Pharmacotherapy of Panic Disorder: Proposed Guidelines for the Family Physician

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Background: Efforts to improve the recognition and treatment of panic disorder in the primary care setting have not resulted in better outcomes. Studies show that even when physicians recognize panic disorder, they do not treat it adequately. Family physicians need specific diagnostic and treatment guidelines when they encounter a patient who has possible panic disorder.

Methods: Four psychiatrists with expertise in the pharmacotherapy of panic disorder and experience working in the primary care setting reviewed the available treatment literature and developed a consensus treatment algorithm for panic pharmacotherapy in the primary care setting. These proposed guidelines were reviewed for accuracy by 3 additional psychiatric experts and for their applicability to the primary care setting by 2 leading experts on the treatment of mental disorders in primary care.

Results: Guidelines for medication selection, dosing, titration, side-effect management, and maintenance treatment are proposed. Modifications for patients already on psychotropic medication are provided, and indications for psychiatric consultation are specified.

Conclusions: Panic disorder is a highly treatable condition, and primary care physicians can deliver effective pharmacotherapy if specific guidelines are carefully followed. (J Am Board Fam Pract 1998;11:282-90.)
quate efficacy. Ironically, as-needed use of short half-life benzodiazepines can actually worsen the course of panic disorder.  

Methods
We provide a brief overview of methods to diagnose panic disorder and follow with specific guidelines for the primary care physician seeking to care for patients with panic disorder in the primary care setting. After reviewing the importance of and strategies for explaining the diagnosis and rationale for treatment to the patient and providing a system for monitoring the effects of treatment, we describe specific pharmacotherapeutic guidelines for titration, side-effect management, maintenance treatment, taper and discontinuation, adjustments in approach for patients needing treatment who are already on psychotropic medication, and when to refer to a psychiatrist.

These guidelines are based on an extensive review of the literature, using the key words “panic disorder,” “treatment,” “pharmacotherapy,” and “medication.” The guidelines were then reviewed for accuracy by 3 leading psychiatric experts in the pharmacotherapy of panic and for their applicability to the primary care setting by 2 leading experts on the treatment of mental disorders in primary care.

Making the Diagnosis
The diagnosis of panic disorder requires that the patient experience at least two panic attacks and either persistent worry about having attacks or a change in behavior or attitude because of attacks (eg, avoiding certain situations for fear of having an attack [agoraphobia] or being preoccupied with other imagined consequences of attacks, such as ill health or fears of undiscovered medical illness [hypochondriasis]).

Our group has found that the following two screening questions, adapted from the Composite International Diagnostic Interview with modifications by one of the authors (WK), are highly sensitive but not specific: (1) Did you ever have a spell or attack when all of a sudden you felt frightened, anxious, or very uneasy? (2) Did you ever have a spell or attack when for no reason your heart began to race, you felt faint or nauseous, or you could not catch your breath? If the answer is no, the patient almost certainly does not have panic disorder. If the answer is yes, there is a 25 percent likelihood of having panic. Based on unpublished data collected at three separate primary care clinic sites, another third probably have depression or anxiety or substance use disorder, and one third probably have no disorder.

To make the diagnosis of panic disorder, it is important to find out whether the patient has at least 4 of 13 panic symptoms (Table 1), whether at least some attacks occur unpredictably (without a fear-inducing stimulus), whether attacks are confined to social situations (the diagnosis would be social phobia, not panic, if the attacks occurred only in social situations), and whether attacks build to a peak in 5 to 10 minutes and wear off (at least somewhat) within the hour. The Diagnostic and Statistical Manual of Mental Disorders (DSM-IV) criteria for a panic attack are listed in Table 1. More structured interviews are available but are too cumbersome for routine use. The PRIME-MD contains a screening item for panic disorder that is quite similar to our first screening item and a diagnostic module for panic disorder that is more simple than standard psychiatric diagnostic interviews, such as the Structure Clinical Interview for DSM-IV (SCID), but it still requires some time (10 to 15 minutes).

The Initial Step: Careful Explanation of Diagnosis
Adequate explanation of the medical nature of panic disorder is the major and central determi-
The patient can be told that medical treatment which a flight or fight alarm goes off too easily with inadequate reason. The importance of nonmedical interventions is required. A medicophysiologic model can sometimes be helpful. We often tell patients that there is a stress thermostat in the brain, that the set point has been elevated by accumulating life stresses, and that the thermostat function is now maintaining the patient at a stress level which is too high. This explanation emphasizes the problem as one of brain regulation, not damage or deficiency, and helps account for the slower action of medications or other therapies; that is, they are working to reset the stress thermostat by reinitiating a normal balancing mechanism. A more simple explanation is that the condition is caused by an instability of the autonomic nervous system in which a flight or fight alarm goes off too easily with inadequate reason.

