

Pterygoid and Hard-tilted Implants with Bi-Conometric Connection

Poster Competition

Dr Alessandro GRECO *Private practice, Como, Italy*

Background

Traditionally, oral implant procedures were often invasive, requiring extensive bone grafting and substantial healing periods. However, advancements in implant design, materials, and techniques enable minimally invasive approaches, improving patient comfort and recovery times.

Case presentation

Pterygoid implant and pre-antral hard-tilted implants allowed to avoid major regeneration in a patient with chronic sinusitis.

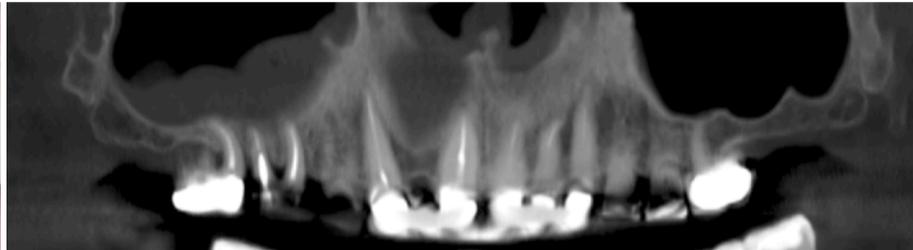
Excellent implant primary stability favoured immediate loading (AoN Implants, Vicenza, Italy). Morse taper 1.5° implant connection and conometric 4° abutment are key factors for the excellence stability over time.



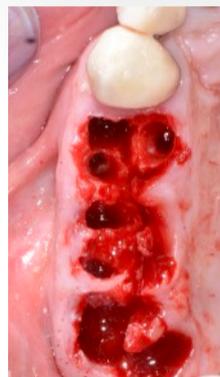
Failing 1° sextant. Missing 2° bicuspid.



Clinical view.



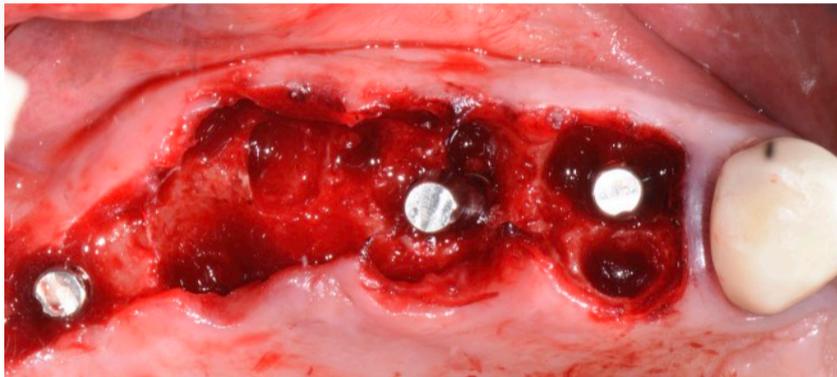
CBCT scan. Chronic sinusitis in right maxilla.



Socket Shield of 1.4 (3-rooted).



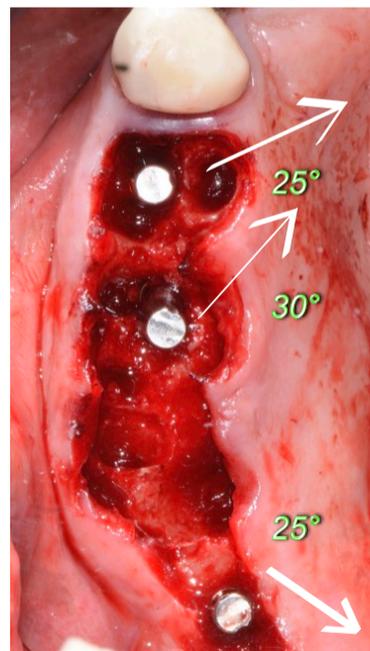
Surgical stent.



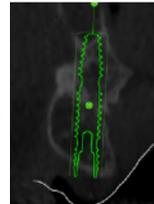
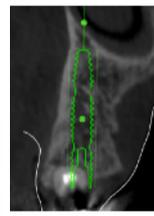
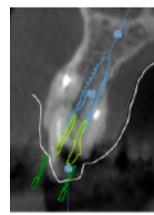
One time abutment connection.



Checking parallelism.



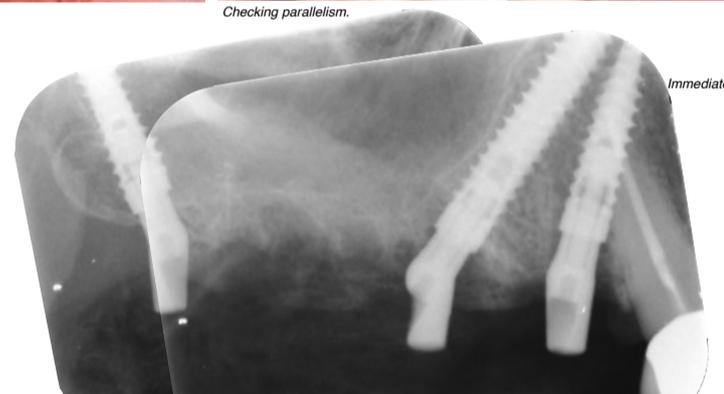
Up to 30° angulation correction.



Abutment height.



Immediate prosthesis with customized 3-D printed glass fiber reinforce.



Immediate.



9-months follow up.



Soft tissue integration



No tooth on pterygoid implant.



9-months follow up.

Conclusions

The progressive reduction in invasiveness in oral implantology with tilted and remote anchorage implants like pterygoids, revolutionized the field, leading to improved patient experiences and better treatment outcomes. Conometric connections play a crucial role in this transformation, offering exceptional mechanical stability.

Bibliography

Piattelli, D'Ercole et al. Microleakage of bacteria in different implant-abutment assemblies: an in vitro study. J Appl Biomater Funct Mater. 2015
Mangano et al. Prospective clinical evaluation of 1920 Morse taper connection implants: results after 4 years of functional loading. Clin Oral Implants Res. 2009