

[Print Version] [PubMed Citation] [Related Articles in PubMed]

The Angle Orthodontist: Vol. 59, No. 2, pp. 107-112.

Compensatory developmental interactions in the size of permanent teeth in three contemporary populations

Samir E. Bishara, BDS, DDS, D Ortho, MS;^a Jane R. Jakobsen, BS, MA

^aDepartment of Orthodontics, College of Dentistry, Iowa City, Iowa 52242

ABSTRACT

The purpose of this study was to determine whether developmental interactions exist between the mesio-distal diameters of the first and second developing teeth in each of two morphologic tooth classes. The interactions were evaluated for the maxillary and mandibular incisors and premolars. Measurements were obtained on the dentitions of three contemporary samples from Iowa, Egypt and Northern Mexico.

The findings from this study indicate that developmental interactions are present in the mesio-distal diameters between the first and second developing teeth within the two morphologic tooth classes evaluated, namely incisors and premolars. In other words, the mesio-distal diameter of the first developing tooth significantly influences the size of the second developing tooth within the same morphologic class.

Samir Bishara is a Professor in the Department of Orthodontics, College of Dentistry, University of Iowa

Jane Jakobsen is a Biostatistician in the Department of Preventive and Community Dentistry at the University of Iowa

KEY WORDS: Mesio-distal tooth size, Developmental interactions.

© Copyright by E. H. Angle Education and Research Foundation, Inc. 1989