

Impact of Brahma Kumaris Rajyoga Meditation on Stress Management Among Medical Students: A Review

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Abstract

Medical students frequently experience considerable academic, clinical, and interpersonal pressures that may contribute to psychological stress and negatively affect their well-being and academic functioning. Brahma Kumaris Rajyoga Meditation is a contemplative practice emphasizing self-awareness, positive thinking, inner peace, and emotional stability, and may provide a complementary approach to stress management. The present review examines the impact of Brahma Kumaris Rajyoga Meditation on stress management among medical students. Relevant empirical studies, review articles, and scholarly literature concerning Rajyoga meditation, meditation-based stress management, and student psychological well-being were examined. The reviewed evidence suggests that regular Rajyoga practice may help reduce perceived stress by promoting relaxation, self-awareness, emotional regulation, positive cognitive orientation, and adaptive coping. These potential benefits may be particularly relevant for medical students who face demanding academic schedules, examinations, clinical training, and performance-related pressures. However, direct research specifically examining Brahma Kumaris Rajyoga among medical students remains limited, and existing studies vary in sample characteristics, intervention duration, and research methodology. Further randomized controlled and longitudinal studies using validated stress measures are needed to establish the effectiveness and long-term benefits of Rajyoga meditation in this population. Overall, Brahma Kumaris Rajyoga Meditation appears to be a promising complementary approach for supporting stress management and psychological well-being among medical students.

Keywords: Brahma Kumaris, Rajyoga Meditation, Medical Students, Stress Management, Psychological Well-Being, Meditation, Academic Stress

1. Introduction

Medical education is widely recognized as a demanding academic and professional training process. Medical students are required to manage extensive academic content, examinations, practical training, clinical responsibilities, time pressure, and expectations of professional competence. These demands may contribute to psychological stress and can affect students' emotional well-being, concentration, academic functioning, and quality of life. A systematic review by Dyrbye et al. (2006) reported a substantial burden of distress among medical students and highlighted the need for effective approaches to support their psychological well-being. Stress can be understood as a psychological and physiological response that occurs when individuals

perceive that environmental demands exceed their available resources. While short-term stress may sometimes facilitate performance, persistent or excessive stress can negatively influence psychological and physical functioning. Chronic stress is associated with alterations in physiological stress systems and may have consequences for health and cognitive functioning (McEwen, 2007). For medical students, prolonged academic and clinical stress may therefore become an important concern (Dyrbye et al., 2006).

The demanding nature of medical education may create several specific sources of stress. Students may experience examination pressure, large academic workloads, competition, fear of failure, clinical uncertainty, difficult patient encounters, sleep disruption, and concerns about future professional responsibilities. Such pressures may occur

simultaneously and can make it difficult for students to maintain adequate psychological balance (Dyrbye et al., 2006; Jeyapalan & Blair, 2024). Therefore, effective and accessible approaches to stress management are important within medical education. Meditation has increasingly been examined as a complementary approach to managing psychological stress. Meditation practices generally involve some combination of attentional regulation, self-awareness, relaxation, and cultivation of constructive mental states. A systematic review and meta-analysis by Goyal et al. (2014) found that meditation programs were associated with moderate improvements in psychological stress and anxiety-related outcomes, although the effects varied according to the intervention and study population. Similarly, Sedlmeier et al. (2012) reported beneficial psychological effects across different forms of meditation. Evidence specifically involving medical students has also reported reductions in stress and psychological distress following mindfulness-based interventions, although the interventions and study designs vary considerably (Sperling et al., 2023; Kaisti et al., 2024).

One specific contemplative practice is Brahma Kumaris Rajyoga Meditation. Rajyoga, as taught by the Brahma Kumaris, emphasizes meditation, self-awareness, positive thinking, inner peace, and the development of emotional stability. The practice focuses primarily on mental awareness and reflective meditation rather than physical postures. Practitioners are encouraged to observe their thoughts and consciously cultivate peaceful and positive states of mind (Kiran et al., 2017; Sukhsohale et al., 2012).

The potential role of Rajyoga in stress management can be understood through several psychological processes. Self-awareness may help individuals recognize stressful thoughts and emotional reactions before responding automatically. Positive thinking may support a more constructive interpretation of challenging situations, while meditation and reflective attention may promote relaxation and emotional stability. Broader meditation research has identified attention regulation, emotion regulation, and changes in perspective on the self as possible mechanisms through which meditation may influence psychological

functioning (Hölzel et al., 2011; Sedlmeier et al., 2012). Rajyoga-specific research has also reported favorable psychological outcomes related to stress, anxiety, and stressful events, although the available studies differ in their populations and research designs (Kiran et al., 2017; Madhu et al., 2022).

Medical students may particularly benefit from practices that can be incorporated into demanding daily schedules. Rajyoga does not require specialized physical equipment and can be practiced in a relatively simple sitting position. Regular practice may provide students with a structured opportunity to pause from academic and clinical demands, develop self-awareness, and cultivate psychological calmness. However, such potential benefits require empirical examination rather than being assumed from the theoretical principles of the practice.

