When worry is excessive: Easing the burden of GAD

A stepped approach to management using these communication tips and coping strategies can help decrease the stigma of generalized anxiety disorder and increase patients' sense of ownership in their care.

THE CASE

Sandra H,* a 24-year-old single woman with a history of asthma, presented to our family medicine clinic as a new patient. Ms. H said she lived at home with her mother. She completed high school but never attended college due to anxiety. She had held several jobs since high school and recently decided to apply to a local college, which prompted a desire to gain control over the anxiety that had been present since middle school. She reported feeling anxious, having difficulty breathing, shaking all over, having difficulty concentrating, and experiencing numbness and tingling in her fingers. She was often irritable at home, which she attributed partly to anxiety but mostly to disrupted sleep. We administered the 7-question Generalized Anxiety Disorder (GAD-7) questionnaire and she scored 15 (of a possible 21) points, indicative of severe anxiety.

O HOW WOULD YOU PROCEED WITH THIS PATIENT?

*The patient's name has been changed to protect her identity.

A pproximately 1 in 5 patients presenting to primary care clinics have at least 1 anxiety disorder and 7.6% have generalized anxiety disorder (GAD).¹ Yet many go untreated. The lifetime prevalence of GAD is 3.7% worldwide and 7.8% in the United States.² Only 5% of cases emerge by age 13,² but incidence increases through adolescence and young adulthood, with a quarter of all cases occurring by age 25.² GAD occurs about twice as often in women as it does in men. It is typically recurrent, and many patients require ongoing treatment.²

GAD DIAGNOSTIC CRITERIA AND DIFFERENTIAL CONSIDERATIONS

Diagnosis of GAD requires at least 6 months of excessive worry or anxiety about a variety of circumstances, occurring on most days and for more than half the day.³ The worry or anxiety in GAD is difficult to control, disrupts meaningful areas of life, and surrounds everyday concerns, such as finances, health, or familyrelated issues. Among adolescents with GAD, worries typically include school performance and may often present as perfectionism.⁴ At least 3 of the following 6 symptoms result from Christopher A. Ebberwein, PhD; Melissa T. Hopper, PsyD; Raghuveer Vedala, MD; Matthew M. Macaluso, DO

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chronic anxiety: restlessness, fatigue, poor concentration, irritability, muscle tension, and sleep disturbance.²

Rule out other conditions. Make sure symptoms of GAD are not better explained by another medical problem, including other mental disorders or substance use disorders.³ Complaints of anxiety in the context of mania, hypomania, or withdrawal from alcohol or a sedative hypnotic suggest a different underlying cause, thereby requiring a complete history with symptom chronology and collateral information. The pattern of anxiety seen in GAD also differs from the focused sources of anxiety found in disorders such as social anxiety disorder (SAD) and post-traumatic stress disorder. For example, SAD might center on embarrassment in a social setting rather than reflect a pattern of general worry.5

Consider comorbidities. Further complicating diagnosis and treatment, GAD has been linked to higher rates of comorbidity and higher health care utilization. About 90% of GAD patients experience psychiatric comorbidity, with major depressive disorder co-occurring about 60% of the time.⁶ Substance use disorders co-occur with GAD more than 20% of the time.² Despite comorbidities, it is the somatic complaints in GAD that often drive patient requests for medical care.^{7,8} GAD itself is an independent predictor of heart disease⁹ and is linked to increased risk of chronic or severe headaches¹⁰ and suicide.^{11,12}

Work with patients and family toward a diagnosis

Despite the potential benefits of early identification and treatment of GAD,¹³ the average elapsed time from symptom onset to initial medication treatment is 7 years.¹⁴ Multiple factors likely account for this delay. Clinical presentations can be highly variable,⁶ with 1 patient presenting primarily with sleep complaints and another with gastrointestinal symptoms. Some medical conditions (TABLE 1)¹⁵ and substances (TABLE 2)¹⁶⁻¹⁸ can cause secondary anxiety symptoms, and their presence should prompt a thorough evaluation.

