulties related to sexual functioning, adding that he could maintain erections and achieve orgasm without women's undergarments. He recalled being aroused when he touched women's underwear as a teenager and had masturbated repeatedly to that experience. That fantasy had disappeared when he became sexually active with his wife. He denied any personal or family history of mental illness.

Diagnosis

Fetishistic disorder

Discussion

Mr. Najarian presents with a several-year history of sexual arousal from women's underwear. His behavior fits the definition of a fetish, which is defined as persistent, intense sexual arousal from either the use of nonliving objects (e.g., women's underwear) or a highly specific focus on a nongenital body part (e.g., a foot). Paraphilias are commonly divided based on the activity or the target of the activity, so that fetishism would be considered an example of an "anomalous target" behavior, along with such paraphilias as pedophilia and transvestism.

Paraphilias are not DSM-5 paraphilic disorders, however, until they cause distress, entail risk, or potentially cause harm in others. In the case of Mr. Najarian, his behavior appears to have been ego-syntonic and causing him no difficulty until he was caught wearing women's underwear by his wife. At that point, Mr. Najarian began to experience distress, which led to the psychiatric evaluation and would likely lead to a diagnosis of DSM-5 fetishistic disorder. If his wife were to accept or embrace his fetish and his own distress were to fade, he would likely no longer be considered to have a disorder.

It would be useful to explore more aspects of Mr. Najarian's situation. First, he seems to present to a psychiatrist not because he wants help but because he does not want to get divorced. It is possible, therefore, that he is minimizing his issues. He says his teenage interest in women's underwear returned in the context of his wife's illness, but paraphilias—which usually do start in adolescence, as they did with Mr. Najarian—tend to persist; he may have had a decades-long hiatus, but he may also want to slant the story in a way that might make sense to his wife. In addition, many people with one paraphilia have more than one. Does he choose age-specific underwear (e.g., that worn by young girls or older women)? He was not simply aroused by the underwear but was wearing it.

Does he cross-dress or derive arousal from being dressed in female undergarments outside the context of masturbation? If so, his behavior would fit transvestism. It would also be useful to know more about his masturbation fantasies when he uses the women's underwear. For example, he might be imagining having sex with another man. If so, he might be reluctant to discuss his homosexual feelings (or behavior). Although homosexuality is not a paraphilia, Mr. Najarian could be hesitant either because of shame or because his wife does not (yet) know about this other aspect of his sexuality.

It is not entirely clear that Mr. Najarian's behavior meets the DSM-5 criterion of recurrent and intense sexual arousal. He implies that he has good sexual experiences with his wife and only became interested in women's underwear after she became more physically debilitated. It would be potentially useful to explore whether his interest in women's underwear is greater than his interest in "normophilic" sexual interests and behaviors.

Mr. Najarian reports long-standing good functioning and an absence of psychiatric disturbance aside from situationspecific anxiety and worries. This implies that he has this single paraphilia without any comorbidity. Even though Mr. Najarian would like to frame his story in that way, it would be useful to explore other possibilities. For example, does he have anxiety, depressive, or substance use disorders that he has not spontaneously mentioned? How does he feel about being in his mid-60s, nearing retirement, and having a wife with a chronic illness? The stress of aging can bring out multiple psychiatric issues, and the paraphilia might be only the most obvious one.

Suggested Readings

Balon R, Segraves RT (eds): Clinical Manual of Sexual Disorders. Washington, DC, American Psychiatric Publishing, 2009

Laws DR, O'Donohue WT: Sexual Deviance: Theory, Assessment, and Treatment, 2nd Edition. New York, Guilford, 2008

Case 19.3Sexual Offenses

Nancy J. Needell, M.D.

Vance Orren was a 28-year-old man who was arrested after pushing a stranger in front of an oncoming subway train. He told police that he believed the man was going to "tell everyone that I was a faggot" and that he, Mr. Orren, was trying to protect himself from the "homosexual conspiracy." Mr. Orren had a history of a psychotic disorder, a cocaine use disorder, and nonadherence to medication and psychotherapy at the time of the incident. Mr. Orren entered a plea of not guilty by reason of mental disease (the "insanity defense") and underwent a full psychiatric evaluation, including assessment of his sexual history and desires.

