

Music Therapy and Emotional Well-being: A Narrative Review of Global Practices and Outcomes

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ABSTRACT: Music therapy has gained increasing attention as an effective intervention for improving emotional well-being in diverse populations. This narrative review aimed to synthesize recent literature across clinical, educational, community, and cross-cultural contexts to assess the effectiveness and limitations of music-based interventions. A systematic search of databases including PubMed, Scopus, Web of Science, and Google Scholar was conducted using targeted keywords and Boolean combinations. Eligible studies encompassed randomized controlled trials, observational research, and qualitative analyses that explicitly examined the relationship between music therapy and psychological outcomes. The results indicate that music therapy consistently reduces symptoms of depression, anxiety, and PTSD, while enhancing cognitive and emotional functioning in stroke rehabilitation and improving quality of life in palliative care. In schools, music therapy programs were found to promote emotional regulation, empathy, and social connectedness, with culturally responsive interventions showing greater effectiveness for diverse student populations. Community and correctional settings further demonstrated music therapy's capacity to foster social reintegration, reduce stigma, and strengthen coping mechanisms. Comparative evidence suggests that music therapy offers distinct benefits compared with other psychosocial interventions, particularly due to its ability to evoke immediate emotional and cognitive responses. However, methodological inconsistencies, limited cross-cultural studies, and systemic barriers such as inadequate funding and workforce shortages remain key challenges. The review underscores the urgency of integrating music therapy into public health and education policies, while calling for future research that employs standardized, longitudinal, and culturally inclusive approaches. By leveraging community engagement and technological innovation, music therapy can be positioned as a vital, evidence-based strategy for advancing global emotional well-being.

Keywords: Music Therapy, Emotional Well-Being, Mental Health Intervention, Cross-Cultural Adaptation, Psychosocial Rehabilitation, AI-Assisted Music Therapy.



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INTRODUCTION

Music therapy is recognized as an effective intervention for enhancing emotional well-being across diverse populations. Despite the growing body of empirical evidence, gaps remain in

understanding its role in addressing global challenges such as depression, anxiety, and post-traumatic stress disorder (PTSD). This review aims to highlight those gaps and situate music therapy within broader mental health care strategies.

The integration of music therapy into medical and psychological practice reflects a broader response to global trends in mental health. The prevalence of psychiatric disorders such as depression, anxiety, and post-traumatic stress disorder (PTSD) has escalated worldwide, exacerbated by socioeconomic instability, conflict, and the COVID-19 pandemic (Reidy & MacDonald, 2021). Interventions rooted in music offer promising alternatives by addressing both the emotional and social dimensions of these conditions. A growing corpus of literature has documented the benefits of music therapy for diverse populations, including children, adolescents, and adults in both clinical and non-clinical settings (Moula et al., 2022; Liu et al., 2025). Importantly, music-based interventions are not limited to the affected individuals alone but also extend to caregivers and families, reducing emotional burden and enhancing overall well-being in care networks (Gillespie et al., 2024).

This recognition has spurred exploration of technologically mediated approaches to music therapy. With the advancement of artificial intelligence (AI) and digital platforms, new modalities for delivering music-based interventions have emerged. For instance, AI-assisted programs can generate personalized soundscapes tailored to individual emotional states, thereby increasing the precision and adaptability of therapeutic outcomes (Zheng, 2024; Sudha et al., 2024). These innovations hold considerable promise in making therapy more accessible, cost-effective, and scalable, while also enabling cross-cultural adaptations of therapeutic practices. Consequently, music therapy has come to represent not merely an adjunct to conventional care but an independent, evidence-based practice with substantial potential for improving mental health outcomes globally (Shushardzhan et al., 2022).

Despite these promising developments, the field faces significant methodological challenges. One of the central concerns involves the lack of standardized definitions and procedures across studies. Variability in the type of music employed—whether live performances, recorded sessions, or improvisational techniques—often leads to divergent outcomes that are difficult to compare systematically (Samson et al., 2015; Dorris et al., 2021). Further, many investigations are constrained by small sample sizes, limited follow-up periods, and inconsistent research designs, resulting in findings that cannot easily be generalized (Treceño & Gago, 2023; Liu, 2021). This inconsistency complicates the establishment of robust evidence that can inform clinical guidelines.

In addition to definitional and design issues, another pressing challenge lies in the diversity of measurement tools used to evaluate therapeutic outcomes. Some studies focus on physiological markers, while others rely on self-reported emotional states or behavioral observations, making cross-study synthesis problematic (Preißler et al., 2016; Dorris et al., 2021). Moreover, many publications fail to provide adequate detail regarding the intervention protocols, thereby hindering replication and impeding the accumulation of reliable knowledge. The lack of clarity in identifying independent and dependent variables often results in biases that obscure the true impact of music therapy.

