



Acute COVID-19 Vaccine-Associated Glomerulonephritis: An Effect of Vaccination or the Infection Itself?

Dear Editor,

We read the article “Outcomes of COVID-19 Vaccine-Associated Glomerular Diseases (CVAGD) – A Case Series from India,”¹ attentively and complement the authors on their elegant compilation of CVAGD cases. We, however, have a few comments.

The authors identified only one patient with a prior COVID-19 infection. It is unclear if all patients were tested for SARS-CoV-2 using reverse transcriptase-polymerase chain reaction (RT-PCR) since a significant number of infected individuals may remain asymptomatic and acute infection-associated glomerulonephritis, with or without COVID-19 RNA positivity in kidney tissues is well-described.^{2,3} This is especially relevant to patients described with relapses following COVID-19 vaccination. Viral infections are well-known triggers of relapses in patients with nephrotic syndrome.⁴

Data on the number of post-infections or infected patients with associated glomerulonephritis would clarify the CVAGD burden. Some studies have reported a reduction in the number of relapses in pediatric patients with nephrotic syndrome during the SARS-CoV-2 pandemic. No such literature is available for adults, and the etiopathogenesis differs from that of the pediatric age group.⁵

Conflicts of interest: There are no conflicts of interest.

Suprita Kalra¹

¹Department of Pediatrics, Command Hospital, Pune, Maharashtra, India

Corresponding author: Suprita Kalra, Department of Pediatrics, Command Hospital, Pune, Maharashtra, India.
E-mail: kalrasuprita@gmail.com

References

1. Rajarathinam VD, Seshadri J, Senthilkumaran G, Jibia VS, Murugesan V, Devaraju PK, *et al.* Outcomes of COVID-19 vaccine-associated glomerular diseases (CVAGD) - A case series from India. *Indian J Nephrol* 2024;34:603-8.
2. Pérez A, Torregrosa I, D' Marco L, Juan I, Terradez L, Solís MÁ, *et al.* IgA-dominant infection-associated glomerulonephritis following SARS-CoV-2 infection. *Viruses* 2021;13:587.
3. Basiratnia M, Derakhshan D, Yeganeh BS, Derakhshan A. Acute necrotizing glomerulonephritis associated with COVID-19 infection: Report of two pediatric cases. *Pediatr Nephrol* 2021;36:1019-23.
4. Uwaezuoke SN. Steroid-sensitive nephrotic syndrome in children: Triggers of relapse and evolving hypotheses on pathogenesis. *Ital J Pediatr* 2015;41:19.
5. Crane C, Bakhom C, Ingulli E. Rates of idiopathic childhood nephrotic syndrome relapse are lower during the COVID-19 pandemic. *Pediatr Nephrol* 2022;37:2679-85.

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, transform, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

How to cite this article: Suprita K. Acute COVID-19 Vaccine-Associated Glomerulonephritis: An Effect of Vaccination or the Infection Itself? *Indian J Nephrol*. doi: 10.25259/IJN_793_2024

Received: 20-12-2024; **Accepted:** 21-12-2024;
Online First: 20-02-2025; **Published:** ***

DOI: 10.25259/IJN_793_2024

