ISSN: 2320-2882



INTERNATIONAL JOURNAL OF CREATIVE **RESEARCH THOUGHTS (IJCRT)**

An International Open Access, Peer-reviewed, Refereed Journal

Influence Of Yoga And Exercise Therapies On The Development Of Psychological Parameters **Among Obese School Students**

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Abstract: This paper delves into the critical issue of childhood obesity in India, emphasizing its profound psychological implications on school students. The prevalence of obesity is escalating, leading to adverse effects on self-esteem, anxiety and depression. Conventional weight management approaches often neglect the psychological dimension. This paper explores the potential of yoga and exercise therapies in addressing psychological aspects of childhood obesity. Through an examination of existing literature, the paper highlights the significant psychological impact of obesity on Indian school students. Subsequently, it explores the role of yoga in promoting mindfulness, stress reduction and emotional regulation supported by relevant studies. Additionally, the positive effects of exercise therapies on mood, cognitive function and psychological resilience among adolescents are discussed. The paper proposes practical strategies for integrating yoga and exercise into school settings. The Fit India Movement and initiatives like 'Yoga in Schools' and 'Yoga for Adolescents' demonstrate the feasibility and efficacy of such interventions. The integration of yoga and exercise therapies holds promise for addressing childhood obesity comprehensively, requiring collaboration between schools, communities and health professionals.

Index Terms - Yoga, Exercises, Therapy, Psychology, Obese, School Students

INTRODUCTION 1.

Childhood obesity has become a critical public health concern in India, with a significant impact on physical health and psychological well-being. The prevalence of obesity among school students is rising at an alarming rate, contributing to various health issues, including psychological challenges such as low selfesteem, anxiety and depression. This paper explores the potential influence of yoga and exercise therapies in addressing and improving psychological parameters among obese school students.

Childhood obesity is associated with a range of psychological issues that affects academic performance, social interactions and overall quality of life. Traditional approaches to weight management often focus solely on physical aspects, neglecting the psychological well-being of affected individuals. Incorporating yoga and exercise therapies in school settings presents overall approach to addressing both physical and psychological aspects of obesity.

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2. YOGA AND EXERCISE THERAPIES

Yoga and exercise therapies offer a wide range of physical and mental health benefits, contributing to overall well-being. Some of the benefits associated with these practices are as follows:

2.1 Yoga:

- ➤ Mindfulness and Relaxation: Yoga emphasizes mindfulness through breath control and meditation, promoting a calm and focused mind. Various yoga poses and techniques encourage relaxation, reducing stress levels.
- Flexibility and Balance: Regular practice of yoga enhances flexibility and improves balance which is particularly beneficial for physical well-being.
- > Strength and Endurance: Yoga involves holding poses that engage various muscle groups contributing to improved strength and endurance.
- > Stress Reduction: Yoga has been shown to lower cortisol levels, the stress hormone, leading to reduced stress and anxiety.
- Emotional Regulation: Yoga practices including meditation and mindfulness, help individuals better understand and regulate their emotions.
- ➤ Improved Posture: The focus on body awareness in yoga helps correct and maintain good posture, reducing the risk of musculoskeletal issues.
- Enhanced Respiratory Function: Breathing exercises (Pranayama) in yoga improve lung capacity and respiratory function.
- ➤ Holistic Well-being: Yoga addresses physical, mental and spiritual aspects, promoting a holistic approach to well-being.

2.2 Exercise Therapies:

- ➤ Mood Enhancement: Regular physical activity, including exercise therapies, releases endorphins, leading to improved mood and reduced symptoms of depression.
- ➤ Cognitive Function: Exercise has been linked to enhanced cognitive function, including better memory, attention and learning abilities.
- ➤ Cardiovascular Health: Aerobic exercises improve cardiovascular health, reducing the risk of heart diseases.
- ➤ Weight Management: Regular exercise plays a crucial role in weight management by burning calories and increasing metabolism.
- ➤ **Improved Sleep:** Physical activity contributes to better sleep quality and can help alleviate sleep disorders.
- ➤ **Social Interaction:** Group exercise activities provide opportunities for social interaction, fostering a sense of community and support.
- ➤ Increased Energy Levels: Engaging in regular exercise enhances overall energy levels and reduces fatigue.

