





### **Patient**

57-year-old, female, no health problems, good oral health

## **Clinical situation**

Patient seeking restoration of a healed premolar and molar site following extraction, with a single dehiscence defect.

## Surgical solution

NobelPearl™ Tapered dental implant system RP 4.2 x 10 mm

#### **Restorative solution**

NobelPearl Abutment Straight Inter-X RP 1 mm with splinted monolithic zirconia crowns

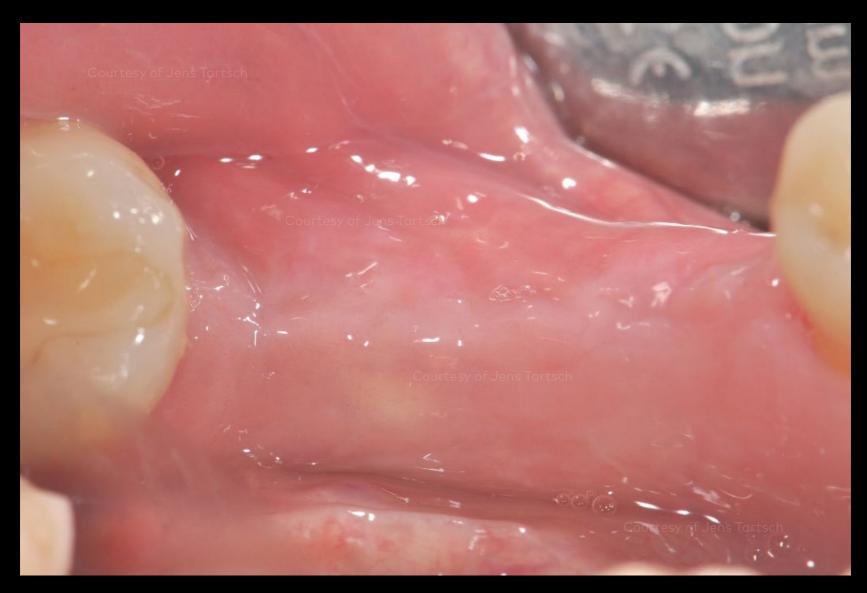
**Surgery date**July 2018

**Total treatment time** 4 months

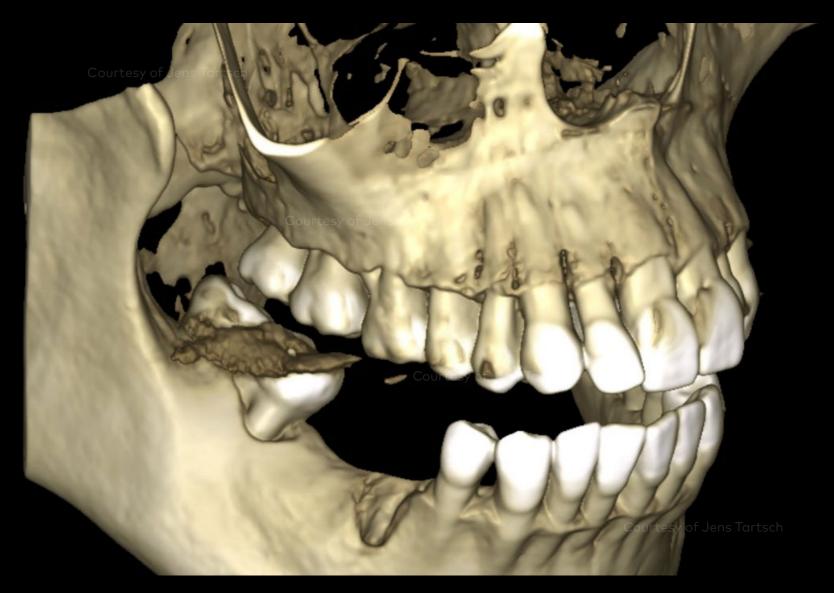
**Tooth position** 45, 46 (FDI system)

"Handling of the NobelPearl implant is easy, and the outcome is clinically reliable. These are the most important factors for a successful integration of ceramic implants in daily dental practice."





Healed site following extraction of teeth in positions 45 and 46, 3 months and 1 year before surgery, respectively.

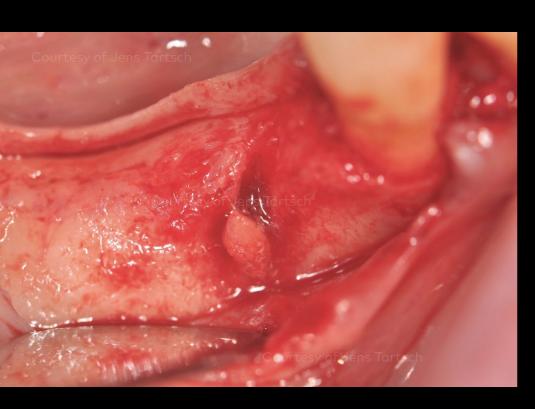


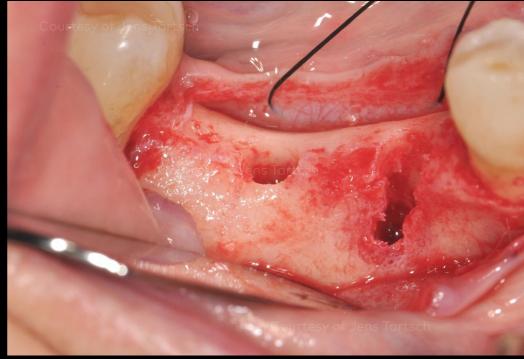
Presurgical cone beam computed tomography showed lateral defect near tooth position 45.