As part of his legal case, Mr. Orren underwent a structured sex offender evaluation. He reported a long history of having sex with minors. His first sexual contact—with his uncle and an 18-year-old male cousin—was at age 12. By the time he was 14 or 15, he was regularly having sex with males and females who ranged in age from "about ten to probably in their thirties."

He was unable to answer whether the sexual contact was always consensual, saying, "No one ever called the cops." As an adult, he said that he preferred having sex with "young girls, because they don't fight much." He said that he usually only had sex with adults when he hired prostitutes or prostituted himself in exchange for money or drugs, although he said that sometimes when high, he "might have done stuff that I don't really remember."

The structured sex offender evaluation included penile plethysmography, assessment of visual reaction time using Viewing Time (a measure of the amount of time a person looks at a particular photo or other visual representation of a sexually stimulating situation), and detailed interview about his sexual practices; it was determined that his main sexual attraction was to girls between the ages of 8 and 13 years.

Mr. Orren's personal history was significant for multiple childhood disruptions that led to his moving into the foster care system at age 7. At age 9, his first foster mother caught him repeatedly stealing toys and bullying other children. When she reprimanded him, he hit her with a brick, knocking her unconscious. That led to placement in a second foster home. He began using drugs and alcohol at age 11. He was first incarcerated at 13, for shoplifting from an electronics store in order to obtain money for marijuana. At that point, he went back to live with his

maternal grandmother, who has episodically provided him a home since then. During those 15 years, he has been arrested at least a dozen times, mostly for drug possession.

Mr. Orren stopped attending school in eighth grade, at about the same time that he was admitted to his first psychiatric inpatient unit. That admission was triggered by his beating his head against a wall "to stop the voices." He was given a diagnosis of psychosis not otherwise specified, treated with risperidone, and discharged after 1 week. Soon after discharge, he discontinued the antipsychotic medication.

Between the ages of 15 and 28, Mr. Orren regularly abused cocaine and alcohol but also used whatever drugs became available to him. By the time of his arrest, he had had at least seven psychiatric admissions, always for auditory hallucinations and persecutory delusions (usually of a sexual nature). It was not clear which substances he was using prior to and during these episodes of psychosis or whether they were likely to be implicated in the development of his psychiatric symptoms. He had also been admitted twice for alcohol detoxification after he went into withdrawal while unable to acquire alcohol readily. He was consistently nonadherent to any type of outpatient treatment. His only periods of sobriety came while in hospitals or jails. When contacted by the consulting psychiatrist, his grandmother pointed out that Mr. Orren had always been "reckless, dishonest, and angry. I don't think I've ever heard him apologize. I love him, but he probably belongs in jail for lots of reasons."

Diagnoses

- Unspecified psychotic disorder
- Cocaine use disorder
- Alcohol use disorder
- Antisocial personality disorder
- Pedophilic disorder, nonexclusive type, sexually attracted to both

Discussion

Although the brief case report does not fully explore Mr. Orren's lengthy history of psychiatric disturbance, he appears to meet criteria for multiple DSM-5 disorders. He abuses multiple substances, for example, and almost certainly meets criteria for alcohol and cocaine use disorders. He has a history of psychosis, which appears to have often been called "schizoaffective disorder" by prior clinicians. Delusions and auditory hallucinations appear to be most prominent, and there is no mention of symptoms of depression and mania. It is unclear whether he met clinical criteria for DSM-IV schizoaffective disorder, much less the tightened criteria in DSM-5. It is also unclear whether or not his history of hallucinations and delusions might be at least partly attributable to his substance use. Until additional information is elicited, Mr. Orren's psychotic symptoms are probably best conceptualized as an unspecified psychotic disorder.

Mr. Orren also meets criteria for antisocial personality disorder (APD). By his own report and that of his grandmother, he is chronically deceitful, angry, reckless, and lacking in remorse. He also appears to repeatedly break the law in regard to underage sexual behavior, prostitution, and drugs, thereby easily meeting the required three of seven criteria for APD. Diagnosis of DSM-5 APD also requires evidence for conduct disorder with onset before age 15, a requisite that Mr. Orren easily meets. Finally, DSM-5 mandates that the antisocial behavior not occur exclusively during the course of schizophrenia or bipolar disorder. Mr. Orren has been previously diagnosed with schizoaffective disorder, but that diagnosis is uncertain, and much of his antisocial behavior appears unrelated to mania or psychosis. DSM-5 also cautions against making the diagnosis of APD when the sociopathic behavior is related to the acquisition of illicit drugs. Although some of Mr. Orren's antisocial behavior might be attributable to the acquisition of illicit and often expensive substances, he still fits criteria for APD.

