# ISSN PRINT 2319 1775 Online 2320 7876

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# YOGA AND PHYSICAL HEALTH: A REVIEW OF SELECT SCHOLARLY PUBLICATIONS

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#### **Abstract**

Yoga is an ancient practice that promotes the union of mind, body, and spirit, and is considered a holistic approach to health. It emphasizes physical, mental, social, spiritual, and intellectual well-being. Yoga has been found to have numerous therapeutic properties and is beneficial for reducing stress, exhaustion, and restoring energy and vitality. It also helps in managing chronic diseases such as cardiovascular, respiratory, endocrine disorders, obesity, cancer, and metabolic syndrome Yoga techniques, such as asanas, pranayama, and meditation, boost the immune response, interrupt inflammation, and provide symptomatic relief for chronic conditions. Additionally, yoga helps in improving mental acuity, managing stress, and promoting emotional harmony. The practice of yoga aims to bring the body and mind into harmony, leading to a healthier and longer life. Overall, yoga plays a significant role in holistic health by addressing the physical, mental, and spiritual aspects of well-being. The present study attempts a review of select scholarly literature on Yoga and its impact on physical health.

**Keywords**: Yoga, meditation, holistic health, stress management, emotional harmony, literature review

#### Introduction

Yoga is important in holistic health as it focuses on the union of body, mind, and soul, going beyond religion, beliefs, and health conditions (Tiwari & Negi, 2019). Yoga offers a holistic approach to personal transformation by harmonizing and integrating the different layers of our being—body, mind, and spirit. Regular practice can lead to positive changes in physical fitness, mental clarity, emotional well-being, and spiritual awareness (Stec, 2020). Various physiological processes in the body can be positively influenced through yoga postures (Asanas), pranayama (breathing exercises), meditation, and relaxation techniques. Yoga can help manage and reduce stress, anxiety, and depression, improve sleep quality, increase flexibility and strength, and enhance immunity. It can also improve spinal health, encourage good posture, reduce chronic back pain, and lower the risk of back injury. Yoga promotes breath control and self-awareness, making it one of the most effective holistic therapies for anyone seeking a healthy lifestyle. Overall, yoga offers a timeless and holistic model of health and healing that considers the whole person – mind, body, and spirit. The word "yoga" comes from a Sanskrit root "yuj" which means union, or yoke, to join, and to direct and concentrate one's attention (Woodyard, 2011).



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# Yoga and Holistic Health

A number of academic publications appeared in the last two decades, examining yoga and holistic health in detail from 2001 to 2021, researchers and practitioners engaged in extensive research on multi-dimensional benefits many of the effects of yoga on individual well-being in. It contributed to our understanding that yoga can have a profound effect on the physical, mental and spiritual aspects of health, as the literature unfolds, this nuanced article reveals how yoga practicing techniques such as asana, pranayama and meditation beyond traditional health care. This paper seeks to synthesize scholarly efforts in this area, providing insights into the evolving theories, emergence of new perspectives, and discussions of advanced topics that inform yoga and holistic health in this period of change.

# Yoga and Physical Health

In the realm of holistic health, the intertwining of yoga and physical well-being has garnered significant attention. This section presents reviews of select articles which discuss on impact of yoga on physical health.

Morgan (2014) examined the feasibility of an ongoing holistic wellness program in a residential facility treating persons with HIV/AIDS. The study found that the program was feasible and acceptable to patients, and that it had a positive impact on their physical and mental health. The program included a variety of activities such as yoga, meditation, and Reiki therapy. The study suggests that holistic wellness programs can be an effective addition to traditional medical treatment for HIV/AIDS patients.

An integrative review by Beitoni (2018) delves into the transformative effects of yoga therapy on the health and wellness of cancer patients, employing the Salutogenic Theory as a conceptual framework. The study synthesizes a decade of evidence-based research, revealing yoga's efficacy in managing psychological stressors such as depression, anxiety, and stress. Despite limitations associated with small sample sizes, the findings underscore the potential of yoga to enhance the overall well-being of individuals grappling with cancer. The review advocates for future research endeavors with larger sample sizes to further validate and expand upon the positive impact of yoga in supporting the health and wellness of cancer patients.

The article by Gautam et al. (2018) explores the intricate link between paternal factors, oxidative stress (OS), and childhood cancer. Focusing on data from Indian cancer registries (2012-2014), the study highlights a notable proportion of neoplasms in children aged 0-14. The authors elucidate the multifactorial nature of childhood cancers, emphasizing the impact of advanced paternal age, lifestyle factors, and OS on sperm DNA integrity. Their synthesis underscores the importance of preconception health, proposing yoga and meditation as potential interventions to mitigate OS, reduce childhood cancer risk, and promote holistic well-being. This insightful work contributes to understanding the complex interplay of genetic and environmental factors in pediatric oncology.