Research involving medical students has also shown interest in meditation and other mind-body interventions for managing stress and improving psychological well-being. Recent systematic reviews have reported that mindfulness-based interventions may reduce stress and psychological distress among medical students and may contribute to aspects of well-being, although considerable variation exists in intervention formats, duration, outcome measures, and research designs (Sperling et al., 2023; Kaisti et al., 2024). However, much of the available evidence concerns mindfulness-based interventions or meditation generally rather than Brahma Kumaris Rajyoga Meditation specifically. Direct evidence on Raj Yoga among medical students remains comparatively limited, although an examination-stress study involving 80 medical students examined the effects of one month of supervised Raj Yoga Meditation (Role of Meditation in Ameliorating Examination Stress Induced Changes in Cardiovascular and Autonomic Functions, 2023).

Therefore, the present review focuses specifically on the impact of Brahma Kumaris Rajyoga Meditation on stress management among medical students. It examines the available literature concerning the potential effects of Rajyoga on perceived stress, emotional regulation, coping, psychological well-being, and related aspects of student functioning, while

identifying limitations and directions for future research.

2. Objectives

The present review aims to:

1. Examine the impact of Brahma Kumaris Rajyoga Meditation on stress management among medical students.
2. Review the available evidence on the effects of Rajyoga Meditation on perceived stress and psychological well-being among medical students.
3. Identify the potential mechanisms through which Rajyoga Meditation may support stress management, particularly self-awareness, relaxation, emotional regulation, positive thinking, and adaptive coping.
4. Identify research gaps and future directions concerning the use of Brahma Kumaris Rajyoga Meditation for managing stress among medical students.

3. Methodology

The present study adopted a narrative review approach to examine the impact of Brahma Kumaris Rajyoga Meditation on stress management among medical students. Relevant scholarly literature was reviewed to identify empirical and conceptual evidence concerning Rajyoga meditation, stress management, psychological well-being, emotional regulation, and coping among students.

Relevant research articles, review studies, systematic reviews, and other scholarly publications were considered based on their relevance to the objectives of the review. Particular attention was given to studies involving medical students and Rajyoga meditation. Studies involving other student or adult populations were also considered where they provided relevant evidence concerning meditation and stress management.

The literature was examined thematically and organized around major areas including Rajyoga meditation and stress, academic and clinical stress among medical students, psychological mechanisms of stress management, and the relationship between meditation and student well-being. Findings were critically synthesized to identify common patterns,

reported benefits, methodological differences, and limitations in the available evidence.

As this was a narrative review, the findings were synthesized qualitatively rather than statistically combined through meta-analysis. The review also identified research gaps and suggested directions for future research, particularly the need for well-designed randomized controlled and longitudinal studies involving medical students.

4. Review of literature

4.1 Medical Students and Sources of Academic Stress

Medical education is a demanding academic and professional training process that requires students to manage extensive theoretical knowledge, practical learning, examinations, and clinical responsibilities. The transition from classroom-based learning to clinical environments can further increase psychological demands because students are required to interact with patients, healthcare professionals, and complex clinical situations. A systematic review by Dyrbye et al. (2006) reported substantial levels of distress among medical students and highlighted the importance of addressing psychological well-being during medical education (Di Vincenzo et al., 2024).

Academic workload and examinations are among the major sources of stress experienced by medical students. Large volumes of study material, frequent assessments, competitive academic environments, and pressure to achieve satisfactory grades may contribute to perceived stress. Medical students may also experience concerns about academic failure and uncertainty regarding their future professional careers (Jeyapalan & Blair, 2024; Weber et al., 2019).

Clinical training and patient-related responsibilities may introduce additional sources of psychological pressure. Students may encounter unfamiliar clinical situations, responsibility for patient care, fear of making mistakes, and difficulties communicating with patients and healthcare professionals. These experiences can create emotional and cognitive demands beyond those associated with conventional academic study (Dyrbye et al., 2005; Weber et al., 2016).

Competition and performance pressure may further contribute to student stress. Medical education is often characterized by high academic expectations and strong competition. Students may compare their academic performance with peers and experience pressure to demonstrate competence. Such pressures may become particularly significant during examinations, clinical assessments, and transitions between stages of medical training (Jeyapalan & Blair, 2024; Ríos Andrade et al., 2026).

Fear of failure is another important factor. Medical students may perceive academic failure not only as a short-term educational difficulty but also as a potential threat to their future professional identity and career opportunities. Persistent concerns about performance may contribute to worry, reduced confidence, and psychological strain (Dyrbye et al., 2005; Weber et al., 2019).

Sleep disturbance and time pressure can further intensify academic stress. Long study hours, examinations, clinical rotations, irregular schedules, and competing academic and personal responsibilities may reduce opportunities for adequate rest. Chronic sleep restriction can adversely affect concentration, mood, learning, and general well-being, potentially creating a cycle in which academic stress and poor sleep reinforce one another (Seoane et al., 2020; Saggaf et al., 2016). Systematic reviews have reported substantial sleep problems among medical students and have identified relationships between sleep disruption, stress, and academic functioning (Seoane et al., 2020). The psychological burden of medical education therefore results from multiple interacting factors rather than from a single source. Academic workload, examinations, clinical responsibilities, competition, performance expectations, fear of failure, sleep disruption, and limited time may collectively contribute to elevated stress (Jeyapalan & Blair, 2024; Ríos Andrade et al., 2026). This highlights the need for practical and accessible strategies that can help medical students manage stress while continuing their academic and clinical training (Shiralkar et al., 2013).

