

عنوان مقاله:

Otoacoustic Emissions in Sudden Sensorineural Hearing Loss: Changes of Measures with Treatment

محل انتشار:

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نویسندگان:

Shadman Nemati - *Department of otorhinolaryngology, Guilan University of Medical Sciences, Rasht, Iran*

Seyyed-Ebrahim Naghavi - *Department of otorhinolaryngology, Guilan University of Medical Sciences, Rasht, Iran*

Ehsan Kazemnejad - *Department of biostatistics, Guilan University of Medical Sciences, Rasht, Iran*

Roozbeh Banan - *Ear, Nose, Throat, Head and Neck surgery Research Center, Guilan University of Medical Sciences, Rasht, Iran*

خلاصه مقاله:

Introduction: To identify changes in OAEs parameters in treatment course of idiopathic sudden sensorineural hearing loss (iSSNHL). **Materials and Methods:** In a prospective study from August ۲۰۰۵ to January ۲۰۰۹, ۲۶ patients with iSSNHL underwent conventional audiometry/tympanometry and two types of OAEs (TEOAEs and DPOAEs) before and after the completion of standard drug therapy. The changes in pre- and post-treatment parameters were compared with each other and with normal-contralateral ears. **Results:** In TEOAEs, the mean overall correlation (reproducibility) and the mean overall strength in involved ears were ۱۰.۹۶ ± ۲۳.۳۶ and ۰.۹۹ ± ۳.۴۵ dB, respectively, before the treatment, which reached ۲۲.۸۸ ± ۳۶.۵۵ and ۱.۸۵ ± ۵.۳ , respectively, after the treatment ($P > ۰.۰۵$). Significant difference between "correlation score" (average of correlations at ۳-۴ involved frequencies) before and after treatment was found: ۶.۵۲ ± ۱۸.۱۹ vs. ۲۱.۶۷ ± ۳۷.۸ ($P < ۰.۰۳۴$). The difference between pre- and post-treatment overall correlation and correlation score in the "response group" were significant ($P < ۰.۰۳۱$). In DPOAEs of the involved ears, the mean DP_۱ level and the DP_۱ signal-to-noise ratio changes were not significant with the treatment ($P > ۰.۰۵$). **Conclusion:** Evoked OAEs, especially TEOAEs, are objective, rapid, and sensitive tools in the treatment course of iSSNHL.

کلمات کلیدی:

Idiopathic sudden sensorineural hearing loss, Otoacoustic emissions, response, Treatment

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