



MSC. DISSERTATION: IMPACT OF REMOTE WORK ON MENTAL HEALTH

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MSc. Literature Review (Impact of Remote Work on Mental Health)

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Introduction

The emerging trend for remote working has reshaped workspaces and has brought benefits, along with problems. One of the central concerns for remote workers is the psychological impact, with particular reference to feelings of isolation and decreased work-life balance. The abrupt transition towards remote working in the context of the COVID-19 pandemic has drawn a great deal of interest among scholars; yet there has been little research on investigating how these factors unfold to influence mental health under long-term remote working conditions.

Research Questions

- What is the relationship between work location (remote, hybrid, onsite) and mental health outcomes such as stress and social isolation?
- How does access to mental health resources impact productivity and satisfaction levels in remote workers?
- Are certain job roles or industries more susceptible to mental health challenges in remote settings?
- Which factors (e.g., hours worked, work-life balance, physical activity) most strongly correlate with stress levels in remote workers?

Objectives

This research aims to investigate how different aspects of remote work, such as work-life balance, hours worked, and virtual interactions, impact mental health outcomes, including stress levels, mental health conditions (like depression and anxiety), and social isolation. Understanding these relationships can guide employers and policymakers in creating healthier work environments.

- Identify key factors influencing mental health among remote workers.
- Assess the role of company support and access to mental health resources on employee productivity.
- Investigate demographic and job-specific differences in mental health responses to remote work.

Literature Review

Introduction

This expanded literature review delves deeper into existing research to contextualize the benefits, challenges, and underexplored areas of remote work's impact on mental health.

The rise of remote work, particularly in the post-pandemic era has transformed the modern workforce, bringing both opportunities and challenges. While it provides flexibility and eliminates commuting time, there are also other psychological effects related to isolation, burnout, and work-life balance that remote work has been linked to, making understanding the same an essentiality.

This review synthesizes current findings, identifies gaps in the literature, and explores theoretical frameworks relevant to the psychological effects, contributing factors, and potential interventions in understanding the interplay between remote work and mental health.

Psychological Effects of Remote Work

Isolation and Loneliness

Multiple studies highlight the increased risk of social isolation among remote working colleagues and the workplace. According to (Becker, 2022), employees working remotely report feeling disconnected from colleagues, leading to loneliness and reduced job satisfaction and emotional exhaustion, minor counterproductive work behaviours, among other negative effects. Remote employees often miss the casual social interactions found in office environments, which contribute to a sense of belonging and professional advancement opportunities.

Burnout and Work-Life Balance

Burnout is the riskiest factor for remote workers. The blurring of boundaries between professional and personal life increases stress levels, with workers often struggling to "switch off" after working hours. Without clear separation between workspaces and personal spaces, many remote workers report working longer hours than they would in a traditional office setting. For example, a systematic review by (Shaholli, Manai, Iantorno, Di Giampaolo, & Nieto, 2024) showed that the bridging of personal and working life because of teleworking can result in increased stress and burnout.

Productivity and Job Satisfaction

While some studies suggest that working from home can enrich productivity, others stress the challenges regarding motivation and keeping workers engaged. The level of managerial support is an important factor in how the variation in the impact on job

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satisfaction and mental well-being is moderated. A systematic review by (Guidarini, 2023) noted that telecommuting is associated with higher levels of job satisfaction, but the relationship is moderated by factors such as autonomy and support.

Contributing Factors to Mental Health Challenges in Remote Work

Digital Communication Overload

Continuous exposure to digital communication tools can result in cognitive overload and stress. The "always-on" culture associated with remote work is adding to the rising expectations of immediate responses, making it hard for employees to detach themselves from work-related activities. According to a study by (Hall, 2023), excessive use of communication technology is related to increased stress and reduced well-being.

Home Environment and Workspace Design

The home environment is a determinant of working effectiveness from home. Individuals who have home offices tend to have less stress than others whose workspace is shared or setup in non-ergonomic ways. Poor workstations lead to physical strains and mental exhaustion. A study by (Felstead & Reuschke, 2020) indicated that the quality of the home workspace is one of the strongest predictors of job satisfaction for remote workers.

Managerial and Organizational Support

Management, therefore, plays a vital role in mitigating mental health challenges. Conversely, frequent virtual check-ins, mental health resources, and clear performance expectations within an organization lead to reduced stress among remote workers. The supportive leadership and policies, such as flexible scheduling and mental health days, will go a long way in contributing to the overall well-being of individuals. A cross-referenced study by (Philips, 2020) established that organizational support is integral in mitigating the negative impacts of telework on mental health.

Potential Interventions and Solutions

Technology-Based Wellness Solutions

Recent studies have shown that digital mental health platforms support remote workers in maintaining good mental health. The integration of technology into corporate wellness programs has so far helped reduce feelings of loneliness. A 2025 study by (Carraro Elisabetta, 2025) indicated that ***“social networks play a crucial role in promoting mental health, suggesting that strong and meaningful relationships can serve as a buffer against anxiety and depression”*** which would include remote delivery of psychotherapy, including telephone, video, and online modalities, that is found to be just as effective as face-to-face therapy in treating anxiety and

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depression. These methods offer accessibility and convenience, making them suitable alternatives for those unable to access in-person care.

Work-Life Balance Strategies

Encouragement of structured work schedules and "right to disconnect" policies helps alleviate burnout. Countries like France and Ireland have created legal requirements ensuring that workers are not compelled to participate in work communications during periods outside of work. Therefore, such initiatives will go a long way toward assuring better mental health outcomes for remote employees. A report by (Carvalho VS, 2021) suggests that by integrating an overall inter-role valuation of congruity between work and family domains contributes to reducing burnout and increasing flourishing.