4.2 Brahma Kumaris Rajyoga Meditation and Stress Management

Brahma Kumaris Rajyoga Meditation is a contemplative practice that emphasizes meditation, self-awareness, positive thinking, inner peace, and emotional stability. The practice focuses primarily on mental awareness and reflective meditation rather than physical postures. These characteristics provide a potential basis for considering Rajyoga as a complementary approach to stress management (Kiran et al., 2017).

Relaxation and inner peace are important aspects of the potential stress-management role of meditation. Regular meditation may provide an opportunity for individuals to temporarily disengage from demanding academic or clinical activities and develop a calmer mental state. Broader evidence on meditation indicates that meditation programs can produce beneficial effects on psychological stress, although the magnitude of effects differs across interventions and populations (Goyal et al., 2014; Sedlmeier et al., 2012).

Self-awareness is another central component of Rajyoga. Practitioners are encouraged to observe their thoughts, emotions, and reactions and to develop greater awareness of their internal experiences. Increased awareness may help students recognize stressful thoughts and emotional responses before these reactions become overwhelming. Brown and Ryan (2003) found that awareness of present experiences was associated with self-regulation and psychological well-being, providing relevant theoretical support for awareness-based approaches.

Rajyoga also emphasizes positive thinking. Students are encouraged to cultivate peaceful, constructive, and positive thoughts rather than repeatedly engaging with negative mental patterns. In the context of medical education, this may help students develop more balanced responses to academic difficulties, examinations, clinical challenges, and perceived failures. Positive cognitive orientation may therefore complement other stress-management strategies.

The potential effects of Rajyoga can also be considered in relation to broader research on meditation mechanisms. Hölzel et al. (2011) identified attention regulation, emotion regulation, body awareness, and changes in perspective on the self as possible

mechanisms through which meditation may influence psychological functioning. These mechanisms are relevant to medical students because effective regulation of attention and emotions may help them respond more adaptively to academic and clinical demands.

Importantly, some empirical evidence has specifically examined Raj Yoga Meditation in relation to examination stress among medical students. A study involving medical students assessed stress using the Medical Student Stressor Questionnaire and examined the effects of one month of supervised Raj Yoga Meditation during an examination period. The study reported significant declines in several domains of medical-student stress following the intervention, together with changes in selected cardiovascular and autonomic measures (Role of Meditation in Ameliorating Examination Stress Induced Changes in Cardiovascular and Autonomic Functions, 2023).

Evidence from other Rajyoga populations also provides relevant, although indirect, support. Madhu et al. (2022) compared healthy Raja Yoga meditators and non-meditators during the COVID-19 pandemic and reported differences in measures of stress, anxiety, depression, and the impact of stressful events. Because the study was cross-sectional and involved healthy adults rather than medical students, its findings should be interpreted cautiously when considering medical-student populations (Madhu et al., 2022).

Evidence from systematic reviews provides broader support for meditation as a potential stress-management approach. Goyal et al. (2014) reported moderate evidence for improvements in psychological stress and anxiety-related outcomes following meditation programs. Sedlmeier et al. (2012) also found beneficial psychological effects across different forms of meditation. However, these findings concern meditation generally and should not automatically be interpreted as evidence that Brahma Kumaris Rajyoga produces the same magnitude of effects.

For medical students, Rajyoga may therefore provide a potentially accessible method of managing perceived stress through relaxation, self-awareness, positive thinking, and emotional stability. Nevertheless, direct empirical research specifically examining Brahma Kumaris Rajyoga among medical students remains

comparatively limited. Further controlled studies are required to determine its effectiveness, appropriate intervention duration, and long-term benefits.

4.3 Rajyoga, Emotional Regulation and Coping

Emotional regulation and coping are important components of effective stress management among medical students. Academic examinations, clinical responsibilities, patient interactions, and performance expectations may generate emotional responses such as worry, frustration, fear, and uncertainty. The ability to recognize and manage these responses may help students maintain psychological balance during demanding situations.

Brahma Kumaris Rajyoga Meditation emphasizes self-awareness and observation of thoughts and emotions. Through regular practice, individuals are encouraged to become aware of their mental responses rather than reacting automatically to stressful situations. Such awareness may provide an opportunity to respond to academic and clinical challenges in a more deliberate and constructive manner. Research on Rajyoga practitioners has also reported associations between meditation experience and positive thinking, suggesting a possible relationship between Rajyoga practice and constructive cognitive patterns (Ramesh Babu et al., 2013; Ramesh Babu et al., 2021).

Emotional regulation may represent an important pathway through which meditation supports stress management. Hölzel et al. (2011) identified emotion regulation as one of the possible mechanisms associated with meditation-based practices. Similarly, broader research on meditation has reported associations with improved emotional well-being and psychological functioning (Sedlmeier et al., 2012).

