



Methodological Considerations and Future Directions in Mental Health Multimorbidity Research: Response to Andreeva et al.

Mengqin Zhang*

SSPH

Duke Global Health Institute (DGHI), Duke University, Durham, NC, United States

Keywords: mental health multimorbidity, anxiety, insomnia, eating disorders, methodological considerations

Dear Editor,

I read with great interest the article by Andreeva et al. [1] on mental multimorbidity patterns among general-population adults, focusing on anxiety, insomnia, and eating disorders. The study's focus on mental health multimorbidity is particularly relevant, especially as there is growing recognition of the impact of mental health on public health outcomes and healthcare utilization.

The authors provide valuable insights into mental multimorbidity's prevalence and sociodemographic profiles; however, several methodological aspects merit careful consideration. Of primary concern is the study's reliance on self-reported questionnaires, particularly the SCOFF questionnaire for eating disorders. Despite SCOFF's validated screening capabilities, its inability to distinguish between different types of eating disorders poses significant interpretative challenges. This limitation becomes especially critical when considering that different eating disorders exhibit distinct relationships with anxiety and insomnia. Indeed, Levinson et al. [2] have demonstrated that specific eating disorder subtypes show varying patterns of comorbidity with anxiety disorders, highlighting the need for more nuanced diagnostic approaches.

Building on these methodological considerations, the authors' use of sex-specific cutoffs for the STAI-T raises additional questions that require further exploration. While the authors cite previous epidemiological research to support this approach, the impact of these differential thresholds on reported sex differences in anxiety prevalence warrants deeper examination. This concern is particularly relevant in light of [3] research, which reveals how measurement bias in anxiety assessments can substantially influence observed gender differences.

Another crucial aspect requiring attention is the study's cross-sectional design. Although the authors acknowledge this limitation, its implications extend beyond mere temporal constraints. The inability to establish the chronological sequence of these mental health conditions significantly impacts our understanding of their interrelationships. This point is underscored by [4] longitudinal research, which demonstrates how the temporal ordering of mental health conditions can critically affect treatment outcomes and prognosis.

Furthermore, while the authors consider socioeconomic factors through education and occupation variables, there remains an opportunity for deeper analysis. A more comprehensive examination of how socioeconomic status mediates or moderates the relationships among these mental health conditions could yield valuable insights for developing targeted public health interventions.

Looking ahead, several key directions emerge for future research. Priority should be given to longitudinal studies that can establish temporal relationships among these conditions. Additionally, enhancing the methodology through objective sleep measures, such as actigraphy, alongside selfreported insomnia symptoms would strengthen the findings considerably. The integration of

OPEN ACCESS

JJP

Edited by:

Nino Kuenzli, Swiss Tropical and Public Health Institute (Swiss TPH), Switzerland

*Correspondence

Mengqin Zhang, ⊠ mengqin.zhang@duke.edu

Received: 31 October 2024 Accepted: 20 November 2024 Published: 14 January 2025

Citation:

Zhang M (2025) Methodological Considerations and Future Directions in Mental Health Multimorbidity Research: Response to Andreeva et al. Int J Public Health 69:1608114. doi: 10.3389/ijph.2024.1608114

1

biological markers and genetic data could further illuminate the shared mechanisms underlying these conditions.

While this study makes a significant contribution to our understanding of mental health multimorbidity, addressing these methodological considerations and expanding the theoretical framework would advance the field substantially. The findings ultimately emphasize the critical need for integrated approaches to mental healthcare that acknowledge and address the interconnected nature of these conditions.

Sincerely,

Mengqin Zhang.

AUTHOR CONTRIBUTIONS

MZ conceptualized and wrote this letter to the editor in its entirety. The author critically analyzed the original research article, identified key methodological considerations, conducted the literature review to support the arguments, and drafted the manuscript. The author synthesized the existing literature with the critique of the original article, formulated

REFERENCES

- Andreeva VA, Arnault N, Chambaron S, Samieri C, Brindisi MC, Duquenne P, et al. Mental Multimorbidity Among General-Population Adults: Sexspecific Sociodemographic Profiles of Anxiety, Insomnia, and Eating Disorders. Int J Public Health (2024) 69:1607546. doi:10.3389/ijph.2024. 1607546
- Levinson CA, Zerwas S, Calebs B, Forbush K, Kordy H, Watson H, et al. The Core Symptoms of Bulimia Nervosa, Anxiety, and Depression: A Network Analysis. J Abnormal Psychol (2018) 127(1):1–13. doi:10.1037/abn0000298
- McLean CP, Asnaani A, Litz BT, Hofmann SG. Gender Differences in Anxiety Disorders: Prevalence, Course of Illness, Comorbidity, and Burden of Illness. J Psychiatr Res (2021) 45(8):1027–35. doi:10.1016/j.jpsychires.2011.03.006

recommendations for future research directions, and was responsible for the final version of the manuscript. The author has read and approved the final version of this letter to the editor.

FUNDING

The author(s) declare that no financial support was received for the research, authorship, and/or publication of this article.

CONFLICT OF INTEREST

The author declares that they do not have any conflicts of interest.

GENERATIVE AI STATEMENT

The author(s) declare that no Generative AI was used in the creation of this manuscript.

 Jacobi F, Wittchen HU, Hölting C, Höfler M, Pfister H, Müller N, et al. Prevalence, Co-morbidity, and Correlates of Mental Disorders in the General Population: Results From the German Health Interview and Examination Survey (GHS). *Psychol Med* (2020) 50(2):189–201. doi:10.1017/S0033291719000109

Copyright © 2025 Zhang. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.