

DISCUSSION:

Cephalometric information is of utmost importance in the correct diagnosis and proper treatment planning of orthodontic cases. Incorrect diagnosis will lead to an inappropriate treatment plan and hence, untoward results that will cause dissatisfaction for the patients or their parents.(7) Most commonly used measurement for the anteroposterior jaw relationship is the ANB angle. This angle is based on a cranial reference plane in relation to points A and B (maxilla and mandible, respectively).(8) However, a number of reports showed that the ANB angle is not consistent even when the inter-maxillary relationships are unchanged. Several factors were suggested to affect this angle, such as age, spatial position of N point, the upward or downward rotation of the jaw or the SN line, SN plane change in relation to Orthodontic diagnosis and treatment planning are largely driven by cephalometric information.(9) The Wits appraisal was introduced to prevent such errors. It provided adequate anteroposterior measurement for skeletal disharmony of the jaw because the reference plane used is neither a cranial nor an extra-cranial plane, but it is a common plane to both dentures, the occlusal plane. However, this plane was observed to be concave in many subjects.(10) Therefore, Jacobson recommended that the most suitable and convenient method of standardizing the plane of occlusion was to join the midpoint of overlap of the mesiobuccal cusps of the first molars and the buccal cusps of the first premolars (functional occlusal lane). Since Wits values were shown not to be affected by age, it was critical to evaluate other variables such as gender, which may affect

the normal skeletal, dental, and soft tissues characteristics of an individual.(11) Therefore, identifying the normal features of a specific gender, is considered important for proper diagnosis and treatment planning, and hence, the need for gender and ethnicity specific norms.

CONCLUSION:

There is no significant difference in the wits appraisal between the two genders.

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