



# Mapping Intervention Strategies to Addressing Mental Health Challenges Among Healthcare Professionals

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# OUTLINE

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# INTRODUCTION



- Healthcare workers (HCWs) have higher rates of burnout, depression, and anxiety, with a depression prevalence of 22,8%. (1) This is significantly higher than the global prevalence of 5% among the general population. (2)
- Poor mental health among HCWs is associated with decreased quality of care and increased medical errors. (3) Healthcare systems need to promote the mental health and well-being of HCWs using evidence-based interventions.
- This scoping review aimed to identify strategies and interventions from existing literature that promote mental health among HCWs. Additionally, it sought to use this evidence to develop a 'mental health support journey' for HCWs that outlines the steps implemented in successful mental health interventions.

# METHODS



- **Search Strategy**

- A scoping review of published literature on mental health interventions for healthcare workers was conducted using Google Scholar, MEDLINE Ultimate, CINAHL Ultimate, and Dentistry & Oral Sciences Source databases for peer-reviewed articles published between January 2020 and June 2023. Peer-reviewed articles cited in other selected studies were also included.
- **Search Words and Boolean Terms:** mental health OR mental illness AND intervention OR strategies OR preventative interventions AND healthcare workers OR clinical staff OR clinicians OR healthcare professionals.

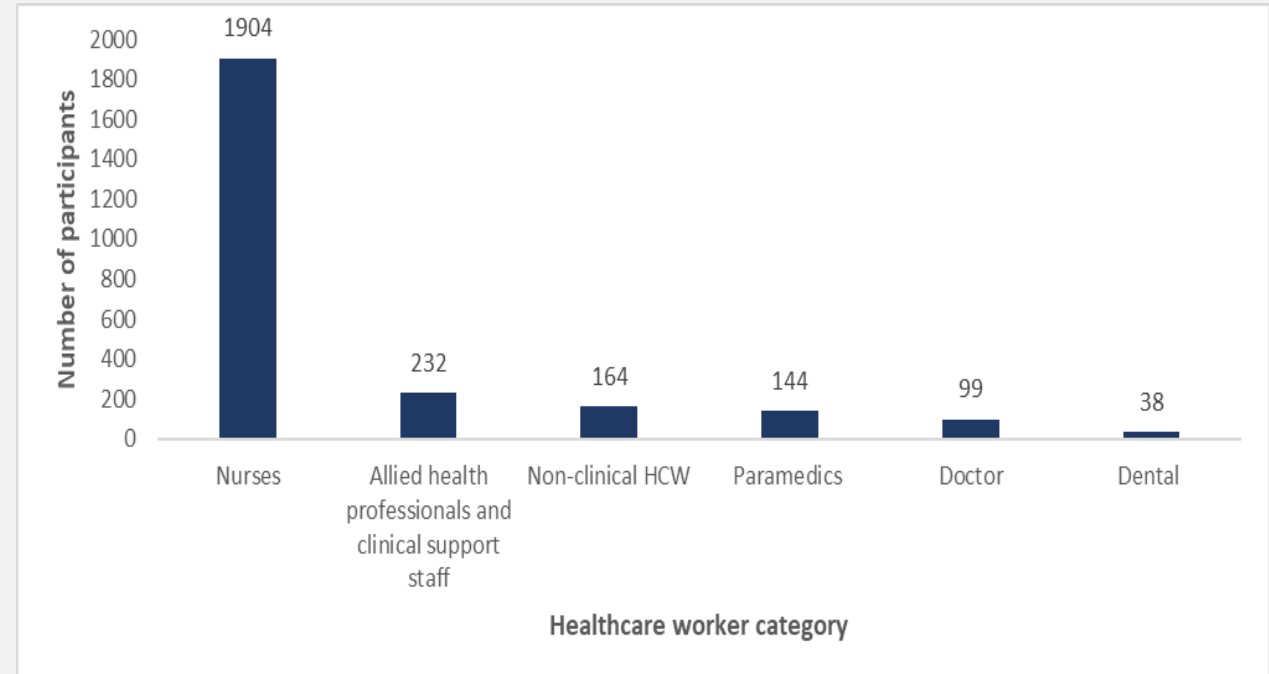
# METHODS



- **Study Selection:** Two reviewers independently screened the titles and abstracts. A total of 680 records were screened and 47 full-text articles were reviewed using the eligibility criteria.
- **Data Extraction & Management:** A standardised data extraction tool was developed collaboratively by all reviewers. The tool was piloted and used to extract key data.
- **Data Analysis:**
  - A modified Donabedian framework was used to analyse the findings of the study according to structure (resources), processes (interventions), and outcomes.
  - The implementation steps described in the studies were also assessed and informed the development of a “mental health support journey” map.

