



MPO-ANCA Associated Vasculitis Following COVID-19 Vaccination – A Case Report

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PUBLISHED ABSTRACT

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ABSTRACT

Whether autoimmune or rheumatic disease can be precipitated after vaccination is controversial. Only epidemiological studies or clinical trials with an extremely large sample size can allow for a consistent assessment of the relative risk of vaccine-related incidence. Studies with such large sample sizes are complex, difficult to perform, and costly, which limit their administration. There exists no minimum criteria for diagnosing vaccine-related autoimmune diseases, this question must be analyzed on a case-by-case basis.

Although our report does not prove a causal association between vaccination and vasculitis, it seems possible that in rare cases, vaccination might induce vasculitic disease. While the possibility of autoimmune disease is very real, without vaccinations the SARS-CoV-2 pandemic will spread unchecked, bringing with it a slew of multisystem disorders, including autoimmune diseases both in the present and future (*Table 1, Figures 1, 2*).

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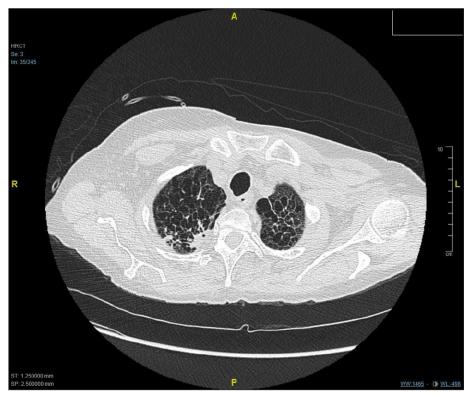
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KEYWORDS: COVID-19 vaccination; MPO-ANCA; Vasculitis; Autoimmune; SARS-CoV-2; COVID-19

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ACUTE-KIDNEY INJURY WORK UP REQUESTED	RESULT
С3	135.0 [90.0-150.0 mg/dL]
C4	20.0 [16.0-47.0 mg/dL]
Anti-nuclear antibody (ANA) screen	Negative
Anti-Glomerular basement membrane antibody	Undetectable
Anti-DNA antibody	Undetectable
ANCA-MPO antibody	535.4 AI
ANCA-Proteinase-3 antibody	Undetectable





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Table 1 Results of the workup for renal failure.

Figure 1 CXR showing diffuse bilateral interstitial/alveolar airspace infiltrates.

Figure 2 HRCT chest showing spiculated densities in the bilateral lung apices.

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COMPETING INTERESTS

The authors have no competing interests to declare.

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