

Premenstrual dysphoric disorder

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Premenstrual Dysphoric Disorder (PMDD)

Primary Disciplinary Field(s): Psychiatry, Gynecology, Endocrinology, Women's Health

1. Core Definition and Epidemiology

Premenstrual Dysphoric Disorder (PMDD) is a severe, debilitating condition characterized by a constellation of emotional, behavioral, and physical symptoms that arise consistently during the **luteal phase** (final week) before menstruation and remit completely or significantly within a few days after the onset of menses. Recognized by the American Psychiatric Association (APA) as a distinct diagnostic category within the **Depressive Disorders** section of the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5), PMDD is functionally impairing and distinct from the milder and more common premenstrual syndrome (PMS). Symptoms include marked affective lability, irritability, depressed mood, or anxiety, causing clinically significant distress or interference with daily functioning.

Epidemiologically, PMDD affects a smaller, more specific subgroup of menstruating individuals compared to PMS. Studies employing rigorous diagnostic methods, including mandatory **prospective daily symptom charting**, estimate that the disorder affects approximately 1.8% to 5.8% of menstruating individuals worldwide. This prevalence figure underscores the condition's specificity and severity. Onset typically occurs during adolescence or early adulthood, and symptoms naturally remit only upon menopause (though they may reappear if hormone replacement therapy is initiated).

2. Etymology and Historical Development

The recognition of cyclical, premenstrual mood changes has roots in historical medical texts, yet the formal medicalization of severe symptoms emerged primarily in the 20th century. Early modern conceptualization is often attributed to Robert Frank's 1931 paper, "The Hormonal Causes of Premenstrual Tension," which linked symptoms to hormonal imbalances. This foundational work established the clinical dialogue around premenstrual symptoms (PMS).

The journey toward defining a distinct, severe premenstrual psychiatric entity was gradual and characterized by nosological debate regarding the pathologization of normal female functioning. A crucial step occurred with the inclusion of "Late Luteal Phase Dysphoric Disorder" (LPDD) in the appendix of the **DSM-III-R (1987)**, designated for further study, marking the formal acknowledgment of a mood-centric premenstrual disorder. Subsequent research led to its inclusion in the DSM-IV (1994) appendix, still pending full integration. Finally, decades of evidence supporting its distinct pathophysiology, predictable course, and significant functional impairment led to the formal inclusion of **Premenstrual Dysphoric Disorder (PMDD)** as an independent

diagnosis within the main body of the **DSM-5 (2013)**, solidifying its status as a recognized clinical condition.

3. Diagnostic Criteria (DSM-5)

Diagnosis requires adherence to strict criteria, emphasizing the cyclical timing of symptoms and their severity. Crucially, the temporal pattern must be confirmed by prospective daily ratings over at least two consecutive cycles. The key criteria, based on the DSM-5, are outlined below:

Core Symptom Requirements (Criteria A, B, and C)

In the majority of menstrual cycles during the past year, at least five specific symptoms must be present in the final week before menses onset, improve within a few days after menses onset, and become minimal or absent in the week post-menses. These symptoms must include at least one from Criterion B (core mood symptoms) and one or more from Criterion C (additional symptoms), totaling five or more symptoms.

Criterion B: Core Mood Symptoms (One or more required)

Marked **affective lability** (e.g., mood swings; feeling suddenly sad or tearful, or increased sensitivity to rejection).

Marked **irritability or anger** or increased interpersonal conflicts.

Marked **depressed mood**, feelings of hopelessness, or self-deprecating thoughts.

Marked **anxiety**, tension, and/or feelings of being keyed up or on edge.

Criterion C: Additional Symptoms (One or more required)

Decreased interest in usual activities (e.g., work, school, friends, hobbies).

Subjective difficulty in **concentration**.

Lethargy, easy fatigability, or marked lack of energy.

Marked change in appetite; overeating; or specific food cravings.

Hypersomnia or insomnia.

A sense of being **overwhelmed** or out of control.

Physical symptoms such as breast tenderness or swelling, joint or muscle pain, a sensation of "bloating," or weight gain.

Mandatory Clinical Requirements (Criteria D, E, F, G, H)

Criterion D/G (Prospective Confirmation): The symptoms must be confirmed by prospective daily ratings during at least two consecutive symptomatic cycles, as retrospective recall is unreliable.

Criterion E (Impairment): The symptoms must be associated with clinically significant distress or

interference with work, school, usual social activities, or relationships.