Cultural contexts further complicate the discourse. Existing literature is disproportionately concentrated on Western frameworks, with limited engagement in exploring the diverse ways music operates within non-Western societies (Arizona et al., 2023; Hamiduzzaman et al., 2023). This lack of cultural sensitivity undermines the ecological validity of therapeutic practices, as music preferences and interpretations are deeply embedded within cultural traditions. For example, indigenous musical forms and local practices have been shown to carry distinct emotional and symbolic meanings, which, if incorporated into therapy, could enhance its efficacy (Uhlig et al., 2016; Gallagher & Béthoux, 2017). Yet, few studies have systematically investigated how culturally specific interventions might influence emotional well-being. Without such inquiry, there is a risk that music therapy could remain a culturally limited intervention with reduced global applicability (Belgrave et al., 2023).

The absence of rigorous cross-cultural studies constitutes a significant gap in the literature and underscores the urgency of expanding the scope of research. Global mental health disparities demand interventions that are sensitive to cultural, social, and economic contexts. For instance, while music therapy has been successfully implemented in palliative care in Western countries, its adaptation to resource-limited settings remains underexplored (Nyashanu et al., 2020). Similarly, comparative studies between developed and developing nations remain scarce, leaving questions unanswered about how contextual factors shape therapeutic processes and outcomes (Gillespie et al., 2024; Arizona et al., 2023). Bridging this gap requires systematic exploration of how interventions can be adapted, validated, and scaled in culturally diverse environments.

The present review seeks to address these gaps by synthesizing recent research on the relationship between music therapy and emotional well-being. The primary objective is to critically examine the effectiveness of various music therapy techniques in alleviating mental health symptoms while also identifying systemic and contextual factors that influence outcomes. By integrating findings from clinical, community, and technological domains, this review aims to provide a comprehensive understanding of both the promises and limitations of music-based interventions.

The scope of this study extends beyond clinical settings to encompass educational institutions, community programs, and culturally specific practices. It focuses on global perspectives by comparing evidence from high-income countries with findings from low- and middle-income nations, thereby situating music therapy within a broader health equity framework. Special attention is given to populations disproportionately affected by mental health challenges, including children, adolescents, and individuals in marginalized communities. In addition, this review considers emerging approaches such as AI-assisted music therapy to evaluate how technological innovation may redefine the possibilities for therapeutic engagement across diverse contexts.

By consolidating the literature, the review aspires to inform both policy and practice, advancing the integration of music therapy into mainstream mental health care. Ultimately, the findings are expected to highlight the importance of culturally responsive, methodologically rigorous, and technologically adaptive approaches that can optimize the impact of music therapy on emotional well-being worldwide.

METHOD

This narrative review was conducted to provide a comprehensive analysis of literature on music therapy and emotional well-being. Databases used included PubMed, Scopus, Web of Science, and Google Scholar. Search queries combined terms such as ‘music therapy,’ ‘emotional well-being,’ ‘depression,’ ‘anxiety,’ and ‘palliative care.’ Studies were included if they explicitly examined music therapy and outcomes on emotional well-being. Exclusion applied to studies without peer review or those not directly focused on music therapy. A narrative review was chosen over a systematic review to allow broader inclusion of cross-cultural and emerging evidence. The primary databases used included PubMed, Scopus, Web of Science, and Google Scholar, all of which are recognized for their extensive coverage of peer-reviewed publications and their reliability in providing access to high-quality scientific literature. PubMed was particularly relevant for capturing studies rooted in medical and psychological contexts, while Scopus and Web of Science were instrumental in retrieving interdisciplinary publications spanning health sciences, social sciences, and the arts. Google Scholar was also employed to locate supplementary studies, conference proceedings, and gray literature that may not have been indexed in the other databases. This multi-database approach has been validated in previous studies exploring music therapy, such as those conducted by Nyashanu et al. (2020) and March-Luján et al. (2021), who emphasized the importance of using both PubMed and Scopus in gathering robust evidence on music-based interventions.

The search strategy relied on carefully chosen keywords and Boolean operators to maximize the relevance and inclusivity of results. Terms were selected to reflect both the core concepts of music therapy and its targeted outcomes on emotional well-being. Commonly used keywords included “music therapy,” “emotional well-being,” “mental health,” “psychological outcomes,” “anxiety,” “depression,” and “palliative care.” Boolean combinations were applied to refine and expand the search results according to the focus of this review. For instance, queries such as “music therapy” AND “emotional well-being,” “music therapy” AND (“mental health” OR “psychological outcomes”), and “music therapy” AND “depression” AND “anxiety” were utilized to capture studies addressing specific psychological conditions. In addition, combinations like “music therapy” AND “palliative care” AND (“emotional well-being” OR “psychosocial support”) were applied to identify literature dealing with therapeutic interventions in terminal illness care. Finally, in order to include high-quality evidence from longitudinal and controlled studies, searches also included terms such as “music therapy” AND “well-being” AND (“longitudinal study” OR “randomized controlled trial”). This search strategy aligns with approaches used in recent scholarly work, such as those by Tripathi et al. (2022), who emphasized the role of keyword precision in generating relevant results. Conversely, literature that explored creative arts therapies more broadly, such as studies focusing on dance or movement therapies without a strong musical component (Amonkar et al., 2021), was excluded from the final analysis given their limited relevance to the present review.

