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Journal of the Medical Association of Thailand, Vol 96, No 9

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Prevalence and Types of Dental Anomaly in a Thai Non-Syndromic Oral Cleft Sample

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Abstract

Objective: To investigate the prevalence and characteristics of dental anomalies (DAs); missing teeth (MT), dens-evaginatus (D-E), dens-invaginatus, dilaceration, fusion, gemination, macrodontia, microdontia (Micro), supernumerary teeth (SNT), and taurodontism, in permanent teeth among subjects with non-syndromic oral cleft.

Material and Method: This cross-sectional study was designed to assess DAs from diagnostic records; comprising panoramic radiograph, intraoral photographs, dental casts, and orthodontic clinic charts of 280 Northeastern Thai subjects, mean age 10.3+3.2 years. Chi-square test was used to compare DA prevalences among cleft phenotypes and genders.

Results: There were one or more teeth with DAs in 89.6% of the study population. Highest prevalence was MT (60.4%) followed by Micro (41.4%), dilaceration (6.4%), SNT (6.1%), and 0.4% in D-E, fusion, gemination, and taurodontism. The most prevalent MT was found in 70.7% of subjects in bilateral cleft lip and palate group.

Conclusion: The two predominant DAs were MT and Micro, higher prevalences being found with the more severe cleft conditions. The most affected teeth were cleft-site lateral incisors. There were no differences in distribution of DA in male and female.

Keywords: Cleft lip, Cleft palate, Dental anomaly, Prevalence, Thai

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