# RESULTS

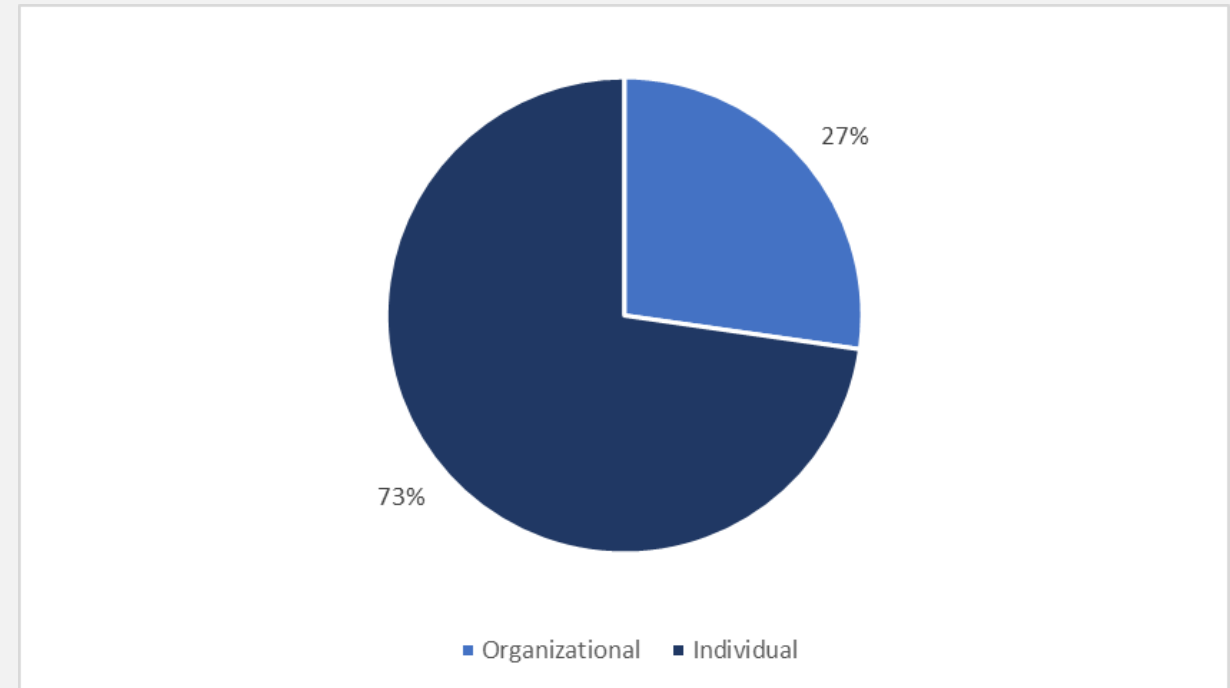
- Eleven peer-reviewed articles met the inclusion criteria. All the articles were primary studies with sample sizes ranging from 17 to 819.
- There were no studies identified on the African continent that met the inclusion criteria.
- Nurses accounted for 73.8% (n = 1904) of the total study participants while doctors only accounted for 3.8% (n = 99) (Figure 1).



**FIGURE 1:** Cumulative number of healthcare worker participants in all studies categorized by profession

# RESULTS

- The majority of the interventions were individual-level interventions (73.0%) compared to organisational-level interventions (27.0%). (Figure 2)
- Across all the studies, 12 hospitals were used, 9 emergency sites, 1 ambulance, and 1 online platform.



