Adult Functional Class III : Clinical Case

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Clinical case description

41 year old male patient with no relevant clinical history, arrrived to the office presenting an apparent skeletal class III. After the clinical exam with correct mandibule manipulation, the patient reached a class I edge-to-edge occlusion. The treatment plan was started by using na occlusal splint in centric, to do a neuromuscular deprogramming for 12 months. After that time, an articulator montage and cephalometric study was done. The patient was then informed that the treatment would take roughly 30 month. Initially he would only wear braces in the upper jaw (for 6 months) and then in the lower jaw. He was equaly informed that, dispite this treatment, he could still need na ortognatic surgery.



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Fig.1 – Panoramic radiography

evolution throughout the treatment.





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Fig. 4 – Resumed Ricketts cephalometric layout.

Fig. 5 – Visual treatment analysis (VTO).

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Discussion

The Class III malocclusion is characterized by an inadequate anteror and posterior dental relationship, which may or may not

be accompanied by skeletal changes. In general, the facial aspect is very committed, especially when associated with disability in the middle third, and this, in most cases, is the main factor that motivates the patient to seek orthodontic treatment. The diagnosis and treatment plan in malocclusion Class III difers do to the predominance of a functional component. The patient must always be informed of the duration of the treatment, and still with the possibility of needing orthognathic surgery after treatment, depending on the progression of the case.

Conclusion

The resulting treatment was satisfactory, both functionally and aesthetically. The unwinding of crossbite was possible. The midline alignment with stable occlusion was possible and the patient features good symmetry and adequate exposure of the upper incisors.

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