Rajyoga also emphasizes positive thinking and cognitive awareness. Medical students may experience negative thoughts related to academic performance, examinations, clinical mistakes, or future professional responsibilities. Developing a more constructive mental orientation may help students reduce excessive engagement with such thoughts and approach challenging situations with greater psychological stability. Evidence from Rajyoga research has reported enhanced positive thoughts among experienced practitioners compared with non-meditators, although

the cross-sectional design does not establish a causal effect of meditation (Ramesh Babu et al., 2021)

Another potential benefit is adaptive coping. Coping involves the cognitive and behavioral strategies individuals use to manage demanding situations. Meditation may support coping by encouraging calmness, self-reflection, and reduced emotional reactivity. Brown and Ryan (2003) reported a relationship between present-moment awareness, self-regulation, and psychological well-being, providing relevant theoretical support for awareness-based approaches.

Recent experimental evidence also provides relevant support for the potential role of Rajyoga in stress-related psychological outcomes. Jain et al. (2025) conducted a randomized controlled trial among healthcare professionals during the COVID-19 pandemic and reported reductions in anxiety and stress together with improvements in psychological well-being following Rajyoga meditation. Although healthcare professionals are not medical students, these findings provide related evidence concerning the potential psychological effects of Rajyoga in a healthcare-related population (Jain et al., 2025).

Rajyoga may therefore contribute to stress management not only by promoting immediate relaxation but also by strengthening psychological resources such as self-awareness, emotional regulation, positive thinking, and adaptive coping. These processes may be particularly relevant for medical students who regularly encounter academic and clinical challenges.

However, the available evidence should be interpreted cautiously. Much of the research on emotional regulation and coping concerns mindfulness or meditation generally rather than Brahma Kumaris Rajyoga specifically. Further research is needed to determine whether Rajyoga produces measurable improvements in coping and emotional regulation among medical students.

4.4 Meditation, Psychological Well-Being and Medical Students

Psychological well-being is an important component of successful medical education because medical students are required to manage continuous academic demands

alongside clinical training and interpersonal responsibilities. Persistent academic and clinical pressure may influence students' emotional balance, concentration, motivation, and overall functioning. Therefore, approaches that support psychological well-being may have an important complementary role within medical education Dyrbye et al., 2006; Halliday et al., 2018)..

Meditation has been increasingly examined as a potential approach for improving psychological well-being. Meditation practices may provide individuals with opportunities to develop greater awareness of their internal experiences and to cultivate calmness and mental stability. A meta-analysis by Sedlmeier et al. (2012) reported beneficial effects of meditation across several psychological outcomes, although the magnitude of effects differed across meditation traditions and outcomes, although the magnitude of effects differed across meditation traditions and outcomes. Among medical students specifically, a systematic review and meta-analysis found that mindfulness-based training was associated with improvements in stress and psychological well-being, although considerable heterogeneity was observed across studies (Soares et al., 2023).

Medical students may also experience anxiety and psychological tension in relation to examinations, clinical performance, patient interactions, and future professional responsibilities. Although anxiety is not the primary outcome of the present review, it is closely related to psychological stress and may influence students' overall well-being. Goyal et al. (2014) found that meditation programs were associated with improvements in anxiety-related outcomes, supporting the potential value of meditation as a complementary psychological intervention. Evidence from systematic reviews of medical-student interventions also suggests potential benefits of mindfulness-based approaches for psychological distress and related outcomes, although the quality and consistency of evidence vary across outcomes (Soares et al., 2023; Kaisti et al., 2024).

Mental calmness may be another relevant outcome. Regular meditation can provide a structured period in which students temporarily disengage from academic and clinical demands and focus their attention on a calmer mental state. In the context of Rajyoga, the

emphasis on inner peace, self-awareness, and positive thinking may potentially support this process. However, direct evidence for these effects specifically among medical students remains limited.

Concentration and attention are particularly important for medical students because learning medicine requires sustained attention, information processing, memory, and careful observation during clinical activities. Meditation practices commonly involve some form of attentional regulation. Hölzel et al. (2011) identified attention regulation as one of the potential mechanisms through which meditation may influence psychological functioning. Improved attentional control may therefore have relevance not only for emotional well-being but also for academic and clinical learning. A systematic review of mindfulness-based interventions in medical students also identified attention and related psychological outcomes as important areas of investigation, although the available evidence remains heterogeneous (Kaisti et al., 2024).

Meditation may also have implications for academic functioning. When students experience high levels of psychological stress, concentration and learning may be negatively affected. By promoting greater mental stability and attentional control, meditation may potentially help students maintain engagement with academic tasks. However, evidence concerning direct improvements in academic performance is less consistent than evidence concerning psychological outcomes, and academic achievement is influenced by numerous factors beyond meditation. A systematic review of mindfulness interventions among health-profession students found insufficient evidence to establish a clear effect on academic performance, supporting the need for caution when interpreting academic outcomes (Balasooriya Lekamge et al., 2023).

The relationship between meditation and psychological well-being may therefore be understood as multidimensional. Potential benefits may involve emotional balance, reduced psychological tension, greater mental calmness, improved attentional regulation, and more adaptive responses to academic demands. These processes may indirectly support students' academic and clinical functioning. Earlier

systematic evidence among health-profession students has similarly considered psychological well-being, learning, and clinical performance as interconnected outcomes of mindfulness training (McConville et al., 2017).

