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HEARING THRESHOLDS AT HIGHER FREQUENCIES IN PATIENTS WITH CYSTIC FIBROSIS: SYSTEMATIC REVIEW

Caumo D T M¹, Geyer L B², Teixeira A R³ and Menna Barreto S S¹¹Faculdade de Medicina-Universidade Federal do Rio Grande do Sul (FAMED/UFRGS), Brazil²Service of Speech Therapy and Otorhinolaryngology, Portal Hospital de Clínicas de Porto Alegre - HCPA, Brazil³Instituto de Psicologia, Universidade Federal do Rio Grande do Sul (UFRGS), Brazil

Introduction: High frequency audiometry may contribute to the early detection of hearing loss caused by ototoxic medications. In the treatment of patients with cystic fibrosis, there are many ototoxic drugs that are widely used. Early detection of hearing loss should allow them to be identified before the damage reaches frequencies of speech. The damage caused by ototoxicity is irreversible, bringing important social and psychological consequences. In children, hearing loss, even restricted to high frequencies, can affect language development.

Objective: Investigate the efficacy and effectiveness of hearing monitoring by high frequency audiometry in pediatric patients with cystic fibrosis.

Methods: Electronic databases were searched PubMed, MEDLINE, Web of Science and LILACS, from Jan' to Nov' 2015 were consulted. We selected only the studies that were carried out high-frequency audiometry in patients with cystic fibrosis and treatment with ototoxic drugs, published in Portuguese, English and Spanish. For the evaluation of the methodological quality of the items we chose to use the GRADE system.

Results: In the search process carried out from Jan' to Nov' 2015 were found 512 publications, and 250 of PubMed, MedLine 118, 142 Web of Science and 2 from LILACS. Of these, nine articles were selected.

Conclusion: It was identified the occurrence of hearing loss in high frequencies, in cystic fibrosis patients without hearing complaints. It is assumed that high frequency audiometry may be an early diagnostic method to be recommended for hearing investigation of patients at risk for ototoxicity.

deboratmc@hotmail.com