



**Jens Tartsch** 

### **Patient**

35-year-old, female, good general and oral health

#### Clinical situation

Tooth 26 removed 2 years before rehabilitation

### **Surgical solution**

NobelPearl™ Tapered RP Ø 4.2 mm x 10 mm

### **Restorative solution**

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

### Surgery date

December 2017

#### Total treatment time

4 months

## **Tooth position**

26 (FDI system)

"Because of the tapered design of the implant body and geometry of the threads, NobelPearl™ can be used in the rehabilitation of a broad range of indications, from single-tooth restoration to more challenging cases such as simultaneous sinus lift and implant placement, where high primary stability is required."



NobelPearl™ implant, final restoration and abutment NobelPearl™ implant, final restoration and abutment with VICARBO® screw which is made of carbon fiber-reinforced polymer for a 100% metal-free implant system.

Treatment planning

Surgical procedure

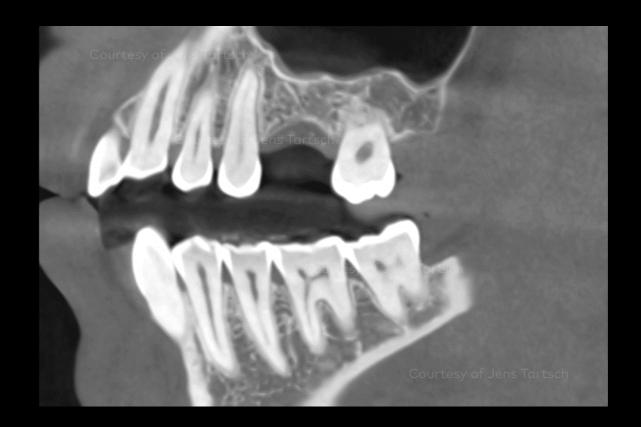
Restorative procedure

Outcome





Healed site 2 years after extraction of tooth 26. Note the lateral (left) and vertical (right) bone remodeling.



Presurgical digital volume tomography (DVT) shows the vertical bone remodeling 2 years after extraction of tooth 26.

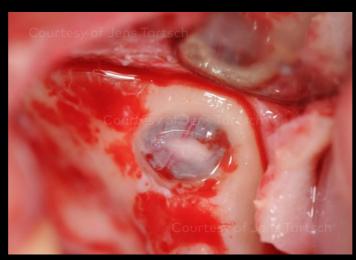
Treatment planning

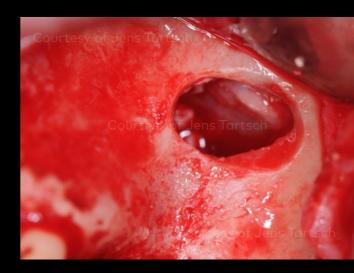
Surgical procedure

Restorative procedure

Outcome







Surgical procedure

Restorative procedure

Outcome







Inserting the NobelPearl Tapered  $\varnothing$  4.2 mm x 10 mm implant.

Implant inserted 0.6 mm supracrestal.

Sinus filled with deproteinized bovine bone.

Treatment planning

Surgical procedure

Restorative procedure

Outcome







Horizontal augmentation using deproteinized bovine bone.

Bone substitute covered with resorbable collagen membrane.

Primary wound closure.

Surgical procedure

Restorative procedure

Outcome





The re-entry took place 3 months after implant insertion with small crestal incision. Healthy soft tissue 2 weeks after re-entry around the gingiva cap.

Placing the NobelPearl Impression Coping Closed Tray Inter-X onto the implant.

Surgical procedure

Restorative procedure

Outcome





NobelPearl Impression Coping Closed Tray Inter-X and lab Replica Inter-X.

Repositioning of the NobelPearl Impression Coping Closed Tray Inter-X in the impression material with the NobelPearl Implant Replica Inter-X and making sure that it is fully seated.

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.

Treatment planning

Surgical procedure

Restorative procedure

Outcome





Healthy and thick keratinized peri-implant mucosa seen following removal of the NobelPearl Healing Abutment Inter-X 4 months after surgery.





Try-in of the NobelPearl abutment.

Abutment in situ, with VICARBO® screw torqued 25 Ncm.

Surgical procedure

Restorative procedure

Outcome





After restoration was cemented to the abutment intraorally, it was taken out of the mouth for cleaning.

Final insertion of the restoration with ratchet and torque 25 Ncm





Restoration after installation and closing the screw access hole with Teflon.



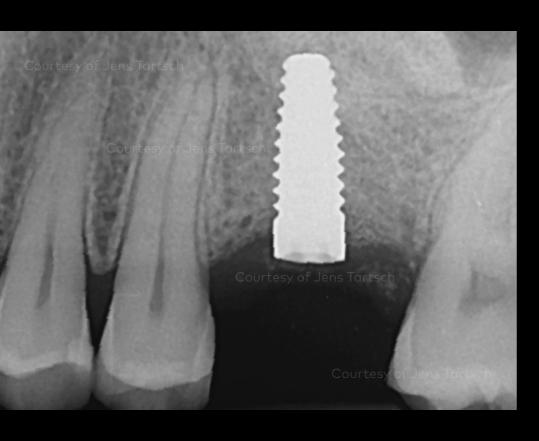


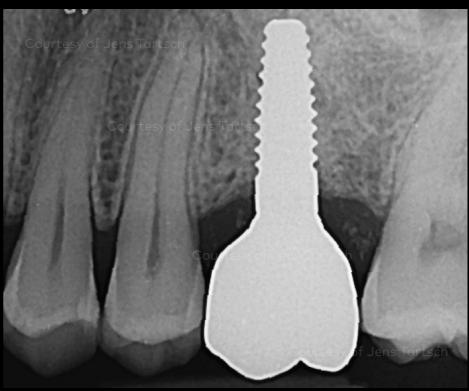
Final restoration after screw access hole closed with composite.

Surgical procedure

Restorative procedure

**Outcome** 





X-ray 3 months after implant insertion before loading.

1-year follow-up after loading. X-ray radiography shows excellent bone level preservation.

Surgical procedure

Restorative procedure

**Outcome** 





Note the healthy mucosa without any signs of inflammation after removing the crown for control at 1-year follow-up.

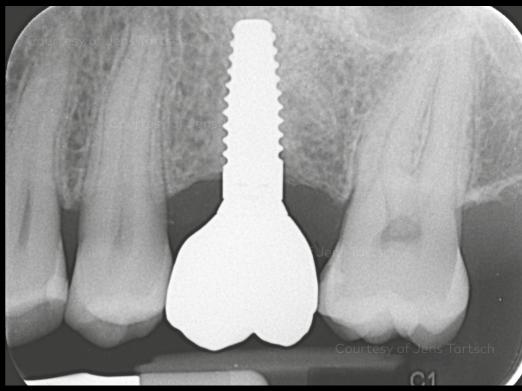
1-year follow-up. Esthetic excellence with zirconia final restoration and very healthy soft tissue.

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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