For medical students, such benefits may be particularly relevant because their educational environment combines academic pressure with real-world clinical responsibilities. A simple and accessible meditation practice such as Rajyoga may potentially be incorporated into student wellness programs to support psychological well-being alongside other institutional measures.

Nevertheless, caution is required when interpreting the existing evidence. Much of the literature concerns meditation or mindfulness-based interventions in general, rather than Brahma Kumaris Rajyoga specifically. Moreover, improvements in psychological well-being do not necessarily imply improvements in academic performance. Future research should therefore examine psychological and academic outcomes separately using validated measures and appropriate research designs. This distinction is particularly important because systematic evidence has not established a consistent effect of mindfulness interventions on academic performance among health-profession students (Balasooriya Lekamge et al., 2023).

Overall, the available literature suggests that meditation may contribute to the psychological well-being of medical students through mental calmness, attention regulation, emotional balance, and improved coping with academic demands. These findings provide a relevant theoretical foundation for further investigation of Brahma Kumaris Rajyoga Meditation as a complementary approach within medical education.

4.5 Evidence, Research Gaps and Need for Rajyoga-Based Studies

The existing literature provides encouraging evidence regarding the potential role of meditation in managing psychological stress. Systematic reviews have reported beneficial effects of meditation-based interventions on stress and related psychological outcomes (Goyal et al., 2014; Sedlmeier et al., 2012). Evidence specifically

involving medical students also indicates that mindfulness-based interventions may reduce stress and psychological distress and may support aspects of psychological well-being (Kaisti et al., 2024; Sperling et al., 2023). These findings provide a broader scientific basis for examining meditation as a complementary approach within medical education.

However, an important distinction must be made between meditation in general and Brahma Kumaris Rajyoga specifically. Many published studies have examined mindfulness-based interventions, relaxation techniques, or other meditation traditions. Their findings cannot automatically be generalized to the specific philosophy, method, and practice structure of Brahma Kumaris Rajyoga. Even systematic reviews focused specifically on medical students have reported substantial variation in the types, formats, and duration of mindfulness interventions (Kaisti et al., 2024; Sperling et al., 2023).

A major research gap is the limited number of studies focusing specifically on medical students. Medical students experience a distinctive combination of academic, clinical, interpersonal, and professional pressures. Therefore, evidence from general university populations may not fully represent their needs or responses to meditation interventions. Although some evidence has directly examined Raj Yoga meditation during examination stress among medical students, the available Rajyoga-specific literature remains much smaller than the broader mindfulness literature (Role of Meditation in Ameliorating Examination Stress Induced Changes in Cardiovascular and Autonomic Functions, 2023).

Another limitation concerns differences in intervention duration, frequency, sample size, and measurement instruments. Studies may use different stress scales and different definitions of intervention adherence, making direct comparison difficult. Recent systematic reviews of mindfulness interventions among medical students have similarly identified heterogeneity in intervention procedures, duration, study designs, and outcome measures (Kaisti et al., 2024; Sperling et al., 2023). Future studies should use validated stress measures and clearly describe the Rajyoga intervention protocol, including session duration, frequency, total intervention period, and participant adherence.

There is also a need for stronger experimental evidence. Randomized controlled trials with appropriate comparison groups would help establish whether changes in stress are attributable specifically to Rajyoga rather than to expectancy effects, social interaction, relaxation time, or other factors. Longitudinal follow-up would further help determine whether benefits are sustained after the intervention ends. The need for careful intervention dosing and appropriate research designs has also been emphasized in systematic reviews of mindfulness interventions among medical students (Kaisti et al., 2024; Sperling et al., 2023).

Future research should also examine potential mechanisms of effect, including self-awareness, emotional regulation, positive thinking, coping, attention regulation, and psychological well-being. Understanding these mechanisms could clarify how Rajyoga may influence stress among medical students. Another important research gap concerns academic outcomes. Although improved psychological well-being and reduced stress may potentially support learning, evidence for direct improvements in academic performance remains limited. A systematic review of mindfulness interventions among health-profession students found insufficient evidence to establish a clear effect on academic performance, indicating that future Rajyoga studies should assess psychological and academic outcomes separately (Balasooriya Lekamge et al., 2023).

Overall, the literature supports further investigation of Brahma Kumaris Rajyoga Meditation as a potential complementary strategy for stress management among medical students. Nevertheless, the current evidence is not yet sufficient to make definitive claims regarding its effectiveness, emphasizing the need for rigorous, medical-student-specific research.

5. Findings and discussion

The reviewed literature suggests that Brahma Kumaris Rajyoga Meditation has potential as a complementary approach for managing stress among medical students. The possible benefits appear to be associated with several interconnected psychological processes rather than with relaxation alone. Evidence from broader meditation research and Rajyoga-specific studies

suggests that these processes may include stress reduction, emotional regulation, positive thinking, self-awareness, and psychological well-being (Goyal et al., 2014; Hölzel et al., 2011; Sedlmeier et al., 2012)

5.1 Rajyoga and Perceived Stress

Medical students experience multiple sources of stress, including academic workload, examinations, clinical training, performance expectations, and time pressure. The reviewed meditation literature suggests that regular meditation may reduce perceived psychological stress (Goyal et al., 2014; Sedlmeier et al., 2012). Evidence from medical-student research also indicates that meditation-based interventions may help reduce stress and psychological distress, although findings vary according to intervention type and study design (Kaisti et al., 2024; Sperling et al., 2023).

