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Pattern of congenitally missing teeth in the Malaysian population

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The study aimed to evaluate the pattern and prevalence of congenitally missing teeth (CMT) in the major races of Malaysian population. Digital orthopantomograms of 1407 subjects, age 14-21 years were retrospectively analysed. CMT were evaluated in two categories: congenitally missing third molars (CMTM) and missing of other teeth other than CMTM (hypodontia and oligodontia). The Chi-square and odd-ratios were conducted for statistical comparison. Overall the prevalence of CMT was 23.38%. The prevalence was not significantly different among the races and between the genders, however the number of CMT was significantly more in females compared to male. Overall, 17.34% of the subjects had CMTM and 7.75% had other CMT apart from CMTM (7.18% had hypodontia and 0.57% had oligodontia). Around half of the subjects had one CMT. CMTM were significantly more in the maxilla compared to mandible, however CMT apart from CMTM were more in the mandible. Overall, the most common CMT were CMTM. Apart from CMTM, the most common CMT were mandibular-lateral-incisors followed by maxillary-lateral-incisors; however the order of the frequency of CMT differed among the races. Both the maxillary and mandibular-lateral-incisors were the most common CMT in Malay race while, in the Chinese and Indian races it was the mandibular-lateral-incisors. The maxillary-lateral-incisors were significantly more missing in Malay race compared to Chinese, while mandibular-lateral-incisors were more missing in Chinese. In conclusion, the prevalence of CMT was high which is in accordance with the findings of other Asian population. The most common CMT apart from CMTM were mandibular-lateral-incisors, although its prevalence differed between races.

Biography

Zakir H M has been affiliated as a 'Senior Lecturer' in the 'Department of Oral Biology & Biomedical Sciences', Faculty of Dentistry, University of Malaya. His research interests include oral physiology, oral biology, dental abnormalities, oral neuroscience, mastication, swallowing, and oro-facial pain.

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