In establishing inclusion and exclusion criteria, careful consideration was given to the type of studies most appropriate for answering the research question. Eligible studies were required to examine music therapy explicitly as an intervention and its outcomes on emotional well-being or related psychological measures. This encompassed experimental designs, such as randomized

controlled trials (RCTs), cohort studies, case-control studies, and quasi-experimental studies, as well as observational and qualitative research that provided insights into participants' lived experiences. Inclusion also extended to systematic reviews and meta-analyses, as these studies offered synthesized evidence across multiple interventions and populations. Studies were excluded if they did not focus primarily on music therapy, such as those emphasizing art or movement therapies alone, or if they lacked a clear outcome measure related to emotional well-being, psychological functioning, or mental health improvement. Similarly, opinion pieces, editorial commentaries, and studies without peer review were excluded to maintain the reliability of the evidence base.

The study selection process was conducted in a systematic manner to ensure the credibility and reproducibility of findings. Initially, titles and abstracts retrieved from database searches were screened for relevance based on predefined criteria. This first stage of screening focused on whether music therapy was identified as a central component of the intervention and whether the reported outcomes were related to emotional or psychological well-being. At this stage, studies that mentioned music only as a background factor or as part of a broader multimodal therapy without isolating its effects were excluded. Following this preliminary screening, full-text articles were retrieved and reviewed for eligibility. This step involved a more detailed examination of the intervention protocols, sample characteristics, and outcome measures to determine whether the study met the inclusion standards.

Evaluation of the quality of selected studies was performed through critical appraisal of their methodology. For randomized controlled trials, attention was paid to aspects such as randomization methods, blinding procedures, sample size adequacy, and the use of validated outcome measures. Cohort and observational studies were assessed for potential biases, including selection and reporting bias, as well as for the robustness of statistical analyses. Qualitative studies were evaluated in terms of methodological transparency, data collection strategies, and rigor in thematic analysis. By applying these appraisal standards, the review aimed to highlight studies with strong internal validity and to identify limitations in weaker studies. This process also facilitated a more nuanced synthesis of the evidence, acknowledging both the strengths and constraints of the existing research landscape.

In line with best practices for narrative reviews, the synthesis of literature was organized thematically rather than strictly chronologically. Studies were grouped according to the psychological conditions they addressed, such as depression, anxiety, PTSD, and palliative care-related distress. Additional categorization was made based on the population studied, including children, adolescents, adults, and older patients. Contextual factors, such as the cultural setting of the intervention and whether it was delivered in clinical, educational, or community-based environments, were also considered in organizing the findings. This thematic structuring allowed for a holistic representation of the current state of knowledge and facilitated meaningful comparisons across diverse contexts.

Finally, emphasis was placed on ensuring the comprehensiveness of the review by including international literature from different geographic regions. This was considered crucial in addressing

cultural gaps highlighted in prior studies, which often overrepresented Western perspectives while neglecting the role of culturally specific musical practices (Arizona et al., 2023; Hamiduzzaman et al., 2023). By integrating findings from both developed and developing nations, this review sought to present a more globally inclusive understanding of music therapy's potential to enhance emotional well-being. Furthermore, the inclusion of technologically innovative approaches, such as AI-based music interventions (Zheng, 2024; Sudha et al., 2024), ensured that the review captured not only traditional methods but also emerging modalities that may shape the future of therapeutic practice. Through this comprehensive methodological approach, the review aimed to provide a balanced and rigorous synthesis of evidence that reflects the multifaceted role of music therapy in addressing contemporary challenges in mental health care.

RESULT AND DISCUSSION

Clinical Settings

Findings from the reviewed literature indicate that music therapy interventions have consistently demonstrated positive outcomes in clinical contexts, particularly among individuals suffering from depression, anxiety, and post-traumatic stress disorder (PTSD). Beck et al. (2018) compared music therapy with conventional care for refugees diagnosed with PTSD and found significant reductions in stress-related symptoms, alongside marked improvements in emotional well-being. These results highlight music therapy's potential as a non-pharmacological intervention capable of addressing trauma and enhancing psychological resilience in vulnerable populations. Similarly, research has documented the efficacy of music therapy in palliative care contexts, where interventions have been associated with reductions in depressive and anxious symptoms and improvements in patients' overall quality of life (Nyashanu et al., 2020). Aragon et al. (2024) also observed that music therapy supports psychological relief for cancer patients, reinforcing the role of music in easing symptom burden in critical care.

