

Significantly increased soft tissue thickness around NobelActive® TiUltra™ and On1™ Base Xael™ after 1 year

Clinical relevance

Excellent soft tissue response

Robust regeneration of the papilla, increased soft tissue thickness and keratinized mucosa height.

Stable soft tissue health

Improved bleeding index and stable gingival index from prosthetic delivery to 1 year.

Stable marginal bone levels

Following the initial remodeling.



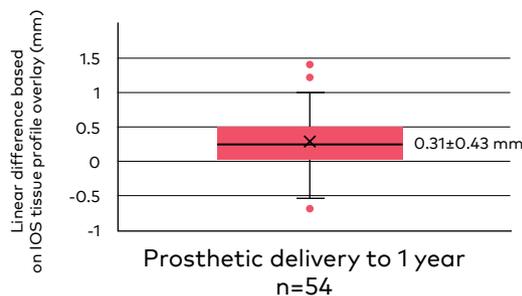
Presented by Dr. Giacomo Fabbri at EAO 2022, Geneva
Soft tissue health at novel two-piece anodized abutments: 1-year results. Giacomo Fabbri, Giorgio Ban, Hyun-Chang Lim, Kwantae Noh. **Volume 33, Issue S24** Special Issue: 29th Annual Scientific Meeting of the European Association for Osseointegration

The results

- Increased soft tissue thickness, and increased keratinized mucosa height from 3.7 mm at implant insertion to 4.0 mm at 1 year.
- Improved bleeding index from 85% of sites showing no bleeding at prosthetic delivery, to 96% at 1 year.*
- Robust papilla regeneration with 77% of the sites having full papilla height, and 19% more than half at 1 year.*
- Healthy gingiva surrounding the crown at 93.4% of sites at prosthetic delivery and 92.9% at 1 year.*
- The mean marginal bone level decreased from -0.04 mm at implant insertion to -1.12 mm at prosthetic delivery and increased to -1.08 mm at 1 year.

* Data on file

Coronal migration of the mucosal margin



Mid-buccal tissue profile (representative case from study)



Study design

Prospective, single-center clinical study, interim results



Single-tooth restoration in healed premolar and molar



61 patients



61 NobelActive TiUltra implants and On1 Base Xael



61 screw-retained restorations (43 NobelProcera®)



1 year from prosthetic delivery

Sample clinical case from the study



Images courtesy of Dr. Giacomo Fabbri, Italy

Clinical views and periapical radiographs at indicated time points. A 51-year-old male patient, non-smoker with a missing first molar tooth in the maxilla (FDI position 16) received NobelActive TiUltra RP 5.0 x 8.5mm. Following the digital impression, an On1 Base Xeal and an On1 Healing Cap were placed on top of the implant. The final prosthesis was delivered 3 months later and consisted of an On1 Universal Abutment and a NobelProcera full-contour zirconia crown. Note the marginal bone level stability and improvement of soft tissue health throughout the follow-up.

Authors' conclusion

"The significant increase in tissue thickness, excellent soft tissue health and marginal bone level gain after the initial remodeling indicate that the novel anodized surfaces of implants (TiUltra) and abutments (Xeal) combined with undisturbed soft tissue healing promote excellent peri-implant tissue response."

More to explore



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Blog-Interview with
Tomas Albrektsson
and Ana Ferro



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