A clinical approach to pharmacotherapy for personality disorders

Evidence is limited, but these principles and strategies can help guide prescribing

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DSM-5 defines personality disorders (PDs) as the presence of an enduring pattern of inner experience and behavior that “deviates markedly from the expectations of the individual’s culture, is pervasive and inflexible, has an onset in adulthood, is stable over time, and leads to distress or impairment.” As a general rule, PDs are not limited to episodes of illness, but reflect an individual’s long-term adjustment. These disorders occur in 10% to 15% of the general population; the rates are especially high in health care settings, in criminal offenders, and in those with a substance use disorder (SUD). PDs nearly always have an onset in adolescence or early adulthood and tend to diminish in severity with advancing age. They are associated with high rates of unemployment, homelessness, divorce and separation, domestic violence, substance misuse, and suicide.

Psychotherapy is the first-line treatment for PDs, but there has been growing interest in using pharmacotherapy to treat PDs. While much of the PD treatment literature focuses on borderline PD, this article describes diagnosis, potential pharmacotherapy strategies, and methods to assess response to treatment for patients with all types of PDs.

Recognizing and diagnosing personality disorders
The diagnosis of a PD requires an understanding of DSM-5 criteria combined with a comprehensive psychiatric history and mental status examination. The patient’s history is the most important basis for diagnosing a PD. Collateral information from relatives or friends can help
confirm the severity and pervasiveness of the individual’s personality problems. In some patients, long-term observation might be necessary to confirm the presence of a PD. Some clinicians are reluctant to diagnose PDs because of stigma, a problem common among patients with borderline PD.10,11

Table 1

<table>
<thead>
<tr>
<th>Questions from the Iowa Personality Disorder Screen</th>
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<tbody>
<tr>
<td>Do you often have days when your mood is constantly changing?</td>
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<tr>
<td>How do you feel when you are not the center of attention?</td>
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<tr>
<td>Do you frequently insist on having what you want right now?</td>
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<tr>
<td>Are you concerned that certain friends or co-workers are not really loyal or trustworthy?</td>
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<tr>
<td>Are you concerned about saying the wrong things in front of other people?</td>
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<tr>
<td>How often do you avoid getting to know someone because you are worried he or she may not like you?</td>
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Source: Reference 12

Table 2

<table>
<thead>
<tr>
<th>Potential PD symptom dimensions to target</th>
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<tbody>
<tr>
<td>Mood instability</td>
</tr>
<tr>
<td>Depression/anxiety</td>
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<tr>
<td>Psychotic-like symptoms/dissociation/identity disturbance</td>
</tr>
<tr>
<td>Anger/hostility</td>
</tr>
<tr>
<td>Self-harm</td>
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<tr>
<td>Impulsivity</td>
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</table>

PD: personality disorder

The PD clusters

DSM-5 divides 10 PDs into 3 clusters based on shared phenomenology and diagnostic criteria. Few patients have a “pure” case in which they meet criteria for only a single personality disorder.1

Cluster A. “Eccentric cluster” disorders are united by social aversion, a failure to form close attachments, or paranoia and suspiciousness.15 These include paranoid, schizoid, and schizotypal PD. Low self-awareness is typical. There are no treatment guidelines for these disorders, although there is some clinical trial data for schizotypal PD.

Cluster B. “Dramatic cluster” disorders share dramatic, emotional, and erratic characteristics.14 These include narcissistic, antisocial, borderline, and histrionic PD. Antisocial and narcissistic patients have low self-awareness. There are treatment guidelines for antisocial and borderline PD, and a variety of clinical trial data is available for the latter.15

Cluster C. “Anxious cluster” disorders are united by anxiousness, fearfulness, and poor self-esteem. Many of these patients also display interpersonal rigidity.15 These disorders include avoidant, dependent, and obsessive-compulsive PD. There are no treatment guidelines or clinical trial data for these disorders.

Why consider pharmacotherapy for personality disorders?

The consensus among experts is that psychotherapy is the treatment of choice for PDs.15 Despite significant gaps in the evidence base, there has been a growing interest in using psychotropic medication to treat PDs. For example, research shows that >90% of patients with borderline PD are prescribed medication, most typically antidepressants, antipsychotics, mood stabilizers, stimulants, or sedative-hypnotics.16,17

Increased interest in pharmacotherapy for PDs could be related to research showing the importance of underlying neurobiology, particularly for antisocial and borderline PD.18,19 This work is complemented by genetic research showing the heritability of PD traits and disorders.20,21 Another factor could be renewed interest in dimensional
approaches to the classification of PDs, as exemplified by DSM-5’s alternative model for PDs. This approach aligns with some expert recommendations to focus on treating PD symptom dimensions, rather than the syndrome itself.

