

Intermaxillary tooth width ratio in a Saudi sample  
with different malocclusions

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Abstract

The intermaxillary tooth width ratio was investigated in Saudi subjects aged 13 to 20 years. Measurements of permanent teeth from central incisors through first molars in all four quadrants were performed in 40 pairs of pretreatment dental casts. The Bolton's formulae were used to examine the relationship between the maxillary and mandibular teeth. The results showed that the mean and standard deviation of mesiodistal tooth width for the over-all ratio was 91.4 and 1.72, and for the anterior ratio was 76.7 and 1.18 respectively. Further, the present study confirmed previous reports that the Bolton ratio is not affected by the different types of occlusion. When these values were compared with some mentioned in the literature it would appear that Saudis belong to the Caucasoid race.