Hybrid Work Models

Various studies also praise hybrid models of work as a balance between flexibility and face-to-face interactions. Employees who split their time between working from home and in the office tend to be more satisfied with their jobs and have less stress compared to those who work fully at home. Hybrid models allow them to collaborate with others in person and maintain some of the autonomy of working remotely. A study by (Ashish Sarangi MD, 2022) establish that telecommuting is related positively to job satisfaction, especially when combined with periodic work at the office.

References

- Akbar K. Waljee, M. M. (2013, December 26). A Primer on Predictive Models. *Clinical and Translational Gastroenterology*, 4. Retrieved November 2024, from [pmc.ncbi.nlm.nih.gov: https://pubmed.ncbi.nlm.nih.gov/articles/PMC3912317/#:~:text=Prediction%20research%2C%20which%20aims%20to%20predict%20future%20events,an%20illness%20or%20the%20risk%20of%20developing%20an](https://pubmed.ncbi.nlm.nih.gov/articles/PMC3912317/#:~:text=Prediction%20research%2C%20which%20aims%20to%20predict%20future%20events,an%20illness%20or%20the%20risk%20of%20developing%20an)
- Ashish Sarangi MD, D. K. (2022, September 9). *The mental health impact of work from home: A literature review*. doi:10.12746/swrccc.v10i45.1085
- Becker, W. B. (2022). Surviving remotely: How job control and loneliness during a forced shift to remote work impacted employee work behaviors and well-being. *Human Resource Management*. Retrieved from <https://doi.org/10.1002/hrm.22102>
- Carraro Elisabetta, R. P. (2025, February 06). Remote workers' life quality and stress during COVID-19: a systematic review. *European Journal of Public Health*. doi:<https://doi.org/10.1093/eurpub/ckae167>
- Carvalho VS, S. A. (2021, June 30). Please, Do Not Interrupt Me: Work–Family Balance and Segmentation Behavior as Mediators of Boundary Violations and Teleworkers' Burnout and Flourishing. (M. S. Pérez, & E. Cifre, Eds.) *Sustainability*, 5. doi:<https://doi.org/10.3390/su13137339>
- Charalampous, M. G. (2018, November 01). Systematically reviewing remote e-workers' well-being at work: a multidimensional approach. *European Journal of Work and Organizational Psychology*, 51 - 73. Retrieved from <https://doi.org/10.1080/1359432X.2018.1541886>
- Efimov, I., Rohwer, E., Harth, V., & Mache, S. (2022). *Virtual leadership in relation to employees' mental health, job satisfaction and perceptions of isolation: A scoping review*. Sec. Health Psychology. Retrieved October 12, 2024, from <https://www.frontiersin.org/journals/psychology/articles/10.3389/fpsyg.2022.960955/full>
- Felstead, A., & Reuschke, D. (2020). HOMEWORKING IN THE UK: BEFORE AND DURING THE 2020. *WISERD Report*, 17. Retrieved January 2025, from https://eprints.soton.ac.uk/444076/1/Homeworking_in_the_UK_Report_Final_3_3.pdf
- Ferrara, B., Pansini, M., Vincenzi, C. D., Buonomo, I., & Benevene, P. (2022, September 28). Investigating the Role of Remote Working on Employees' Performance and Well-Being: An Evidence-Based Systematic Review. *International Journal of Environmental Research and Public Health*, 12.

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- Guidarini, C. H. (2023, December). A Systematic Review of How Remote Work Affects Workplace Stress and Mental Health. In C. H. Guidarini, *Human-Automation Interaction* (Vol. 12, pp. 79-96). Springer, Cham. doi:https://doi.org/10.1007/978-3-031-10788-7_5
- Hall, C. D. (2023). The relationship between homeworking during COVID-19 and both, mental health, and productivity: a systematic review. *BMC Psychology*, 2, 8. doi:<https://doi.org/10.1186/s40359-023-01221-3>
- Makowski, P. (. (2023, July 18). Remote Leadership and Work Engagement: A Critical Review and Future Directions. . *European Journal of Business and Management Research.*, 7. Retrieved November 2024, from <https://www.ejbmr.org/index.php/ejbmr/article/view/1835>
- Nia Sarinastiti, A. B. (2022). RELATIONS OF REMOTE WORKING TO MENTAL HEALTH. . *ASPIRATION Journal*. Retrieved from <https://doi.org/10.56353/aspiration.v2i2.40>.
- Pandey, D. S. (2020, April 17). Principles of Correlation and Regression Analysis. *Journal of the Principles of Correlation and Regression Analysis*, 5. Retrieved November 2024, from www.j-pcs.org
- Philips, S. (2020). Working through the pandemic: Accelerating the transition to remote working. *Business Information Review. SAGE Journals*, 129–134. doi:<https://doi.org/10.1177/0266382120953087>
- Shaholli, D., Manai, M., Iantorno, F., Di Giampaolo, L., & Nieto. (2024). Teleworking and Mental Well-Being: A Systematic Review on Health Effects and Preventive Measures. Retrieved January 2025, from <https://doi.org/10.3390/su16188278>
- Sharma, R. (2024, May 14). *What is Clustering in Machine Learning and Different Types of Clustering Methods*. Retrieved November 2024, from Upgrad.com: <https://www.upgrad.com/blog/clustering-and-types-of-clustering-methods/>
- Yokoi, K., Shimura, A., Ishibashi, Y., Akatsuka, Y., & Inoue, T. (2021, September 30). Remote Work Decreases Psychological and Physical Stress Responses, but Full-Remote Work Increases Presenteeism. (U. o. Merce Mach, Ed.) Retrieved October 2024, from *Frontiers in Psychology*: <https://www.frontiersin.org/journals/psychology/articles/10.3389/fpsyg.2021.730969/full>