Address the mind-body connection. Because uncertainty and ambiguity surrounding a diagnosis often drive worry,¹⁹ anxious patients

TABLE 1Medical conditions withsecondary anxiety symptoms15

Angina

Autoimmune disorders Cardiorespiratory disorders Endocrine disorders

- Cushing disease
- Hypoglycemia
- Parathyroid disease
- Thyroid disease

Neurological (seizure) disorders

Pulmonary embolism

Substance-related use/dependence/withdrawal

- Alcohol
- Benzodiazepines
- Nicotine
- Opioids

TABLE 2 Classes of substances that may induce anxiety¹⁶⁻¹⁸

Antidepressants Bronchodilators Central nervous system depressants (if withdrawn abruptly) • Alcohol • Barbiturates • Benzodiazepines

Benzodiazepine

Corticosteroids

Decongestants

Oral contraceptives

Stimulants (eg, caffeine) Thyroid supplementation

or their family members commonly seek additional medical visits and tests in search of answers. In such instances, it helps to explain the physiologic connection between somatic complaints and anxiety.⁸ Describe how areas of the brain that manage fear and stress can also cause muscle tension, gastrointestinal complaints, hyperarousal, or sleep disturbance.

Empathy and early psychoeducation on the reason anxiety is being considered can decrease stigma and enable appropriate followup and treatment. You might introduce the

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TABLE 3 Preferred style of communicating when counseling patients with GAD

Avoid giving commands	and instead explore steps with the patient
Don't oversimplify: "Try not to worry about that anymore."	Help the patient to see when a worry can actually lead to a solution: "Thinking of these worries, what do you have control over? What can you do next?"
Don't push: "You need to learn to relax for at least a little time every day."	Show a mind-body skill after gaining permission: "Several times per day, I want you to spend 1 minute to take 3 deep breaths. For each breath, I want you to breathe in for a count of 3. Hold it for a count of 3. Exhale for a count of 3."
Don't assume: "Your stress is so high; I want you to get others to help out more."	Explore possibilities: "At times like this, support can be helpful. Who has supported you before?"
Don't invalidate: "I know you have a hard time believing these symptoms are connected to anxiety, but I need you to try some of these changes."	Use an example or analogy: "Have you ever seen someone start sweating when they're nervous? The feeling leads to changes in the body. Would you be willing to practice one of these behaviors that helps to calm that down?" (referencing a handout).

connection between health complaints and GAD specifically by exploring the amount of worry surrounding the presenting symptoms, followed by a question such as, "Sometimes your worry will fit the situation and sometimes it'll be too much. Has anyone ever told you that you worry too much?" The patient's response to such a question could signal a need to use the GAD-7 screening tool¹ as an aid to diagnosis and as a baseline measure for monitoring subsequent treatment progress.

PSYCHO- AND PHARMACOTHERAPY ASPECTS OF MANAGEMENT

Helping someone understand a GAD diagnosis and treatment options can test a clinician's communication skills. Avoid trying to reason patients out of their worries or fears (TABLE 3). Instead, rely on psychoeducation about the mind-body connection and on focused counseling (TABLE 4) to help patients and their family members understand effective next steps.^{8,20} At a minimum, ensure that everyone involved understands how anxiety is influenced by unhealthy lifestyle choices such as poor sleep hygiene and caffeine misuse.

Let patients choose from among various coping strategies. Be prepared to offer patients user-friendly handouts, reading material, or links to educational Web sites. Many patients are interested in using smartphone applications to learn and practice coping strategies. Although these apps can encourage the regular practice of coping skills, caution teens and parents about privacy issues and the lack of evidence supporting this approach as stand-alone therapy.²¹ Offering several choices (TABLE 4) can increase the sense of ownership an individual experiences when choosing the next step.

For patients who remain focused on somatic complaints and resist adopting coping skills or treatment, pushing certain recommendations can actually increase resistance to proper treatment.²² Instead, explore their ambivalence, offer facts, express concern about the current course of the illness, and emphasize the need to revisit the discussion at a future appointment. Offer follow-up monitoring to assess the course of the illness and readiness for GAD treatment.

Initiate treatment in a stepwise manner¹³ for the patient who is ready for GAD treatment. This approach includes education and monitoring; low-intensity interventions (eg, treatment workbooks or group sessions); medication and/or referral for psychotherapy; referral for outpatient psychiatric care; and hospitalization for patients who pose a danger to self or others.¹³ Studies suggest that patients receiving both psychotherapy and pharmacotherapy benefit from the complementary targeting of symptoms, exhibit increased adherence, and report fewer adverse effects.²³

Patients are most likely to benefit from therapy when they have the capacity for introspection and forming friendships (ie, can form a therapeutic alliance). With such patients who have mild or moderate symptoms of GAD, of-

TABLE 4

Coping strategies to teach patients (tailor to the individual)

- Regularly practice relaxation techniques (deep breathing, muscle relaxation).
- Make a list of worries in the evening before bedtime and give yourself permission to address them tomorrow.
- Enlist or accept emotional support from others.
- Reduce caffeine consumption gradually (FDA recommends ≤ 400 mg for adults^a; the American Academy of Pediatrics discourages caffeine use in adolescents and children).
- Adopt effective sleep hygiene practices.
- Use a digital application to promote self-help (search terms such as Wellness, Sleep, or Stress in your favorite app store).

