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Ancient and Modern - Surgery Meets Technology

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Mini **Programme**

TWIN IMPLANTS AND DISTAL OSTEOINTEGRATION: AN INNOVATIVE IMPLANTOLOGICAL APPROACH TO THE TREATMENT OF ATROPHIC JAWS

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AIMS: The authors describe a new implantological methodology for the treatment of atrophic jaws without the need of any reconstructive surgical procedures. The mechanical connection between several fixtures ("twin implants") by rigid fixation carries out the so-called "distal osteointegration".

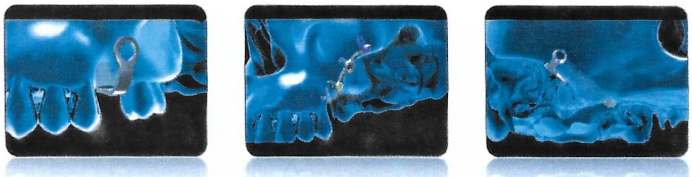
METHODS: The joining of several components (fixtures, locking plates and abutments) produces customized implants that connect osteointegrable anatomical sites (singly unusable). Piezo electrical preparation is preferred and surgical-prosthetic timing provides both deferred and immediate loading.

RESULTS: The upper jaws atrophy in partially or totally edentulous patients was tested in several clinical applications. Radiological and clinical evidence showed a correct osteointegration of endosseous components (fixtures) and a perfect tissue integration of superficial elements (locking plates).

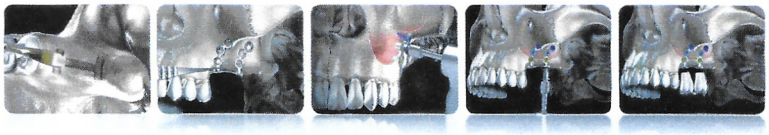
CONCLUSIONS: The implants can be connected with: dental prostheses; cranio-facial epitheses; osteodistractors; orthognatic devices etc. Further experimental and clinical studies are needed to confirm the current excellent results due to the method' s originality and the short follow-up.

The various components of the system

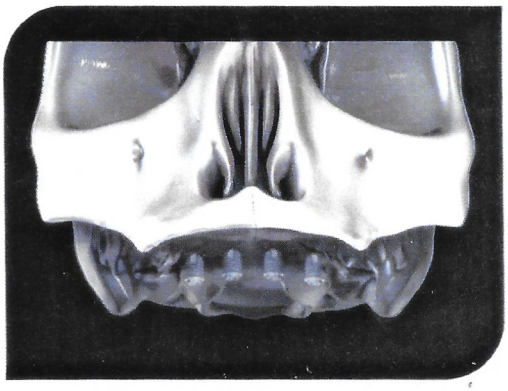
A few types of assembly of the components



Surgical simulation in mono-edentulism with atrophy



Surgical simulation with double plate in the atrophic posterior maxilla

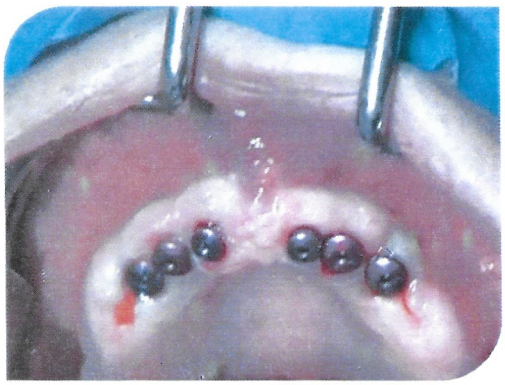


⇦ SURGICAL ANIMATION

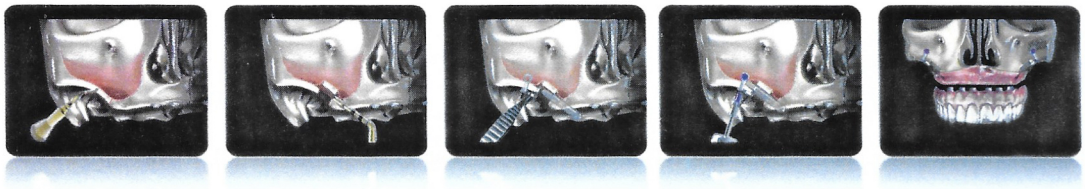
and

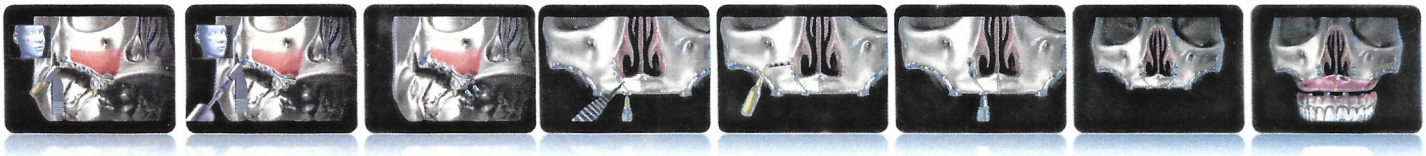
REAL SURGERY ⇨

of the **zigomatic** approach in the atrophic upper jaw



Simulation of the surgical procedure with "**Mini Zygo**" technique





Simulation of the surgical procedure with "**Zygo-Nose**" technique

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