The Healing Power of Raag: Exploring Its Effects on Psychiatric Disorders

Abstract

This research evaluates how Indian classical raag music functions as therapy for psychiatric disorders by studying both traditional cultural practices and contemporary neuroscience findings. Music serves as a fundamental cultural instrument throughout human history until scientists recently validated its psychological and neurochemical effects. The structured emotional power of raag based therapy distinguishes it from generic music because it effectively activates both affective and regulatory brain systems. The research investigates four major psychiatric conditions including Major Depressive Disorder (MDD) and Generalized Anxiety Disorder (GAD) and Post-Traumatic Stress Disorder (PTSD) and insomnia through analysis of their physiological and psychological mechanisms and standard treatments and evaluates the growing evidence for raag therapy as a non invasive culturally resonant complementary intervention. This study examines the potential of raag music integration into holistic mental health care through a diverse range of sources that include DSM-5 criteria and neuroimaging studies and clinical music therapy research and ethnomusicological traditions.

Introduction

This study examines how traditional Indian raag music could be used as an approach for treating mental health conditions by combining cultural traditions with modern neuroscience insights. Music has always been a part of societies and is now being acknowledged scientifically for its effects on the mind and brain chemistry.[5] Unlike regular music therapy approaches, raag based therapy offers an emotionally rich way to stimulate the brain's regulatory functions. This paper explores the psychological aspects of four psychiatric disorders: Major Depressive Disorder (MDD), Generalized Anxiety Disorder (GAD), Post Traumatic Stress Disorder (PTSD), and insomnia. It discusses the treatments for these conditions and assesses the increasing support for raag therapy as a non-invasive and culturally relevant complementary approach. This study showcases the benefits of incorporating raag music into mental healthcare by drawing from a variety of sources such as DSM V criteria[1], neuroimaging studies[3], and insights from clinical music therapy research and ethnomusicological practice.[4]

Historical and Cultural Context of Music

Music has always been a tool for expressing emotions and bringing people together throughout the course of history across cultures like those in India and Tibet as well as Indigenous communities worldwide. Even before we had a grasp of how our brains and bodies work, music was already being used in healing rituals and spiritual traditions by these societies. Fast forward to the last twenty years, advancements in neuroscience have started to confirm many of the long-held beliefs about the effects of music. Studies show that music can influence our brain chemistry, synchronize our brain activity, and even impact functions like heart rate and stress hormone levels.[5]

Indian classical music is known for its emotionally rich music system, with a focus on the raag framework—a structured melody that adheres to specific notes and phrases played during certain times of day or seasons to evoke distinct emotional responses. Unlike scales that are merely note collections, raags are seen as entities with unique personalities and emotions. This expressive depth has sparked interest among researchers exploring the use of raags in therapeutic environments to help improve mental well-being.[4] This study delves into the possibilities extensively by connecting it to scientific studies and the rich heritage of traditional Indian classical music.

Psychiatric Disorders: Risk Factors, Symptoms, and Conventional Treatment Approaches

Many people around the world are affected by mental health issues that stem from a combination of genetic predisposition, environmental influences, and neurobiological factors. These disorders can impact individuals not just mentally but also physically by disrupting emotional regulation, cognitive functions, and bodily processes. Let's look into four common conditions: Major Depressive Disorder (MDD), Generalized Anxiety Disorder (GAD), Post Traumatic Stress Disorder (PTSD), and insomnia.

Major Depressive Disorder (MDD)

Major Depressive Disorder (MDD) is a contributor to global disability rates due to various biological and psychological factors at play—it affects neurotransmitter levels like serotonin and norepinephrine as well as the functioning of key brain regions such as the prefrontal cortex and amygdala.[1] Psychologically, it can lead to feelings of despair, lack of drive, and thoughts of self-harm. Physically, MDD may manifest through appetite changes, sleep problems, and overall

fatigue. Several factors like family history, traumatic experiences, chronic stress, or substance misuse can also increase the likelihood of developing MDD.

