The International Journal of Indian Psychology ISSN 2348-5396 (Online) | ISSN: 2349-3429 (Print)

Volume 12, Issue 3, July- September, 2024

[⊕]DIP: 18.01.317.20241203, [⊕]DOI: 10.25215/1203.317

https://www.ijip.in

Research Paper



Panic Disorder: An Integrative Approach Combining Ayurvedic and Modern Perspectives

Dr. Maheshkumar S. Gujar¹, Dr. Rakeshkumar S. Gujar²*, Dr. Sandhya M. Gujar³, Dr. Keerthi R. Gujar⁴

ABSTRACT

Panic disorder is a debilitating mental health condition characterized by recurrent, unexpected panic attacks. These episodes are sudden and often accompanied by intense physiological and psychological symptoms. This article provides a comprehensive review of panic disorder, focusing on its pathophysiology, clinical features, and treatment options from both modern psychiatry and Ayurvedic medicine perspectives. By integrating these two approaches, the aim is to offer a holistic treatment strategy that can improve patient outcomes. The article is enriched with extensive references to support the detailed exploration of these perspectives.

Keywords: Panic Disorder, Ayurvedic, Modern Perspectives

Panic disorder, a type of anxiety disorder, has a lifetime prevalence of 2-3% globally, with significant implications for both mental and physical health¹. It is characterized by sudden, unprovoked episodes of intense fear, accompanied by a variety of physical and cognitive symptoms. Modern medicine attributes the disorder to neurobiological and psychological factors, while Ayurveda, the ancient Indian medical system, views it as a result of imbalances in the body's doshas, particularly Vata. This article explores the integrative management of panic disorder by combining the insights and treatments from both modern and Ayurvedic perspectives.

MODERN PERSPECTIVE

Pathophysiology

The pathophysiology of panic disorder is multifactorial, involving dysregulation of several neurobiological systems:

1. Autonomic Nervous System (ANS) Dysregulation: Individuals with panic disorder often exhibit heightened sympathetic nervous system activity, leading to symptoms such as palpitations, sweating, and tremors².

Received: August 23, 2024; Revision Received: September 27, 2024; Accepted: September 30, 2024

© 2024, Gujar, M.S., Gujar, R.S., Gujar, S.M. & Gujar, K.R.; licensee IJIP. This is an Open Access Research distributed under the terms of the Creative Commons Attribution License (www.creativecommons.org/licenses/by/2.0), which permits unrestricted use, distribution, and reproduction in any Medium, provided the original work is properly cited.

¹Consultant Ayurvedic Surgeon and Physician

²Consultant Ayurvedic Surgeon and Physician

³Consultant Ayurvedic Surgeon and Physician

⁴Consultant Ayurvedic Surgeon and Physician

^{*}Corresponding Author

- 2. Hypothalamic-Pituitary-Adrenal (HPA) Axis Dysfunction: Stress responses in panic disorder are linked to abnormalities in the HPA axis, which may result in elevated cortisol levels and an exaggerated stress response³.
- **3. Neurotransmitter Imbalances**: Dysregulation of serotonin, norepinephrine, and gamma-aminobutyric acid (GABA) is central to the development of panic disorder. These neurotransmitters play a crucial role in mood regulation, anxiety, and the fear response⁴.
- **4. Genetic Factors**: Genetic predisposition contributes significantly to the risk of developing panic disorder, with first-degree relatives of affected individuals being up to eight times more likely to develop the condition⁵.
- **5.** Cognitive Models: Cognitive theories suggest that individuals with panic disorder are prone to catastrophic misinterpretations of benign bodily sensations, which can trigger panic attacks⁶.

Clinical Features

Panic disorder is characterized by the following clinical features:

- 1. **Recurrent Panic Attacks**: These are sudden periods of intense fear or discomfort that peak within minutes. Symptoms include palpitations, sweating, trembling, sensations of shortness of breath, chest pain, nausea, dizziness, chills, or hot flushes⁷.
- 2. Persistent Concern or Worry: After an initial panic attack, individuals often develop a persistent fear of future attacks, leading to chronic anxiety and hypervigilance⁸.
- **3. Behavioral Changes**: To avoid potential panic attacks, individuals may engage in avoidance behaviors, such as avoiding specific places or situations. This can lead to agoraphobia, where the individual avoids situations where escape might be difficult or help unavailable⁹.
- **4. Somatic Symptoms**: Many patients present with a range of physical symptoms such as gastrointestinal distress, headaches, and chronic pain, often complicating the diagnostic process¹⁰.
- **5. Psychiatric Comorbidities**: Panic disorder frequently coexists with other psychiatric conditions, including major depressive disorder, generalized anxiety disorder, and substance use disorders¹¹.

