



# Enhancing healthcare AI: insights from comparing ChatGPT and Bing in home blood pressure monitoring

Zahra Karbasi <sup>1</sup> · Michael Motaghi Niko<sup>2</sup> · Maryam Kazemi<sup>3</sup> · Maryam Zahmatkeshan <sup>3,4</sup>

**Keywords** Artificial intelligence · ChatGPT · Bing · Blood pressure

Received: 4 April 2024 / Accepted: 12 April 2024

© The Author(s), under exclusive licence to The Japanese Society of Hypertension 2024

Thank you for your thoughtful and constructive feedback on the manuscript entitled “Comparison of ChatGPT and Bing, in Response to the Home Blood Pressure Monitoring (HBPM) Knowledge Checklist” by Niko et al. [1]. We appreciate your interest in reading and the valuable insight you have provided.

First, we agree that the use of a standardized knowledge checklist in comparing reproducibility questions will increase the reliability of the assessment, in this study it was also tried that the questions used were standardized and were evaluated by experts. We will consider this approach in future evaluations of AI chatbots. Second, we acknowledge the importance of comparing chatbot responses with physicians’ responses, although in this study, experts’ opinions regarding chatbot responses were carefully examined. Third, we agree that trials for real-world evaluation of patient outcomes can accurately demonstrate the application of these tools. We will consider this in our future studies. We agree that it is necessary to check the lower-ranked answers by ChatGPT and improve the model. We will explore this possibility in future studies. Once again, we appreciate your comments and will consider your suggestions in future studies.

**Acknowledgements** In this section, Fasa University of Medical Sciences was thanked for its financial support.

**Author contributions** ZK, MM wrote the first draft of the manuscript. Authors ZK, MM, MK, MZ performed data collection. ZK performed an analysis and extracted the main characteristics. All authors ZK, MM, MK, MZ reviewed and provided critical feedback. All authors read and approved the final manuscript.

## Compliance with ethical standards

**Conflict of interest** The authors declare no competing interests.

**Publisher’s note** Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

## Reference

1. Niko MM, Karbasi Z, Kazemi M, Zahmatkeshan M. Comparing ChatGPT and Bing, in response to the Home Blood Pressure Monitoring (HBPM) knowledge checklist. *Hypertens Res.* 2024;47:1401–1409.

---

✉ Maryam Zahmatkeshan  
m.zahmatkeshan@fums.ac.ir

<sup>1</sup> Department of Health Information Sciences, Faculty of Management and Medical Information Sciences, Kerman University of Medical Sciences, Kerman, Iran

<sup>2</sup> Student Research Committee, Fasa University of Medical Sciences, Fasa, Iran

<sup>3</sup> Noncommunicable Diseases Research Center, Fasa University of Medical Sciences, Fasa, Iran

<sup>4</sup> School of Allied Medical Sciences, Fasa University of Medical Sciences, Fasa, Iran