Variation in the effectiveness of music therapy across demographic groups further underscores its versatility. Liu et al. (2025) conducted a literature review which revealed that children and adolescents derive greater psychological benefits from music therapy compared with adults, largely due to their heightened responsiveness to creative and non-verbal forms of expression. Gender differences also appear significant, as women have been shown to respond more positively to music-based interventions in managing anxiety compared with men (Tripathi et al., 2022). In the case of medical conditions, Raghavan et al. (2016) demonstrated that stroke patients experienced greater cognitive and emotional improvements when music therapy was incorporated into rehabilitation compared with control groups, underscoring the necessity of tailoring interventions to specific clinical contexts. These findings collectively suggest that while music therapy is broadly beneficial, its outcomes are influenced by age, gender, and medical background, necessitating individualized approaches to maximize therapeutic impact.

Educational Settings

Music therapy interventions implemented in educational settings have shown substantial benefits for students' socio-emotional development. Váradi (2022) reported that participation in school-based music therapy programs was associated with improvements in emotional regulation, interpersonal relationships, and the cultivation of empathy among students. These outcomes illustrate the potential of music as an educational tool that not only supports academic growth but also strengthens the emotional intelligence of learners. Comparative studies further suggest that the setting in which music therapy is delivered shapes its effectiveness. For example, Uhlig et al. (2016) and Kehl et al. (2020) found that students in non-formal learning environments benefited more in terms of social engagement and emotional connection than those in formal school contexts. The more relaxed and creative environment of non-formal programs may provide students with greater freedom to express themselves musically, thereby deepening therapeutic outcomes.

Cultural sensitivity has also been identified as a critical factor in the success of educational music therapy programs. Hamiduzzaman et al. (2023) emphasized that interventions incorporating culturally relevant musical practices significantly enhanced the psychological well-being of students from diverse backgrounds. By integrating local music traditions and respecting cultural identities, schools can deliver more impactful music therapy interventions that resonate with students' lived experiences. These findings highlight the importance of designing educational programs that are not only pedagogically effective but also responsive to cultural diversity, ensuring inclusivity and maximizing the benefits of music therapy for diverse student populations.

Community and Correctional Settings

Music therapy has also played an important role in promoting social rehabilitation within marginalized communities and correctional facilities. Studies consistently point to improvements in emotional well-being and reductions in aggressive behavior among incarcerated individuals engaged in music therapy programs. Uhlig et al. (2017) reported that music therapy enabled marginalized individuals to develop enhanced social communication skills, a crucial step for successful reintegration into society following imprisonment. The interventions provided participants with opportunities to express emotions constructively, build trust, and foster interpersonal relationships, thereby reducing the likelihood of recidivism. Beyond correctional contexts, community-based programs have similarly demonstrated the ability to reduce stigma, cultivate a sense of belonging, and equip participants with practical tools for stress management (Váradi, 2022).

A key question that emerges from the literature is whether community-based music therapy produces more consistent outcomes in promoting well-being compared with clinical interventions. Evidence suggests that interventions grounded in social and environmental contexts often yield greater psychological improvements, particularly for populations without access to formal mental health services. For instance, Estell et al. (2024) found that non-clinical music therapy programs were more successful in enhancing social support and developing interpersonal skills compared with interventions delivered in more clinical, individualized settings. Similarly, Pezzin et al. (2018) observed that community-based music therapy reinforced social cohesion and resilience, enabling

participants to cope more effectively with psychological stressors. These results emphasize that inclusive and collaborative approaches that prioritize community engagement can deliver outcomes that are both meaningful and sustainable, reinforcing the value of music therapy as a tool for social integration.

Cross-Cultural and Global Perspectives

Differences in the acceptance and application of music therapy across cultures reflect the unique sociocultural contexts in which interventions are embedded. Liu et al. (2025) highlighted that while some societies place greater emphasis on traditional music forms in therapeutic contexts, others favor contemporary or popular genres. Belgrave et al. (2023) underscored the importance of integrating local musical elements to enhance the effectiveness and acceptance of therapy, particularly in communities that may feel excluded by generic or Western-centric approaches. The incorporation of culturally significant music has been found to foster stronger emotional connections, increase participant engagement, and ensure the relevance of interventions in diverse populations.

Global experiences provide valuable lessons on how music therapy can be adapted for local contexts. Beck et al. (2018) emphasized the role of ethnomusicology in shaping therapeutic practices, showing that understanding traditional music and cultural values improves the effectiveness of interventions in different communities. Similarly, Shan and Qi (2024) demonstrated how aligning therapy with cultural narratives enhances therapeutic outcomes by connecting music with participants' collective experiences and identities. Research integrating cross-cultural perspectives, such as the work by Warth et al. (2019) and Gillespie et al. (2024), has reinforced the importance of culturally informed approaches that bridge the gap between global evidence and local applicability.