Whatever explanation is chosen, care must be taken not to convey to patients that they have no control over their condition and that psychotherapy or other measures designed to increase their coping skills are unimportant. Stress and environmental factors can trigger the expression of an underlying biogenetic vulnerability. The importance of nonmedical interventions can be emphasized by analogy to rehabilitation after medical or surgical procedures for managing orthopedic injuries or to diet and lifestyle change after medication interventions for managing diabetes, hypertension, and other cardiac problems. The patient can be told that medical treatment can begin and the need for formal psychologic intervention can be evaluated several weeks to months later to determine whether psychotherapy is required.

These simple introductory strategies provide an explanatory model that will help the patient gain some control over their condition. It is also important to counter the demoralization resulting from past experiences with unproductive medical evaluations during which patients were told nothing's wrong or "it's all in your head." Negative thinking and an apprehensive attitude could lie behind the greater tendency of panic disorder patients to experience adverse side effects when given placebos (up to four times greater than depression patients), suggesting that perhaps some component of medication intolerance is not pharmacologically based. For this reason, the physician must be careful not to give too detailed an explanation of medication side effects. The most common side effects should be mentioned to patients with instructions to telephone immediately if any other symptom arises of concern to the patient.

Providing patients with reading materials about panic disorder also enhances their sense of self-control. Pamphlets are available from the National Institute of Mental Health by writing to: National Institute of Mental Health, Panic Disorders Education Program, 5600 Fischers Lane, Room 7C-02, Rockville, MD 20857, or calling toll free 1-800-64 PANIC. Numerous books written for patients and their families can be found in the psychology or self-help sections of major book stores.

The Next Step: A Monitoring System
Before starting treatment, a baseline record of the most salient symptoms and the degree to which they occur must be established so that treatment can be monitored accurately. Panic disorder is a multifaceted syndrome that consists of varying combinations of panic attacks, anticipatory anxiety (fear of future panic attacks), phobic avoidance, preoccupation with and anxiety about health, depression, and certain degrees of both social and occupational disabilities. Because initially a partial response to treatment can be more the rule than the exception, it is essential to quantitatively measure symptoms during treatment to allow both physician and patient to know that they are on the right track, to determine the symptom areas that are most responsive, and to recognize refractory areas that might require additional pharmacotherapy or psychotherapeutic intervention.

Most available rating scales are cumbersome and address only individual components of the panic syndrome (eg, general anxiety, phobic avoidance, panic frequency). A good compromise is to have the patient use a customized diary to record the number, duration, and intensity of episodic panic attacks, as well as other symptoms. Figure 1 is an example of such a diary. Patients who have chronic symptoms that are prominently somatic, such as chest pain or palpitation, should also record these symptoms on the daily rating scale.
Patients must be encouraged to understand the importance of keeping a daily diary, which takes only a few minutes each evening. By having the patient begin the diary several days before starting treatment, any fluctuating pattern to panic attacks or other somatic symptoms will not immediately be attributed to newly prescribed medication. Recently a more standardized 7-item scale, the Panic Disorder Severity Scale (PDSS), which uses single items to measure the multiple components of the panic syndrome, has proved valid and highly reliable. Items are rated from 0 (none) to 4 (most severe) with a descriptor provided for each, and preliminary studies show these items decrease with treatment.

A final strategy to facilitate accurate monitoring is to encourage patients to report briefly on their progress by telephone once or twice during the first week. We ask particularly apprehensive patients to telephone at a specific time the day after starting medication, even if there are no problems. This strategy desensitizes patients to any mild side effects, allows a scheduled time for them to ask questions they might otherwise feel too foolish to telephone about spontaneously, and cements a sense of active collaboration with the physician in treating the disorder. Such telephone calls take only a few minutes and do much to obviate premature discontinuation of medication or emergency visits later during the course of treatment.

The proposed treatment algorithm assumes an 8-week period for initial treatment with follow-up visits planned 2, 4, and 8 weeks after the initial baseline visit.

**Selection of Medication**

Selection of medication depends on whether patients have ever received pharmacotherapy for the treatment of a mood or anxiety disorder.

