CLINICAL CASE



A metal-free solution for restoring natural esthetics

Jens Tartsch Switzerland



Jens Tartsch

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 Ø 4.2 mm x 10 mm

Restorative solution

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

Surgery date July 2018

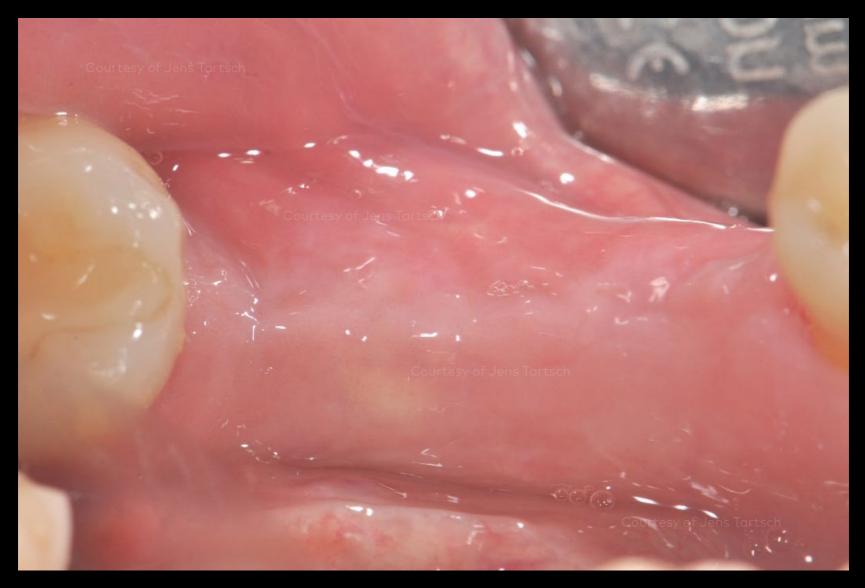
Total treatment time 4 months

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."

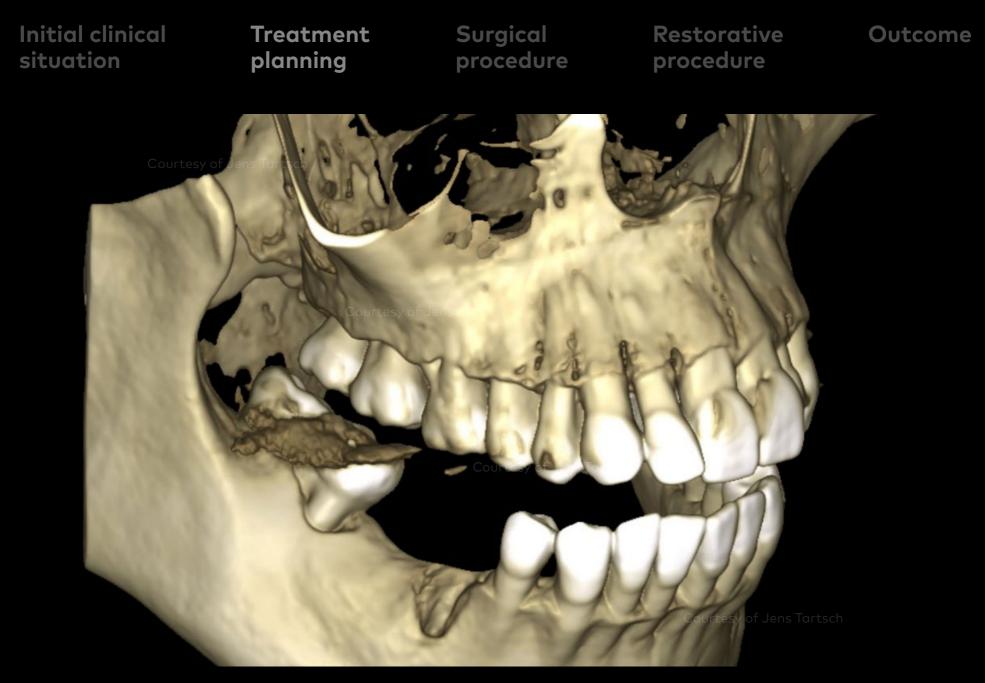




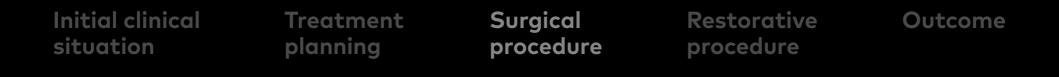
Initial clinical
situationTreatment
planningSurgical
procedureRestorative
procedureOutcome