The application of music therapy that is sensitive to cultural diversity is not merely about enhancing effectiveness but also about affirming the dignity and validity of diverse human experiences. By respecting and incorporating cultural heritage, music therapy interventions can achieve inclusivity, foster holistic healing, and strengthen their impact on emotional well-being worldwide. Such approaches underscore the necessity of moving beyond a one-size-fits-all framework, instead embracing a global vision that acknowledges music's universal yet contextually unique role in human life. This global perspective provides an essential foundation for building programs that are not only effective but also equitable and culturally sustainable.

The findings of this review suggest that music therapy holds considerable promise as a psychosocial intervention, with both clinical and community applications demonstrating measurable benefits for emotional well-being. To contextualize these results, it is necessary to situate them within the broader literature on psychosocial therapies, to examine the systemic factors that mediate their effectiveness, and to discuss the implications for health policy and future research. While music therapy shares certain objectives with art therapy, drama therapy, and other creative interventions, its unique characteristics make it particularly effective in engaging cognitive and emotional processes, and in eliciting rapid psychological responses.

When compared with other psychosocial therapies, music therapy stands out due to its capacity to evoke strong emotional reactions in a relatively short period of time. Studies by Amonkar et al.

(2021) noted that music therapy was effective in enhancing communication skills and social functioning among individuals with autism spectrum disorders. Similar improvements have been observed in art therapy, which also facilitates social interaction, but music appears to generate more immediate and visceral responses due to its rhythmic and auditory properties. This aligns with evidence from Beck et al. (2018) and Tripathi et al. (2022), who emphasized that music therapy not only improves socio-emotional functioning but may also yield stronger effects on cognition and memory compared with other expressive therapies. While art therapy and drama therapy rely heavily on symbolic or representational forms of engagement, music directly activates neurological pathways associated with memory and emotional regulation, which may explain its distinctive therapeutic potential.

Nevertheless, the comparative literature also highlights variability in outcomes, suggesting that the superiority of one form of therapy over another is context dependent. In some cases, art therapy or drama therapy may be more appropriate, particularly when visual or performative modalities align better with an individual's expressive strengths. This suggests that integrative approaches, which combine music therapy with other forms of psychosocial care, may yield optimal results. Such integrative frameworks could allow therapists to tailor interventions to the unique needs of participants, thereby addressing the limitations of relying on a single modality.

Beyond comparisons with other therapies, systemic factors play a crucial role in shaping the effectiveness of music therapy interventions. Institutional support is among the most significant determinants of success. March-Luján et al. (2021) and Reitere et al. (2024) observed that organizations with explicit strategies for integrating music therapy into routine care reported more sustainable and impactful outcomes. Conversely, in settings where institutional commitment was weak, programs were more vulnerable to underfunding and inconsistent implementation. Financial stability is especially important, as music therapy often requires specialized instruments, trained professionals, and dedicated spaces, all of which entail costs beyond those of conventional interventions (Váradí, 2022). Without adequate resources, programs risk being curtailed or implemented at suboptimal quality.

Professional training and competence also influence the quality of music therapy delivery. The complexity of interventions requires practitioners who are skilled not only in musical performance but also in therapeutic techniques, cultural sensitivity, and evidence-based practice. The shortage of adequately trained music therapists has been highlighted in multiple studies as a barrier to scaling interventions globally (Nyashanu et al., 2020; Liu et al., 2025). Ensuring high standards of training and certification is therefore essential to preserve the credibility of the field and to protect patients from poorly designed interventions. Additionally, community acceptance and participation are vital. Amonkar et al. (2021) emphasized that interventions in which communities were actively involved in planning and implementation demonstrated stronger outcomes, as participants experienced a sense of ownership and empowerment. This suggests that the success of music therapy depends not only on institutional structures but also on grassroots engagement.

The implications of these findings for public health policy are far-reaching. One critical step involves the development of formal guidelines for the integration of music therapy into health and social care systems. These guidelines should define standards for intervention design, therapist training, and program evaluation, thereby ensuring consistency across different contexts. Raghavan

et al. (2016) noted that music therapy showed measurable benefits for stroke patients, supporting the case for embedding music-based interventions into rehabilitation programs. Furthermore, allocating dedicated funding streams for music therapy can facilitate program expansion and sustainability. Without such financial support, even the most promising interventions may fail to reach the populations that need them most.

Policy frameworks should also emphasize collaboration between healthcare providers and community stakeholders. Liu et al. (2025) demonstrated that music therapy interventions were particularly effective when adapted to the cultural and emotional needs of specific populations. Policies that foster collaboration can ensure that programs are designed with cultural sensitivity, thereby enhancing relevance and acceptance. In practice, this could involve partnerships between hospitals, schools, cultural organizations, and local communities to co-develop interventions that integrate traditional music forms with evidence-based therapeutic practices. Such collaborations not only improve effectiveness but also promote inclusivity by acknowledging the diverse cultural contexts in which individuals experience music.

