

COVID-19, Vaccination, Multisystem Inflammatory Syndrome, Aneurysm, Screening and Post Vaccination Death

Dear Editor,

COVID-19 vaccine is the preventive tool against COVID-19. The safety of the new vaccine is the present issue for research. For any vaccination, postvaccination death requires a good investigation. An interesting emerging problem on postvaccination death due to ruptured aneurysms is an interesting observation. The primary investigation by local public health administrators usually reveals no association (for example, see <https://healthserv.net/en9417>). Theoretically, COVID-19 might cause aberration in homeostatic system. The clinical association with an aneurysm is also reported. The multisystem inflammatory syndrome, aneurysm, might induce aneurysm.^[1] The pathogenesis of COVID-19-induced aneurysm is via the stimulator of interferon genes (STING) pathway,^[2] which is an immune-related mechanism. Regarding COVID-19 vaccination, the stimulation on the immune system might occur. There is a possible chance that there might be an immunopathological process inducing aneurysm or superimpose the existed aneurysm. Therefore, a possible interrelation between COVID-19 vaccination and postvaccination death due to ruptured aneurysm requires in-depth research.

At present, for playing safe, it is recommended that COVID-19 vaccination should be provided to only healthy people without any personal illness or risk history. The special high precaution should be noted for any case with underlying thrombohemostatic, immunological, or vascular disease. A good prevaccination screening and a highly selective recruitment process for the new vaccine recipients should be the best preventive measure.

Financial support and sponsorship

Nil.

Conflicts of interest

There are no conflicts of interest.

Beuy Joob, Viroj Wiwanitkit¹

Private Academic Consultant, Bangkok, Thailand, ¹Department of Community Medicine, Dr. D. Y. Patil University, Pune, Maharashtra, India

Address for correspondence:

*Dr. Beuy Joob,
Private Academic Consultant, Bangkok 103300, Thailand.
E-mail: beuyjoob@hotmail.com*

Received: 12 May 21 **Accepted:** 27 Sep 21

Published: 16 Jun 23

References

1. Feldstein LR, Tenforde MW, Friedman KG, Newhams M, Rose EB, Dapul H, *et al.* Characteristics and outcomes of US children and adolescents with multisystem inflammatory syndrome in children (MIS-C) compared with severe acute COVID-19. *JAMA* 2021;325:1074-87.
2. Berthelot JM, Drouet L, Lioté F. Kawasaki-like diseases and thrombotic coagulopathy in COVID-19: Delayed over-activation of the STING pathway? *Emerg Microbes Infect* 2020;9:1514-22.

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

Access this article online

Quick Response Code:



Website:

www.ijpvmjournal.net/www.ijpm.ir

DOI:

10.4103/ijpvm.ijpvm_192_21

How to cite this article: Joob B, Wiwanitkit V. COVID-19, vaccination, multisystem inflammatory syndrome, aneurysm, screening and post vaccination death. *Int J Prev Med* 2023;14:74.

© 2023 International Journal of Preventive Medicine | Published by Wolters Kluwer - Medknow