

British Journal of Nutrition (2022), 127, 478 © The Author(s), 2021. Published by Cambridge University Press on behalf of The Nutrition Society

Letter to the Editor

Zinc supplementation and inflammatory cytokines

We read with interest the article of Faghfouri et al. (1) regarding the 'Profiling Inflammatory Cytokines Following Zinc Supplemen tation: A Systematic Review and Meta-analysis of Randomized Controlled Trials' and we would like to point out three concerns regarding the study selection presented in this article. First, although the authors searched electronic databases (PubMed, Scopus, Web of Science and Embase), three eligible studies were ignored⁽²⁻⁴⁾. Second, the authors mentioned that non-randomised design studies and also articles conducted on juvenile subjects (10-19 years)⁽⁵⁾ were excluded; however, two articles were included in the analysis (6,7). Third, another article was carried out on pregnant women⁽⁸⁾, which should be excluded from analysis because the condition of inflammatory cytokines and also the effect of supplementation on pregnant women are relatively different from non-pregnant adults. In view of the deficiencies mentioned above, it is suggested that the analysis should be repeated.

Alireza Jafari¹ and Saeed Ghobadi²*

¹Department of Community Nutrition, School of Nutritional Science and Dietetics, Tehran University of Medical Sciences, Tehran, Iran

²Non-Communicable Diseases Research Center, Alborz University of Medical Sciences, Karaj, Iran *email sghobadi70@gmail.com

doi:10.1017/S0007114521001069

References

- 1. Faghfouri AH, Baradaran B, Khabbazi A, *et al.* (2021) Profiling inflammatory cytokines following zinc supplementation: a systematic review, meta-analysis of randomized controlled trials. *Br J Nutr* 1–28.
- Ahmad I & Al-Ahmare K (2016) Effect of Vitamin A and zinc on circulating profile of IL-2, IL-12, and IFNγ cytokines in pulmonary tuberculosis patients. *Int J Nutr Pharmacol Neurol Dis* 6, 63–71.
- 3. Guo C-H & Wang C-L (2013) Effects of zinc supplementation on plasma copper/zinc ratios, oxidative stress, and immunological status in hemodialysis patients. *Int J Med Sci* **10**, 79–89.
- Rahfiludin MZ, Wirjatmadi B, Agusni I, et al. (2011) Zinc supplementation could modulate T cell to maintain interleukin-2 level in seropositive contact of leprosy patients. Med J Indonesia 20, 201–204.
- Organization WH (2015) Adolescent Health in the South-East Asia Region. Geneva: WHO.
- Beserra de Moura MS, Mello Soares NR, de Lima Barros SE, et al. (2020) Zinc gluconate supplementation impacts the clinical improvement in patients with ulcerative colitis. Biometals 33, 15–27.
- Kara E, Ozal M, Gunay M, et al. (2011) Effects of exercise, zinc supplementation on cytokine release in young wrestlers. Biol Trace Elem Res 143, 1435–1440.
- Roshanravan N, Tarighat-Esfanjani A, Alamdari NM, et al. (2018) The effects of zinc supplementation on inflammatory parameters in pregnant women with impaired glucose tolerance: a randomized placebo controlled clinical trial. Progr Nutr 20, 330–336.

