

# Panic Disorder

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## Panic Disorder (PD)

**Primary Disciplinary Field(s):** Clinical Psychology, Psychiatry, Neuroscience

### 1. Core Definition and Clinical Presentation

Panic Disorder (PD) is a debilitating anxiety condition characterized by **recurrent, unexpected panic attacks** followed by a persistent concern about having additional attacks or their consequences, and/or significant changes in behavior aimed at avoiding potential triggers. The onset of PD is often marked by an abrupt surge of overwhelming terror or intense discomfort, known as a panic attack, which typically reaches its peak intensity within minutes.

While an isolated panic attack can occur in response to specific stressors or spontaneously in many healthy individuals throughout their lives, Panic Disorder represents a more pervasive condition. The defining feature that distinguishes PD is the element of **unpredictability**, which leads to chronic anticipatory anxiety--the persistent dread of the next attack. This intense fear of fear, coupled with subsequent avoidance behaviors (often culminating in agoraphobia), can profoundly disrupt an individual's social, occupational, and personal functioning.

The intense physiological and cognitive symptoms experienced during an attack--such as pounding heart, shortness of breath, dizziness, and fear of dying or losing control--often lead sufferers to seek emergency medical attention, fearing a life-threatening medical event like a heart attack or stroke. Understanding the cyclical relationship between catastrophic cognitive misinterpretation and bodily sensations is central to grasping the mechanism of this disorder.

### 2. Diagnostic Criteria (DSM-5)

The Diagnostic and Statistical Manual of Mental Disorders, 5th Edition (DSM-5) (APA, 2013) defines a panic attack as an abrupt surge of intense fear or discomfort that peaks within minutes, accompanied by four or more of a specific list of 13 symptoms. To meet the formal diagnostic criteria for Panic Disorder (DSM-5 code 300.01 ), the following criteria must be met:

**Recurrent unexpected panic attacks** (Criterion A).

At least one of the attacks must be followed by one month (or more) of **either or both** of the following (Criterion B):

**Persistent concern or worry** about additional panic attacks or their consequences (e.g., losing control, having a heart attack, "going crazy").

A **significant maladaptive change in behavior** related to the attacks (e.g., avoidance of physical

exertion, certain foods, or specific situations).

The disturbance is not attributable to the physiological effects of a substance or another medical condition (Criterion C), nor is it better explained by another mental disorder (Criterion D).

Panic attacks are further categorized based on their relationship to cues: **Unexpected Panic Attacks** occur "out of the blue" without an obvious trigger, and are the required element for PD diagnosis; **Expected Panic Attacks** occur predictably upon exposure to a specific feared object or situation (more common in other anxiety disorders like Specific Phobia).

The core symptoms of a panic attack are primarily physical and cognitive, including:

**Palpitations**, pounding heart, or accelerated heart rate.

**Sweating**, trembling, or shaking.

Sensations of **shortness of breath** or smothering, or feelings of choking.

**Chest pain** or discomfort.

Nausea or abdominal distress.

Feeling **dizzy**, unsteady, light-headed, or faint.

**Paresthesias** (numbness or tingling).

Derealization (feelings of unreality) or depersonalization (being detached from oneself).

**Fear of losing control** or "going crazy."

**Fear of dying.**

### 3. Epidemiology and Course

Panic Disorder is a relatively common anxiety condition. Lifetime prevalence estimates for PD in the United States adult population typically range from 2% to 6%. The 12-month prevalence is approximately 2.7%, with nearly half of these cases classified as "severe" due to functional impairment. This severity often leads to high healthcare utilization, including frequent emergency room visits, as individuals seek to rule out medical catastrophes.

The disorder generally emerges during **late adolescence or early adulthood**, with an average age of onset around 24 to 25 years. Epidemiological studies consistently demonstrate a significant gender disparity: women are approximately **2 to 2.5 times more likely** than men to receive a diagnosis of Panic Disorder during their lifetime. Furthermore, women with PD are more likely to

develop concurrent agoraphobia and may experience higher rates of relapse.