Surgical procedure

Restorative procedure

Outcome





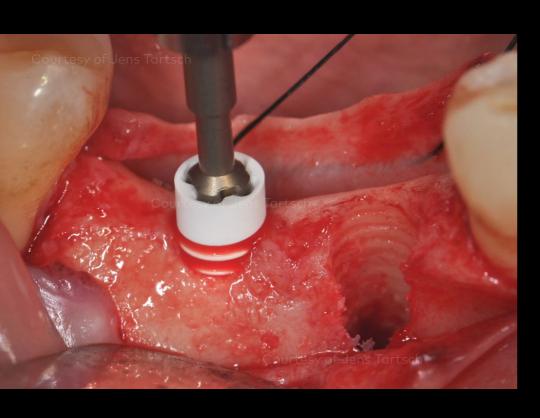
Cleaning of the alveolar bone at tooth position 45.

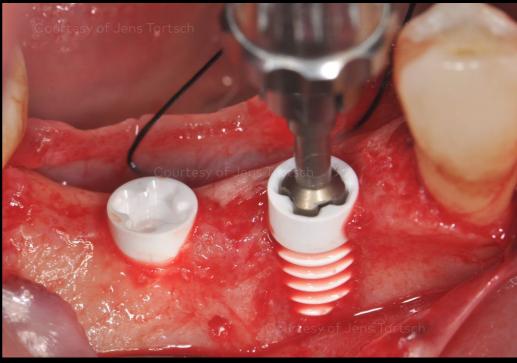
Suitable bone for implant insertion at tooth position 46, and lateral defect at position 45.

Surgical procedure

Restorative procedure

Outcome





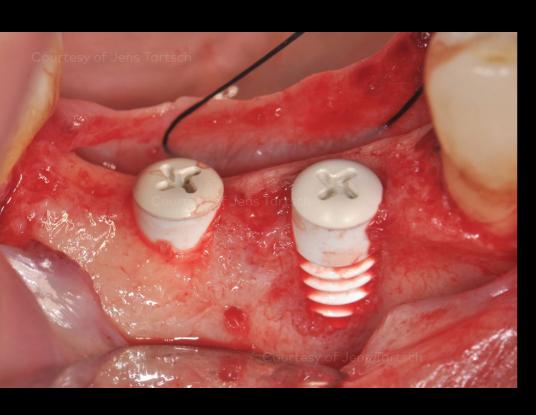
Manual insertion of NobelPearl Tapered RP 4.2 x 10 mm using NobelPearl Implant Driver Inter-X following preparation of both sites.

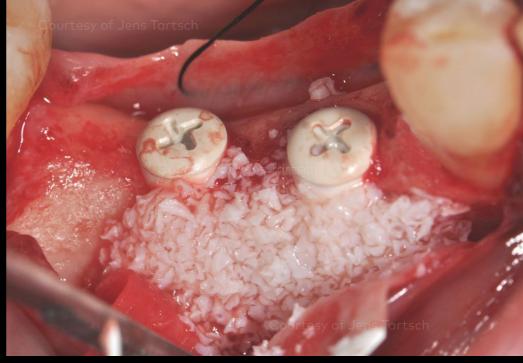
Both implants with partially machined collar were inserted 0.6 mm supracrestal. Primary stability was good.

Surgical procedure

Restorative procedure

Outcome



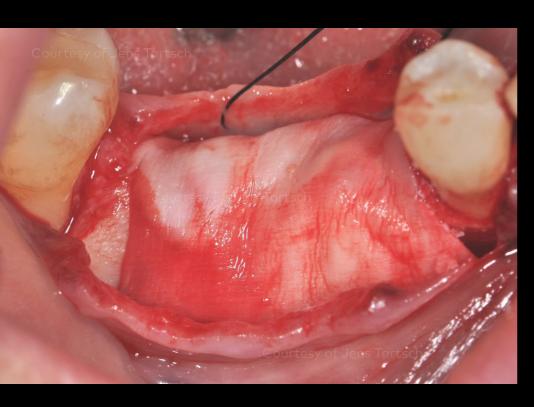


NobelPearl Cover Screw Inter-X in situ.

Horizontal augmentation using deproteinized bovine bone.

Surgical procedure

Restorative procedure





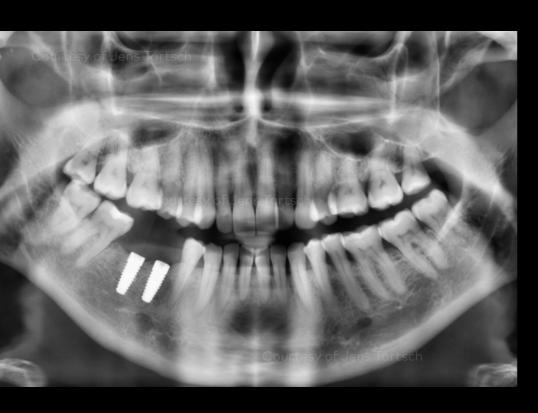
Implants covered with a resorbable collagen membrane.

