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TANKAMON KAMPANGKAEW: ELECTRONYSTAGMOGRAPHY:
A NORMATIVE STUDY IN NORMAL PERSONS AGED 40-60 YEARS.
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Electronystagmography (ENG) is an examination of eye movement which emphasizes vestibulo-ocular reflex (VOR). Electronystagmography is used in to evaluate the vestibular function of patients with unsteadiness, dizziness or vertigo. However, there has been discrepancy of ENG data from different clinics. The purpose of this research was to study the ENG data in Thai normal persons aged 40-60 years. The results from this study were compared with the normative data from the same age group that were available in the computer program. The instruments used in this research was Electronystagmography Testing and Analysis of Nicolet Nystar™ and plus. Six subtests were studied spontaneous nystagmus, gaze evoked nystagmus, voluntary saccade test, smooth pursuit test, optokinetic nystagmus test and caloric test. Twenty one normal subjects(F:M=11:10) whose mean age was 46.47 years(S.D.=4.99) were examined.

The results showed that the subjects' tracings and variables of all subtests were approximately the same as other studies and were not significantly different from those of the computer program. Only the results of the mean delay time of voluntary saccade test were significantly lower than those of the computer program (p-value <0.05). However, the range (95%) of the delay time from Thai subjects and from the computer showed slight overlap (Thai = 149-242 msec., computer = 172-278 msec.). Thai normative data of all subjects age range 40-60 years were summarized into reference ranges and may be used as a guideline to analyze the vestibular function, to assess the site of lesion, and to manage and provide follow-up of patients with vertigo.