

Thesis Title : INCISOR POSITION IN THAI NORMAL OCCLUSION

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ABSTRACT

Previous studies have shown that the incisors position has long been recognized as an important guide in the diagnosis and treatment planning for orthodontic cases. It would provide good results, both the esthetics and the stability after treatment. The purpose of this study was to find the relationships of the incisor position and the skeletal structures.

The study was made on 90 Thais, 44 males and 46 females, who have normal occlusion and harmonious profiles. The average of ages was 18.6 years. Their cephalograms were traced and measured. The descriptive and correlation-regression analyses were used.

Results from the studies revealed that there was no significant difference of incisor positions between sex ($P > .05$). Thais incisor positions were more protruded than those of the Caucasians, same as the previous studies. The lower incisor position ($I-NB<mm.>$) was mostly correlated to ANB angle ($r=0.56$), others being N-angle ($r=0.35$) and NS-MP ($r=0.31$). The best multiple regression equation ($R=0.66$) that was suitable for calculating the lower incisor position was :

$$YI-NB<mm.> = 0.43XANB + 0.10XN \text{ angle} + 0.10XNS-MP - 3.35$$