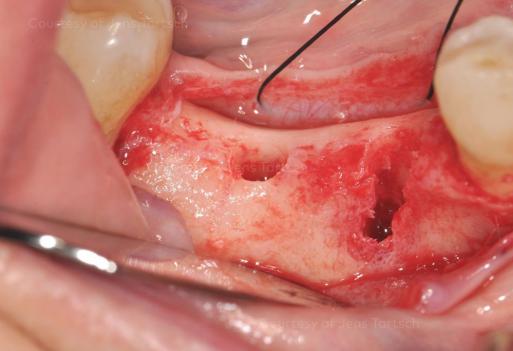
Healed site following extraction of teeth in positions 45 and 46, 3 months and 1 year before surgery, respectively.



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



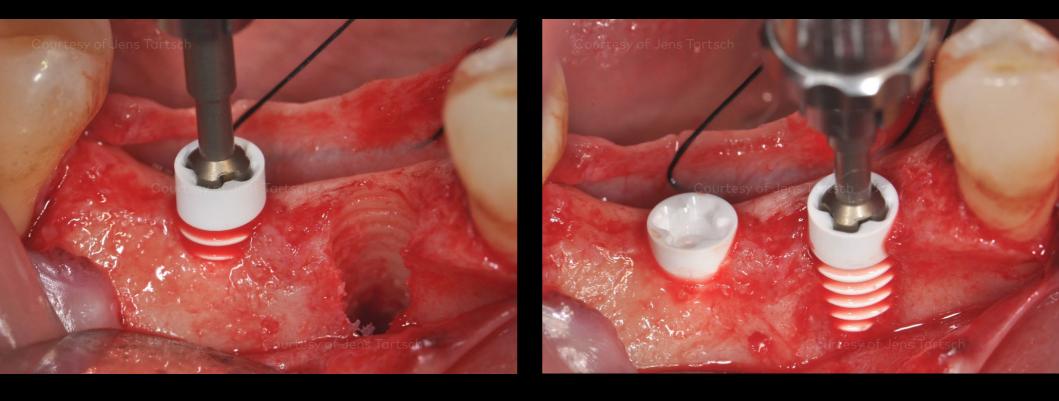




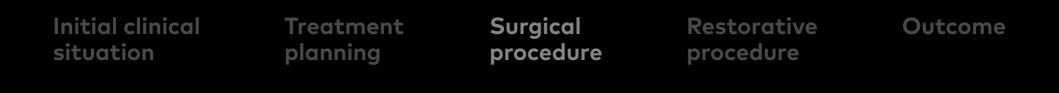
Cleaning of the alveolar bone at tooth position 45.

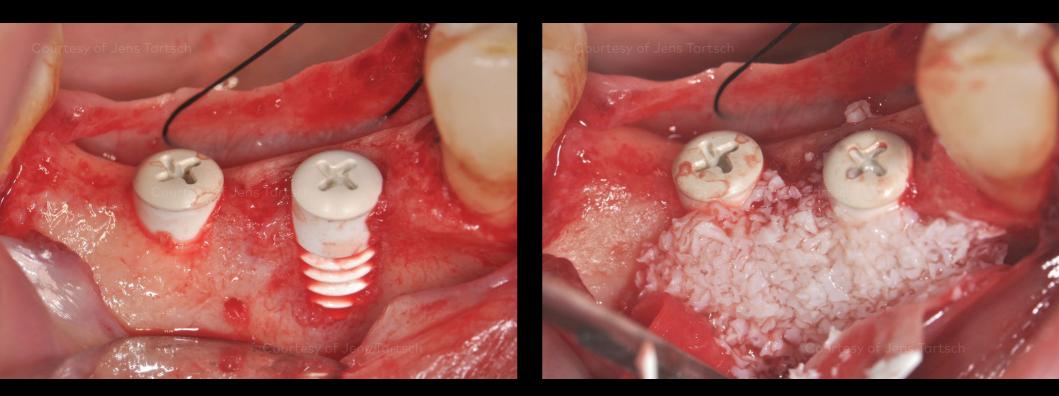
Suitable bone for implant insertion at tooth position 46, and lateral defect at position 45.

Initial clinicalTreatmentSurgicalRestorativeOutcomesituationplanningprocedureprocedureprocedure



Manual Insertion of NobelPearl Ø 4.2 mm 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.



