

# Excellent peri-implant tissues with Xeal™ and TiUltra™ surfaces for All-on-4® treatment concept

## Clinical relevance

### 100% cumulative survival rate

No implant and no prosthetic failure after up to 3-year follow-up

### Excellent bone response

from implant insertion to 1 year

### Healthy soft tissue

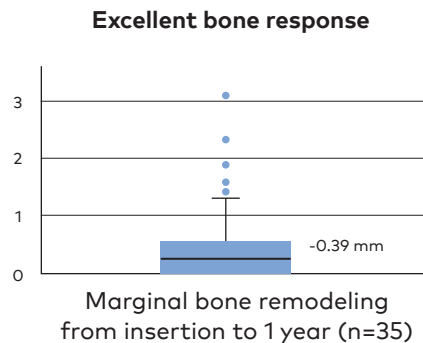
No biological complications, and low modified plaque and bleeding indices



All-on-4 concept using TiUltra surface implants and Multi-unit Xeal abutments: Report on the outcomes between 6 to 36 months. Ana Ferro, Miguel De Araújo Nobre. Presented at the The European Association for Osseointegration (EAO) meeting September 28-30, 2023, Berlin, Germany

## The results

- 100% implant survival and prosthetic success after up to 3-year follow-up.
- Low marginal bone remodeling of -0.39 mm from implant insertion to 1-year follow-up (n=35).
- Low modified plaque and bleeding indices of 1 for all patients at the last follow-up.
- No biological complications.
- Only minor mechanical complications occurred, in 9 of 43 patients. These were resolved by repair of the prosthesis in the laboratory, retightening the abutments and occlusion adjustment.



## Study design

Retrospective, single-center clinical study



Fully edentulous



43 patients



172 NobelParallel CC TiUltra and Multi-unit Abutments Xeal



43 fixed full-arch prostheses



Up to 3-year follow-up

## Sample clinical case from the study

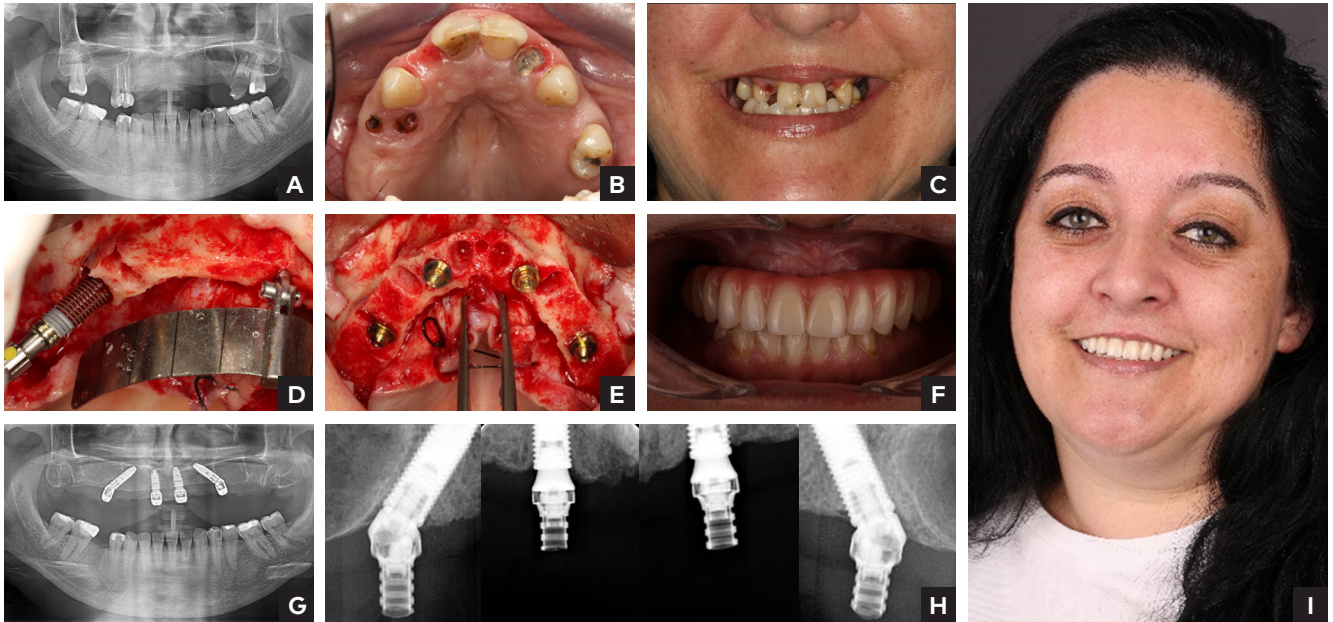


Image courtesy of Dr. Ana Ferro, Portugal

**A/E** A 46-year-old female patient, smoker, with failing dentition and a high smile line was treated according to the All-on-4® treatment concept with four NobelParallel CC TiUltra implants and Multi-unit Abutments Xeal. **F** Patient received all-acrylic bridge 2 hours after surgery. **G/H** Analysis of OPG at 1 year, and peri-apical radiographs at 3 years show excellent peri-implant bone stability. **I** Patient smile

## Authors' conclusion

**"Full-arch rehabilitations *ad modum* All-on-4® treatment concept using gradually anodized dental implants [TiUltra] and anodized abutments [Xeal] demonstrate low marginal bone loss and healthy soft tissue response during a 23-month follow-up."**

## More to explore



Science First –  
All-on-4®  
treatment concept



Blog-Interview with  
Tomas Albrektsson  
and Ana Ferro



[nobelbiocare.com/all-on-4](https://nobelbiocare.com/all-on-4)

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