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REVIEW

for the dissertation 'Physiotherapy methods in tinnitus treatment' by Shikha Spencer MSc PT for commencing doctorate procedure in the field of medical and health sciences, in the discipline of health sciences

The dissertation consists of an introduction, six chapters, conclusions, an appendix, and a list of references. The volume of the dissertation is 61 pages (29 pages of the main text).

The dissertation is based on 3 publications, including one with IF values.

- Spencer S, Sereda M, Schoisswohl S, Olszewski J, Mielczarek M. Comparison of invasive versus non-invasive electrical ear stimulation in tinnitus suppression: literature review. Journal of Hearing Science. 2019;9(3):9-23. https://doi.org/10.17430/1003431. MEiN points 100.
- Spencer S, Mielczarek M, Olszewski J, Sereda M, Joossen I, Vermeersch H, Gilles A, Michiels S. Effectiveness of bimodal auditory and electrical stimulation in patients with tinnitus: A feasibility study. Front Neurosci. 2022 Aug 24,16:971633. doi: 10.3389/fnins.2022.971633. MEiN points 100, Impact factor 4.3.
- 3. Spencer S, Sereda M, Bielińska M, Olszewski J, Adebusoye B, Sobkiewicz A, Bacri T, Bulla J, Mielczarek M. Effects of complex neck therapy (kinesiotherapy and interspinal



presented the aim and management of the research. The results of the study are published in Frontiers in Neuroscience.

In Chapter 4, Author presented the third step of the study – evaluation of the effects of complex neck therapy (kinesiotherapy and interspinal muscles massage) on tinnitus. Author described in details aim of the study, its course, limitations and further implications. The results of the study are published in Journal of Hearing Science.

In the next Chapter Author discussed the research cycle, combining the obtained results with the world literature, giving main conclusions in Chapter 6.

In dissertation, Author used modern research methods that meet the requirements of modern medicine. Additionally, the dissertation work was written logically; the introduction stresses the problem, and the materials and methods are reliable for the study. The results are obtained correctly, and conclusions emerge from the findings. Tools used in both studies (TFI, VAS, THI) were correctly selected.

Author cited 142 publications from the world literature. However, it is worth to add works of Prof. Danuta Raj-Koziak, which is one of the leading specialists in tinnitus. Moreover, the text needs to be edited and checked, the font should be standardized, the text justified.

To sum up, the dissertation by Shikha Spencer MSc PT <u>meets all requirements</u> referred to the Article 13 of the Act of 14 March 2003. with scientific degrees and scientific title and about degrees and title in the field of art (Journal of Laws of 2017, item 1789, as amended) and in connection with Art. 179 section 1 of the Act of July 3, 2018, provisions introducing the Act – Law on Higher Education and Science (Journal of Laws of 2018, item 1669, as amended). Shikha Spencer MSc PT should be admitted to the next stages of the doctoral program.

Your sincerely,
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