During the forensic evaluation, however, it became clear that in addition to his other psychiatric diagnoses, Mr. Orren has a strong sexual interest in children. As is often the case in pedophilic disorder, he had never identified his persistent sexual interest as a problem until he was arrested, had never sought treatment, and has multiple comorbidities.

DSM-5 evaluation of Mr. Orren's sexual behavior toward children has several components. The first need is to determine whether he has a pedophilic paraphilia, which is defined as a pattern of sexually arousing fantasies, urges, or behaviors involving prepubescent children. Since such information is often not willingly divulged— especially by someone who is in jail—Mr. Orren underwent a structured sex offender evaluation. The focus of this evaluation is to determine the object of a person's fantasies. Tools for this evaluation include penile

plethysmography, a technique that measures the changes in penile arousal when a person is exposed to certain visual, auditory, or emotional cues, as well as visual reaction time, which measures how long a person looks at different visual images aimed at providing sexual stimulation. In Mr. Orren's case, these tests showed that he derived the most sexual stimulation when exposed to images of girls between the ages of 8 and 13 years.

The second set of DSM-5 criteria focuses on whether Mr. Orren's pedophilic paraphilia meets criteria for a disorder: he must have either acted on his sexual urges or experienced marked distress or interpersonal difficulty secondary to the sexual urges or fantasies. Although Mr. Orren seems not to feel distress or guilt over his sexual behavior, he does appear to have had sex with underage boys and girls since he himself was a minor. As he said about his adult behavior, he prefers sex with "young girls, because they don't fight much." The case report is unclear whether these "young girls" were actually prepubertal, although that appears to be the implication. Men who act on their urges and feel no remorse or distress tend to be extremely hard to treat, because their only serious concern is often whether they will get in trouble.

The third set of criteria clarifies that the pedophilic disorder diagnosis should not be applied to anyone under the age of 16 or to those who are less than 5 years older than the prepubertal child or children. This exception helps to reduce the likelihood of pathologizing relatively common behavior that is often considered normal in many parts of the world. Mr. Orren seems to have begun having sex with 10-year-olds when he was 14 or 15. Although problematic, his behavior at that time would not have met criteria for paraphilic disorder. Assuming he continued to have sex with prepubertal children after he reached age 16, he would then be said to meet criteria.

Arguments are sometimes made that pedophilic disorder should be outside the purview of psychiatry and that sex offenders are best handled by the criminal justice syndrome. One worry is that having recourse to a psychiatric diagnosis will provide an exculpatory explanation for people who rape children and possibly lead to a successful insanity defense (which it does not). As with other diagnoses that are often marked by damaging behavior, pedophilic disorder is intended to systematize the diagnosis of a recognizable cluster of distressed and/or dysfunctional people with similar behaviors, urges, thoughts, and feelings. The societal response to people with pedophilic disorder—including possible treatments and punishments—is not a matter for DSM-5 to decide.

Suggested Readings

Coric V, Feurerstein S, Fortunati F, et al: Assessing sex offenders. Psychiatry 2(11):26-29, 2005

Krueger RB, Kaplan MS: Paraphilic diagnoses in DSM-5. Isr J Psychiatry Relat Sci 49:248–254, 2012

Case 19.4A Few Kinks

John W. Barnhill, M.D.

Wallace Pickering was a 29-year-old man who presented for outpatient therapy with a chief complaint of "I've never been to a shrink before, but I just read DSM-5, and I have ten diagnoses, including six paraphilias, two personality disorders, a substance use disorder, and maybe something from the appendix." The patient described himself as an attorney who "happened to be gay and have a few kinks." He had been dating a former college classmate for the prior 2 years. A native of a mid-size city in the Midwest, Mr. Pickering was raised in a politically and religiously conservative household that included his parents and two younger siblings. Mr. Pickering's father and grandfather ran a prosperous business, and his family was very involved in their community. Mr. Pickering attended an elite college and law school. Since graduation, he had worked at a large law firm. He added that he had been following DSM-5 controversies at least partly because of his boyfriend, who was in his final year of training to be a psychiatrist.

