

## ***E-Babe Predictors of favorable and unfavorable soft tissue profile outcomes after Clark's Twin-Block appliance therapy in class II subjects: An analytical cross-sectional study***

Aqeel Ahmed

The Aga Khan University Hospital, Pakistan



### ***Abstract***

**I**ntroduction: Clark's Twin-Block (CTB) functional appliance is commonly used to treat mandibular deficiency in skeletal class II growing patients. This study was conducted to identify cephalometric predictors for favorable and unfavorable soft tissue profile outcomes with CTB treatment.

**Materials and Methods:** Using the pre and post-treatment lateral cephalograms of 50 patients treated with CTB, profile silhouettes were traced and evaluated by a panel of orthodontists in order to determine the extent of improvement. Subjects were divided into favorable (upper 30% of visual analogue scale [VAS] scores, n = 18) and unfavorable (lower 30% of VAS scores, n = 18) groups. Cephalometric skeletal and soft tissue measurements were then compared between the groups using the independent t-test. Logistic regression analysis was performed to identify cephalometric predictors of favorable and unfavorable outcomes.

**Results:** The independent t-test showed statistically significant differences for pre-treatment values between favorable and unfavorable groups for anterior facial height, ANB angle, SN to mandibular plane angle, pogonion to nasion perpendicular distance, lower incisor to pogonion distance, upper lip to E and S lines ( $p \leq 0.05$ ) and lower lip to E and S lines ( $p \leq 0.001$ ). Multivariable logistic regression analysis found lower lip to E line and pogonion to nasion perpendicular distance ( $p \leq 0.05$ ) significantly associated with favorable soft tissue profile outcome.



### ***Biography:***

Dr. Aqeel Ahmed has completed his BDS at the age of 23 years from Bolan Medical College Quetta Pakistan. He is

postgraduate resident in the department of Orthodontics, The Aga Khan University Hospital Karachi Pakistan. He is trainee of Dr. Mubassar Fida who has published more than 70 papers in reputed journals and is member of American association of orthodontics and European orthodontic society

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