Rajyoga may potentially support similar outcomes through relaxation, inner calmness, and increased awareness of stressful thoughts. Rajyoga-specific research has reported beneficial stress-related outcomes in different populations. For example, Madhu et al. (2022) reported lower stress and reduced impact of stressful events among Raja Yoga meditators during the COVID-19 pandemic. Similarly, Kiran et al. (2017) reported reductions in anxiety and changes in serum cortisol following Rajyoga meditation among patients undergoing coronary artery bypass surgery. Although these populations differ from medical students, the findings provide indirect evidence supporting further investigation of Rajyoga as a stress-management approach.

Importantly, evidence specifically demonstrating stress reduction through Brahma Kumaris Rajyoga among medical students remains limited. A study examining Raj Yoga Meditation during an examination period among medical students reported significant changes in several domains of medical-student stress after one month of supervised practice, together with changes in selected cardiovascular and autonomic measures (Role of Meditation in Ameliorating Examination Stress Induced Changes in Cardiovascular and Autonomic Functions, 2023). This finding is directly relevant to the present review, although further controlled and replicated studies are required.

Therefore, the current evidence supports its potential usefulness but does not establish a definitive causal effect.

5.2 Rajyoga and Emotional Regulation

Emotional regulation appears to be another important pathway. Medical students may experience fear, frustration, uncertainty, and emotional pressure during academic and clinical training. Rajyoga's emphasis on observing thoughts and emotions may help students develop greater awareness and reduce automatic emotional reactions.

Broader meditation research identifies emotion regulation as one possible mechanism underlying psychological benefits of meditation (Hölzel et al., 2011). Similarly, the meta-analysis by Sedlmeier et al. (2012) reported beneficial psychological effects across different meditation practices, although effects varied across outcomes and meditation traditions.

Rajyoga-specific research also provides relevant evidence concerning positive cognitive and emotional processes. Ramesh et al. (2013) reported improved positive thinking among participants practicing Rajyoga meditation, while Ramesh Babu et al. (2021) reported enhanced positive thoughts among experienced Rajyoga practitioners compared with non-meditators. Because the latter study used a cross-sectional design, its findings demonstrate an association rather than establishing that Rajyoga caused the observed differences.

Thus, Rajyoga may potentially contribute to emotional regulation by increasing awareness of internal experiences and encouraging more constructive cognitive responses. However, direct evidence measuring emotional-regulation changes among medical students remains limited.

5.3 Rajyoga and Coping

Effective coping is important for students facing repeated academic and clinical challenges. Rajyoga may encourage students to approach stressful situations with greater mental stability, positive thinking, and self-awareness. Such psychological resources may support more adaptive responses to academic difficulties.

Brown and Ryan (2003) found that awareness of present experiences was associated with self-regulation and psychological well-being. Although this research was conducted in the broader context of mindfulness, it provides relevant theoretical support for awareness-based approaches such as Rajyoga.

Research involving Rajyoga practitioners has also reported associations with positive cognitive patterns. Ramesh Babu et al. (2021) found differences in positive thought scores between experienced Rajyoga practitioners and non-meditators. These findings may be relevant to coping because constructive cognitive responses can form part of adaptive responses to stressful situations. However, the cross-sectional nature of the study limits conclusions regarding causality.

Therefore, the potential role of Rajyoga in coping may be understood as a plausible psychological pathway rather than an established effect among medical students. Future studies should directly assess coping strategies using validated instruments before and after Rajyoga interventions.

5.4 Rajyoga and Psychological Well-Being

Stress management is closely related to broader psychological well-being. Meditation may contribute to emotional balance, calmness, and improved psychological functioning. Sedlmeier et al. (2012) reported beneficial psychological effects across different forms of meditation, while Goyal et al. (2014) found evidence of benefits for psychological stress and anxiety-related outcomes.

Evidence specifically involving healthcare-related populations is also relevant. Jain et al. (2025), in a randomized controlled trial among healthcare professionals during the COVID-19 pandemic, reported reductions in stress and anxiety together with improvements in psychological well-being following Rajyoga meditation. Although healthcare professionals are not medical students, this study provides experimental evidence relevant to the potential psychological effects of Rajyoga within a healthcare-related population.

For medical students, improvements in psychological well-being may be particularly valuable because emotional health can influence concentration, learning,

interpersonal functioning, and the ability to manage demanding clinical environments. Rajyoga may therefore have potential benefits beyond stress reduction alone. Nevertheless, these potential benefits should be examined directly in medical-student populations rather than inferred solely from studies of other groups.

5.5 Overall Discussion

Overall, the literature indicates that Brahma Kumaris Rajyoga Meditation may support stress management among medical students through relaxation, self-awareness, emotional regulation, positive thinking, and adaptive coping. These processes may work together to reduce psychological reactivity to academic and clinical demands (Hölzel et al., 2011; Sedlmeier et al., 2012).