Mr. Pickering described his problems as being about "sex and drugs; I've never cared much for rock and roll." Ever since high school, he described an interest in random sexual encounters. "Not to be narcissistic—though that's one of my diagnoses—but I am kinda hot," he said, "and I play it for what it's worth." This led him to frequent bathhouses and bars, where he could quickly connect to attractive, anonymous partners. He described feeling aroused when watching other people having sex and added that although he had quit the habit when he entered law school, he had previously gotten a thrill out of being watched while having sex. He said he had "hooked up" about once a month since age 20. He said he had never once had unsafe sex with anyone aside from his boyfriend,

and this led him to mention another of his "diagnoses": a fetishistic interest in rubber. He said condoms were great: they were virus proof, delayed ejaculation, and had an excellent smell. His interest in condoms had led him to get an outfit made entirely of rubber. He said it had been quite the hit at a bondage club, but it had made him so sweaty that he had worn it only once and had then thrown it away before his boyfriend found it. He said he also enjoyed tying up his boyfriend during sex and feeling completely in control. In addition to being a "sadistic top," he said he also liked being a "bottom" and at other times did not feel sexual at all.

Mr. Pickering said that during his occasional pursuits of anonymous sex, he had a couple of "toxic habits." Each night he was out he would do a few lines of cocaine and drink about six beers. He said he always timed these "trips to the underworld" for times when his boyfriend was on a business trip, his firm would be unlikely to suddenly call him back to work, and he would have a day to recover ("withdrawing from cocaine sucks"). He added that the planning had become more complicated and that he actually had probably only gone to a club twice in the prior year. Overall, his "social life is pretty boring, actually. We have a lot of friends, but we're kinda like an old married couple. My only real vice is smoking. I have tried for years, but I haven't been able to get down below half a pack a day. Yawn."

When asked to say more about himself, Mr. Pickering answered, "Right... I almost forgot. I am obsessed by the hours that I work. I keep careful track so that I am among the top billers in the firm every month, and I always get my projects done on time, even if it means I don't sleep. My own theory is that it's part of my need to feel invulnerable and perfect despite being a mess on the inside." Mr. Pickering paused, smiled, and continued. "That made me wonder if I'm obsessive-compulsive or narcissistic as well as having all the different paraphilias. Oh, and if hypersexuality gets into the appendix, then I'm really screwed."

Toward the end of the initial interview, the psychiatrist said, "I'm not sure if any of these behaviors are going to make it as a diagnosis, but I am very interested in how you feel." At that, Mr. Pickering welled up in tears and said he had felt sad and lonely all his life. He added that his family knew almost nothing about him, and that only a lesbian cousin—who had also moved to New York—knew that he was gay.

On examination, Mr. Pickering was a well-groomed, attractive young man who was coherent and goal directed. He smiled readily but showed an appropriate affective range. He denied suicidality, confusion, and psychosis. He was cognitively very bright. His insight and judgment were viewed as intact.

Diagnosis

• Tobacco use disorder, mild

Discussion

The presentation of Mr. Pickering prompts as many questions as it answers. He pre-sents for his first psychiatric consultation because he "read DSM-5." Why would that compel him to seek a consultation at this particular time? He freely and amusingly discusses his sexual interests, substance use, and personality style, and he wants them labeled disorders despite the fact that they do not actually bother him. Why would he seek out diagnoses when he is also denying distress and dysfunction? Multiple statements by Mr. Pickering provide some insight, but his presentation lacks both a clear illness and a clear history.

Mr. Pickering does offer some theories about why he might need to see a therapist. He wonders whether he has a "paraphilia," which is defined in DSM-5 as "any sexual interest greater than or equal to normophilic sexual interests." He does have erotic interests that have been linked to paraphilias (rubber, bondage, voyeurism, exhibitionism), and with further history he might be said to have a paraphilia or two. A paraphilia is not, however, a disorder. As is generally true for disorders throughout DSM-5, a paraphilic disorder requires distress or impairment to the individual and/or involves harm to self or others. DSM-5 leaves intact the difference between normative and non-normative sexual behavior, but it underlines that non-normative sexual behavior is not necessarily pathological. Although clinicians might be tempted to insert their own bias into the assessment, DSM-5 makes clear that if the paraphilia is not problematic, it is not a disorder.