**FIGURE 2:** Percentage of organisational-level and individual-level interventions proposed by the studies.

# RESULTS: DONABEDIAN FRAMEWORK



## STRUCTURE

- Physical Infrastructure (e.g. building, private room)
- Equipment (e.g. smart device, yoga mat)
- Educational Resources (physical or online)
- Human Resources (e.g. psychologist, mind facilitator, psychiatrist)
- Internet Access (54.5%)



## PROCESS

- Psychoeducation and education
- Psychotherapy
- Physical activity
- Resilience interventions
- Well-being centres
- Video intervention
- “Mental Health Support Journey Map”



## OUTCOMES

- Mental wellbeing (n = 6)
- Anxiety (n = 5)
- Insomnia/Sleep quality (n = 5)
- Depression/depressive symptoms (n = 3)
- Psychological distress (n = 3)



# RESULTS



OUTCOME	OUTCOME MEASUREMENT TOOLS
<b>Mental wellbeing</b>	Warwick Edinburgh Mental Wellbeing Scale (WEMWBS)*; Short Form Health Survey (SF-12); Qualitative interviews; Campbell Index of Well-being; Single-item Global Measures
<b>Anxiety</b>	Generalized Anxiety Disorder Questionnaire (GAD-7) *; State-Trait Anxiety Inventory (STAI); K10 Questionnaire; DASS-21 (Depression Anxiety and Stress Scale); Beck Anxiety Inventory (BAI)
<b>Insomnia/Sleep quality</b>	Insomnia Severity Index (ISI); Qualitative Interviews; Researcher designed survey questions on sleep disturbance; Pittsburgh sleep quality index (PSQI)*
<b>Depression/depressive symptoms</b>	Patient Health Questionnaire (PHQ-9); K10 Questionnaire; DASS-21 (Depression Anxiety and Stress Scale)
<b>Psychological distress</b>	Kessler Psychological Distress Scale (K6); Symptom Checklist 90 (SCL-90); Self-reported assessments

# RESULTS: HEALTHCARE WORKER “MENTAL HEALTH SUPPORT JOURNEY” MAP



**FIGURE 2:** Linear Mental Health Support Journey Map for Healthcare Workers’ Mental Health Interventions.



**FIGURE 3:** Non-linear Mental Health Support Journey Map for Healthcare Workers’ Mental Health Interventions.

# DISCUSSION



- This scoping review developed a “mental health support journey” map for HCWs for the successful implementation of mental health interventions.
- Studies focussing on education consistently reported positive outcomes, including improved well-being and reduced anxiety and depression. This is in keeping with studies that report the positive outcomes of health education.
- Most interventions required accessible resources, and over half needed internet access. Therefore, digital technology can play a significant role in ensuring widespread access.

# DISCUSSION



- There was no standardised tool used to measure outcomes highlighting the complexities of mental health and the multifaceted nature of its assessment.
- Individual-level interventions vs organisational-level interventions.
- Studies reporting on interventions in LMICs, particularly within the African continent are scarce. This gap underscores the need for more inclusive and contextually relevant interventions to ensure all HCWs, especially those in underrepresented settings, have access to effective mental health support.

# CONCLUSION



- Mental health interventions for healthcare workers improve well-being, anxiety, sleep quality, and depression, among other positive outcomes. These interventions require varied resources and must be adapted to different settings for effective implementation.
- Healthcare workers can benefit from mental health interventions through linear or nonlinear mental health support journey maps. These journey maps guide the implementation of mental health interventions, incorporating various strategies like psychoeducation to enhance overall success.
- The healthcare workforce is a critical component of the WHO health systems strengthening building blocks. To achieve optimal health outcomes, we must invest in their training, well-being, and mental health support, ensuring they are empowered to deliver high-quality care to all.

# LIMITATIONS



- Review period (2020 -2023): Great emphasis on mental health among healthcare workers
- Focus on peer-reviewed studies: Need for methodological transparency and rigorous peer review for evidence-based studies
- No standardised mental health outcomes or outcome measurement tools assessed: complexity of mental health requires a diverse approach for assessment

# RECOMMENDATIONS



- Ensure tailored, context-sensitive interventions
- Prioritising the development and implementation of mental health policies at an organisational level
- Research Focus
  - Assess the feasibility and practical application of the mental health support journey maps
  - Availability, accessibility and acceptability of mental health interventions in the workplace for healthcare workers
  - LMICs, PHC, specific healthcare worker groups
  - **Follow-up Study: The effects of organisational-level interventions on symptoms of depression and anxiety in medical doctors: a systematic review**

# FOLLOW UP STUDY: THE EFFECTS OF ORGANISATIONAL LEVEL INTERVENTIONS ON SYMPTOMS OF DEPRESSION AND ANXIETY IN MEDICAL DOCTORS: A SYSTEMATIC REVIEW



