

Correlation of mandible length and dental calcification stages on the Deutero-malay group aged 8-16 years

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20428426&lokasi=lokal>

Abstrak

Evaluation of individual maturity status takes an important role in selecting of the orthodontic treatment plans, especially for the growing age patient. This is mostly related to use of functional appliances and surgical approaches in some cases of skeletal discrepancy. Previous researches have demonstrated the significant correlation between the mandible length and the cervical vertebrae maturation in Deutero-Malay group. The significant correlation between the cervical vertebrae and the middle phalanx maturity, and the dental calcification within group of Deutero-malay has been proven. Objective: To confirm the correlation between the mandible length and the dental calcification. Methods: This way an observational research with a cross sectional design, done on 160 Deutero-malay subjects, aged 8-16 years. The length of mandible was measured from Condylion to Gnathion, and the dental calcification was evaluated by Demirjian method. Result: of Spearman nonparametric correlation ($r=0.713$), the second premolar ($r=0.753$), and the second molar ($r=0.772$). The result of Multiple Classification Analysis showed that the highest correlation to the mandible length was the second molar calcification ($B=0.495$).