

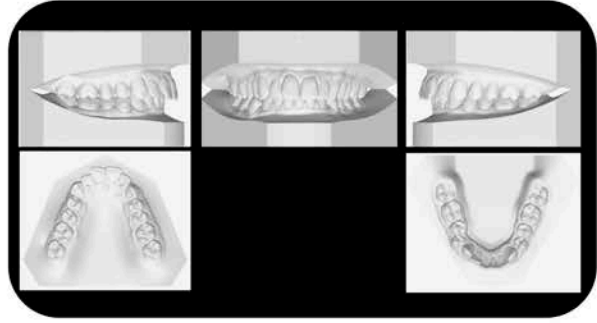
AESTHETIC ORTHODONTIC TREATMENT WITH F22 ALIGNERS: A CLASS II SUBDIVISION RESOLUTION

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AIM: Aesthetic treatment of a Class II subdivision associated with crowding and dental cross-bite using F22 Aligners.



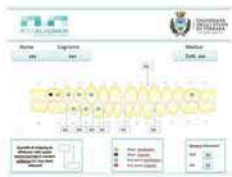
INTRODUCTION: The number of patients requiring aesthetic treatment is constantly growing. For this reason aligners must be able to resolve an increasing number of different types of malocclusion.



DIAGNOSIS: 22-year-old male with Skeletal Class II, hyperdivergent pattern, Class II subdivision, midlines that do not coincide and are not facially centred, and dental cross-bite at tooth 4.4.

GOALS OF TREATMENT: Correction of class relationship, crowding and dental cross-bite.

ALTERNATIVE TREATMENT: Extraction treatment of 2 or 4 premolars with differentiated anchorage control.

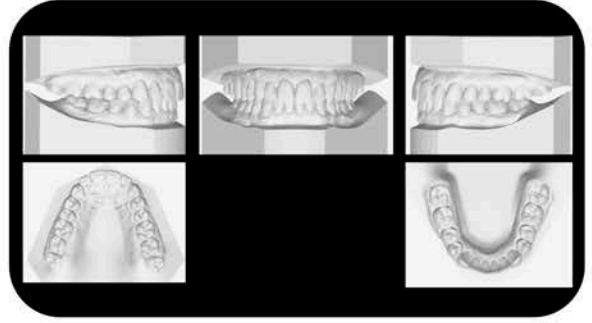
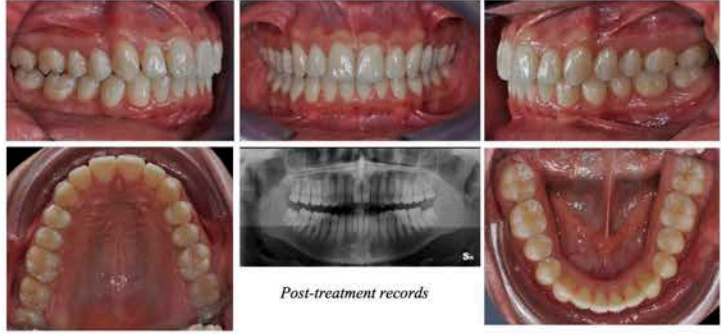


RESULTS AND DISCUSSION: The F22 aligners resolved the malocclusion within a treatment time comparable to conventional fixed appliances. The treatment goals were achieved after 14 months of active aligner therapy and involved the use of 20 pairs of aligners in the first phase, and 3 pairs in the finishing stage, making a total of 23 aligners for each arch. Results were optimised through buccal and lingual grip points, divots and the use of elastics.



VARIABLE	T1	T2	Ref Value
SNA °	77.3	76.6	82.0
SNB °	73.6	75.0	80.0
ANB °	3.7	3.6	2.0
A-Na Perp (mm)	-3.7	-1.7	0.0
Pg-Na-Perp (mm)	-10.8	-9.5	-4.0
Wits (mm)	1.9	1.0	0.0
FMA °	31.7	30.9	26.0
MP-SN °	41.2	40.7	33.0
Palatal-Mand Angle °	28.9	29.0	28.0
PP-OP °	6.5	6.7	10.0

VARIABLE	T1	T2	Ref Value
PP-OP °	6.5	6.7	10.0
Mand Plane to Occ Plane °	22.1	22.3	18.6
U1-APo (mm)	12.6	9.8	6.0
L1-APo (mm)	6.8	7.2	2.0
U1-Palatal Plane °	117.4	113.1	110.8
U1-Occ Plane °	56.1	60.2	59.0
L1-Occ Plane °	62.8	61.8	72.0
IMPA °	95.1	95.9	95.0
Overjet	5.6	2.6	2.5
Overbite	4.7	2.1	2.5



CONCLUSION: F22 aligners in combination with such auxiliaries are effective means of solving orthodontic issues such as Class II malocclusion, dental cross-bite and crowding.