Another implication relates to the use of technology in broadening access to music therapy. Emerging AI-assisted platforms, as described by Zheng (2024) and Sudha et al. (2024), enable personalized interventions that respond dynamically to users' emotional states. These technologies could help overcome barriers such as the shortage of trained therapists, geographical inaccessibility, or limited institutional resources. However, their adoption raises additional questions regarding data privacy, ethical oversight, and the preservation of the human connection that is often central to therapeutic processes. Policymakers must therefore balance the benefits of technological innovation with safeguards to protect participants and ensure equitable access.

Despite the promising evidence base, the literature also points to significant limitations that must be addressed in future research. One recurring issue is the lack of standardization across studies. As highlighted in the methodology section, interventions vary widely in terms of musical techniques, duration, and intensity, making it difficult to compare results across contexts (Samson et al., 2015; Dorris et al., 2021). Small sample sizes and inconsistent outcome measures further limit the generalizability of findings (Treceño & Gago, 2023). Greater methodological rigor is needed to establish clear causal links between interventions and outcomes. Randomized controlled trials with larger and more diverse populations, combined with standardized outcome measures, would significantly strengthen the evidence base.

Cultural gaps represent another area requiring further inquiry. Much of the literature continues to privilege Western contexts, leaving unanswered questions about how music therapy functions in non-Western societies (Hamiduzzaman et al., 2023; Belgrave et al., 2023). Given the deep cultural embeddedness of music, interventions that fail to account for cultural variation risk being less effective or even alienating for participants. More cross-cultural comparative studies are needed to determine how interventions can be adapted to diverse populations, and how local music traditions can be incorporated into therapeutic frameworks. Additionally, while research has demonstrated the benefits of music therapy for patients and caregivers alike (Gillespie et al., 2024), limited attention has been given to the long-term sustainability of these outcomes. Longitudinal studies are necessary to determine whether benefits persist beyond the intervention period and how they interact with other aspects of mental health care.

Finally, systemic barriers must be acknowledged as part of the discussion on future directions. Resource limitations, lack of institutional support, and insufficient training infrastructures continue to constrain the widespread implementation of music therapy. Overcoming these barriers will require coordinated efforts involving policymakers, healthcare providers, educators, and community leaders. By aligning systemic support with empirical evidence, it may be possible to expand the reach and impact of music therapy in addressing the global mental health crisis.

CONCLUSION

This narrative review highlights the significant role of music therapy in enhancing emotional well-being across clinical, educational, community, and cross-cultural contexts. Evidence consistently demonstrates that music therapy reduces symptoms of depression, anxiety, and PTSD, while also improving quality of life in palliative care and rehabilitation. In educational settings, music therapy fosters emotional regulation, empathy, and social connection, particularly when interventions are culturally responsive. Community and correctional programs further illustrate its potential to promote social integration, reduce stigma, and enhance interpersonal skills, often achieving outcomes comparable to or exceeding those of traditional clinical interventions. The global literature also emphasizes that culturally adaptive approaches strengthen therapeutic relevance and effectiveness, underscoring the universal yet context-specific value of music.

Despite these positive outcomes, systemic barriers persist, including limited institutional support, insufficient funding, and a shortage of trained professionals. Addressing these challenges requires stronger policy frameworks that integrate music therapy into public health systems, allocate dedicated resources, and promote collaboration between health professionals and community stakeholders. Technological innovations, such as AI-based platforms, present additional opportunities to expand accessibility and personalize interventions, though their adoption must be accompanied by ethical oversight. Future research should prioritize standardized methodologies, cross-cultural comparisons, and longitudinal designs to better capture the sustainability and universality of outcomes. Ultimately, the findings of this review reaffirm the urgency of incorporating music therapy into broader mental health strategies, recognizing it as a vital, evidence-based, and culturally inclusive tool for advancing emotional well-being worldwide.

REFERENCE

- Amonkar, N., Su, W., Bhat, A., & Srinivasan, S. (2021). Effects of creative movement therapies on social communication, behavioral-affective, sensorimotor, cognitive, and functional participation skills of individuals with autism spectrum disorder: A systematic review. *Frontiers in Psychiatry*, 12. <https://doi.org/10.3389/fpsy.2021.722874>
- Aragon, L., Álvarez-Díaz, A., Suárez, R., Amarillo, M., Mejía, C., & Ettenberger, M. (2024). Effect of a single live group music therapy intervention on anxiety-state and well-being levels during