Criterion F (Exclusion): The disturbance is not merely an exacerbation of the symptoms of another disorder (e.g., Major Depressive Disorder), although co-morbidity may exist.

Criterion H (Medical Exclusion): Symptoms are not attributable to substance use or another medical condition (e.g., thyroid dysfunction).

4. Etiology and Neurobiological Mechanism

PMDD is understood through a **multifactorial model** rooted in an abnormal central nervous system response to normal cyclical fluctuations of ovarian hormones, rather than abnormal hormone levels themselves. Research highlights an intrinsic biological vulnerability, likely genetic, that leads to hypersensitivity within specific neurochemical pathways during the luteal phase.

A key focus is the **serotonergic (5-HT) system**. Serotonin is critical in regulating mood and impulse control, which are often disturbed in PMDD. The high efficacy of **Selective Serotonin Reuptake Inhibitors (SSRIs)**, even when administered intermittently only during the luteal phase, strongly suggests that PMDD involves a cyclical dysregulation of serotonin neurotransmission modulated by ovarian hormones.

Another major pathway involves the neuroactive steroid **allopregnanolone (ALLO)**, a metabolite of progesterone and a positive modulator of the GABAA receptor (the brain's primary inhibitory system). Normally calming, ALLO fluctuations during the luteal phase appear to trigger a **paradoxical response** in women with PMDD, leading to increased anxiety, irritability, and negative mood, likely due to altered GABAA receptor sensitivity. Furthermore, genetic research has identified altered expression of genes within the **ESC/SET complex** in PMDD patients, providing molecular evidence for an inherent difference in how their cells respond to estrogen and progesterone.

5. Impact on Functioning and Quality of Life

The impact of PMDD is severe and cyclical, significantly reducing health-related quality of life. The requirement for clinically significant impairment distinguishes PMDD from milder PMS.

Interpersonal Relationships: Marked irritability, anger, and affective lability lead to frequent interpersonal conflicts, relationship strain, and social withdrawal, often followed by guilt during the asymptomatic phase.

Occupational and Academic Performance: Cognitive symptoms (difficulty concentrating, lethargy, decreased interest) impair productivity at work or school, potentially leading to absenteeism, reduced achievement, and feelings of incompetence.

Suicidality: PMDD carries a heightened and serious risk of **suicidal ideation and behavior**, particularly during the symptomatic luteal phase. This consequence underscores the disorder's

severity and the need for prompt clinical intervention and safety planning.

6. Treatment Strategies

Treatment for PMDD typically follows a stepped-care, multimodal approach, with **SSRIs** recognized as the first-line pharmacological intervention.

Pharmacological Interventions

Selective Serotonin Reuptake Inhibitors (SSRIs): Highly effective, SSRIs (such as fluoxetine or sertraline) can be administered continuously (daily) or intermittently (starting mid-cycle and stopping at menses onset). Intermittent dosing is often preferred as it minimizes medication exposure and side effects while maintaining rapid efficacy.

Hormonal Suppression: Certain combined **Oral Contraceptives (OCPs)**, particularly those containing drospirenone, are approved for PMDD treatment as they suppress ovulation and stabilize hormonal shifts. For severe, refractory cases, **GnRH Agonists** may be used to induce temporary medical menopause, effectively eliminating cyclical fluctuations, though these require add-back therapy to mitigate estrogen deficiency side effects.

Non-Pharmacological and Complementary Approaches

Cognitive Behavioral Therapy (CBT): Adapted CBT is a promising non-pharmacological option focusing on identifying and modifying negative thought patterns, improving stress management, and enhancing coping mechanisms. It can be used alone or as an adjunct to medication.

Nutritional Supplements: High-dose **Calcium supplementation** (1000-1200 mg/day) and certain herbal remedies like Chasteberry (Vitex agnus-castus) have shown some efficacy for managing symptoms, as have regular aerobic **exercise** and improved **sleep hygiene**.

7. Further Reading

The following authoritative resources offer detailed information on PMDD:

[Premenstrual Dysphoric Disorder \(PMDD\) Overview](#) (Wikipedia)

[Diagnostic and Statistical Manual of Mental Disorders \(DSM-5\) Criteria](#) (American Psychiatric Association)

[PMDD: Pathophysiology and Treatment](#) (NIH/Academic Review)

[Selective Serotonin Reuptake Inhibitors \(SSRIs\) in PMDD](#) (General Information)