Importantly, no psychotropic medication is FDA-approved for the treatment of any PD. For that reason, prescribing medication for a PD is “off-label,” although prescribing a medication for a comorbid disorder for which the drug has an FDA-approved indication is not (eg, prescribing an antidepres-sant for major depressive disorder [MDD]).

**Principles for prescribing**

Despite gaps in research data, general principles for using medication to treat PDs have emerged from treatment guidelines for antisocial and borderline PD, clinical trial data, reviews and meta-analyses, and expert opinion. Clinicians should address the following considerations before prescribing medication to a patient with a PD.

**PD diagnosis.** Has the patient been properly assessed and diagnosed? While history is the most important basis for diagnosis, the clinician should be familiar with the PDs and DSM-5 criteria. Has the patient been informed of the diagnosis and its implications for treatment?

**Patient interest in medication.** Is the patient interested in taking medication? Patients with borderline PD are often prescribed medication, but there are sparse data for the other PDs. The patient might have little interest in the PD diagnosis or its treatment.

**Comorbidity.** Has the patient been assessed for comorbid psychiatric disorders that could interfere with medication use (ie, an SUD) or might be a focus of treatment (eg, MDD)? Patients with PDs typically have significant comorbidity that a thorough evaluation will uncover.

**PD symptom dimensions.** Has the patient been assessed to determine cognitive or behavioral symptom dimensions of their PD? One or more symptom dimension(s) could be the focus of treatment. Table 2 (page 28) lists examples of PD symptom dimensions.

**Strategies to guide prescribing**

Strategies to help guide prescribing include targeting any comorbid disorder(s), targeting important PD symptom dimensions (eg, impulsive aggression), choosing medication based on the similarity of the PD to another disorder known to respond to medication, and targeting the PD itself.

**Targeting comorbid disorders.** National Institute for Health and Care Excellence

### Table 3

<table>
<thead>
<tr>
<th>What to consider before prescribing for a patient with a PD</th>
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<tbody>
<tr>
<td><strong>Potential for overdose.</strong> Many patients with PDs are at risk for suicide or self-harm; for such patients, consider prescribing a medication that is not dangerous in overdose</td>
</tr>
<tr>
<td><strong>Potential for habituation or abuse.</strong> Benzodiazepines are not recommended because they might increase acting-out behaviors and self-harm, nor should they be prescribed to patients with a history of substance use disorders</td>
</tr>
<tr>
<td><strong>Sensitivity for adverse effects.</strong> Because many patients with PDs are exquisitely sensitive to medication adverse effects, start with very low doses</td>
</tr>
<tr>
<td><strong>Concerns about weight gain and metabolic adverse effects.</strong> Patients with borderline PD are often obese and at risk for metabolic adverse effects such as glucose intolerance or diabetes; in these patients, some second-generation antipsychotics could cause weight gain or increase their risk for metabolic syndrome</td>
</tr>
<tr>
<td><strong>Treatment compliance.</strong> Emphasizing compliance with treatment will help assure a successful medication trial</td>
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<tr>
<td><strong>Referral for psychotherapy.</strong> Psychotherapy can help patients by targeting their many psychosocial issues (low self-esteem, difficult interpersonal relationships, magical thinking, etc.). A patient with borderline PD should be referred to an evidence-based treatment program</td>
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</tbody>
</table>

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guidelines for antisocial and borderline PD recommend that clinicians focus on treating comorbid disorders, a position echoed in Cochrane and other reviews.4-6,15 There is some evidence that mood stabilizers or second-generation antipsychotics could help reduce impulsive aggression in patients with antisocial PD.27

Choosing medication based on similarity to another disorder known to respond to medication. Avoidant PD overlaps with social anxiety disorder and can be conceptualized as a chronic, pervasive social phobia. Avoidant PD might respond to a medication known to be effective for treating social anxiety disorder, such as a selective serotonin reuptake inhibitor (SSRI) or venlafaxine.28 Treating obsessive-compulsive PD with an SSRI is another example of this strategy, as 1 small study of fluvoxamine suggests.29 Obsessive-compulsive PD is common in persons with obsessive-compulsive disorder, and overlap includes preoccupation with orders, rules, and lists, and an inability to throw things out.

Targeting the PD syndrome. Another strategy is to target the PD itself. Clinical trial data suggest the antipsychotic risperidone can reduce the symptoms of schizotypal PD.30 Considering that this PD has a genetic association with schizophrenia, it is not surprising that the patient’s ideas of reference, odd communication, or transient paranoia might respond to an antipsychotic. Data from randomized controlled trials (RCTs) support the use of the second-generation antipsychotics aripiprazole and quetiapine to treat BPD.31,32 While older guidelines4,5 supported the use of the mood stabilizer lamotrigine, a recent RCT found that it was no more effective than placebo for borderline PD or its symptom dimensions.33

What to do before prescribing
Before writing a prescription, the clinician and patient should discuss the presence of a PD and the desirability of treatment.

