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The Relation between Tooth Shape Ratio and Incisor Arrangement in Japanese Children

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Abstract: To investigate whether the relationship between tooth shape ratio and incisor arrangement proposed by Peck *et al.* in 1972 was applicable to Japanese children, we compared two groups, one with normal permanent dentition and another with crowded permanent dentition, using chronologically constructed plaster dentition models. Tooth shape ratio was obtained by dividing the incisor mesio-distal width by the labio-lingual width and then multiplying the result by 100. The results revealed a significant difference in the coronal mesio-distal diameter of the incisors between the two groups, but the other items showed no significant differences, suggesting no clear relationship between tooth shape ratio and incisor arrangement. That was, our results suggest that there is no clear relationship between tooth shape ratio of the mandibular incisors and arrangement of the permanent incisors in Japanese children.

Key words: Crowding, Tooth shape ratio, Mandibular incisor, Japanese children

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