The course of Panic Disorder is often **chronic and fluctuating** if left untreated, sometimes persisting for many years. While spontaneous remission can occur, relapse is common, particularly following stressful life events. However, with evidence-based treatment, the long-term prognosis is generally favorable, with a large majority of patients achieving substantial, lasting remission.

#### 4. Etiology: Biopsychosocial Vulnerability

The development of PD is explained by a **biopsychosocial model**, highlighting the interaction between inherent biological vulnerabilities, psychological learning processes, and environmental stressors.

##### Biological Perspectives

Biological theories emphasize genetic predisposition and neurobiological dysregulation. Studies show that first-degree relatives of PD patients have a 4 to 8 times higher risk of developing the disorder, and heritability estimates range from 30% to 45%. Neurobiologically, the fear network is implicated, involving hyper-reactivity in threat-processing areas like the **amygdala**, and potentially insufficient top-down regulatory control from the **Prefrontal Cortex (PFC)**.

Neurotransmitter systems are central to pharmacotherapy, suggesting their role in etiology: the efficacy of SSRIs and SNRIs implicates the **Serotonin (5-HT)** and **Norepinephrine (NE)** systems, while the immediate effectiveness of benzodiazepines suggests involvement of the inhibitory neurotransmitter **GABA**. Furthermore, the **Suffocation False Alarm Theory** posits that some individuals have a hypersensitive physiological monitor in the brainstem that falsely interprets subtle increases in carbon dioxide (CO<sub>2</sub>) or other respiratory cues as signs of suffocation, initiating a panic attack.

#### 5. Etiology: Psychological Models

Psychological models focus on how individuals process and react to internal and external cues:

**Cognitive Models (Clark):** This influential theory suggests that panic attacks are driven by the **catastrophic misinterpretation of benign bodily sensations**. A slight physical change (e.g., heart palpitation) is misinterpreted as a disaster ("I'm having a heart attack"), which triggers intense anxiety, further amplifying the physical sensation and escalating the cycle into a full-blown attack. Maintenance factors include hypervigilance for bodily signs and safety behaviors that prevent the disconfirmation of the catastrophic belief.

**Learning Theories (Interoceptive Conditioning):** Based on classical conditioning, this model

posits that internal bodily sensations (interoceptive cues) that were present during an initial panic attack become conditioned stimuli. Through repeated pairing, these previously neutral sensations (e.g., mild dizziness, slightly increased heart rate) acquire the capacity to trigger conditioned fear and anxiety, leading to unexpected panic.

**Anxiety Sensitivity:** This is a dispositional risk factor defined as the fear of anxiety-related sensations, based on the belief that these sensations have harmful physical, cognitive, or social consequences. Individuals high in **anxiety sensitivity** are significantly more vulnerable to developing Panic Disorder.

The onset of PD is often precipitated by **stressful life events** or childhood adversity, which interact with these underlying biological and psychological vulnerabilities.

## 6. Assessment and Differential Diagnosis

Accurate diagnosis of Panic Disorder requires a comprehensive clinical evaluation. The assessment must establish the **recurrent and unexpected nature** of the attacks, quantify anticipatory anxiety and avoidance behaviors, and rule out other potential causes.

### Assessment Components

**Clinical Interview:** Detailed inquiry into attack characteristics, the extent of agoraphobic avoidance (assessing restrictions on daily life), medical history, substance use, and functional impairment. Standardized scales like the **Panic Disorder Severity Scale (PDSS)** and the **Anxiety Sensitivity Index (ASI-3)** supplement the interview.

**Exclusion of Medical Conditions:** Since panic symptoms mimic serious medical illnesses, a medical workup is often necessary. Conditions to rule out include **cardiovascular disorders** (e.g., arrhythmias), **endocrine disorders** (e.g., hyperthyroidism), and **substance effects** (e.g., caffeine intoxication, alcohol withdrawal).