Traditional treatments consist of medication options like SSRIs and SNRIs, talk therapy such as CBT, shock therapy in certain situations, and lifestyle changes like physical activity and mindfulness practices. Despite these options, some individuals may face setbacks such as relapses, incomplete recovery, or medication side effects, which underscores the importance of exploring alternative or supplementary treatment methods.[3]

Generalized Anxiety Disorder (GAD)

Experiencing Anxiety Disorder (GAD) involves persistent worry that significantly disrupts daily life. Biologically, GAD has been linked to heightened activity in the amygdala and dysregulation in the hypothalamic-pituitary-adrenal (HPA) axis, leading to increased cortisol levels and a heightened fight-or-flight response.[2] This response can result in symptoms such as rapid heartbeat, digestive issues, muscle tension, and fatigue.

Various risk factors contribute to the development of GAD, including adverse childhood experiences, overprotective parenting, genetic predisposition, and chronic illness. Common treatments include cognitive behavioral therapy (CBT), mindfulness-based stress reduction, and pharmacological options such as benzodiazepines or SSRIs. However, resistance to treatment and side effects remain common barriers, which has led to increased interest in alternative therapies like music and raag-based approaches.[4]

Post Traumatic Stress Disorder (PTSD)

Post Traumatic Stress Disorder (PTSD) develops following exposure to or witnessing traumatic incidents like violence or natural disasters. It can lead to flashbacks, nightmares, emotional numbness, and hypervigilance. Brain imaging studies show increased amygdala activity and decreased function in the prefrontal cortex and hippocampus in individuals with PTSD, impacting emotional regulation and memory processing.[1]

Risk factors include personal or family trauma history, lack of social support, genetic vulnerability, and chronic stress. Treatment approaches often include trauma-focused CBT, Eye Movement Desensitization and Reprocessing (EMDR), and pharmacological interventions. However, these may not be suitable for everyone, and some individuals benefit from non-verbal, sensory-based interventions such as raag therapy.[4]

Insomnia

Insomnia is a common sleep disorder marked by difficulty falling or staying asleep, often resulting in daytime fatigue. It may be a standalone issue or occur alongside mental health conditions such as anxiety, depression, or chronic pain. Neurologically, insomnia is associated with increased brain arousal, reduced GABAergic inhibition, and elevated nighttime cortisol levels.[1]

Common risk factors include stress, irregular sleep schedules, shift work, and medical conditions. Treatment strategies include CBT for insomnia (CBT-I), behavioral changes, and pharmacological aids like sleeping pills or melatonin. However, reliance on medication can lead to tolerance and cognitive side effects, making alternative therapies like raag-based music a valuable tool for long-term sleep regulation.[4]

Application of Raag Therapy to Major Depressive Disorder (MDD)

Raag therapy provides a profound connection that resonates deeply with individuals undergoing treatment for Major Depressive Disorder. Raag Yaman is noted for their calming, peaceful qualities, while raag Bhairav evokes spiritual renewal and inner serenity. These musical forms stimulate cortical activity and uplift emotional tone by targeting brain areas associated with mood and motivation.[3]

Engaging with these raags creates a predictable, safe auditory environment that is crucial for those suffering from depressive symptoms. The spiritual dimension of raags further allows for a deeper existential connection, promoting purpose and reducing feelings of isolation.[4]

Long-term engagement with these compositions has been linked to improved motivation, clearer thinking, and better sleep and social interaction. Many individuals report emotional clarity and reduced detachment following weeks of regular listening sessions. These improvements foster a higher quality of life by supporting participation in work, relationships, and daily routines.[4]

Application of Raag Therapy to Generalized Anxiety Disorder (GAD)

In the case of Generalized Anxiety Disorder, raag Darbari Kanada and Malkauns act as natural tranquilizers. Their slow tempos and soothing tonal structures downregulate the autonomic nervous system by slowing breathing and stabilizing heart rate, thereby reducing stress hormone levels.[4]

Raag therapy redirects attention away from internal ruminations toward external sensory experiences, facilitating present-moment awareness. This mechanism can benefit individuals who may not respond well to conventional therapy or medications. Regular exposure helps the brain develop a conditioned association between these raags and feelings of calm, enabling long-term anxiety management.

Reported outcomes include reduced physical tension, improved sleep, and fewer anxiety episodes. Users also describe better emotional regulation and resilience in high-pressure environments, contributing to personal and professional confidence.[4]

Application of Raag Therapy to Post-Traumatic Stress Disorder (PTSD)

Raag therapy's emotive and non-verbal qualities are especially well-suited for individuals with PTSD, who may find verbal processing difficult or triggering. Raags such as Bageshree and Todi offer compassionate, nurturing sonic environments that encourage emotional expression and self-soothing.[4]

Unlike traditional talk therapy, raag therapy facilitates trauma recovery through controlled sensory exposure. Its structured compositions offer safety and predictability, while their improvisational potential allows flexible expression. This blend provides a foundation for emotional balance and reduction of symptoms like flashbacks and hypervigilance.