**No Treatment History**

A selective serotonin reuptake inhibitor (SSRI) is the treatment of choice for patients who have never had pharmacotherapy. All four SSRIs are thought to be effective for panic disorder; they differ only in subtle side-effect profiles, how they influence the cytochrome P-450 liver enzyme systems (which can alter blood levels of medications prescribed for other medical conditions), and the duration of half-life (short half-life SSRIs, when
Table 2. Efficacy, Advantages, and Disadvantages of Available Selective Serotonin Reuptake Inhibitors (SSRIs).

<table>
<thead>
<tr>
<th>Drug</th>
<th>Antipanic Efficacy</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoxetine (Prozac)</td>
<td>First US efficacy reports</td>
<td>Elixir for slow titration</td>
<td>More stimulating</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long half-life (no withdrawal)</td>
<td>Longer half-life (hard to wash out drug)</td>
</tr>
<tr>
<td>Fluvoxamine (Luvox)</td>
<td>Most double-blind treatment data</td>
<td>No P-450 2D6 effects</td>
<td>Twice daily dosing required</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Effects on P-450 IA2, 2C9, and 3A4</td>
</tr>
<tr>
<td>Paroxetine (Paxil)</td>
<td>FDA approved</td>
<td>Least stimulating</td>
<td>More anticholinergic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Minimal P-450 3A4 effects</td>
<td>More sedating</td>
</tr>
<tr>
<td>Sertraline (Zoloft)</td>
<td>FDA approved</td>
<td>Fewest P-450 2D6 effects</td>
<td>More diarrhea and gastrointestinal upset</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Minimal P-450 3A4 effects</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intermediate half-life</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(less withdrawal)</td>
<td></td>
</tr>
</tbody>
</table>

FDA - Food and Drug Administration.
Medications affected by SSRI inhibitions of different cytochrome P-450 enzyme systems:
1A2 - Increases levels of theophylline, clozapine, haloperidol, amitriptyline, clomipramine, imipramine, caffeine, warfarin, propranolol.
2C9 - Increases levels of diazepam, tolbutamide, phenytoin.
2D6 - Increases levels of tricyclic antidepressants, type C antiarrhythmics, haloperidol, trazodone.
3A4 - Increases levels of carbamazepine, alprazolam, terfenadine, astemizole, midazolam, triazolam.

abruptly discontinued, produce time-limited withdrawal symptoms of dizziness, malaise, headache, nausea, fatigue, or insomnia in 20 percent of patients). Table 2 summarizes salient data on the four currently available SSRIs. A safe rule for prescribing SSRIs with other medications is to check serum levels of medications that require serum level monitoring (such as phenytoin, theophylline, digoxin) within 1 to 2 weeks after starting an SSRI.

Previous Medication Treatment
If the patient had a positive response to an antidepressant prescribed in the past and prefers it, this antidepressant should be used regardless of whether it is an SSRI or a tricyclic antidepressant. If the previous medication is a tricyclic antidepressant, nortriptyline is preferred because of its lower anticholinergic and orthostatic hypotensive effects compared with imipramine, doxepin, and amitriptyline, its greater sleep-promoting effects compared with desipramine, and its more easily interpretable blood levels. If the patient had a positive response to a benzodiazepine, choose an SSRI.

If the patient has a history of no response or side effects to a tricyclic antidepressant or benzodiazepine, choose an SSRI. If a patient had no response or was intolerant to one SSRI, choose a different SSRI. If a patient had either no response or side effects to two SSRIs, choose a tricyclic antidepressant (nortriptyline is preferred). Nefazodone or venlafaxine are also possible choices, although only anecdotal reports (and no controlled trials) with nefazodone show it is effective for panic and one controlled trial reported effectiveness of venlafaxine.

If the patient suffers from bipolar mood disorder and is taking thymoleptic medication, see Thymoleptics, discussed in Modifications for Patients on Medication.

Antidepressants
Selection among antidepressants should be based on the patient's panic symptom profile (avoid medications with similar side effects) and history of medication side effects (avoid reproducing previously problematic side effects). Table 3 displays adverse effects of recommended medications, and Table 4 lists management options for common side effects.

Benzodiazepines
Benzodiazepines are indicated if the patient has a history of nonresponse to most other antidepressants. Failure with two distinct classes of antidepressants is probably a minimum requirement. Benzodiazepines are also indicated if a medical illness contraindicates using other antidepressants (which would apply less to SSRIs than to other classes of antidepressants). If a patient's symptoms are disabling and require immediate attention (ie, when waiting 3 to 4 weeks for response will be too long for the patient), then a benzodiazepine would be appropriate.
Table 3. Adverse Effects of Medications Used to Treat Panic Disorder.

