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Balanced Smile: A perspective for orthodontic treatment planning

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Facial esthetics has been the most important objective of orthodontic treatment planning. Smile characteristics are determined by static and dynamic relationships between hard and soft tissue components of face. The objective of the present study was to evaluate the balanced smile using different hard and soft tissue parameters. A total of 50 participants equally divided into two groups i.e. males and females, ranging in age from 18–25 years with Angle's Class 1 molar relation were selected. Photographic records of smile and rest position were measured and analyzed at rest and during smile, to assess upper lip length, maxillary incisal display, upper vermilion length, intercommissural width and smile arc. Results obtained from both the groups were subjected to statistical analysis and correlations between smile variables were investigated. Most of the measured variables showed statistically significant sexual dimorphism. Statistically significant results were seen in relaxed upper lip length, relaxed central incisor display, relaxed vermilion length, smiling upper lip length and smiling vermilion length. Resting inter commissural width, smiling central incisor display and smiling inter commissural width were found to be statistically non-significant. Upper lip length and vermilion length in smiling and resting conditions had same pattern. Increased incisal display was more evident in subjects with short upper lip. Parallel smile arc and flat smile arc distribution was more common in females subjects whereas reverse smile arc was seen in male patients only.

Biography

Dr. Harvinder Singh has completed his BDS at the age of 26 yrs from Maharishi Markandeshwar University, Mullana, India. At present he is a final year Post Graduate student in the Department of Orthodontics and Dentofacial Orthopedics, Maharishi Markandeshwar University, Mullana, India. He has presented a clinical poster and a scientific paper at IOS PG Convention at Amritsar and Banaras respectively and one poster at annual conference of Indian Society of Cleft Lip Palate & Craniofacial Anomalies.

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