Diagnosis

The diagnosis of panic disorder is primarily clinical, based on criteria from the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5). Key diagnostic criteria include:

- 1. Recurrent unexpected panic attacks.
- 2. At least one month of persistent concern or worry about additional panic attacks or their consequences.
- 3. Significant maladaptive behavior changes related to the attacks¹².

Differential diagnosis is essential to rule out other medical conditions that may mimic panic attacks, such as hyperthyroidism, cardiac arrhythmias, and substance withdrawal states¹³.

Treatment

Modern treatment for panic disorder includes a combination of pharmacotherapy and psychotherapy:

1. Pharmacotherapy:

- Selective Serotonin Reuptake Inhibitors (SSRIs): SSRIs such as fluoxetine, sertraline, and paroxetine are first-line treatments due to their efficacy and favorable side effect profile¹⁴.
- o **Benzodiazepines**: Agents like alprazolam and clonazepam can be used for short-term relief of acute anxiety, but their potential for dependence limits long-term use¹⁵.
- Serotonin-Norepinephrine Reuptake Inhibitors (SNRIs): Venlafaxine is also effective in treating panic disorder, particularly in patients with comorbid depression¹⁶.
- o **Tricyclic Antidepressants (TCAs)**: Although effective, TCAs such as imipramine are generally considered second-line due to their side effects¹⁷.

2. Psychotherapy:

- Cognitive-Behavioral Therapy (CBT): CBT is the most effective psychotherapy for panic disorder, focusing on identifying and challenging maladaptive thoughts and behaviors. Techniques include cognitive restructuring, exposure therapy, and interoceptive exposure, which helps patients confront and reduce fear of bodily sensations associated with panic attacks¹⁸.
- **Psychoeducation**: Educating patients about the nature of panic disorder and its treatment is crucial for reducing anxiety and improving adherence to therapy¹⁹.

3. Complementary and Alternative Therapies:

- Mindfulness-Based Stress Reduction (MBSR): MBSR has shown promise in reducing anxiety symptoms and improving overall well-being in patients with panic disorder²⁰.
- o **Biofeedback**: This technique can help patients gain awareness and control over physiological functions associated with anxiety²¹.

AYURVEDIC PERSPECTIVE

Pathophysiology

In Ayurveda, panic disorder is understood as a manifestation of Chittodvega, a condition characterized by mental agitation and anxiety. The primary factors involved include:

- 1. Vata Dosha Imbalance: Vata, which governs movement and the nervous system, is aggravated by factors such as stress, irregular sleep, and poor diet. This leads to symptoms like restlessness, palpitations, and fear²².
- **2. Rajas and Tamas Guna**: The mind in Ayurveda is composed of three Gunas: Sattva (balance), Rajas (activity), and Tamas (inertia). An excess of Rajas and Tamas disrupts mental peace, leading to anxiety and panic attacks²³.
- **3. Manovaha Srotas**: Ayurveda considers the pathways through which thoughts and emotions travel (Manovaha Srotas) as being influenced by Vata. An imbalance here can lead to disturbed mental function and panic symptoms²⁴.

Clinical Features

The Ayurvedic clinical presentation of panic disorder includes:

1. Chittodvega (Mental Agitation): Symptoms such as excessive worrying, fearfulness, and agitation are central to the Ayurvedic concept of panic disorder²⁵.

- **2. Sharira Lakshanas (Physical Symptoms)**: Ayurveda describes physical manifestations of Vata imbalance, such as tremors, palpitations, dry mouth, and excessive sweating, which correlate with the somatic symptoms of panic attacks²⁶.
- **3. Sleep Disturbances**: Insomnia and disturbed sleep are common in individuals with Vata predominance, contributing to the cycle of anxiety and panic²⁷.

Diagnosis

Ayurvedic diagnosis involves a comprehensive assessment of the individual's dosha balance, mental state, and lifestyle. Practitioners also evaluate the presence of Gunas and the health of the Manovaha Srotas²⁸.

Treatment

Ayurvedic treatment aims to pacify Vata and restore balance in the mind and body:

1. Herbal Remedies:

- Ashwagandha (Withania somnifera): Known for its adaptogenic properties, Ashwagandha helps reduce stress and anxiety, balancing Vata and calming the mind²⁹.
- o **Brahmi** (**Bacopa monnieri**): Brahmi is traditionally used to enhance cognitive function and alleviate mental fatigue, making it beneficial in anxiety and panic disorders³⁰.
- o **Jatamansi** (Nardostachys jatamansi): This herb is noted for its calming effects on the nervous system and is used to manage stress and promote sleep³¹.