<table>
<thead>
<tr>
<th>Adverse Effect</th>
<th>Fluoxetine</th>
<th>Sertraline</th>
<th>Paroxetine</th>
<th>Fluvoxamine</th>
<th>Nortriptyline</th>
<th>Nefazodone</th>
<th>Venlafaxine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headache</td>
<td>↑</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>↓</td>
<td>↑</td>
<td>-</td>
</tr>
<tr>
<td>Agitation and anxiety</td>
<td>↑↑</td>
<td>↑</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>↓</td>
<td>↑↑</td>
</tr>
<tr>
<td>Tremor</td>
<td>↑</td>
<td>↑</td>
<td>↑</td>
<td>-</td>
<td>↑↑</td>
<td>↓</td>
<td>↑↑</td>
</tr>
<tr>
<td>Insomnia</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
</tr>
<tr>
<td>Drowsiness</td>
<td>↑</td>
<td>↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
</tr>
<tr>
<td>Fatigue</td>
<td>↑</td>
<td>↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↓</td>
<td>↑↑</td>
<td>-</td>
</tr>
<tr>
<td>Confusion</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>↑↑</td>
<td>-</td>
</tr>
<tr>
<td>Dizziness</td>
<td>-</td>
<td>-</td>
<td>↑</td>
<td>-</td>
<td>-</td>
<td>↑↑</td>
<td>-</td>
</tr>
<tr>
<td>Anticholinergic†</td>
<td>-</td>
<td>-</td>
<td>↑</td>
<td>-</td>
<td>↑↑</td>
<td>↑↑</td>
<td>-</td>
</tr>
<tr>
<td>Sweating</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>↑↑</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Weight gain</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>↑↑</td>
<td>-</td>
</tr>
<tr>
<td>Nausea, gastrointestinal</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>-</td>
<td>↑↑</td>
<td>-</td>
</tr>
<tr>
<td>Sexual</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>↑↑</td>
<td>-</td>
<td>↑↑</td>
<td>-</td>
</tr>
</tbody>
</table>

Adapted from Preskorn.31
† Increases occurrence.
↓ Decreases occurrence.
*Can increase blood pressure; must be monitored.
† Dry mouth, constipation, urinary hesitancy or retention, blurred vision.

Benzodiazepines should be avoided in patients who have substance abuse problems (or a history of substance abuse) or major concomitant depression. A psychiatrist should be consulted before prescribing benzodiazepines for these patients if other pharmacologic options do not work or cannot be tolerated.

Benzodiazepines might be preferred for some bipolar disorder patients with panic since antidepressants can precipitate mania or increase cyclicity of mood.24 Benzodiazepines may be added to antidepressant therapy for patients who are only partially responsive to therapy. Although cognitive behavioral therapy is likely to work equally well, the structured, multicomponent, cognitive behavioral therapy found to be effective in studies25 might be less available in primary care settings.

Preferred medications are alprazolam 2 to 6 mg (in divided doses three to four times daily) or clonazepam 1.5 to 4 mg (in divided doses twice a day). Begin gradually (0.25 mg three or four times a day or 0.5 mg twice a day) and titrate gradually upward. Lower doses can appear to work well initially but will often be associated with partial exacerbations of panic with time. Underdosing with these medications, because of fear of addicting patients, is the most common error family physicians make when treating panic disorder with benzodiazepines.

Modifications for Patients on Medication

Benzodiazepines
If the patient is taking a benzodiazepine on a regular schedule, that schedule should be continued for at least the first 3 months so that withdrawal symptoms do not complicate or interfere with antipanic response to antidepressants. The benzodiazepine should be prescribed using a pharmacokinetically appropriate schedule to minimize daily withdrawal or interdose anxiety (alprazolam 4 times daily; clonazepam 2 times daily). After the patient has been taking antidepressants for 3 months, a tapered withdrawal of the benzodiazepine can be started, as described under Maintenance Treatment. If the patient is taking a benzodiazepine on an as-needed basis (four or fewer times a week), the patient should minimize use and attempt to stop gradually during the first few months of treatment with antidepressants.

