

Review of: "Big Data From TriNetx on the Association of Retinal Vascular Occlusion and COVID-19 Vaccinations"

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Potential competing interests: No potential competing interests to declare.

Overall, the article presents a comprehensive review of two significant TriNetX big data studies investigating the association between retinal vascular occlusion (RVO) and COVID-19, as well as its vaccines. The review effectively summarizes the key findings of each study, highlighting both similarities and differences in their methodologies and results.

One strength of the review is its clear organization, which enables readers to understand the main findings of each study and the implications for understanding the relationship between COVID-19, vaccination, and RVO. Additionally, the review appropriately acknowledges the limitations of the studies, such as the retrospective nature of the analyses and the potential for confounding variables.

However, there are areas where the review could be strengthened. For instance, while the review discusses the differences in comparison groups between the two studies, it could provide more detailed insights into how these differences might impact the interpretation of the results. Additionally, the review could delve further into the potential mechanisms underlying the observed associations and suggest directions for future research in this area.

Overall, the review offers valuable insights into the current state of research on RVO and COVID-19, highlighting the need for further investigation to clarify the complex relationship between viral infection, vaccination, and vascular occlusive events. With some refinement in addressing study limitations and exploring potential mechanisms, the review could provide an even more robust understanding of this important topic.