The available Rajyoga-specific evidence provides additional support for investigating these potential effects. Studies have reported associations with positive thinking (Ramesh et al., 2013; Ramesh Babu et al., 2021), stress-related outcomes (Madhu et al., 2022), and psychological well-being and stress among healthcare professionals (Jain et al., 2025). In addition, evidence from medical students during an examination period provides a more direct basis for further investigation of Raj Yoga Meditation in this population (Role of Meditation in Ameliorating Examination Stress Induced Changes in Cardiovascular and Autonomic Functions, 2023).

Nevertheless, an important distinction must be maintained between evidence for meditation generally and evidence specifically for Brahma Kumaris Rajyoga. The available literature provides a promising theoretical and empirical foundation, but direct medical-student-specific evidence remains insufficient. Differences in study populations, intervention protocols, sample sizes, outcome measures, and research designs also limit direct comparison between studies.

Therefore, Rajyoga should currently be regarded as a potential complementary strategy for stress management, rather than as a proven substitute for professional psychological support or broader institutional measures addressing unhealthy academic and clinical conditions. Future randomized controlled

studies involving medical students should use validated measures of perceived stress, anxiety, emotional regulation, coping, and psychological well-being, together with appropriate control groups and longer-term follow-up.

6. Practical Implications

The reviewed evidence suggests that Brahma Kumaris Rajyoga Meditation may have practical value as a complementary strategy for stress management among medical students. Medical colleges and universities may consider incorporating brief, structured meditation sessions into student wellness or stress-management programs.

Regular Rajyoga practice may provide students with opportunities to develop self-awareness, relaxation, emotional regulation, positive thinking, and adaptive coping. Such practices may be particularly useful during academically demanding periods, examinations, and clinical training.

Medical institutions may also consider providing appropriate orientation and voluntary guided sessions through trained instructors. However, meditation should be integrated with broader student-support measures, including counseling services, adequate rest, healthy academic environments, and appropriate workload management. Rajyoga should not be considered a replacement for professional mental-health care when students experience severe or persistent psychological difficulties.

7. Limitations

This review has several limitations. First, relatively few studies have specifically examined Brahma Kumaris Rajyoga Meditation among medical students. Much of the supporting evidence comes from research on meditation or mindfulness more generally. Second, the available studies may differ in sample size, intervention duration, stress measures, and research design, limiting direct comparison. Third, the present study used a narrative review approach and did not statistically combine effect sizes through meta-analysis. Therefore, the findings should be interpreted as an overview of the available evidence rather than definitive proof of effectiveness.

8. Conclusion

The present review examined the impact of Brahma Kumaris Rajyoga Meditation on stress management among medical students. The reviewed literature suggests that Rajyoga may be a promising complementary approach for managing psychological stress through relaxation, self-awareness, emotional regulation, positive thinking, inner stability, and adaptive coping.

The broader meditation literature provides encouraging evidence for the potential benefits of meditation in reducing psychological stress and improving well-being (Goyal et al., 2014; Sedlmeier et al., 2012). These findings provide a useful basis for investigating Brahma Kumaris Rajyoga within medical education. However, evidence specifically focused on Rajyoga and medical students remains limited.

Therefore, definitive conclusions about the effectiveness of Brahma Kumaris Rajyoga for stress management among medical students cannot yet be made. Future research should use larger samples, randomized controlled designs, standardized Rajyoga protocols, validated stress measures, and longer follow-up periods.

In conclusion, Brahma Kumaris Rajyoga Meditation appears to be a potentially useful and accessible complementary practice for supporting stress management and psychological well-being among medical students, while further rigorous empirical research is required to establish its effectiveness and long-term benefits.

References

1. Bexelius, T., Lachmann, H., Järnbert-Pettersson, H., Kalén, S., Möller, R., & Ponzer, S. (2019). Stress among medical students during clinical courses: A longitudinal study using contextual activity sampling system. *International Journal of Medical Education*, 10, 68–74. <https://doi.org/10.5116/ijme.5c94.9391>
2. Bhagat, A., Srivastav, S., Malhotra, A. S., Rohilla, R., Sidana, A. K., & Dee, K. K. (2023). Role of meditation in ameliorating examination stress induced changes in cardiovascular and autonomic functions. *Annals of Neurosciences*, 30(3), 188–196. <https://doi.org/10.1177/09727531231169629>

