The relationship between Dermatoglyphics and Mesiodens

Makarem A[*], Mahdavi Shahri N[**], Ebrahimi M[*], Shahhoseini Sh. [***]

[*] Department of Pedodontics, Dental Research Center ,School of Dentistry, Mashhad University of Medical Sciences, Mashhad, Iran.

[**] Dept. of Biology, School of Sciences, Ferdowsi University of Mashhad, Mashhad, Iran.

[***] Dentist, Private Practice, Tehran, Iran.

Corresponding Author: Ebrahimi M**.,** ebrahimima@mums.ac.ir

Abstract

Background and Aim: There are several studies in relation to dermatoglyphics with some fields in dentistry. The objective of this study is evaluation of relation between dermatoglyphics and mesiodens in cases with mesiodens.

Materials & Methods: In this descriptive cross sectional study, 17 cases with mesiodens and 45caseswithoutmesiodens were selected from those referred to Mashhad Dental School. Ink method was used in this study. Data analyzed with SPSS, and T-test with significance of 0.05 was used for statistical analyses.

Results: T-test showed significant difference between both groups in frequency of loop pattern type of the finger tips (P=0.01). There is no significant difference between both study group in frequency of types of arch and whorl patterns of the finger tips. Also there is significant difference between mean total numbers of ridge count in the study groups.

Conclusion: Present study showed low frequency of loop pattern type of the finger tips in children with mesiodens. Also difference in dermatoglyphics pattern between two sexes in children with mesiodens has been seen.

Key words: Mesiodens, Dermatoglyphics, Prevalence.