

Claudia LAUDADIO, Nicole DE LEONARDIS, Filippo CARDARELLI, Daniela DI VENERE, Francesco INCHINGOLO

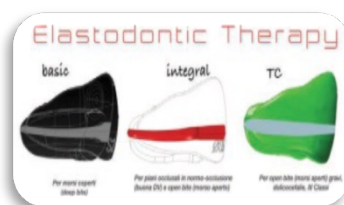


Complex Operative Unit of Odontostomatology Director: Prof. G. FAVIA,
 Specialization School in ORTHOGNATODONTICS Director: Prof. F. INCHINGOLO,
 Interdisciplinary Department of Medicine D.I.M. University of Bari "Aldo Moro", Bari, Italy

EARLY TREATMENT OF CLASS III MALOCCLUSION WITH ELASTODONTIC THERAPY

AIM:

A.M.C.O.P.[®] (*Armonizzatore Multifunzionale Cranio-Occluso-Posturale*, Cranio-Occlusion-Postural Multifunctional Harmonizer) appliances are individualized elastodontic devices indicated for dis-functional disorder. Tongue is guided on the palate, muscles are stretched and skeletal growth become harmonious with A.M.C.O.P.[®]. Model TC provides the maxillary advancement and stop the mandible growth through an anterior sliding plane. The aim of this study was to illustrate two cases with anterior crossbite during the primary dentition treated with A.M.C.O.P.[®] TC.

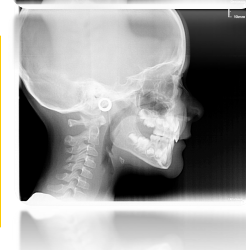


MATERIALS AND METHODS:

Two female patients, 3 and 4 years old, presented dento-skeletal malocclusion of Class III during the deciduous dentition, maxillary transverse deficiency and complete anterior crossbite in the first case, partial crossbite in the latter.

Treatment plan provided the use of A.M.C.O.P.[®] TC without getting impressions.

The active phase lasted 6 months and the appliance was worn all night and 1 hour daily. 10 months of contention at night was followed.



RESULTS:

After 6 months dento-skeletal Class I was gained by maxillary advancement.

The correction of malocclusion in short time was due to bone plasticity at that time.

Early treatment can eliminate occlusal interferences and simulates correct skeletal growth, taking advantage of the active proliferation phase of the suture at that stage.

CONCLUSIONS:

The A.M.C.O.P.[®] devices represent an innovative approach to treat dento-skeletal malocclusion in simple, efficient and not invasive way in the primary dentition.

References

1. Cardarelli F., Il Trattamento Funzionale elastodontico con apparecchi AMCOP : Funzione, Estetica e postura. Dental Tribune, Italian Edition, Giugno 2019
2. Cardarelli F., Il Trattamento Funzionale elastodontico con apparecchi AMCOP : Funzione, Estetica e postura. Dental Tribune, Italian Edition, Giugno 2019
3. Cardarelli F., Pascetta R., Estetica Dentale Eccellente, Quintessenza Odontotecnica 2017; 2
4. Aranitis L., Influence of skeletal class in the morphology of cervical vertebrae: A study using cone beam computed tomography. Angle Orthod. 2016 Aug 11.