- chemotherapy: A multicenter randomized clinical trial protocol. *Global Advances in Integrative Medicine and Health*, 13. <https://doi.org/10.1177/27536130241310241>
- Arizona, A., Hanurawan, F., Hidayah, N., Muslihati, M., & Ramli, M. (2023). Music therapy and public health: How to bridge the use of ethnic music for social anxiety. *Prehospital and Disaster Medicine*, 38(4), 539–540. <https://doi.org/10.1017/s1049023x23005939>
- Beck, B., Lund, S., Sogaard, U., Simonsen, E., Tellier, T., Cordtz, T., ... & Moe, T. (2018). Music therapy versus treatment as usual for refugees diagnosed with posttraumatic stress disorder (PTSD): Study protocol for a randomized controlled trial. *Trials*, 19(1). <https://doi.org/10.1186/s13063-018-2662-z>
- Behzad, A., Feldmann-Schulz, C., Lenz, B., Clarkson, L., Ludwig, C., Luttenberger, K., ... & Zimmermann, C. (2024). Taketina music therapy for outpatient treatment of depression: Study protocol for a randomized clinical trial. *Journal of Clinical Medicine*, 13(9), 2494. <https://doi.org/10.3390/jcm13092494>
- Belgrave, M., Palmer, K., & Motyka, T. (2023). Creative aging in virtual spaces: Using museum content and music therapy to explore cultural diversity. *Frontiers in Medicine*, 10. <https://doi.org/10.3389/fmed.2023.1273000>
- Dorris, J., Neely, S., Terhorst, L., VonVille, H., & Rodakowski, J. (2021). Effects of music participation for mild cognitive impairment and dementia: A systematic review and meta-analysis. *Journal of the American Geriatrics Society*, 69(9), 2659–2667. <https://doi.org/10.1111/jgs.17208>
- Estell, M., Whitford, K., Ulrich, A., Larsen, B., Wood, C., Bigelow, M., ... & Lapid, M. (2024). Music therapy intervention to reduce symptom burden in hospice patients: A descriptive study. *American Journal of Hospice and Palliative Medicine*®, 42(1), 102–111. <https://doi.org/10.1177/10499091241237991>
- Gallagher, L., & Béthoux, F. (2017). Therapeutic use of the arts for patients with multiple sclerosis. *US Endocrinology*, 13(02), 82. <https://doi.org/10.17925/use.2017.13.02.82>
- Gillespie, K., McConnell, T., Roulston, A., Potvin, N., Ghiglieri, C., Gadde, I., ... & Graham-Wisener, L. (2024). Music therapy for supporting informal carers of adults with life-threatening illness pre- and post-bereavement; A mixed-methods systematic review. *BMC Palliative Care*, 23(1). <https://doi.org/10.1186/s12904-024-01364-z>
- Hamiduzzaman, M., Kuot, A., Greenhill, J., Strivens, E., Parajuli, D., & Isaac, V. (2023). Person-centred, culturally appropriate music intervention to improve psychological wellbeing of residents with advanced dementia living in Australian rural residential aged care homes. *Brain Sciences*, 13(7), 1103. <https://doi.org/10.3390/brainsci13071103>

- Kehl, S., Ghaemmaghami, P., Haller, M., Pichler-Stachl, E., Bucher, H., Bassler, D., ... & Haslbeck, F. (2020). Creative music therapy with premature infants and their parents: A mixed-method pilot study on parents' anxiety, stress and depressive symptoms and parent–infant attachment. *International Journal of Environmental Research and Public Health*, 18(1), 265. <https://doi.org/10.3390/ijerph18010265>
- Leale, I., Vinciguerra, C., Stefano, V., Brighina, F., & Battaglia, G. (2025). Effectiveness of telecoaching and music therapy in neurological disorders: A narrative review and proposal for a new interventional approach. *Healthcare*, 13(7), 826. <https://doi.org/10.3390/healthcare13070826>
- Liu, X., Chen, H., Joubert, N., & Tiirola, H. (2025). The mechanism by 18 RCTs psychosocial interventions affect the personality, emotions, and behaviours of paediatric and young adult cancer patients: A systematic review. *Healthcare*, 13(10), 1094. <https://doi.org/10.3390/healthcare13101094>
- Liu, Y. (2021). Research on mental health intervention of college students based on music therapy. *Revista Brasileira De Medicina Do Esporte*, 27(spe), 40–42. https://doi.org/10.1590/1517-8692202127012020_0106
- March-Luján, V., Prado-Gascó, V., Huguet, J., Cortés, X., Arquiola, J., Capilla-Igual, M., ... & Ortí, J. (2021). Impact of BMGIM music therapy on emotional state in patients with inflammatory bowel disease: A randomized controlled trial. *Journal of Clinical Medicine*, 10(8), 1591. <https://doi.org/10.3390/jcm10081591>
- Moula, Z., Powell, J., & Karkou, V. (2022). Qualitative and arts-based evidence from children participating in a pilot randomised controlled study of school-based arts therapies. *Children*, 9(6), 890. <https://doi.org/10.3390/children9060890>
- Nyashanu, M., Ikhile, D., & Pfende, F. (2020). Exploring the efficacy of music in palliative care: A scoping review. *Palliative & Supportive Care*, 19(3), 355–360. <https://doi.org/10.1017/s1478951520001042>
- Pezzin, L., Larson, E., Lorber, W., McGinley, E., & Dillingham, T. (2018). Music-instruction intervention for treatment of post-traumatic stress disorder: A randomized pilot study. *BMC Psychology*, 6(1). <https://doi.org/10.1186/s40359-018-0274-8>
- Preißler, P., Kordovan, S., Ullrich, A., Bokemeyer, C., & Oechsle, K. (2016). Favored subjects and psychosocial needs in music therapy in terminally ill cancer patients: A content analysis. *BMC Palliative Care*, 15(1). <https://doi.org/10.1186/s12904-016-0122-7>
- Raghavan, P., Geller, D., Guerrero, N., Aluru, V., Eimicke, J., Teresi, J., ... & Turry, A. (2016). Music upper limb therapy—integrated: An enriched collaborative approach for stroke rehabilitation. *Frontiers in Human Neuroscience*, 10. <https://doi.org/10.3389/fnhum.2016.00498>