Antidepressants
Optimize the dose of the antidepressant with dosage adjustments unless there is evidence of clear nonresponse to an adequate dose, the patient cannot tolerate the side-effects, or the patient wants to discontinue the medication. Table 5 displays a dosing schedule. If the patient has an inadequate response or complains of side effects, use the algorithm for the selection of medication.
Table 4. Recommendations for Managing Side Effects of Pharmacotherapy for Panic Disorder.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Suggested Management</th>
</tr>
</thead>
</table>
| Insomnia                     | Move dosing to early part of day  
                              | Add trazodone 50 - 200 mg at bedtime  
                              | In men concerned about priapism, use zolpidem (Ambien) 10 mg, if there are no concerns regarding abuse  
                              | Add nortriptyline 25 - 50 mg at bedtime  
                              | Switch antidepressant to paroxetine or fluvoxamine; nefazodone as later option |
| Nausea and diarrhea          | Take with food  
                              | Encourage patient persistence (should reduce with time)  
                              | Reduce dose for 4 - 7 days, then reintroduce higher dose  
                              | Switch antidepressant (to another SSRI or nortriptyline)  
                              | Add nizatidine-famotidine (A cid/Pep cid) for dyspepsia; diphenoxylate-atropine (Lomotil), acidophilus for diarrhea |
| Sedation                     | Move dosing to bedtime  
                              | Encourage patient persistence (might reduce with time)  
                              | Switch antidepressant (eg, to fluoxetine or sertraline) |
| Delayed ejaculation, anorgasmania | Add buspirone 10 mg twice a day  
                                  | Add bupropion 75 mg every morning to twice a day  
                                  | Add amantadine 100 mg two to three times a day  
                                  | Consider weekend drug holidays (will not work with fluoxetine)  
                                  | Switch to nefazodone |

SSRI = selective serotonin reuptake inhibitor.

Regular, Low-Dose Sedating Antidepressants

Nortriptyline, amitriptyline, doxepin, or trazodone may be continued at low bedtime doses for the first several months or, if needed, for the long term to avoid exacerbating sleep disturbance. If these antidepressant medications are administered concomitantly with SSRIs, however, paroxetine and fluoxetine are more likely than fluvoxamine or sertraline to increase levels of the tricyclic antidepressants because of cytochrome P-450 2D6 enzyme inhibition.

Thymoleptics

For the patient with bipolar mood disorder who has panic attacks, valproic acid (aim for blood levels of 50 - 100 pg/mL) would be the treatment of choice because open case series findings suggest it has some antipanic efficacy. The newer anticonvulsant, gabapentin, is another excellent choice, using 900 - 2100 mg in three divided doses (no blood level measurements required). If the patient's condition is stabilized with lithium, however, this medication should not be changed. In both cases adjunctive treatment with a benzodiazepine should be considered as the first choice, especially for patients who have a history of rapid cycling (ie, more than 3 to 4 highs and lows per year), because antidepressants can increase mood cycling or precipitate mania.

Titration

Table 5 displays a specific schedule for each medication. Dose increases at week 1 are predicated on no side effects. Dose increases at week 3 may be avoided if the patient has an early excellent response. For patients who have only a partial response by week 6 and for whom there is a clear need for further improvement, doses should be pushed to the top dose indicated and continued for another 6 weeks.

Management of Side Effects

Management of side effects can include, aside from routine dose reduction with an attempt to preserve efficacy, substitution of another recommended antidepressant that has a more benign side-effect profile. Comparative side effects for the medications are found in Table 3, and strategies for management of common side effects of SSRIs in particular are outlined in Table 4.

Indications for Psychiatric Consultation

A psychiatrist should be consulted for any of the following reasons:

Severe suicidal ideation: The patient has not simply thoughts but impulse, intent, or a specific plan regardless of a stated wish not to commit suicide.

Intolerable side effects: A patient has such severe problems with side effects that he or she is unable to take an adequate dose of the prescribed medication and has had to be switched to several (ie, more than two) medications because of similar intolerance.

Nonadherence: The patient, despite an absence of severe side effects, for whatever reason does not wish to continue taking medication. This decision might be related to marked symptom remission or despite persistent symptoms. The psychiatrist will advise whether medication can be discontinued in light of the patient's history.

No response by week 6: There are indications af-
Table 5. Medication Dosing Schedule for Treatment of Panic Disorder.