- **Aim:** To assess the effects of organisational level interventions on symptoms of anxiety and depression in medical doctors and evaluate the strength of evidence supporting their effectiveness.
- **Key Findings:**
  - The 16 studies identified from the inclusion criteria were mainly conducted in **hospitals**.
  - Most of the studies (14) were conducted in **high-income countries**, with 70.6% of participants being specialists.
  - Fourteen studies were rated as having **strong or moderate methodological quality**.
  - **Five intervention categories** were identified: mental health surveillance and monitoring, training and development, relational/team dynamics, flexible work/scheduling, and job/task modifications.
  - Fewer than half (seven) of the studies reported statistically significant improvements in at least one primary outcome (symptoms of depression or anxiety).



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<b>Intervention Category</b>	<b>Consistency:</b> more than 75% of studies within an intervention category had a statistically significant impact in the same direction
<b>Mental Health Surveillance and Monitoring</b>	Only one study included
<b>Training and Development</b>	No, 57.1 % consistency (4 out of 7)
<b>Relational and Team Dynamic Initiatives</b>	No, 50% (1 out of 2)
<b>Flexible Work and Scheduling Changes</b>	No, 33.3% (1 out of 3)
<b>Job and Task Modifications</b>	No, 33.3% (1 out of 3)

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# **FOLLOW UP STUDY:** THE EFFECTS OF ORGANISATIONAL LEVEL INTERVENTIONS ON SYMPTOMS OF DEPRESSION AND ANXIETY IN MEDICAL DOCTORS: A SYSTEMATIC REVIEW



- There are mixed results regarding the effects of organisational level interventions on symptoms of depression and anxiety.
- The systematic review begins the advocacy journey for evidence-based mental health interventions at an organisational level.
- This information can be used to inform policies and practices within the healthcare setting, with possible expansion into other settings.
- Highlights opportunities for further research to address mental health at work globally.

# REFERENCES



- Harvey SB, Epstein RM, Glozier N, Petrie K, Strudwick J, Gayed A, et al. Mental illness and suicide among physicians. Vol. 398, The Lancet. Elsevier B.V.; 2021. p. 920–30.
- World Health Organisation. Comprehensive mental health action plan 2013 - 2030. Geneva; 2021. Licence: CC BY-NC-SA 3.0 IGO.
- Grover S, Sahoo S, Bhalla A, Avasthi A. Psychological problems and burnout among medical professionals of a tertiary care hospital of North India: A cross-sectional study. Indian J Psychiatry. 2018 Apr 1;60(2):175–88.
- Arksey, H and O'Malley, L. Scoping studies: towards a methodological framework. International Journal of Social Research Methodology. pp. 19-32. ISSN 1364-5579
- Rezaei S, Hoseinipalangi Z, Rafiei S, Dolati Y, Hosseinifard H, Asl MT, et al. The global png health workers during the COVID-19 pandemic: A systematic review and meta-analysis. Vol. 8, Journal of Affective Disorders Reports. Elsevier B.V.; 2022.
- Tyssen R. Work and mental health in doctors: A short review of Norwegian studies. Porto Biomed J. 2019 Sep;4(5):e50.
- Paterson C, Leduc C, Maxwell M, Aust B, Amann BL, Cerga-Pashoja A, et al. Evidence for implementation of interventions to promote mental health in the workplace: a systematic scoping review protocol. Syst Rev. 2021 Dec 1;10(1).
- Njabulo Mbanda, Shakila Dada, Kirsty Bastable, Gimbler-Berglund Ingalill, Schlosser Ralf W., A scoping review of the use of visual aids in health education materials for persons with low-literacy levels, Patient Education and Counseling, 2021. Pages 998-1017,ISSN 0738-3991. DOI: <https://doi.org/10.1016/j.pec.2020.11.034>.
- World Health Organization. State of the World's Nursing 2020: Investing in Education, Jobs, and Leadership.
- Owoyemi A, Owoyemi J, Osiyemi A, Boyd A. Artificial Intelligence for Healthcare in Africa. Front Digit Health. 2020;2.
- Davenport T, Kalakota R. Digital technology The potential for artificial intelligence in healthcare. Vol. 6, Future Healthcare Journal. 2019.

# Q & A

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**THANK YOU**

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