3. A., Srivastav, S., Malhotra, A. S., Rohilla, R., et al. (2023). Role of meditation in ameliorating examination stress induced changes in cardiovascular and autonomic functions. *Journal of Family Medicine and Primary Care*, 30(3), 188–196. <https://doi.org/10.1177/09727531231169629>
4. Brown, K. W., & Ryan, R. M. (2003). The benefits of being present: Mindfulness and its role in psychological well-being. *Journal of Personality and Social Psychology*, 84(4), 822–848. <https://doi.org/10.1037/0022-3514.84.4.822>
5. Di Vincenzo, M., et al. (2024). Is there a burnout epidemic among medical students? Results from a systematic review. *Medicina*, 60(4), 575. <https://doi.org/10.3390/medicina60040575>
6. Dyrbye, L. N., Thomas, M. R., & Shanafelt, T. D. (2005). Medical student distress: Causes, consequences, and proposed solutions. *Mayo Clinic Proceedings*, 80(12), 1613–1622. <https://doi.org/10.4065/80.12.1613>
7. Dyrbye, L. N., Thomas, M. R., & Shanafelt, T. D. (2006). Systematic review of depression, anxiety, and other indicators of psychological distress among U.S. and Canadian medical students. *Academic Medicine*, 81(4), 354–373. <https://doi.org/10.1097/00001888-200604000-00009>
8. Goyal, M., Singh, S., Sibinga, E. M. S., Gould, N. F., Rowland-Seymour, A., Sharma, R., Berger, Z., Sleicher, D., Maron, D. D., Shihab, H. M., Ranasinghe, P. D., Linn, S., Saha, S., Bass, E. B., & Haythornthwaite, J. A. (2014). Meditation programs for psychological stress and well-being: A systematic review and meta-analysis. *JAMA Internal Medicine*, 174(3), 357–368. <https://doi.org/10.1001/jamainternmed.2013.13018>
9. Hölzel, B. K., Lazar, S. W., Gard, T., Schuman-Olivier, Z., Vago, D. R., & Ott, U. (2011). How does mindfulness meditation work? Proposing mechanisms of action from a conceptual and neural perspective. *Perspectives on Psychological Science*, 6(6), 537–559. <https://doi.org/10.1177/1745691611419671>
10. Jeyapalan, T., & Blair, E. (2024). The factors causing stress in medical students and their impact on academic outcomes: A narrative qualitative systematic review. *International Journal of Medical Students*, 12(2), 195–203. <https://doi.org/10.5195/ijms.2024.2218>
11. Kaisti, I., Kulmala, P., Hintsanen, M., Hurtig, T., Repo, S., Paunio, T., Miettunen, J., Halt, A.-H., & Jääskeläinen, E. (2024). The effects of mindfulness-based interventions in medical students: A systematic review. *Advances in Health Sciences Education*, 29(1), 245–271. <https://doi.org/10.1007/s10459-023-10231-0>
12. McEwen, B. S. (2007). Physiology and neurobiology of stress and adaptation: Central role of the brain. *Physiological Reviews*, 87(3), 873–904. <https://doi.org/10.1152/physrev.00041.2006>
13. Ramesh, M. G., Sathian, B., Sinu, E., & Rai, K. S. (2013). Efficacy of Rajayoga meditation on positive thinking: An index for self-satisfaction and happiness in life. *Journal of Clinical and Diagnostic Research*, 7(10), 2265–2267. <https://doi.org/10.7860/JCDR/2013/5889.3488>
14. Ramesh Babu, M. G., Kadavigere, R., Koteshwara, P., Sathian, B., & Rai, K. S. (2021). Rajyoga meditation experience induces enhanced positive thoughts and alters gray matter volume of brain regions: A cross-sectional study. *Mindfulness*, 12, 1659–1671. <https://doi.org/10.1007/s12671-021-016>
15. Ríos Andrade, R., Peralta Ramírez, A. A., & Trujillo López, S. (2026). Psychosocial factors associated with academic performance in medical students: A systematic review. *BMC Medical Education*, 26(1), 451. <https://doi.org/10.1186/s12909-026-08742-6>
16. Santiago, I. S., de Castro, E., Castro, S., de Brito, A. P. A., et al. (2024). Stress and exhaustion among medical students: A prospective longitudinal study on the impact of the assessment period on medical education. *BMC Medical Education*, 24, 630. <https://doi.org/10.1186/s12909-024-05617-6>
17. Sedlmeier, P., Eberth, J., Schwarz, M., Zimmermann, D., Haerig, F., Jaeger, S., & Kunze, S. (2012). The psychological effects of meditation: A meta-analysis. *Psychological Bulletin*, 138(6), 1139–1171. <https://doi.org/10.1037/a0028168>

18. Seoane, H. A., Moschetto, L., Orliacq, F., Orliacq, J., Serrano, E., Cazenave, M. I., Vigo, D. E., & Pérez-Lloret, S. (2020). Sleep disruption in medicine students and its relationship with impaired academic performance: A systematic review and meta-analysis. *Sleep Medicine Reviews*, 53, 101333.
<https://doi.org/10.1016/j.smrv.2020.101333>
19. Shiralkar, M.T., Harris, T.B., Eddins-Folensbee, F.F. *et al.* A Systematic Review of Stress-Management Programs for Medical Students. *Acad Psychiatry* 37, 158–164 (2013).
<https://doi.org/10.1176/appi.ap.12010003>
20. Sperling, E. L., Hulett, J. M., Sherwin, L. B., Thompson, S., & Bettencourt, B. A. (2023). The effect of mindfulness interventions on stress in medical students: A systematic review and meta-analysis. *PLOS ONE*, 18(10), e0286387.
<https://doi.org/10.1371/journal.pone.0286387>
21. Weber, J., Skodda, S., Muth, T., Angerer, P., & Loerbroks, A. (2019). Stressors and resources related to academic studies and improvements suggested by medical students: a qualitative study. *BMC medical education*, 19(1), 312.
<https://doi.org/10.1186/s12909-019-1747-z>