> Stress Reduction: Physical activity helps in managing stress by promoting the release of neurotransmitters that improve mood.

Combining yoga and exercise therapies offers a comprehensive approach to promoting physical health, mental health and a balanced lifestyle. It is essential to tailor these practices to individual needs and preferences for optimal results.

3. PSYCHOLOGICAL IMPACT OF OBESITY:

Childhood obesity has been linked to various psychological implications, affecting the mental health of school students. Existing studies highlights the correlation between obesity and negative psychological outcomes, including low self-esteem, anxiety and depression.

- ➤ Low Self-Esteem: A study by Jaisoorya et al. (2016) investigated the relationship between obesity and self-esteem among Indian adolescents. The findings revealed a significant negative association, indicating that obese students were more likely to experience lower self-esteem compared to their non-obese counterparts.
- Anxiety: In a study by Kaur et al. (2017), the prevalence of anxiety symptoms was investigated among obese school students in India. The research identified a higher likelihood of anxiety in the obese group, suggesting a significant association between obesity and anxiety in the school-going population.
- Depression: A cross-sectional study by Ghosh et al. (2019) explored the link between obesity and depression in Indian adolescents. The research demonstrated a positive correlation, indicating that obese school students were more susceptible to experiencing symptoms of depression compared to their non-obese counterparts.

These studies collectively highlight the profound impact of obesity on the psychological well-being of school students in India, emphasizing the need for comprehensive interventions that address both the physical and psychological dimensions of childhood obesity.

4. ROLE OF YOGA IN PSYCHOLOGICAL WELL-BEING:

Yoga, rooted in ancient Indian traditions, has gained global recognition for its potential benefits on mental health. Examining the practice of yoga reveals its profound impact on psychological well-being, as evidenced by studies highlighting its role in promoting mindfulness, stress reduction and emotional regulation.

- Mindfulness and Yoga: A study by Telles et al. (2018) explored the effects of yoga on mindfulness and attention in a sample of Indian adolescents. The findings indicated a significant improvement in mindfulness scores among participants who engaged in regular yoga practice.
- ➤ Stress Reduction through Yoga: A research study conducted by Vadiraja et al. (2009) focused on the impact of yoga on stress and quality of life in breast cancer patients. The study, conducted in India, revealed that participants in the yoga group experienced significant reductions in stress levels compared to the control group.
- Emotional Regulation and Yoga: In a study by Naveen et al. (2016), the impact of yoga on emotional regulation and well-being was investigated among Indian college students. The results demonstrated that yoga intervention led to significant improvements in emotional regulation and overall psychological well-being.

These studies collectively affirm the positive impact of yoga on psychological well-being, demonstrating its effectiveness in promoting mindfulness, reducing stress and enhancing emotional regulation. The integration of yoga practices into mental health interventions holds promise for addressing various psychological challenges among individuals, aligning with the holistic approach embedded in traditional Indian practices.

5. EXERCISE THERAPIES AND PSYCHOLOGICAL RESILIENCE:

Regular physical activity, including exercise therapies, has been consistently associated with positive effects on mood, cognitive function and overall psychological resilience among adolescents. The following studies presents evidence from Indian studies highlighting the impact of exercise on reducing symptoms of anxiety and depression in this demographic.

- ➤ Mood Enhancement through Exercise: A study by Malhotra et al. (2019) examined the relationship between physical activity and mood in Indian adolescents. The findings indicated a positive association between regular physical activity and improved mood, suggesting that engaging in exercise contributes to enhanced emotional well-being.
- Cognitive Function Improvement: In a longitudinal study conducted by Rajagopalan et al. (2018), the impact of a school-based physical activity programme on cognitive function in Indian adolescents was investigated. The research reported significant improvements in cognitive performance, indicating the positive effects of regular exercise on cognitive function.
- Exercise in Reducing Anxiety and Depression: A cross-sectional study by Joshi et al. (2021) explored the role of exercise in mitigating symptoms of anxiety and depression among Indian adolescents. The findings suggested a significant negative correlation, indicating that higher levels of physical activity were associated with lower levels of anxiety and depression.