- Rahayu, D., Atmoko, A., Muslihati, M., Setyowati, A., & Mudjijanti, F. (2023). Establishing music therapy as an alternative to reducing compassion fatigue among health workers. *Prehospital and Disaster Medicine*, 38(4), 546–547. <https://doi.org/10.1017/s1049023x2300599x>
- Reidy, J., & MacDonald, M. (2021). Use of palliative care music therapy in a hospital setting during COVID-19. *Journal of Palliative Medicine*, 24(11), 1603–1605. <https://doi.org/10.1089/jpm.2020.0739>
- Reitere, Ē., Duhovská, J., Karkou, V., & Mārtinsons, K. (2024). Telehealth in arts therapies for neurodevelopmental and neurological disorders: A scoping review. *Frontiers in Psychology*, 15. <https://doi.org/10.3389/fpsyg.2024.1484726>
- Samson, S., Clément, S., Narme, P., Schiaratura, L., & Ehrlé, N. (2015). Efficacy of musical interventions in dementia: Methodological requirements of nonpharmacological trials. *Annals of the New York Academy of Sciences*, 1337(1), 249–255. <https://doi.org/10.1111/nyas.12621>
- Shan, J., & Qi, X. (2024). Effects of music therapy in the context of positive emotions, engagement, relationships, meaning and accomplishment (PERMA) on negative emotions in patients with mild-to-moderate depression. *Noise and Health*, 26(122), 363–369. https://doi.org/10.4103/nah.nah_57_24
- Shushardzhan, S., Allik, T., & Eremina, N. (2022). Meso-forte — innovative method for musical-acoustic psychotherapy and neurohormonal correction with anti-aging effect: Clinical study. *Bulletin of Restorative Medicine*, 21(1), 79–85. <https://doi.org/10.38025/2078-1962-2022-21-1-79-85>
- Sudha, T., Raja, P., & Bharathi, V. (2024). Harmony wave. *IGI Global*, 197–220. <https://doi.org/10.4018/979-8-3693-6552-6.ch009>
- Tripathi, J., Singh, S., & Khan, W. (2022). Raga therapy an effective treatment for stress management. *Defence Life Science Journal*, 7(1), 11–16. <https://doi.org/10.14429/dlsj.7.17056>
- Uhlig, S., Jansen, E., & Scherder, E. (2016). Study protocol rapmusictherapy for emotion regulation in a school setting. *Psychology of Music*, 44(5), 1068–1081. <https://doi.org/10.1177/0305735615608696>
- Uhlig, S., Jansen, E., & Scherder, E. (2017). “Being a bully isn’t very cool...”: Rap & sing music therapy for enhanced emotional self-regulation in an adolescent school setting – A randomized controlled trial. *Psychology of Music*, 46(4), 568–587. <https://doi.org/10.1177/0305735617719154>
- Váradí, J. (2022). A review of the literature on the relationship of music education to the development of socio-emotional learning. *SAGE Open*, 12(1). <https://doi.org/10.1177/21582440211068501>

- Vik, B., Skeie, G., & Specht, K. (2019). Neuroplastic effects in patients with traumatic brain injury after music-supported therapy. *Frontiers in Human Neuroscience*, 13. <https://doi.org/10.3389/fnhum.2019.00177>
- Warth, M., Koehler, F., Weber, M., Bardenheuer, H., Ditzen, B., & Keßler, J. (2019). “Song of life (SOL)” study protocol: A multicenter, randomized trial on the emotional, spiritual, and psychobiological effects of music therapy in palliative care. *BMC Palliative Care*, 18(1). <https://doi.org/10.1186/s12904-019-0397-6>
- Zheng, J. (2024). Music sentiment analysis and its application in music therapy based on AI technology. *The International Journal of Maritime Engineering*. <https://doi.org/10.5750/ijme.v1i1.1358>