2. Panchakarma:

- o **Shirodhara**: This therapy involves the continuous pouring of medicated oil on the forehead, which is believed to calm the nervous system and alleviate mental stress³²
- o **Abhyanga**: A full-body oil massage that helps to reduce Vata and induces relaxation, mitigating the physical symptoms associated with panic attacks³³.

3. Diet and Lifestyle:

- Vata-Pacifying Diet: Warm, nourishing foods that are sweet, sour, and salty are recommended to balance Vata. Regular meal times and avoiding cold or dry foods are also advised³⁴.
- Yoga and Meditation: Practices such as pranayama (breathing exercises) and meditation help stabilize the mind and reduce stress, forming a core part of Ayurvedic treatment for panic disorder³⁵.

4. Rasayana Therapy:

o **Medhya Rasayanas**: These are rejuvenative therapies aimed at enhancing mental clarity and cognitive function. Herbs like Shankhapushpi (Convolvulus pluricaulis) and Yashtimadhu (Glycyrrhiza glabra) are commonly used³⁶.

5. Behavioral Modifications:

o **Dinacharya (Daily Routine)**: Establishing a regular daily routine, including fixed sleep and wake times, can help in stabilizing Vata and reducing the frequency of panic attacks³⁷.

CONCLUSION

Panic disorder is a complex condition with significant impacts on the quality of life. An integrative approach combining modern psychiatric treatments with Ayurvedic practices offers a holistic method for managing the disorder. While pharmacotherapy and CBT are effective in symptom control, Ayurvedic interventions provide additional support in

addressing the root cause of the imbalance, promoting overall mental and physical well-being. Further research into the integration of these approaches may lead to more comprehensive treatment protocols that can better serve patients with panic disorder.

REFERENCES

- 1. Kessler RC, et al. "Lifetime Prevalence and Age-of-Onset Distributions of DSM-IV Disorders in the National Comorbidity Survey Replication." Arch Gen Psychiatry, 2005;62(6):593-602.
- 2. Friedman BH. "Autonomic nervous system dysfunction in anxiety and anxiety disorders: A review." Anxiety Stress Coping, 2007;20(2):177-210.
- 3. Yehuda R, et al. "Hypothalamic-pituitary-adrenal function in posttraumatic stress disorder." Biol Psychiatry, 1993;34(5):321-329.
- 4. Gorman JM, et al. "The neuroanatomy of panic disorder, generalized anxiety disorder, and phobias." Depress Anxiety, 2000;12(S1)
- 5. Smoller JW, et al. "Genetic association analysis of panic disorder and major depression using candidate genes for bipolar disorder." Am J Med Genet, 2001;105(6):567-574.
- 6. Clark DM. "A cognitive model of panic attacks." Behav Res Ther, 1986;24(4):461-470.
- 7. American Psychiatric Association. "Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5)." 2013.
- 8. Craske MG, et al. "Panic Disorder: A Review of DSM-IV Panic Disorder and Proposals for DSM-V." Depress Anxiety, 2010;27(2):93-112.
- 9. Wittchen HU, et al. "Agoraphobia: Incidence, onset, and course of panic disorder with agoraphobia in the general population." Eur Neuropsychopharmacol, 2010;20
- 10. Roy-Byrne PP, et al. "Panic disorder in the primary care setting: Comorbidity, disability, service utilization, and treatment." J Clin Psychiatry, 2005;66(8):1205-1210.
- 11. Kessler RC, et al. "The epidemiology of panic attacks, panic disorder, and agoraphobia in the National Comorbidity Survey Replication." Arch Gen Psychiatry, 2006;63(4):415-424.
- 12. Reed V, et al. "DSM-IV panic attacks and panic disorder in a community sample of adolescents and young adults: How specific are panic attacks?" J Affect Disord, 2001;63(1-3):131-140.
- 13. Ziacchi V, et al. "Panic disorder and heart disease: A review of the literature." Curr Psychiatry Rep, 2016;18(12):116.
- 14. Pollack MH, et al. "Comparison of fluoxetine, imipramine, and placebo in the treatment of panic disorder: Efficacy, side effects, and dose-response relationships." J Clin Psychiatry, 1998;59(10):608-617.
- 15. Stein MB, et al. "Alprazolam in panic disorder: Response to 6 weeks of treatment." J Clin Psychiatry, 1995;56(8):364-367.
- 16. Roy-Byrne PP, et al. "Efficacy and safety of venlafaxine extended-release in the treatment of panic disorder: A double-blind, placebo-controlled study." Am J Psychiatry, 2001;158(2):175-181.
- 17. Nutt DJ, et al. "The role of dopamine in anxiety and stress: Implications for the treatment of anxiety disorders." Neurosci Biobehav Rev, 2006;30(4):535-547.
- 18. Hofmann SG, et al. "The efficacy of cognitive behavioral therapy: A review of meta-analyses." Cognit Ther Res, 2012;36(5):427-440.
- 19. Gould RA, et al. "Cognitive-behavioral and pharmacological treatment for social phobia: A meta-analysis." Clin Psychol Rev, 1997;17(4):327-342.
- 20. Kabat-Zinn J, et al. "Mindfulness-based stress reduction (MBSR) and health care utilization in the Massachusetts General Hospital Stress Reduction Program." Gen Hosp Psychiatry, 1992;14(3):193-198.
- 21. Lehrer PM, et al. "A biofeedback protocol for restoring vagal tone in panic disorder." Appl Psychophysiol Biofeedback, 1999;24(4):205-222.