### Differentiating from Other Psychiatric Disorders

Panic attacks frequently occur within the context of other psychiatric illnesses. The key diagnostic differentiator is the **unexpected** nature of the panic attacks in PD, followed by persistent worry focused specifically on the attacks. In contrast:

In **Specific Phobia** or **Social Anxiety Disorder**, panic attacks are typically **expected** and occur only when exposed to the specific feared object or social situation.

In **Generalized Anxiety Disorder (GAD)**, worry is chronic and pervasive across multiple life domains, rather than focused predominantly on future panic attacks.

In **Posttraumatic Stress Disorder (PTSD)**, panic attacks occur in response to trauma reminders.

## 7. Evidence-Based Treatment Approaches

Panic Disorder is highly treatable, with guidelines recommending either targeted psychotherapy or pharmacotherapy as first-line options.

### Psychotherapy: Cognitive Behavioral Therapy (CBT)

CBT is considered the gold standard psychological treatment for PD, typically delivered over 12 to 16 sessions. CBT directly addresses the maintaining cognitive and behavioral mechanisms of the disorder, offering durable, long-term effects. Key components include:

**Psychoeducation:** Explaining the panic cycle and the rationale for treatment.

**Cognitive Restructuring:** Identifying and challenging catastrophic misinterpretations of bodily sensations (e.g., changing "I'm dying" to "This is just anxiety").

**Interoceptive Exposure:** A crucial component involving the systematic induction of feared bodily sensations (e.g., spinning, breath holding) to demonstrate that these sensations are harmless and to extinguish the conditioned fear response.

**In Vivo Exposure:** Gradually confronting external situations and activities avoided due to fear of panic (e.g., public transport, crowded spaces) to reduce agoraphobic avoidance.

### Pharmacotherapy

Medication provides effective symptom management, particularly for severe cases or those with significant comorbidity:

**SSRIs and SNRIs:** These are the first-line pharmacotherapies (e.g., sertraline, fluoxetine, venlafaxine). They are effective in reducing panic attack frequency and severity and are generally favored due to their manageable side effect profiles.

**Benzodiazepines:** Agents like alprazolam or clonazepam provide rapid relief by enhancing GABA activity. However, they are generally discouraged for long-term monotherapy due to risks of **tolerance, dependence, and withdrawal**, and may interfere with the learning processes essential for CBT.

**TCAs:** Tricyclic antidepressants (e.g., imipramine) are effective but are typically reserved as second- or third-line options due to a less favorable side effect profile and higher risk in overdose compared to SSRIs.

Combined treatment (CBT + SSRI/SNRI) is often used for severe or complex cases, offering faster initial symptom reduction, though long-term outcomes may not surpass CBT alone.

## 8. Comorbidity and Prognosis

Comorbidity is the norm rather than the exception in Panic Disorder, significantly impacting severity and prognosis. The most frequent co-occurring conditions include:

**Agoraphobia:** Often develops as a consequence of PD, involving marked fear and avoidance of situations where escape might be difficult if panic occurs.

**Major Depressive Disorder (MDD):** Lifetime prevalence of MDD can be as high as 50-65% in PD sufferers, often developing secondary to the chronic functional impairment caused by panic and avoidance.

**Substance Use Disorders (SUDs):** There is an elevated risk of SUDs, particularly alcohol use disorder, representing attempts at self-medication, which ultimately worsen long-term anxiety and complicate treatment.

**Other Anxiety Disorders:** Including Generalized Anxiety Disorder (GAD), Social Anxiety Disorder, and Specific Phobias.

The presence of comorbid MDD and SUDs is associated with **greater symptom severity**, poorer response to standard treatments, increased risk of chronicity and relapse, and higher risk of suicidal ideation. Comprehensive treatment must therefore address all co-occurring conditions for optimal long-term recovery.

## Further Reading

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