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Southeast Asian Journal of Case Report and Review

Journal homepage: https://www.sajcrr.com/



Review Article

Occupational health challenges among faculty in medical colleges in India: A comprehensive review

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ARTICLE INFO

Article history: Received 30-10-2024 Accepted 04-11-2024 Available online 30-11-2024

Keywords: survey Psychological Occupational Safety

ABSTRACT

Purpose of Review: This systematic review explores the occupational health issues encountered by faculty members in medical colleges throughout India, focusing on both physical and psychological challenges. Faculty in these settings face distinct stressors stemming from the rigorous demands of academic and clinical responsibilities.

Key Findings: The review identifies several primary challenges, including work-related musculoskeletal disorders, exposure to infectious diseases, mental health issues, elevated stress levels, burnout, and the weight of administrative burdens. These findings underscore a critical need for the development and implementation of targeted occupational health policies and supportive systems tailored specifically for medical educators.

Implications for Future Research: This review highlights the urgent requirement for further research aimed at devising effective intervention strategies that address the unique occupational health needs of faculty in academic medical institutions. Such research will be instrumental in fostering healthier work environments and enhancing the overall well-being of medical faculty, thereby ultimately improving educational outcomes in medical education.

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1. Introduction

Occupational health challenges among faculty in Indian medical colleges represent a critical and underexplored area of research, warranting significant attention due to the dual roles faculty members are expected to fulfill as educators and healthcare providers. These professionals face unique stressors as they manage both clinical responsibilities and academic duties, often under considerable time constraints and high performance expectations. The complex interplay between these roles contributes to increased physical strain and mental health issues, with evidence pointing to burnout as a common outcome. According to Shrivastava and Shukla (2017)¹, faculty members in Indian higher education

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institutions encounter a range of occupational stress factors, including excessive workloads, lack of institutional support, and inadequate physical resources, which compound the inherent challenges of their roles.

Further research, such as that by Shen and Slater (2021),² underscores the critical impact of occupational stress on health and well-being among academic staff. The study highlights the limitations of existing coping mechanisms and institutional support systems, suggesting that without adequate structures in place, faculty members are left vulnerable to the effects of prolonged stress. Rana and Soodan (2019)³ also report that occupational and personal stress factors are closely linked to job dissatisfaction and burnout among college educators in India, reflecting a broader trend within higher education settings that adversely affects health outcomes. Given

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the demanding nature of medical education and the lack of sufficient occupational health support in many Indian medical colleges, it is essential to address these issues with targeted strategies. This review aims to synthesize current findings on occupational health challenges specific to faculty in medical institutions in India, highlight the gaps in existing research, and propose potential areas for future investigation to improve faculty well-being and institutional support structures.

2. Materials and Methods

To understand the landscape of occupational health challenges faced by medical faculty in India, a systematic review was conducted utilizing several electronic databases, including PubMed, Google Scholar, and the Cochrane Library. This review focused on studies published between 2018 and 2023 to ensure that the findings reflect the most current issues and trends within this field.

A comprehensive search strategy was employed, incorporating a variety of keywords such as "occupational health," "medical faculty," and "India." These keywords were strategically chosen to capture a broad spectrum of relevant literature that addresses both the challenges and the support mechanisms related to occupational health in medical academia.

The inclusion criteria allowed for both quantitative and qualitative studies, ensuring a holistic understanding of the topic. Quantitative studies provided measurable data and insights into the prevalence of various health issues, while qualitative studies offered a deeper exploration of the experiences and perceptions of faculty members regarding their work environment and health challenges. This dual approach aims to provide a comprehensive overview of key themes, ultimately contributing valuable knowledge to inform policies and practices aimed at improving the occupational health of medical faculty in India. By synthesizing findings from diverse studies, this review aspires to highlight critical areas for intervention and future research.

3. Occupational Health Standards and Work Environment in Indian Medical Colleges

Indian medical colleges often lack standardized occupational health protocols, leaving faculty exposed to various physical and psychological stressors. Studies highlight that crowded facilities, limited ergonomic support, and inadequate access to health resources compromise faculty health. Although the Occupational Safety, Health and Working Conditions Code, 2020, aims to improve workplace conditions, its implementation is limited in academic institutions, particularly in the healthcare sector (National Law School of India, 2020).

4. Physical Health Challenges

Medical faculty frequently experience musculoskeletal issues due to prolonged hours of standing, lecturing, and performing repetitive tasks in laboratories. Recent research indicates that over 60% of faculty members in Indian medical colleges report symptoms of back pain, neck pain, and joint discomfort due to poorly designed workspaces (Sharma et al., 2021).⁵ Such disorders not only reduce productivity but also increase absenteeism.

