

Thesis Title

A Comparison of Auditory Brainstem Response
Between Using and Unusing Hearing Aid
in Sensorineural Hearing Loss Adults

Name

Ratirom Chavitranuruk

Degree

Master of Arts (Communication Disorders)

Thesis Supervisory Committee

Jeamjit Thawin , M.A.

Usa Wisuthipat , M.A.

Urirat Subunvilas ,M.P.A.

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ABSTRACT

The purpose of this study was to compare the auditory brainstem response between using and unusing hearing aid in sensorineural hearing loss. The subjects were 23 sensorineural hearing loss adults. These subjects were 14 males and 9 females ,ranging age from 23-87, the average age was 60.13. They were divided into three groups according to degree of hearing loss ;41-55 dBHL,56-70 dBHL and 71-90 dBHL. Each of the three groups was subdivided into two groups by types of hearing aid, behind the ear and body type. The control group had normal hearing. They were 5 males and 5 females, ranging age from

25-41, average age was 39.5. The results showed the significant difference of ABR thresholds between using and unusing hearing aid even though in severe hearing loss. There was no significant difference in latency-intensity slope between normal hearing group and the group of subjects who were satisfied with hearing aid. For subjects who were satisfied with hearing aid, there was no significant difference in absolute latency wave V at 70 dB among the three groups. For types of hearing aid, there was no significant difference in latency-intensity slope and in absolute latency wave V at 70 dB between behind the ear and body type. From this study there was no need to adjust the gain of hearing aid to perform absolute latency wave V less than 6 msec at 70 dB or equal to normal hearing group. In this study the average Sound field threshold was different from the average ABR threshold about 10-15 dB all three subject groups.