

THE NEW "W" IN ESTHETIC ORTHODONTICS - CASE REPORT

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INTRODUCTION

It is a well documented fact that midline diastema is the most common aesthetic concern in adults. They seek treatment mainly for cosmetic reasons and opt for aesthetic treatment options like • clear brackets • lingual orthodontics • invisalign. However, the unpleasing appearance of brackets, long duration and high costs are still a concern. Thus, this is a case presentation of a spring devised for the closure of a diastema aesthetically.

CASE PRESENTATION AND PATIENT EVALUATION

CHIEF COMPLAINT



A 23 year old female complains of midline diastema.

EXTRAORAL EXAMINATION



Symmetrical Face
Mild Convex Profile
Prominent Chin
Good Facial Aesthetics

INTRA ORAL EXAMINATION



2mm Midline Diastema
A Mild Class III Molar Relationship
Slight Mesio palatal Rotation Of Maxillary Canines
Upper Incisor Exposure
Satisfactory On Smiling



SPRING DESIGN AND METHODOLOGY



- 'W' shaped spring with two gingival coils
- .014" stainless steel (A J Wilcock) wire
- Loops directed distolabially
- Resists the distopalatal rotation of incisors
- Vertical arms to prevent mesial tipping
- Begg brackets on palatal surface



RESULTS

PRE- OPERATIVE



- Midline diastema closed completely
- Duration - 4 weeks
- A single activation
- Very mild tipping
- No rotation of teeth

POST- OPERATIVE



WHY THE PALATAL "W" SPRING?

- Prefabricated, saves clinical time
- Good control on tooth movement
- Short duration, non-invasive, economic
- Excellent aesthetic and efficient method
- Mesialisation of central incisors
- Cosmetic restoration of microdontic lateral incisors possible

However, closure of the diastema results in spacing between the central and lateral incisors, hence making the spring extremely case specific. In this case, the space was utilised by the derotation of the canines using an essix plate which was further used as an aretention plate for a period of 6 months.