<table>
<thead>
<tr>
<th>Medication</th>
<th>Begin</th>
<th>Week 1</th>
<th>Week 2</th>
<th>Week 3</th>
<th>Week 4</th>
<th>Top Doses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoxetine</td>
<td>5 mg qam*</td>
<td>10 mg</td>
<td>20 mg</td>
<td>20 mg</td>
<td>20 mg</td>
<td>40 mg</td>
</tr>
<tr>
<td>Fluvoxamine</td>
<td>25 mg bid</td>
<td>50 mg bid</td>
<td>50 mg bid</td>
<td>75 mg bid</td>
<td>75 mg bid</td>
<td>150 mg bid</td>
</tr>
<tr>
<td>Paroxetine</td>
<td>10 mg qam</td>
<td>20 mg</td>
<td>30 mg</td>
<td>40 mg</td>
<td>40 mg</td>
<td>50 mg</td>
</tr>
<tr>
<td>Sertraline</td>
<td>25 mg qam</td>
<td>50 mg</td>
<td>50 mg</td>
<td>100 mg</td>
<td>100 mg</td>
<td>200 mg</td>
</tr>
<tr>
<td>Venlafaxine</td>
<td>12.5 mg bid</td>
<td>25 mg bid</td>
<td>50 mg bid</td>
<td>50 mg bid</td>
<td>75 mg bid</td>
<td>150 mg bid</td>
</tr>
<tr>
<td>Nortriptyline</td>
<td>25 mg qhs†</td>
<td>50 mg qhs</td>
<td>75 mg qhs</td>
<td>75 mg qhs</td>
<td>100 mg qhs</td>
<td>125 mg qhs</td>
</tr>
<tr>
<td>Nefazodone</td>
<td>50 mg bid</td>
<td>75 mg qhs</td>
<td>100 mg bid</td>
<td>150 mg bid</td>
<td>150 mg bid</td>
<td>250 mg bid</td>
</tr>
</tbody>
</table>

*If significant insomnia or agitation, reduce to 2 mg qam. Then increase to 4 mg, 6 mg, 10 mg, and 20 mg at end of each subsequent week.
†If insomnia or agitation, reduce to 10 mg qhs, up-titrated by 10 mg every 2-3 days to 50 mg, then resume usual up-titration.

After the fifth week of treatment of less than 25 percent response (improvement on at least one of the measures of either anticipatory anxiety, panic frequency, or phobia). This timeline is based on pilot data indicating that in depressed patients failure to improve by at least 25 percent by week 6 predicts poor long-term response with 95 percent accuracy.27

Maintenance Treatment

General Recommendation

Patients should be encouraged to stay on pharmacotherapy for at least 1 year. If the patient expresses a strong desire to discontinue medication, the decision should be approved only if none of the following conditions exist: (1) continued symptoms of either panic, anticipatory anxiety, or phobic avoidance; (2) major psychosocial stress; and (3) serious medical illness.

Patients wishing to discontinue medication in the face of any of these three situations must be alerted to the probability that symptomatic relapse is greatest if all of these conditions are present and least if none of them is present.

Benzodiazepines

Patients should be encouraged to discontinue benzodiazepine therapy if they are concurrently taking an antidepressant and their symptoms of panic, anxiety, and phobia have resolved. The taper can be initiated at 12 weeks (after acute treatment) if the symptoms have almost completely resolved. A taper rate of about 10 percent (± 5 percent) per week is recommended, based on the most convenient increments of 0.5 or 0.25 mg. The taper should take 10 to 16 weeks, as studies have shown slower tapers produce less frequent withdrawal reactions.28,29 If symptoms reappear, the patient should be given the dosage that previously had provided symptomatic relief. After several weeks a slower taper can be initiated, if desired.

Indefinite Maintenance

Evidence clearly suggests that in the long term many patients with panic disorder continue to have symptoms of depression, moderate phobic avoidance, or a personality disorder, all independently predicting a less than optimal outcome.30 Certainly patients who remain symptomatic or are exposed to the additional stress of medical illness or patients who have relapsed after discontinuing treatment should continue taking their medication. If there are minimal side effects and the patient has symptoms of two of the above three conditions, medication should be continued.

Medication Taper and Discontinuation

Patients should be advised to stay on medication for at least 1 year. If patients insist on discontinuation, the following guidelines should be used. Antidepressants should be tapered gradually during a 4-week period using a titration schedule in reverse of that followed when the patient started the medication. If symptoms reappear, the taper should be stopped and the dosage increased to the previous level at which symptoms were not present. Tapering the medication can begin again at a later time.

A discussion of tapering benzodiazepines is addressed under Maintenance Treatment.

Jack Gorman, MD, Deborah Cowley, MD, and Mark Pollack, MD, reviewed these guidelines from the psychiatric perspective; and Elizabeth Linn, MD, and Joseph Lieberman, MD, reviewed these guidelines from the family physician perspective regarding feasibility and advisability of implementing them in the primary care setting.
References


