Myocarditis following mRNA-Based COVID-19 Vaccines: Correspondence

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Dear Editor,

We would like to share ideas on the publication “*Incidence, clinical presentation and management of myocarditis following mRNA-based Covid-19 vaccines: A brief report* [1].” Saeed et al. [1] concluded that “*myocarditis following mRNA-based Covid-19 vaccines is rare, more frequently affects younger men <30 years and ... outweighs the risk of post-vaccination myocarditis*. [C1].” The COVID-19 vaccine, we agree, has the potential to induce negative effects. A heart issue may occur in the patient, which may or may not be related to the COVID-19 vaccination. Because there is no information about the patient’s immunological status before to immunization, it is impossible to make a firm conclusion. Several possible underlying pathomechanisms including abnormal immune response and viscosity charge are proposed as an underlying cause of a cardiac problem. It is also likely that a vaccination recipient might experience a medical issue at the same time. For example, among COVID-19 vaccine recipients, dengue fever is a possible concurrent medical condition that might cause myocarditis [2]. Finally, due to the mild nature of the heart condition, there may be underreported cases around the world. Therefore, the discussed incidence by Saeed et al. [1] should be lower than the exact incidence. Despite the lack of a precise management recommendation, we believe that patient follow-up is beneficial.

Statement of Ethics

Not applicable.

Conflict of Interest Statement

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Authors contributions

R.M. contributed to 50% of the following: 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; and 3. final approval of the version of the article to be published. V.W. contributed to 50% of the following: 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; and 3. final approval of the version of the article to be published.

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