Patients undergoing raag-based therapy have reported reduced nightmares, enhanced emotional regulation, and renewed identity and self-worth, supporting both symptom relief and deeper personal growth.[4]

Application of Raag Therapy to Insomnia

Raag Kalyan and raag Jaunpuri consist of slow contemplative music with extended pauses and delicate melodic transitions. The musical characteristics of these raags create a natural slowdown of mental processes which leads the body toward parasympathetic sleep-conducive states. These raags function as part of a bedtime routine to create a soothing auditory signal which tells the body it needs to relax.

Research indicates that music helps control melatonin production while enhancing sleep structure. The research conducted by Kashyap & Sharma demonstrated that pre-sleep raag listening improved both sleep duration and reduced nighttime wakefulness and enhanced overall sleep quality.[4] The structured format of raags helps people practice good sleep hygiene by

blocking exposure to stimulating media content including screens and high-energy media before bedtime.

People who listen to raags before sleeping experience better daytime energy levels and enhanced focus and emotional control according to research findings. The combined effects of raag listening lead to better circadian rhythm health and improved daily well-being and productivity.

Cultural Context and Scientific Integration

Raag therapy is more than an art form; it is a time-honored therapeutic method. Its strength lies in its dual capacity to elicit deep emotion and preserve cultural legacy. For the Eastern world, it offers a familiar and spiritually enriching alternative to Western models of care.[4]

Its benefits go beyond symptom management. It cultivates mindfulness, emotional insight, and a sense of control, all of which are foundational to lasting mental health recovery.[4]

Conclusion

This study delved into the relationship between music and mental health treatment by focusing on raag therapy as a healing method for depression (MDD), anxiety (GAD), PTSD, and insomnia. These conditions are often a result of complex neurological and psychosocial challenges. Although pharmacological and psychotherapeutic treatments remain central, there is growing recognition of the value of culturally sensitive, gentle interventions like music therapy.[1,3]

Raag therapy, grounded in old traditions, is now being validated by neuroscience for its ability to activate emotional processing centers and regulate brain chemistry.[3,5] The use of diverse raags (Yaman, Bhairav, Darbari Kanada, Malkauns, Bageshree, Todi, Kalyan, and Jaunpuri) demonstrates how soundscapes can be customized to support emotional restoration and inner balance.[4]

Beyond symptom relief, raag therapy promotes emotional strength, self-reflection, and resilience. It is accessible and adaptable, suitable for both clinical settings and everyday wellness routines. As the field of mental healthcare moves toward integrative models, further clinical research and interdisciplinary collaboration are needed to advance raag therapy. Healing through music is not only about reducing distress, it’s about restoring balance through the timeless power of sound.[4]

References

1. American Psychiatric Association. (2013). *Diagnostic and statistical manual of mental disorders* (5th ed.). American Psychiatric Publishing.
2. Anand, S., Singh, V., Sharma, V., & Kumari, A. (2022). Panic disorder: A comprehensive review. *Cureus, 14*(9), e28729. https://doi.org/10.7759/cureus.28729
3. Choi, A. N., Lee, M. S., & Lim, H. J. (2020). Effects of music therapy on major depressive disorder: A study of prefrontal hemodynamic functions using fNIRS. *Psychiatry Research, 288*, 112945. https://doi.org/10.1016/j.psychres.2019.112945
4. Kashyap, T., & Sharma, A. (2025). A pilot study of therapeutic effects of Indian classical raga on depression, anxiety, stress among adults. *Sangeet Galaxy, 13*(1), 38–45. https://sangeetgalaxy.co.in/wp-content/uploads/2025/01/38.-Tanvi-Kashyap-A.-Sharma.pdf
5. Sutoo, D., & Akiyama, K. (2004). Music improves dopaminergic neurotransmission: Demonstration based on the effect of music on blood pressure regulation. *Brain Research, 1016*(2), 255–262. https://doi.org/10.1016/j.brainres.2004.05.018