

NORMATIVE DATA FOR AUDITORY BRAINSTEM RESPONSE USING TONE BURST STIMULUS IN NORMAL HEARING YOUNG ADULTS

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This study was performed in order to obtain normative data for auditory brainstem response (ABR) at 500Hz, 1000Hz, 2000Hz and 4000Hz using tone burst stimuli. A total of 20 normal hearing adults (20 ears) mean age of 22 years and 10 months participated in this study. All subjects had to pass a pre test session and fulfill the inclusive criteria. ABRs were recorded using one channel recording to the left ear. ABR thresholds and wave V latencies at high intensity and at threshold in both males and, females subjects were averaged. The thresholds showed no significant difference ($p>0.04$) between males and females subjects. Males had longer wave V latencies as compared to females and the difference in latencies between genders were significant ($p<0.05$) at 1000 Hz and 2000 Hz at high intensity and at 1000 Hz at threshold. In this study, ABR thresholds were within 15 dB from the subjects' behavioral threshold. Testing time revealed that more time was needed to obtain response at low frequencies as compared to at high frequencies. Reliability test showed no significant difference ($p>0.05$) between the first and second tests, thus proving, that the parameter is validated and can produce consistent reliable responses. To obtain nonnative value, \pm standard deviations were calculated.

Nordin, N. 2007. Normative Data for Auditory Brainstem Response Using Tone Burst Stimulus in Normal Hearing Young Adults. Bachelor of Audiology Thesis. Universiti Kebangsaan Malaysia.