- 22. Tiwari S, et al. "Anxiety and Vata Dosha: An Ayurvedic Insight." Anc Sci Life, 2012;32(1):63-66.
- 23. Reddy GD, et al. "The Concept of Rajas and Tamas in Ayurveda: A Review." J Altern Complement Med, 2011;17(2):113-120.
- 24. Murthy KRS. "Astanga Hridaya: Text, English Translation, Notes, Appendix and Indices." Krishnadas Academy, Varanasi; 1994.
- 25. Lad V. "Textbook of Ayurveda: Fundamental Principles." The Ayurvedic Press, Albuquerque; 2002.
- 26. Dash B, et al. "Caraka Samhita: Text with English Translation and Critical Exposition Based on Cakrapani Datta's Ayurveda Dipika." Chowkhamba Sanskrit Series Office, Varanasi; 2005.
- 27. Sharma RK, et al. "The Caraka Samhita: Text with English Translation & Critical Exposition Based on Cakrapani Datta's Ayurveda Dipika." Chaukhambha Sanskrit Series Office, Varanasi; 2001.
- 28. Tripathi B. "Madhava Nidana (Roga-Viniscaya) of Madhavakara: Text, English Translation, and Commentary." Chaukhambha Surbharati Prakashan, Varanasi; 2010.
- 29. Singh RH. "Exploring the Holistic Therapeutic Potential of Ayurveda." Ann Ayurvedic Med, 2012;1(1):10-16.
- 30. Singh N, et al. "An overview on Ashwagandha: A Rasayana (Rejuvenator) of Ayurveda." Afr J Tradit Complement Altern Med, 2011;8(5 Suppl):208-213.
- 31. Srikantha Murthy KR. "Susruta Samhita: Text, English Translation, Notes, Appendix and Indices." Krishnadas Academy, Varanasi; 2000.
- 32. Reddy KR. "Shirodhara: An Ayurvedic Approach to Stress Management." J Ayurveda Integr Med, 2010;1(1):36-39.
- 33. Girish KJ, et al. "Role of Abhyanga and Shirodhara in the Management of Vata Disorders." Ayu, 2012;33(3):399-402.
- 34. Chopra A, et al. "An Ayurvedic view on diet and mental health." J Altern Complement Med, 2012;18(1):35-45.
- 35. Sharma H, et al. "Effectiveness of Pranayama (Yogic Breathing) in Alleviating Anxiety Disorders." J Altern Complement Med, 2013;19(7):598-603.
- 36. Tiwari S. "Concept of Medhya Rasayana (Nootropic Agents) in Ayurveda: A Critical Review." Ayu, 2012;33(1):36-39.
- 37. Lad V. "Ayurveda: The Science of Self-Healing." Motilal Banarsidass Publishers, Delhi; 2002.

Acknowledgment

The author(s) appreciates all those who participated in the study and helped to facilitate the research process.

Conflict of Interest

The author(s) declared no conflict of interest.

How to cite this article: Gujar, M.S., Gujar, R.S., Gujar, S.M. & Gujar, K.R. (2024). Panic Disorder: An Integrative Approach Combining Ayurvedic and Modern Perspectives. *International Journal of Indian Psychology*, *12*(3), 3273-3278. DIP:18.01.317.20241203, DOI:10.25215/1203.317