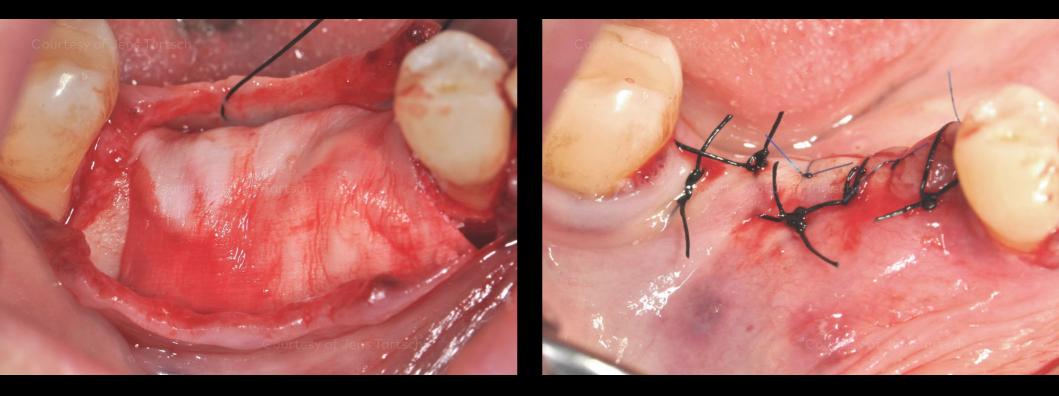


NobelPearl Cover Screw Inter-X in situ.

Horizontal augmentation using deproteinized bovine bone.

Treatment planning Surgical procedure Restorative procedure

Outcome



Implants covered with a resorbable collagen membrane.

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

Case courtesy of Jens Tartsch 8/20

Treatment planning

Surgical procedure Restorative procedure

Outcome



Orthopantomogram (OPG) at surgery.

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

Treatment planning

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.

Initial clinicalTreatmentSurgicalRestorativeOutcomesituationplanningprocedureprocedureprocedure

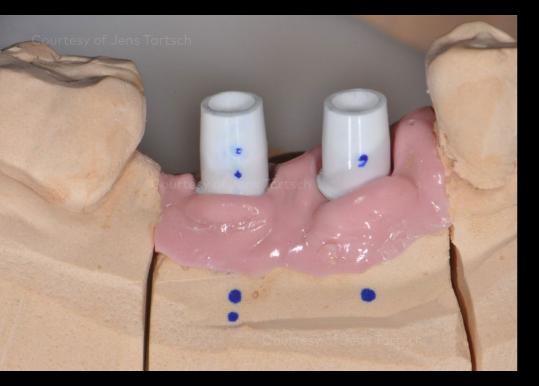


NobelPearl Impression Coping Open Tray Inter-X placed on implants and splinted for precision.

Treatment planning

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.

Treatment planning

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.

Treatment planning

Surgical procedure Restorative procedure

Outcome



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

Restorations cemented to the abutments.

Treatment planning

Surgical procedure Restorative procedure Outcome



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

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

Treatment planning

Surgical procedure

Restorative procedure

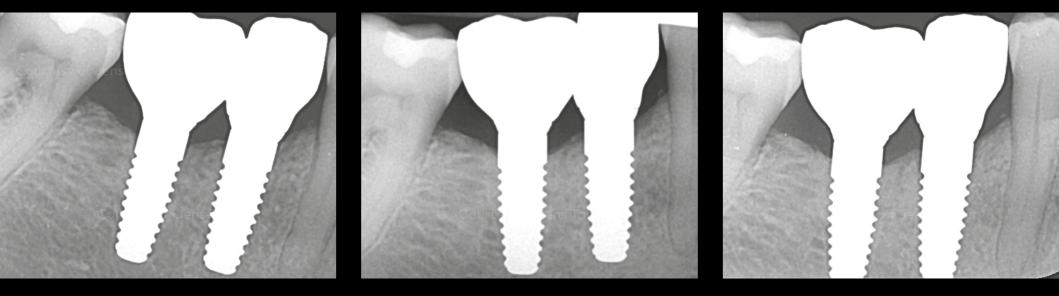
Outcome



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.

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. Case courtesy of Dr. Jens Tartsch



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For more information, please check the Nobel Biocare Instructions for use for NobelPearl™ Tapered Dental Implant System