Faculty members working in clinical and laboratory settings face frequent exposure to infectious agents, putting them at risk of occupational illnesses. A 2022 survey on faculty in Indian medical colleges showed that approximately 35% of respondents had experienced at least one workplace-acquired infection during their careers (Kumar et al., 2022)⁶. With limited infection control protocols and safety training, faculty are often inadequately protected from biological hazards.

The lack of ergonomically designed furniture and workspace accommodations, combined with crowded lecture halls, contributes significantly to faculty discomfort. Several studies have highlighted that medical faculty often work in spaces designed without ergonomic principles, leading to a higher incidence of physical strain and fatigue (Chakraborty et al., 2023)⁷.

5. Psychological and Emotional Health Challenges

The demanding nature of medical education, combined with administrative and academic responsibilities, leads to high levels of stress and burnout among faculty. Studies report that up to 70% of faculty members in Indian medical colleges experience moderate to high levels of occupational stress (Sahni et al., 2021). Contributing factors include pressure to publish, clinical duties, and increased student expectations.

Mental health remains a stigmatized topic within the medical community, often preventing faculty from seeking support. Many Indian medical institutions lack structured mental health support systems, such as counseling services and stress management programs, to help faculty address work-related mental health challenges (Joshi & Patil, 2022). This gap exacerbates psychological distress, with many faculty members experiencing anxiety and depression.

6. Impact of Work-Life Balance on Health

Medical faculty in India face difficulties balancing personal and professional responsibilities. Studies show that female faculty, in particular, are disproportionately affected due to additional domestic roles, creating a need for institutional policies that support work-life balance (Rao et al., 2020). ¹⁰

Medical educators frequently work beyond typical hours to meet the demands of clinical duties, administrative tasks, and student evaluations. According to a 2023 survey, 40% of faculty members reported working more than 60 hours per week, significantly impacting their mental and physical well-being (Deshpande et al., 2023). 11

7. Organizational and Bureaucratic Stress

Faculty members often report that administrative duties, including accreditation processes, curriculum management, and regulatory compliance, take time away from teaching and research. This administrative burden adds to stress and decreases job satisfaction, as noted in multiple studies on the academic work environment (Singh et al., 2021). 12

Bureaucratic processes in medical colleges are often time-consuming and slow, creating additional stress. Faculty members report frustration with delayed approvals and lack of administrative support, which impacts their ability to efficiently carry out their duties. This has been widely documented as a contributor to workplace dissatisfaction (Banerjee & Roy, 2022). ¹³

8. Current Interventions and Gaps in Policy

While some medical colleges have introduced wellness initiatives, these remain limited in scope and accessibility. Programs offering exercise facilities, mental health support, and stress management are essential but are currently lacking in many Indian medical colleges. Studies on effective occupational health interventions in other countries could offer valuable insights for Indian institutions (Patel et al., 2023). 14

A lack of tailored occupational health policies for academia in India remains a significant barrier. While the Occupational Safety, Health and Working Conditions Code provides a framework, it does not adequately address the unique challenges of academic institutions. Integrating mental health services, ergonomic design, and administrative support systems is necessary to foster a healthier work environment (WHO, 2022). ¹⁵

9. Conclusion

Faculty members in medical colleges across India face significant occupational health challenges arising from a combination of physical, psychological, and organizational stressors. The demanding nature of their roles, encompassing both rigorous academic responsibilities and clinical duties, exacerbates these challenges and negatively impacts their overall well-being.

To effectively address these issues, a multi-faceted approach is essential. This should include comprehensive policy reforms aimed at establishing clear guidelines for occupational health and safety within medical institutions, as well as robust support systems that prioritize faculty well-being. Access to mental health resources, ergonomic workplace designs, and manageable administrative loads

should be emphasized. Additionally, a commitment to ongoing research and the implementation of evidence-based interventions is critical.

10. Recommendations for Future Research

There is a lack of robust data on the health impacts of occupational hazards specific to medical faculty. Future studies should focus on areas such as the long-term impact of ergonomic issues, mental health interventions, and administrative stress in academic environments.

Research collaborations between public health institutions and medical colleges can enhance understanding of occupational health needs. Additionally, studies examining the effectiveness of wellness programs and mental health support systems in similar settings abroad may offer strategies for implementation in India.

11. Source of Funding

None.

12. Conflict of Interest

None.

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Cite this article: Christian D. Occupational health challenges among faculty in medical colleges in India: A comprehensive review. *Southeast Asian J Case Rep Rev* 2024;11(4):94-97.