



COVID-19 vaccination and idiopathic sudden sensorineural hearing loss: comment

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Dear Editor,

We would like to share ideas on the publication “The association between COVID-19 vaccination and idiopathic sudden sensorineural hearing loss, clinical manifestation and outcomes [1].” Fisher et al. compared the clinical symptoms and outcomes of patients who had received vaccinations vs. those who had not [1] to evaluate the incidence at their center. Fisher et al. discovered that the incidence of ISSNHL in 2021 increased significantly at our medical center, with 25% of cases occurring within 1 month of receiving anti-COVID-19 vaccination [1]. According to Fisher et al., there was no discernible difference between patients who had received vaccinations and those who had not in terms of clinical symptoms and outcomes [1]. Fisher et al. came to the conclusion that more research was required, since, despite the possibility of finding other explanations, an association could not be ruled out [1].

The COVID-19 vaccine may cause an adverse reaction, and the diagnosis can occasionally be challenging. The current report may or may not list COVID-19’s side effect of idiopathic abrupt sensorineural hearing loss. The absence of pre-vaccination information on the recipients’ health and hearing status makes it difficult to make a conclusive determination regarding the vaccine’s negative effects. A risk of asymptomatic COVID-19, a prevalent clinical issue, is also present [2]. The COVID-19 is a known cause of hearing

loss, and the vaccine recipient may have asymptomatic COVID-19 before or after receiving the vaccination [3].

Availability of data and material There is no new data generated in this study.

Declarations

Conflict of interest None.

References

1. Fisher R, Tarnovsky Y, Hirshoren N, Kaufman M, Stern Shavit S (2023) The association between COVID-19 vaccination and idiopathic sudden sensorineural hearing loss, clinical manifestation and outcomes. *Eur Arch Otorhinolaryngol*. <https://doi.org/10.1007/s00405-023-07869-2>
2. Joob B, Wiwanitkit V (2020) Letter to the editor: coronavirus disease 2019 (COVID-19), infectivity, and the incubation period. *J Prev Med Public Health* 53(2):70
3. Sriwijitalai W, Wiwanitkit V (2020) Hearing loss and COVID-19: A note. *Am J Otolaryngol* 41(3):102473

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