



## SHRI DHARMASTHALA MANJUNATHESHWARA UNIVERSITY, DHARWAD, KARNATAKA

TO EVALUATE AND COMPARE THE SMILE ATTRACTIVENESS PARAMETERS IN PATIENTS TREATED WITH CONVENTIONAL BRACKETS AND SELF-LIGATING BRACKETS BEFORE AND AFTER ORTHODONTIC TREATMENT- A COMPARATIVE STUDY

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## ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

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## **ABSTRACT**

TO EVALUATE AND COMPARE THE SMILE ATTRACTIVENESS

PARAMETERS IN PATIENTS TREATED WITH CONVENTIONAL

BRACKETS AND SELF-LIGATING BRACKETS BEFORE AND

AFTER ORTHODONTIC TREATMENT- A COMPARATIVE STUDY

BACKGROUND AND OBJECTIVE: Smile attractiveness is the most important factor in facial aesthetics. Different smile parameters has to considered while treating with patients to attain a good aesthetics and balance face. So this study aims to evaluate and compare smile attractiveness parameters of pre and post treatment in patient treated with conventional bracket and Self ligating brackets.

MATERIALS AND METHODS: Study was conducted using pre-treatment and post-treatment photographs of 44 patients who reported to the department of Orthodontics and Dentofacial orthopaedics at SDM college of Dental science. Twenty two patients treated with conventional brackets and twenty two patients treated with self ligating brackets. Patients were asked to give a pleasing, very natural smile. Using a digital camera with a standard built in flash, a color standardized frontal view photographs of smile were taken. Photographs were cropped in adobe photoshop 7 to view a lower third faced. Then they were transferred to a Digimizer image software to assess the parameters. Parameters considered were intervermiion distance, interlabial gap, maxillary gingival display, maximum incisor exposure, Intercanine width, width of visible teeth, Buccal corridor space, Lower lip to incisor. These parameters were evaluated and compared.

**RESULTS:** There is no significant changes in pre treatment to post treatment of all parameters observed in conventional bracket system. Significant increase was seen in the

intercanine width, width of visible teeth and and decreased buccal corridor space width observed in self ligating bracket system.

**CONCLUSION:** The conventional and self ligating bracket systems were found similar with regard to the interlabial gap, intervermilion distance, maxillary gingival display, maximum incisor exposure and lower lip to incisor parameters.

Significant changes observed in Intercanine width, buccal corridor space and width of visible tooth between conventional and self-ligating bracket system.

KEY WORDS: smile attractiveness parameters, self ligating, conventional brackets