049

AUDITORY OBJECTIVE MEASURES

Audiological Profile and Analysis of Self-Perceived Hearing Post COVID-19

Milaine Dominici Sanfins, Larissa de Assis Felix, Piotr Henryk Skarzynski, Adriana Neves de Andrade
UNIVERSIDADE FEDERAL DE SÃO PAULO (UNIFESP), SÁO PAULO, BRAZIL

Abstract

Severe Acute Respiratory Syndrome (SARS-CoV-2) is associated with coronavirus 2 and shares symptoms similar to those of the flu. Studies indicate that SARS-CoV-2 can affect various sensory systems of the human body, including the auditory system, due to the vascular and immunological impact of viral infection.

Objective:

To analyze the results of anamnesis, audiological evaluation, and auditory self-perception in individuals post-confirmed diagnosis of COVID-19 treated at the audiological evaluation clinic of São Paulo Hospital, at the Federal University of São Paulo.

Method: and Materials

Conducted a retrospective /prospective study on patients with confirmed diagnosis of COVID-19, undergoing audiological evaluation between March 2021 and March 2023. Data were collected through generic health questionnaires and COVID-19-specific questionnaires, along with basic audiological evaluation and analyzed descriptively.

Results

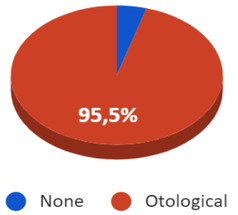
-Evaluated 22 individuals, with an average age of 42.5 years, of whom 72.7% were female and in good overall health.

-The majority (95.5%) sought care due to complaints of hearing loss, tinnitus, dizziness, among others.

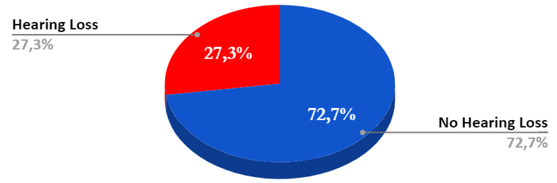
Results

- About 78% of individuals reported post-COVID-19 sequelae, with half reporting worsening of hearing.
- In audiometry, most showed normal hearing thresholds in one ear, adequate performance on the speech recognition index and good mobility of the tympanic membrane;

Concern



Audiometric Results



Conclusion

Post-COVID-19 individuals, although in good overall health, presented auditory complaints and sequelae. The majority did not demonstrate hearing loss in audiological evaluation, but half reported worsening of hearing after infection.

References

- Definition of suspected COVID-19 cases: a narrative review of the most frequent signs and symptoms among confirmed cases. Epidemiology and Health Services [online], vol. 29, no. 3.Iser, Betine Pinto Moehlecke et al., 2020
- Audiovestibular alterations in patients post-COVID-19 infection. Proceedings of Health Sciences. Da Silva, Adriana; Viana, Éric; Rocha, Flávia et al.2023.
- Basic Audiologic Testing. In: Silman S, SilvermanCA. Auditory Diagnosis-Principles and applications. San Diego: Singular; Silman S, Silverman CA. 1997. p 38-58.

email: msanfins@unifesp.br