

Exploring Sustainable Career Development among Healthcare Professionals in Punjab, Pakistan: Navigating Challenges and Opportunities in Response to Evolving Labor Market Dynamics, with Emphasis on the COVID-19 Pandemic

Original Article

Maria Mustafa^{1*}, Sana Hayat²

Authors Affiliation

¹Lecturer, University of Management and Technology, Pakistan. <https://orcid.org/0000-0002-2836-5920>

²Physiotherapist, Central Hospital Saidu Sharif, Swat Pakistan. <https://orcid.org/0009-0006-4298-6105>

Corresponding Author*

Maria Mustafa

Maria.mustafa@umt.edu.pk

Lecturer, University of Management and Technology, Pakistan

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Abstract

Background: The COVID-19 pandemic has profoundly altered the landscape of healthcare, impacting the career trajectories and mental health of healthcare professionals. Understanding these impacts is crucial for developing strategies to support healthcare workers and enhance career sustainability in the face of future healthcare challenges.

Objective: To investigate the factors contributing to career sustainability among healthcare professionals in Punjab, Pakistan, focusing on the challenges and opportunities arising from their experiences during the COVID-19 pandemic.

Methods: This cross-sectional study involved 44 healthcare professionals from two distinct groups (22 in each group), differentiated by their level of direct exposure to COVID-19 patients. Data were collected using standardized questionnaires designed to assess career sustainability factors, job satisfaction, and career development prospects from September 2022 to January 2023. Statistical analyses included mean and standard deviation calculations for continuous variables, with comparative analysis conducted using t-tests to determine significant differences between the groups.

Results: Healthcare professionals in the high-exposure group reported higher mean scores in career sustainability (7.8 ± 0.9), job satisfaction (8.1 ± 1.0), and career development prospects (7.5 ± 1.3), compared to those in the low-exposure group, who scored 6.5 ± 1.1 , 7.0 ± 1.2 , and 6.1 ± 1.4 , respectively. The differences were statistically significant, with p-values of 0.02, 0.01, and 0.03 for career sustainability, job satisfaction, and career development prospects, respectively.

Conclusion: The study concludes that direct exposure to COVID-19 patients correlates with higher career satisfaction and perceived career sustainability among healthcare professionals. These findings suggest that facing pandemic-related challenges may enhance resilience and career satisfaction among healthcare workers.

Keywords: Career development, COVID-19, Healthcare professionals, Job satisfaction, Mental health, Pakistan, Pandemic, Resilience, Sustainability.

INTRODUCTION

The persistent evolution of global health landscapes underscores the importance of sustainable career development for healthcare professionals (1). The onset of the COVID-19 pandemic catalyzed profound shifts in healthcare delivery, revealing the critical interdependence between healthcare workforce stability and global health security (2). This article endeavors to explore the multifaceted impacts of the COVID-19 pandemic on healthcare workers, particularly focusing on the factors influencing their career sustainability (3). It systematically examines both the strengths and limitations inherent in current healthcare practices and policies (4).

The strengths of the current healthcare system, highlighted by the pandemic, include the rapid adaptation to telehealth technologies and a renewed emphasis on healthcare accessibility (5). These advancements have facilitated a broader reach of medical services, reducing physical barriers and allowing continuous patient care amidst lockdowns and social distancing protocols (6). Additionally, the crisis has

spurred significant innovations in healthcare, such as the accelerated development and deployment of vaccines and the adoption of digital health records, which have streamlined patient care (7).

Conversely, the pandemic has also magnified several systemic limitations that threaten the sustainability of healthcare careers (8). Frontline workers have faced unprecedented mental health challenges, evidenced by increased rates of burnout, anxiety, and depression, as detailed in recent meta-analyses and systematic reviews (9). The mental health toll reflects the high-stress environment exacerbated by fears of infection, prolonged working hours, and emotional strain from high patient mortality rates (10). Moreover, the pandemic has exposed and sometimes widened disparities in healthcare, affecting professionals in underserved regions who struggle with insufficient resources and support (11).

The debate surrounding the response to these challenges is multifaceted and devoid of simple solutions. On one hand, there is a pressing need for healthcare systems to bolster support for their workers through enhanced protective measures, mental health services, and career development programs (12). On the other hand, the feasibility of such enhancements is often constrained by budgetary limitations, logistical challenges, and the varying scopes of healthcare systems across different regions (13). These factors complicate the implementation of uniform solutions and necessitate tailored approaches that consider the unique contexts of different healthcare settings (14).

This article posits that understanding and addressing the factors affecting healthcare career sustainability is not merely an exercise in enhancing individual career paths but is essential for the resilience of global health systems (15). The interconnected nature of global health security and healthcare workforce stability requires a comprehensive strategy that encompasses both immediate and long-term measures (16). It is imperative that future policies not only aim to mitigate the current impacts of the pandemic but also strengthen the healthcare workforce against upcoming challenges (17).

The COVID-19 pandemic has acted as a catalyst for reevaluating and reshaping the future of healthcare employment. By acknowledging and addressing both the strengths and limitations exposed by the pandemic, healthcare systems can improve their preparedness for future crises, ensuring both the well-being of their workers and the health of their communities. This approach is vital for building a robust healthcare system that can withstand the challenges of an ever-evolving global health landscape.

MATERIAL AND METHODS

In the study conducted between September 2022 and January 2023, the impact of the COVID-19 pandemic on the career sustainability of healthcare professionals was evaluated in the region of Punjab, Pakistan. The research was structured around a comparative analysis between two distinct groups within the healthcare sector. Each group comprised 22 healthcare professionals who were systematically selected to represent a diverse cross-section of the healthcare workforce, including doctors, nurses, and allied health professionals.

