

Correspondence on “paroxysmal supra-ventricular ventricular tachycardia after COVID-19 vaccine injection”

R. Mungmunpantipantip¹ and V. Wiwanitkit²

¹ Private Academic Consultant, Bangkok, Thailand and ² Honorary Professor, Dr DY Patil University, Pune, India

Keywords: Arrhythmia, covid, vaccine

Original Submission: 10 February 2022; **Accepted:** 27 June 2022

Article published online: 2 July 2022

Corresponding author: Rujitika Mungmunpantipantip.
E-mail: rujittika@gmail.com

Dear Editor

We would like to share ideas on the publication “paroxysmal supra-ventricular ventricular tachycardia after AstraZeneca COVID-19 vaccine injection [1].” Line t al. concluded that “While COVID-19 is far from over,[1].” We agree that the COVID-19 vaccination has the potential to induce side effects, including cardiac problems. The patient in this case exhibited tachycardia, which might or could not be linked to COVID-19 immunization. It’s difficult to draw a definitive judgment when there’s no pre-vaccination information on the vaccine recipient’s heart state. There could be a concurrent or underlying medical condition for a COVID-19 vaccine recipient that causes post-vaccination incidence [2]. For example, a vaccine recipient might have concurrent dengue [3] and dengue might be a cause of arrhythmia [4].

Ethical approval and consent to participate

Not applicable

Consent for publication

Not applicable

Availability of data and materials

Not applicable

Funding

None

Authors’ contributions

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.

Conflict of interest

Authors cannot pay for any charge and ask for full waiving for this correspondence.

Acknowledgments

None

References

- [1] Lin YT, Chen PY, Su YJ. Paroxysmal supra-ventricular ventricular tachycardia after AstraZeneca COVID-19 vaccine injection. *New Microbe. New Infect* 2022 Feb;4:100965. <https://doi.org/10.1016/j.nmni.2022.100965>. Online ahead of print.
- [2] Mungmunpantipantip R, Wiwanitkit V. Thrombosis after adenovirus-vectored COVID-19 vaccination: a concern on underlying illness. *Clin Appl Thromb Hemost* 2021 Jan-Dec;27:10760296211060446.
- [3] Kebayoon A, Wiwanitkit V. Dengue after COVID-19 vaccination: possible and might be missed. *Clin Appl Thromb Hemost* 2021 Jan-Dec;27:10760296211047229.
- [4] Parchani A, Krishnan Vs G, Kumar VKS. Electrocardiographic changes in dengue fever: a review of literature. *Int J Gen Med* 2021 Sep 14;14:5607–14.