These said studies support that regular physical activity positively influences mood, cognitive function and psychological resilience among adolescents. Engaging in exercise emerges as a promising strategy for reducing symptoms of anxiety and depression, thereby promoting overall mental well-being in this age group.

IMPLEMENTATION OF YOGA AND EXERCISE THERAPIES IN SCHOOL SETTINGS: 6.

Integrating yoga and exercise therapies into the school curriculum holds immense potential for promoting the overall well-being of students. This section proposes practical strategies for implementation and highlights successful case studies and pilot programmes in India, demonstrating positive outcomes in terms of both physical and psychological well-being.

- > Practical Strategies for Integration: The "Yoga in Schools" programme in Delhi, India, exemplifies a successful initiative. Incorporating short yoga sessions into daily schedules, this programme offers a feasible approach. Providing specialized training to physical education teachers equips them to seamlessly integrate yoga and exercise routines into existing physical education classes.
- **The Fit India Movement:** The Fit India Movement, launched by the Government of India, emphasizes the importance of physical activity and fitness in schools. It encourages the adoption of yoga and exercise routines as part of the school curriculum. This nationwide initiative has showcased positive outcomes, including improvements in students' physical health and psychological well-being.

- Yoga for Adolescents in Schools": A pilot programme conducted by Nagarathna et al. (2019) implemented yoga sessions in a select group of schools in Karnataka, India. The programme integrated yoga into the regular school day, with a focus on mindfulness and stress reduction. Positive outcomes included improved physical fitness, reduced stress levels and enhanced concentration among participating students.
- > Incorporating Yoga in Educational Philosophy: The Rishikul Yogshala initiative in Uttarakhand, India, involves incorporating yoga philosophy into the overall educational curriculum. By seamlessly blending traditional education with yoga principles, this approach aims to nurture both the physical and psychological aspects of students, fostering holistic development.

These illustrations demonstrate that successful implementation of yoga and exercise therapies in schools involve a combination of practical strategies, government initiatives and pilot programmes. By integrating these practices into the daily routine, schools contributes to the holistic development of students, fostering both physical health and psychological well-being.

The integration of yoga and exercise therapies into the routine of obese school students in India holds great promise for addressing not only the physical aspects of obesity but also the associated psychological challenges. By fostering mindfulness, promoting emotional regulation and enhancing overall psychological resilience, these interventions contribute to a comprehensive approach to childhood obesity. However, successful implementation requires collaboration between schools, communities and health professionals to create a supportive environment for the well-being of the students.

7. **CONCLUSION**

Childhood obesity in India is not only a physical health concern but also a significant contributor to negative psychological outcomes among school students. The impact on self-esteem, anxiety and depression highlights the need for holistic interventions that address both the physical and psychological dimensions of obesity. This paper has explored the potential influence of yoga and exercise therapies in mitigating the psychological challenges associated with childhood obesity. The evidence presented highlights the positive impact of voga on mindfulness, stress reduction and emotional regulation, as well as the beneficial effects of exercise on mood, cognitive function and psychological resilience. Practical strategies for implementation, successful case studies and pilot programmes demonstrate the feasibility and efficacy of integrating yoga and exercise into school settings. The Fit India Movement and initiatives like 'Yoga in Schools' and 'Yoga for Adolescents' exemplify the positive outcomes achievable through collaborative efforts. The 'Rishikul Yogshala initiative' in Uttarakhand further emphasizes a holistic approach by integrating yoga philosophy into education. Overall, the integration of yoga and exercise therapies holds great promise for addressing the multifaceted challenges of childhood obesity in India, fostering both physical health and psychological wellbeing. Successful implementation requires concerted efforts and collaboration between schools, communities and health professionals to create a supportive environment for the well-being of obese school students.

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