

Craniofacial morphology of skeletal class III malocclusion in two different age groups

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Introduction: The purpose of this study was to investigate the different components of skeletal class III, and its relative growth transformation in the three dimensions of space.

Materials & Methods: The sample of skeletal Class III included 79 individuals; 41 in mixed dentition stage, and 38 in permanent dentition stage. The control group included 83 individuals; 40 in mixed dentition stage and 43 in permanent dentition stage. Lateral and postero-anterior films were taken for each individual and then digitally analyzed and planned measurements were performed.

Results: Among skeletal Class III types, combined maxillary retrusion and mandibular protrusion showed the highest percentage of incidence and normal vertical growth pattern showed the highest incidence. Mandibular rotation didn't increase with age in skeletal Class III individuals. Transverse dimensions of the mandible of skeletal Class III individuals had no correlation with the antero-posterior discrepancy.

Conclusions: Treatment of skeletal Class III cases is recommended in the early mixed dentition stage with big emphasis on the antero-posterior dimension.

Biography

Angie Salah Abu Taleb is an Orthodontist. He has been practicing dentistry since November 2006. He worked as a Teaching Assistant at Modern Sciences and Arts University and 6 October City, Egypt from November 2007 till September 2012. He is currently working as an Assistant Lecturer at the Ahrum Canadian University; 6 October City; Egypt since March 2014 and as an Orthodontist at Senan Dental Clinic; 6 October/Egypt. He received the Bachelor Degree of Dental Sciences in June 2006. He was a resident at the Orthodontic clinic at El kasr El Einy Hospital /Cairo University from February 2009 till September 2013. He earned the MSc of Clinical Orthodontics and Dento-facial orthopedics in December 2013 from the faculty of Dentistry, Cairo University.

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