Auditory brainstem response to level-specific CE-CHIRP (R) threshold estimation in normal-hearing adults

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Abstract
Background: The aim of the present study was to compare the hearing thresholds between pure tone audiometry (PTA) and auditory brainstem response (ABR) from level-specific (LS) CE-Chirp (R) and click stimuli in normal adult subjects. Materials and Methods: Twenty-four adults with normal audiometric thresholds participated in the study. The ABR was recorded from the study participants at 80 dBnHL until their respective auditory thresholds using both the LS CE-Chirp (R) and click stimuli. Study Design and Statistical Analysis: A quasi-experimental study design was used.

MHS and M1: The amplitudes of wave III and V were larger for ABR to LS CE-Chirp (R) as compared to the ABR from the click stimulus. Conclusion: This study concluded that the ABR to LS CE-Chirp (R) has closer thresholds than the audiogram as compared to the ABR from click in normal-hearing adult subjects. At the suprathreshold (80 dBnHL), the ABR amplitudes of wave III, and V were larger in LS CE-Chirp (R) than the click stimulus.

Keywords
Author Keywords: Auditory brainstem response; auditory thresholds;
evoked potential
Keywords Plus: PURE-TONE AUDIOMETRY; CHIRP STIMULI; CLICK; INFANTS

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