FDA, US Food and Drug Administration.

^a For more on caffeine consumption, see: www.fda.gov/consumers/consumer-updates/spilling-beans-how-much-caffeine-too-much

Say to the patient: "Sometimes your worry will fit the situation and sometimes it'll be too much. Has anyone ever told you that you worry too much?" fer cognitive behavioral therapy (CBT) or applied relaxation training. Consider a trial of medication when symptoms are severe, when psychotherapy is not a good option, or when response to psychotherapy is inadequate.¹³ Medications work by targeting primitive parts of the brain such as the amygdala (bottom up), while psychotherapy targets the cortex or more evolved part of the brain, teaching it to modulate the lower or more primitive structures (top down).²⁴

■ Medication considerations. Selective serotonin reuptake inhibitors (SSRIs) are considered first-line pharmacotherapy for adult and adolescent patients with GAD.²⁰ However, in adolescents, no SSRIs are approved by the US Food and Drug Administration (FDA) to treat anxiety disorders unassociated with obsessive-compulsive disorder. Use caution if prescribing an SSRI for off-label treatment in an adolescent; talk with the patient and family about the FDA's black-box warning regarding the potential for suicidality in adolescents.

For adults, selective norepinephrine reuptake inhibitors (SNRIs) are also considered a first-line treatment option.²³ SSRIs and SNRIs are well-studied, effective, safe, and better tolerated than earlier antidepressants. However, be aware that both SSRIs and SNRIs are often associated with headache, nausea, and sexual dysfunction. They are dosed once daily and have not been shown to cause dependence. Inform patients that onset of action is often delayed 4 to 8 weeks²³ and that there is a risk for anxiety-producing effects early in treatment. To minimize these effects, consider starting treatment at a lower dose and titrate upward more gradually than when treating depression.

Continue treatment for 12 months to reduce the risk of recurrence.²³ If response to treatment is insufficient after 2 adequate trials of an SSRI or SNRI, consider second-line agents such as azapirones or benzodiazepines for adults, keeping in mind the risk for dependence with benzodiazepines.¹³

Evidence supports GABAergic drugs such as gabapentin and pregabalin as off-label treatments for GAD in refractory adult cases.²⁵ In the European Union, pregabalin is approved for use in GAD. Caution is recommended with both drugs due to abuse potential. Next steps for an inadequate response should include referral to Psychiatry or for inpatient care when risk of harm to self or others is high.

CASE

Considering Ms. H's ability to work and complete daily activities, we talked to her about CBT as a first step and referred her to a therapist in the community. One month after her initial visit with us, Ms. H returned for a follow-up visit and scored a 17 on her GAD-7, still in the severe range. After one CBT session, she had cancelled her second and third appointments due to work conflicts. She had missed some work from oversleeping after worried sleepless nights. Her worries concerned friendships, paying bills, physical appearance, not being able to exercise and therefore gaining weight, and troubles at work and with her mother. She also described several episodes of nightmares after breaking up with a boyfriend.

She agreed to try an SSRI, and we started her on fluoxetine 10 mg/d. We counseled her on SSRI risks and benefits, including the potential for increased suicidal ideation and how to respond if such thoughts developed. Three weeks after starting fluoxetine, Ms. H reported improvement with no adverse effects from the medication, except for decreased appetite and some weight loss, which she welcomed. She had registered for college courses, and her third score on the GAD-7 was an 8.

We increased her fluoxetine dose to 20 mg/d for maintenance. We encouraged her to return to her therapist for CBT and she scheduled that appointment. Therapy records noted a GAD-7 score of 5 at follow-up 8 weeks later. Ms. H reported improved sleep, reduced irritability at home, and better relationships with her mother and friends. She had begun college classes and was writing about her thoughts and worries as part of her CBT homework. She continued follow-up appointments with both her family physician and her therapist.

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