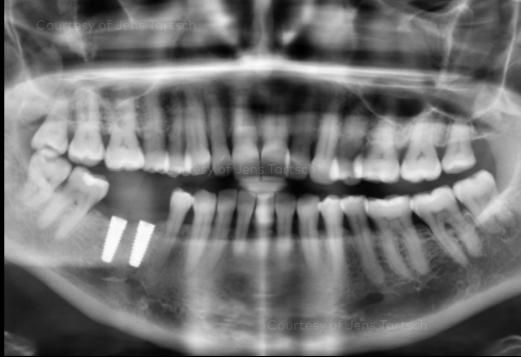
With a two-piece implant system, primary wound closure is possible.

Surgical procedure

Restorative procedure

Outcome





Orthopantomogram (OPG) at surgery.

3-month post-surgical OPG control, before restorative procedure.

Surgical procedure Restorative procedure

Outcome





Re-entry after 3 months for placement of two NobelPearl Healing Abutment Inter-X, with a small roll flap.

Soft tissue two weeks after re-entry.

Surgical procedure

Restorative procedure

Outcome



NobelPearl Impression Coping Open Tray Inter-X placed on implants and splinted for precision.

Surgical procedure

Restorative procedure

**Outcome** 





NobelPearl Abutment Straight Inter-X placed on the master cast with gingiva mask.

Monolithic zirconia crowns placed on the master cast. For stability and because of the augmentation at position 45, the crowns are splinted.



Final restoration and abutments before insertion.

Surgical procedure

Restorative procedure

Outcome





Healthy and thick keratinized peri-implant mucosa seen following removal of the NobelPearl Healing Abutment Inter-X.

Try-in of the NobelPearl abutments.

Surgical procedure

Restorative procedure

Outcome





The screw channels were sealed with Teflon, and abutments prepared for cementation.

Restorations cemented to the abutments.

Surgical procedure

Restorative procedure





After cementation, Teflon can be removed through the screw channel.

The final restoration was taken out of the mouth for cleaning.

Surgical procedure

Restorative procedure

Outcome





For the final installation of the restoration the VICARBO® screw is torqued at 25 Ncm and the screw channel is closed again with Teflon band.

Final restoration in situ after screw channel closure and sealing with composite to produce a 100% metal-free screw-retained restoration.

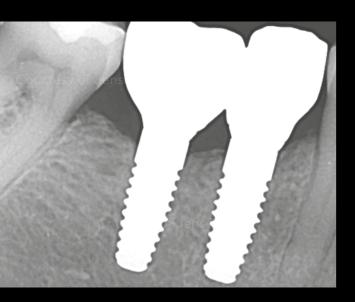
Initial clinical situation

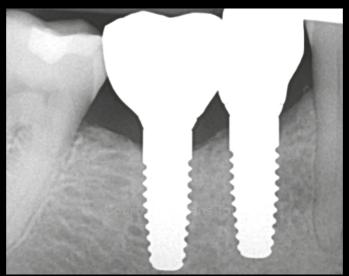
Treatment planning

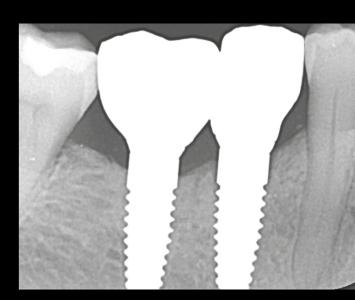
Surgical procedure

Restorative procedure

Outcome







X-ray control after delivery of restoration.

X-ray control 6 months after loading which shows a stable bone level.

1-year follow-up which shows stable bone and even bone gain.

Initial clinical situation

Treatment planning

Surgical procedure

Restorative procedure

Outcome





Before treatment.

Excellent esthetic outcome at 1-year follow-up.

Note the healthy soft tissue and natural looking prostheses.

Initial clinical situation

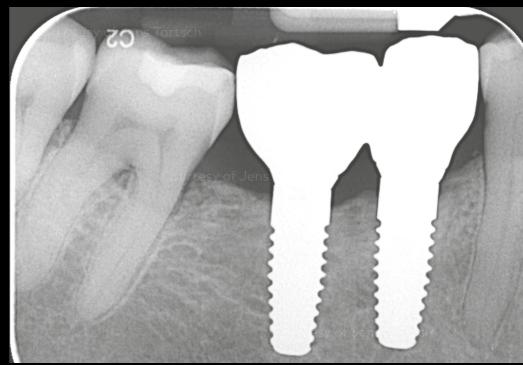
Treatment planning

Surgical procedure

Restorative procedure

Outcome





Marginal bone stability and great soft tissue response at 4.5-year follow-up.

# Case courtesy of Dr. Jens Tartsch



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