

البحث الرابع (بحث مشترك – منشور دوليا)

عنوان البحث باللغة الانجليزية:

Auditory Neuropathy Spectrum Disorder (ANSF): A Distortion Product Otoacoustic Emissions (DPOAEs) Study

عنوان البحث باللغة العربية:

طيف الاعلال العصبي السمعي: دراسته باستخدام ناتج التشوش من الانبعاث الصوتي

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Bachground: Auditory neuropathy spectrum disorder (ANSF) is characterized by normal OHCs function as shown by intact cochlear microphonics (CMs) and/or otoacoustic emissions (OAEs); absent or grossly abnormal auditory brainstem responses (ABRs) and absent middle ear muscle reflexes. This study is designed to address whether the input/output function of distortion product OAEs (DPOAEs I/O) in ANSD patients is similar or different from normal hearing 6 subjects. This work included 2 groups: **Control group (GI)** composed of 20 normal hearing 7 subjects and **Study group (GII)** consisted of 20 patients with ANSD. All cases were subjected to 8 Basic audiological evaluation, DPOAEs I/O function recorded at four frequencies of 2f1-f2 and 5 9 intensity levels of L1 and L2. **Results:** DPOAEs amplitudes were significantly higher in ANSD 10 group when compared with control. The pattern of DPOAEs I/O function was different in ANSD 11 and it was dependent on the frequency and intensity of the stimulus. **Conclusions:** Despite 12 normal DPOAEs recordings in ANSD patients, their amplitudes and DP I/O function are 13 different from that of normal hearing subjects. This finding suggested different OHC pattern of 14 activity in ANSD patients.