Table 4

Validated scales that could be used to measure PD symptom dimensions

<table>
<thead>
<tr>
<th>Scale</th>
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<tr>
<td>Brief Psychiatric Rating Scale</td>
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<tr>
<td>Modified Overt Aggression Scale</td>
</tr>
<tr>
<td>State-Trait Anger Expression Inventory</td>
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<tr>
<td>Beck Depression Inventory</td>
</tr>
<tr>
<td>Positive and Negative Syndrome Scale</td>
</tr>
<tr>
<td>Affective Lability Scale</td>
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</tbody>
</table>

Table 5

Sample questions from the ZAN-BPD42 and BEST43

ZAN-BPD
During the past week, have you...
• felt very angry?
• found that your mood has changed suddenly?
• been unsure of who you are or what you’re really like?
• had episodes where you felt spaced out or numb?
• felt as though you were being abandoned though you really weren’t?
• deliberately hurt yourself without meaning to kill yourself?
• felt hatred towards someone you care about and need?

BEST
During the past week, how much has each of the following caused distress, relationship problems, or interfered in getting things done:
• worrying that someone important in your life is tired of you or planning to leave you
• severe mood swings several times a day
• feeling angry
• feeling of emptiness
• feeling suicidal
• going to extremes to keep someone from leaving you.

BEST: Borderline Evaluation of Severity Over Time; ZAN-BPD: Zanarini Rating Scale for Borderline Personality Disorder

Clinical Point
Consider choosing a medication based on the similarity of the patient’s symptoms to another disorder known to respond to medication.
The patient should understand the limited evidence base and know that medication prescribed for a PD is off-label. The clinician should discuss medication selection and its rationale, and whether the medication is targeting a comorbid disorder, symptom dimension(s), or the PD itself. Additional considerations for prescribing for patients with PDs are listed in Table 3 [page 29].

Avoid polypharmacy. Many patients with borderline PD are prescribed multiple psychotropic medications. This approach leads to greater expense and more adverse effects, and is not evidence-based.

Avoid benzodiazepines. Many patients with borderline PD are prescribed benzodiazepines, often as part of a polypharmacy regimen. These drugs can cause disinhibition, thereby increasing acting-out behaviors and self-harm. Also, patients with PDs often have SUDs, which is a contraindication for benzodiazepine use.

Rate the patient’s improvement. Both the patient and clinician can benefit from monitoring symptomatic improvement. Several validated scales can be used to rate depression, anxiety, impulsivity, mood lability, anger, and aggression (Table 4, page 30). Some validated scales for borderline PD align with DSM-5 criteria. Two such widely used instruments are the Zanarini Rating Scale for Borderline Personality Disorder (ZAN-BPD) and the self-rated Borderline Evaluation of Severity Over Time (BEST). Each has questions that could be pulled to rate a symptom dimension of interest, such as affective instability, anger dyscontrol, or abandonment fears (Table 5, page 30).

A visual analog scale is easy to use and can target symptom dimensions of interest. For example, a clinician could use a visual analog scale to rate mood instability by asking a patient to rate their mood severity by making a mark along a 10-cm line (0 = “Most erratic emotions I have experienced,” 10 = “Most stable I have ever experienced my emotions to be”). This score can be recorded at baseline and subsequent visits.

Take-home points
PDs are common in the general population and health care settings. They are under-recognized by the general public and mental health professionals, often because of stigma. Clinicians could boost their recognition of these disorders by embedding simple screening questions in their patient assessments. Many patients with PDs will be interested in pharmacotherapy for their disorder or symptoms. Treatment strategies include targeting the comorbid disorder(s), targeting important PD symptom dimensions, choosing medication based on the similarity of the PD with another disorder known to respond to medication, and targeting the PD itself. Each strategy has its limitations and varying degrees of empirical support. Treatment response can be monitored using validated scales or a visual analog scale.

Bottom Line
Although psychotherapy is the first-line treatment and no medications are FDA-approved for treating personality disorders (PDs), there has been growing interest in using psychotropic medication to treat PDs. Strategies for pharmacotherapy include targeting comorbid disorders, PD symptom dimensions, or the PD itself. Choice of medication can be based on the similarity of the PD with another disorder known to respond to medication.
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Clinical Point
Clinicians could boost their recognition of PDs by embedding simple screening questions in their patient assessments

References