

NEW PROSPECTIVES USING THE DISTRACTION OSTEOGENESIS for the orthognatics surgery

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**SUMMARY :** The Authors describe the orthodontic - surgical therapy for patients affected by skeletal disorders of both jaws complicated by severe dental crowding with unfavourable dental position in association with the classical and alternative ostetomies. To evaluate the results in adults, patient with similar anomalies were comparated each other and the aesthetic results were pulled out. The time ratio was the second parameter of evaluation. The medium term follow up, was accomplished pre and post operative, using X Rays, the long term follow up is in progress. Class III patient with bilateral crossbite and inferior crowding were treated with the well described pre post orthodontic surgical treatment and compared with patients treated in one or two stapes combining S.A.R.P.E. and D.O. of the Anterior Alveolar Process (D.O.A.A.P.) for anterior mandible crowding and the unfavourable relation between dento-alveolar area and skeletal base. The method described by Triaca involves the gradual repositioning of the anterior alveolar segment using D.O. with two interdental osteotomies and an horizontal sub apical osteotomy to connect both of them. The stability was obtained with a mini plate with a joint screwed to the bony segment that allow the movement using an orthodontic appliance tooth burning screw . Class II patients Adults with  $Ovj > 5$  mm were treated with bilateral Upper bicuspids extraction and compared with adults treated with D.O.A.A.P.; and adults with mandible retrusion with  $Ovj < 5$  mm were treated with BSSO and Multiaxial D.O. (D.O.3D.) using an intraoral device to elongating the bony and surrounding structures (Orthognathics GmbH CH). The results appears more favourable using the innovative system than the classical one.

Aesthetically the result seems to be more harmonious and the medio term stability give more safety, demonstrate also with syndromic patient like . The active treatment time using D.O. decreased dramatically in comparisons with the classical one and D.O. generally can improve the aesthetics results and the most required treatment options