Mr. Pickering does use an illicit substance, cocaine, and he possibly binges on alcohol. He reports that he uses both monthly without significant ill effects; on reflection, he reduces the frequency of both his substance use and sexual adventures. Without dysfunction, his use does not qualify for a substance use disorder. Before writing off his substance use as inconsequential, however, the clinician should explore Mr. Pickering's ability to separate his "toxic habits" from the rest of his life. Substance use may get minimized, so follow-up questions should elaborate the extent of his cocaine and alcohol use as well as explore a possible substance-induced mood disorder ("withdrawal from cocaine sucks"). If Mr. Pickering does use cocaine at clubs, it would not be surprising if he also used other

"club drugs," such as MDMA (ecstasy), methamphetamine (crystal meth), ketamine (special K), and amyl nitrite (poppers). Alcohol might be used to help him come down from a stimulant, as could benzodiazepines and opiates. Amphetamines might improve the lowered energy, mood, and/or attention that might accompany a cocaine crash, especially for someone with heavy work requirements. He does smoke tobacco and, despite some effort, has been unable to stop. Although details are lacking, and smoking cigarettes is not one of Mr. Pickering's prominent concerns, he does likely meet criteria for a tobacco use disorder.

Mr. Pickering also wonders whether he has a narcissistic or obsessive-compulsive personality disorder. As evidence, he offers up a strong interest in performing well and in keeping track of his rank within his law firm. Assessing psychopathology requires attention to cultural and subcultural norms. Mr. Pickering belongs to several subcultures, one of which is his profession. While he might be excessively dedicated to work compared to the average person, he would be a law firm outlier if he were not somewhat "obsessed" by his monthly billable hours. More information would be needed to diagnose a personality disorder; however, Mr. Pickering does not appear to meet criteria for any of the DSM-5 personality disorders.

Another consideration is whether Mr. Pickering has a major depression. He does describe dysphoria but does not mention vegetative depressive symptoms. Mr. Pickering reports frequent all-nighters, which could reflect hypomania, substance abuse, and/or a sleep disorder, but long work hours are normative in his work environment. Without further information, none of these diagnoses seems likely.

Despite the absence of a clear-cut DSM-5 diagnosis aside from tobacco use disorder, Mr. Pickering sees himself as flawed, isolated, and sad. One possible clue to this curious situation is that Mr. Pickering has mentioned his homosexuality only to a lesbian cousin, implying that he does not feel comfortable telling his "conservative" family of origin. This might prompt questions about what his own views are on homosexuality, what progress he has made in regard to coming out, and whether and to what extent he might have incorporated society's negative perspectives on gay men and women. He wonders whether he has "hypersexuality disorder," which was considered for the DSM-5 appendix, but he does not mention engaging in sexual behavior that is especially frequent, compulsive, or hurtful. Perhaps he views all homosexual behavior as hypersexual and abnormal. If so, he might perpetually feel inadequate regardless of his many accomplishments.

Mr. Pickering's sad mood, sexual behaviors, and almost all of his substance use do not appear to reach a threshold for a diagnosis. His possible ambivalence about his sexual orientation is not a DSM-5 diagnosis. Mr. Pickering may be making a dramatic case for polydiagnoses in an effort to elicit criticism or to distract the interviewer from pursuing his lifelong experience of lonely sadness. It would be useful to explore these issues in future sessions. Even if Mr. Pickering's only DSM-5 diagnosis is a mild DSM-5 tobacco use disorder, he would still likely be an excellent candidate for psychotherapy.

Suggested Readings

Friedman RC, Downey JI: Sexual Orientation and Psychodynamic Psychotherapy: Sexual Science and Clinical Practice. New York, Columbia University Press, 2012

Goldsmith SJ: Oedipus or Orestes? Homosexual men, their mothers, and other women revisited. J Am Psychoanal Assoc 49(4):1269–1287, 2001

Isay RA: Becoming Gay: The Journey to Self-Acceptance. New York, Vintage, 2010

Levounis P, Drescher J, Barber ME: The LGBT Casebook. Washington DC, American Psychiatric Publishing, 2012

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