

Thesis Title Auditory Brainstem Responses (ABR)
 In Normal Hearing Children :
 A Normative Study.

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Degree Master of Arts (Communication Disorders)

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Abstract

Normal ABR value via Hortmann ABR unit (SH 221) were obtained in this study. Fifty normal children aged 1.7 to 8 years from well-baby clinic were used in this study. Responses were obtained at 90, 70, 50 dBHL by stimulation of 20 per second click of 1-3.5 kHz spectrum energy. The analysis of variance was used to compare the mean absolute and interpeak latencies. The factors were gender (male and female children), intensities (90, 70 and 50 dBHL), wave I

III V and wave I-III III-V I-V. Statistical analysis were applied to this study. Results showed absolute latencies and the interpeak latencies (gender, intensities and wave) were significant differences. The age has no relationship to latency in this study. Fifty percent of subjects had different wave IV-V complex between right and left ear. Amplitude ratio between wave V and wave I (over 1) was found in 92 % at 70 dBHL and 91 % at 50 dBHL of the subjects. These results of the study could be used as normative data in clinical interpretation of ABR in young children.