Khan et al. (2018) explored the potential of yoga as a therapeutic approach for mild hypertensive patients. Ninety-seven participants completed a three-month yoga program, revealing significant improvements in systolic and diastolic blood pressure, heart rate, pulse pressure, and mean arterial pressure. Moreover, malondialdehyde (MDA), a marker of



#### IJFANS INTERNATIONAL JOURNAL OF FOOD AND NUTRITIONAL SCIENCES

#### ISSN PRINT 2319 1775 Online 2320 7876

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oxidative stress, demonstrated a notable reduction. The control group, without yoga intervention, exhibited no significant changes. These findings underscored yoga's effectiveness in enhancing blood pressure control and reducing oxidative stress, suggesting its valuable role as a complementary strategy for managing mild hypertension, either independently or in conjunction with medication.

A 2018 study (Udhan et al., 2018) aimed to evaluate the impact of six months of yoga practice on cardio-respiratory health markers in 200 healthy adults. The intervention included one hour of daily yoga for six days per week. Significant improvements were observed in physical fitness index (PFI) and maximum oxygen consumption (VO2 max) after the yoga program. Participants showed a substantial reduction in body weight and BMI, while basal metabolic rate (BMR) increased significantly. The findings suggest that long-term yoga practice positively affects cardio-respiratory fitness, contributing to weight reduction and improved physical efficiency. The study recommends incorporating yoga exercises as a regimen for enhancing cardio-respiratory health and improving body mass index.

Review by Gothe et al. (2019) showcases the growing scientific evidence supporting the positive impact of yoga on brain structure and function. Examining 11 studies utilizing MRI, fMRI, and SPECT, the article underscores yoga's influence on key brain regions and networks, including the hippocampus, amygdala, prefrontal cortex, cingulate cortex, and the default mode network (DMN). The findings suggest that yoga's holistic mind-body approach, encompassing physical postures, rhythmic breathing, and meditation, may not only enhance mental well-being but also hold promise in mitigating age-related and neurodegenerative declines. This synthesis contributes to the growing recognition of yoga as a valuable complementary health practice, fostering both physical and mental resilience.

Literature review by Aryadi et al. (2020) explores the potential of combining yoga pranayama and music therapy as a holistic rehabilitation strategy for patients with chronic obstructive pulmonary disease (COPD). Integrating conventional medical approaches with holistic techniques, the study synthesizes existing literature, revealing promising outcomes in reducing dyspnea, enhancing lung capacity, and improving overall well-being. Although positive effects are reported, the authors highlight the need for further dedicated research to solidify the efficacy of this therapy combination in COPD patients. This review contributes valuable insights into potential integrative approaches for managing COPD and underscores the importance of holistic rehabilitation strategies.

A study by Sharma et al. (2020) highlighted the escalating stress and anxiety caused by the global lockdown amid the COVID-19 pandemic, emphasizing the susceptibility of individuals with underlying health conditions. Recognizing the potential of Yoga in reducing stress, anxiety, and enhancing immune function, the research explored the feasibility of incorporating Yoga practices into workplaces and homes during and after the lockdown. The paper reviewed the fundamental mechanisms of COVID-19 infection, the impact of pre-existing health conditions, and current therapeutic approaches. It advocated the Common Yoga Protocol as a cost-effective, non-pharmacological intervention to mitigate the risks associated with COVID-19. As online platforms become vital for Yoga training due to social distancing, the study underscored the importance of accessible means, such as daily online



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Yoga sessions, to promote mental and physical well-being. The proposed Yoga protocols aim to alleviate stress and anxiety, providing a potential avenue for health preservation during these challenging times.

Against the backdrop of the global COVID-19 pandemic, a study by Kumar et al. (2021) explored the potential benefits of cost-effective strategies, specifically physical exercise and yoga. The literature search underscored the efficacy of these approaches in various viral diseases, enhancing both physical and mental well-being by improving immune system function. With a focus on ameliorating the quality of life, regular engagement in physical exercise and yoga was suggested to limit latent virus reactivations and decrease the likelihood of infections, offering a practical and accessible means to support public health during the crisis.

During the COVID-19 lockdown, a pan-India survey (Nagarathna et al., 2021) investigated the impact of yoga on physical and mental health. Using the COVID Health Assessment Scale, 23,760 responses were collected, with 9,840 actively practicing yoga. Logistic regression revealed that the yoga group displayed better coping strategies, reduced anxiety and stress, and reported good physical endurance compared to the non-yoga group. Yoga practitioners were less likely to use substances and unhealthy food, emphasizing the potential of yoga in promoting a healthy lifestyle, reducing stress, and improving immunity amid pandemic-related restrictions.

#### Conclusion

In conclusion, the reviewed scholarly publications provide a comprehensive overview of the multifaceted benefits of yoga on physical health. From its impact on diverse health conditions such as HIV/AIDS, cancer, hypertension, and chronic obstructive pulmonary disease (COPD), to its relevance during the global COVID-19 pandemic, yoga emerges as a versatile and effective holistic therapy. These studies showcase how yoga contributes to physical well-being by improving cardiovascular fitness, respiratory health, and immune function. Additionally, the literature underscores the positive influence of yoga on mental health, including stress reduction, anxiety management, and cognitive enhancement. The synthesis of research findings emphasizes the adaptability of yoga across various health contexts, reinforcing its status as a valuable and accessible tool for promoting overall well-being. As yoga continues to bridge ancient wisdom with contemporary health science, its integration into mainstream health practices holds promise for fostering a healthier and more resilient global population.

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