LETTER TO THE EDITOR

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The influences of the environment and information on the complications of diabetes on patient outcomes

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Abstract

This letter was written to address two concerns about the results of the paper published by Zeynep et al. (BMC Health Qual Life Outcomes 18:265, 2020). First, the differences between the two groups in the environment with or without occupation may strengthen the primary outcome results. Second, lack of information on the complications and treatments of diabetes makes interpretation of the results difficult.

Keywords: Diabetes mellitus, Occupation-based, Problem-solving, Quality of life

Dear Editor,

We read with great interest this study, which clarified the effects of problem-solving therapy (PST) on the occupational performance, self-efficacy, and well-being of type 2 diabetic patients in Turkey [1]. However, we have two concerns about the methodology of this study.

First, the difference between the two groups in terms of whether they were in an environment with or without occupation might have significantly affected the results, so the results should be subtracted. In this study, although the participants were randomly assigned at Baseline, more participants in the intervention group than in the control group were engaged in work. Therefore, the Canadian Occupational Performance Measure (COPM) for primary outcomes is more likely to have a stronger effect on the amount of change because it affects the client's environment [2]. The COPM is a questionnaire that asks about self-perceptions of occupational performance. Participants in the environment with

Second, this study does not describe the complications and treatment of diabetes, which we would like to know about. Hypoglycemia, a complication of diabetes, is said to reduce the work productivity of diabetic patients [3]. In addition, patients with type 2 diabetes are limited by the social and emotional aspects of insulin therapy [4]; they refuse insulin therapy because they feel that starting insulin will stigmatize them socially [5]. Thus, depending on the complications and treatment of diabetes, the results of this study may be weakened.

Abbreviations

PST: Problem-solving therapy; COPM: The Canadian Occupational Performance Measure.

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Authors' contributions

All authors discussed the study. All authors read and approved the final manuscript.

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occupation might find it easier to visualize and practice "problem definition," "generation of alternatives," "decision-making," "solution implementation and verification," in PST.

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Availability of data and materials

Date sharing is not applicable to this article as no datasets were generated or analyzed during the present study.

Ethics approval and consent to participate

Not applicable.

Consent for publication

Not applicable.

Competing interests

The authors declare that they have no competing interests.

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References

 Ağce ZB, Ekici G. Person-centred, occupation-based intervention program supported with problem-solving therapy for type 2 diabetes:

- a randomized controlled trial. BMC Qual Life Outcomes. 2020;18:265. https://doi.org/10.1186/s12955-020-01521-x.
- Enemark Larsen A, Rasmussen B, Christensen JR. Enhancing a clientcentred practice with the Canadian Occupational Performance Measure. Occup Ther Int. 2018;2018:5956301. https://doi.org/10.1155/2018/59563 01.
- Fulcher G, Singer J, Castañeda R, Filho FF, Maffei L, Snyman J, Brod M. The psychosocial and financial impact of non-severe hypoglycemic events on people with diabetes: two international surveys. J Med Econ. 2014;17(10):751–61. https://doi.org/10.3111/13696998.2014.946992.
- Reis ACD, Cunha MV, Bianchin MA, Freitas MTR, Castiglioni L. Comparison
 of quality of life and functionality in type 2 diabetics with and without
 insulin. Rev Assoc Med Bras. 2019;65(12):1464–9.
- Raghavendran S, Inbaraj LR, Norman G. Reason for refusal of insulin therapy among type 2 diabetes mellitus patients in primary care clinic in Bangalore. J Family Med Prim Care. 2020;9(2):854–8.

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