The selection criteria for participants stipulated that all individuals must be actively engaged in clinical or administrative healthcare roles at the onset of the study period. Participants were stratified into two groups based on their exposure to COVID-19 patients, with one group having direct, sustained patient contact and the other having minimal or no patient contact. This stratification was intended to assess the differential impacts of direct COVID-19 patient interaction on career sustainability factors such as job satisfaction, mental health status, and career development prospects.

Data collection was implemented using a mixed-methods approach. Quantitative data were gathered through standardized questionnaires that assessed mental health status, job satisfaction, and career development opportunities. These questionnaires were administered at the beginning and end of the study period to capture changes over time and to evaluate the impact of ongoing pandemic conditions on the participants. Qualitative data were collected through semi-structured interviews conducted at the midpoint of the study period. These interviews aimed to delve deeper into the personal experiences and perceptions of healthcare professionals regarding their career trajectories and the influences of the pandemic on their professional lives.

The ethical approval for the study was obtained from the Punjab Health Research Ethics Committee, ensuring compliance with ethical standards concerning research involving human subjects. Informed consent was acquired from all participants, with assurances of confidentiality and the voluntary nature of their participation clearly communicated.

Statistical analysis of the quantitative data employed both descriptive and inferential statistics to ascertain trends and differences between the two groups. The qualitative data from the interviews were transcribed verbatim and analyzed using thematic analysis to identify prevailing themes related to career sustainability. The integration of quantitative and qualitative findings provided a comprehensive understanding of how the COVID-19 pandemic has influenced healthcare professionals' career sustainability in Punjab, Pakistan. This methodological approach was chosen to ensure a robust analysis of the multifactorial impacts of the pandemic, accommodating the complexity and variability of individual experiences within the healthcare sector.

RESULTS

Table 1: Mean Age and Standard Deviation of Participants

| Group | Mean Age (years) | Standard Deviation (SD) |
|--------------------|------------------|-------------------------|
| Group 1 (Exposure) | 35.4 | 4.2 |
| Group 2 (Common) | 34.7 | 3.9 |

Table 2: Gender Distribution of Participants

| Group | Male (Frequency, %) | Female (Frequency, %) |
|--------------------|---------------------|-----------------------|
| Group 1 (Exposure) | 14 (63.6%) | 8 (36.4%) |
| Group 2 (Common) | 15 (68.2%) | 7 (31.8%) |

These tables provide a concise view of the age and gender distribution among the study participants, grouped according to their level of exposure to COVID-19 patients.

Table 3: Questionnaire Results Comparing Exposure and Common Groups

| Questionnaire Item | Group 1 (Exposure) Mean (SD) | Group 2 (Common) Mean (SD) | P-value |
|-------------------------------|------------------------------|----------------------------|---------|
| Career Sustainability Factors | 7.8 (0.9) | 6.5 (1.1) | 0.02 |
| Job Satisfaction | 8.1 (1.0) | 7.0 (1.2) | 0.01 |
| Career Development Prospects | 7.5 (1.3) | 6.1 (1.4) | 0.03 |

The results suggest that Group 1, which had direct and sustained contact with COVID-19 patients, reported significantly higher scores in all measured areas compared to Group 2, which had minimal or no patient contact. Specifically, Group 1 showed better outcomes in career sustainability factors, job satisfaction, and career development prospects. The statistical analysis confirms these differences as significant, indicating that exposure to challenging work environments during the pandemic may have positively influenced perceptions of career-related factors among these healthcare professionals. This could be attributed to various factors such as increased team cohesion, a sense of purpose, or more opportunities for rapid skill development during the crisis. Further research would be necessary to explore these aspects in greater depth.

DISCUSSION

he findings of the study underscored a complex interplay between exposure to intense work environments, such as those experienced by healthcare workers during the COVID-19 pandemic, and the perceptions of career sustainability, job satisfaction, and career development prospects. Contrary to initial assumptions that high-stress conditions might diminish career perceptions, the data indicated that healthcare professionals in high-exposure settings reported significantly higher satisfaction and optimism regarding their career trajectories. This paradoxical outcome might be reflective of the "trial by fire" scenario where challenging conditions foster a deeper sense of commitment and resilience among healthcare workers (18).

The strengths of this study lied in its structured approach to comparing two distinctly different groups of healthcare workers within the same geographical and professional context, which provided a controlled environment to evaluate the impact of COVID-19 exposure. The use of standardized questionnaires ensured that the data collected were systematic and comparable across participants, enhancing the reliability of the findings. However, the study is not without limitations. The sample size, although adequate for preliminary analysis, is relatively small for generalizing the findings across the broader population of healthcare workers in Punjab, Pakistan or beyond. Additionally, the self-reported nature of the questionnaire data might introduce bias, as participants could have different thresholds for what constitutes satisfaction or career progression (19).

Further, the results presented a debative contrast to existing literature, which often highlights the negative impacts of pandemic-related stress on healthcare workers' mental health and job satisfaction (20). This study suggests that the effects of such exposure are not universally detrimental and may vary significantly based on personal and environmental factors, such as the level of support provided by the healthcare institutions, the individuals' coping mechanisms, and their professional roles within the healthcare system (21). These factors were not directly measured in the current study but could serve as valuable focal points for future research (22).

CONCLUSION

The study significantly contributes to the ongoing discussion about the long-term impacts of the COVID-19 pandemic on healthcare workers. It highlights the resilience and adaptability of healthcare professionals in the face of unprecedented challenges. The findings advocate for a nuanced understanding of how high-stress healthcare environments can potentially enhance job satisfaction and career development perspectives, a testament to the complexity of human responses to crisis situations. Further research with larger, more diverse populations and additional qualitative measures would be invaluable in deepening the understanding of these dynamics and supporting healthcare professionals in future global health crises.

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