



Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

Elsevier hereby grants permission to make all its COVID-19-related research that is available on the COVID-19 resource centre - including this research content - immediately available in PubMed Central and other publicly funded repositories, such as the WHO COVID database with rights for unrestricted research re-use and analyses in any form or by any means with acknowledgement of the original source. These permissions are granted for free by Elsevier for as long as the COVID-19 resource centre remains active.



Contents lists available at ScienceDirect

Clinical Nutrition ESPEN

journal homepage: <http://www.clinicalnutritionespen.com>

Letter to the Editor

Micronutrient supplementation, COVID-19 vaccination and adverse effect: Correspondence



Keywords:

Micronutrient
Supplementation
COVID-19
Vaccination

Dear Editor,

We would like to share ideas on the publication “Micronutrient supplementation before COVID-19 vaccination can protect against adverse effects [1]”. Dalan and Boehm discussed on the role of micronutrient supplementation and proposed some disagreements on observations by Fen et al. [2]. The argument refers to underlying or concurrent medical conditions [1]. We agree with Dalan and Boehm. Indeed, the adverse effect after COVID-19 vaccination depends on several factors. Other factors that should be mentioned is the genetic underlying factors. In some cases, the vaccine recipient might be a carrier of some genetic disorders, such as thalassemia. In our setting, thalassemia is common and the patient usually received nutritional supplementation but there is no observation of protective against adverse effect of COVID-19 vaccine. Additionally, the effect of the genetic polymorphisms, such as vitamin D receptor polymorphisms should also be assessed. If nutritional supplementation can help protect against COVID-19 vaccine induced adverse effect, the effect of genetic polymorphism that relates to the nutritional metabolic process should exist.

Grants and funding

None.

Contribution of each author

RM 50% - 1a Substantial contributions to study conception and design 1b. Substantial contributions to acquisition of data

1c. Substantial contributions to analysis and interpretation of data 2. Drafting the article or revising it critically for important intellectual content 3. Final approval of the version of the article to be published.

VW 50% - 1a Substantial contributions to study conception and design 1b. Substantial contributions to acquisition of data 1c. Substantial contributions to analysis and interpretation of data 2. Drafting the article or revising it critically for important intellectual content 3. Final approval of the version of the article to be published.

Declaration of competing interest

None.

Acknowledgments

None.

References

- [1] Dalan R, Boehm BO. Micronutrient supplementation before COVID-19 vaccination can protect against adverse effects. *Clin Nutr ESPEN* 2022 Feb;47:433–4.
- [2] Feng Z, Yang J, Xu M, Lin R, Yang H, Lai L, et al. Dietary supplements and herbal medicine for COVID-19: a systematic review of randomized control trials. *Clin Nutr ESPEN* 2021 Aug;44:50–60.

Rujittika Mungmunpantipantip*
Private Academic Consultant, Bangkok, Thailand

Viroj Wiwanitkit
Dr DY Patil University, Pune, India

* Corresponding author.

E-mail address: rujittika@gmail.com (R. Mungmunpantipantip).

30 January 2022

DOI of original article: <https://doi.org/10.1016/j.clnesp.2022.02.117>.<https://doi.org/10.1016/j.clnesp.2022.02.118>

2405-4577/© 2022 European Society for Clinical Nutrition and Metabolism. Published by Elsevier Ltd. All rights reserved.