

### Anterior single-tooth replacement with Immediate Function





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« The design of NobelParallel CC makes it possible to reach high primary stability predictably, even in low density bone or extraction sockets. This is especially essential in immediate loading protocols. The versatility of its conical connection coupled with the use of digital technologies opens up a world of new possibilities in our aim to obtain the best possible outcome »



#### Patient:

Male 62 years old

### **Tooth position:**

Maxillary lateral incisor

#### **Surgical solution:**

NobelParallel CC RP 4.3 x 11.5 mm Guided pilot drilling surgical template

#### **Restorative solution:**

Nobel Biocare Temporary Abutment NobelProcera ASC Abutment for final restoration

### **Surgery date:**

July 20, 2014

#### **Total treatment time:**

4 months

### Initial situation





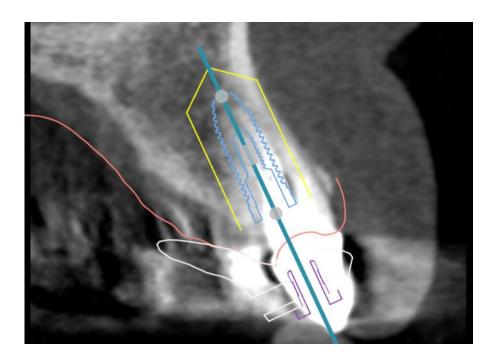
Root fracture of tooth 12. Tooth cannot be preserved.



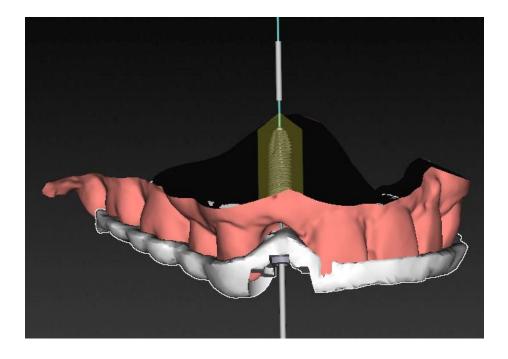
Cone Beam CT reveals horizontal root fracture.



## Treatment planning



The NobelClinician Software helps to optimize implant positioning for the desired restorative outcome.



A surgical template is created after perfect adaptation to the scanned model.



### Tooth extraction



Care has to be taken to preserve soft and hard tissue during tooth extraction.



Intact extraction socket.



## Guided pilot drilling



Use of the Guided Pilot Drilling Surgical Template to direct optimized implant positioning.



Use of the Guided Twist Drill Ø 2.0 mm x (10+) 7-13mm.



## Site preparation



Freehand drilling with the Twist Step Drill 2.4/2.8 mm x 7-15 mm.



Direction Indicator in place to verify implant position outcome.







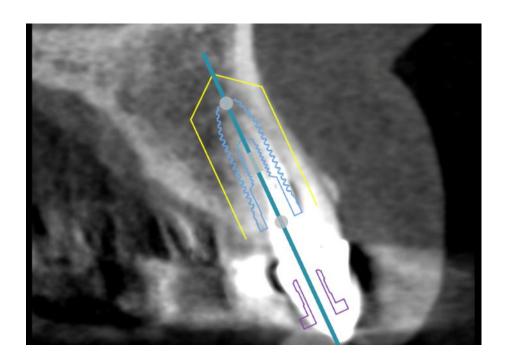
Placement of NobelParallel CC RP 4.3 x 11.5 mm.



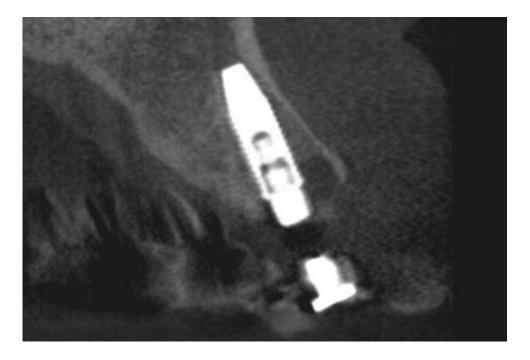
Occlusal view of implant position, taking buccal and palatal aspects into consideration for an optimized prosthetic outcome.



## Confirmation of implant placement



The NobelClinician Software helps to optimize implant positioning for the desired restorative outcome.



Confirmation of implant position immediately after implant placement. X-ray shows the implant and Guided Pilot Drilling Surgical Template (with sleeve) in place.







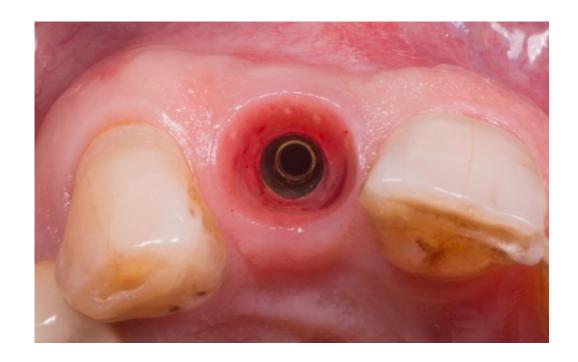
Screw-retained temporary crown.



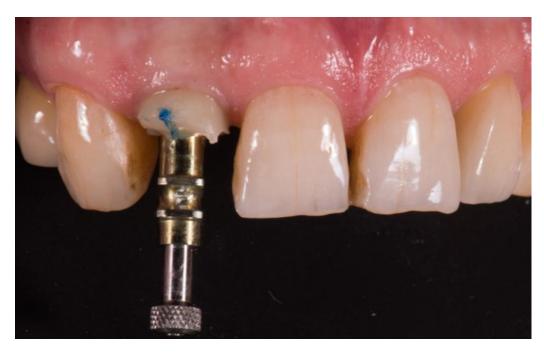
Front view of temporary restoration.



# Impression taking



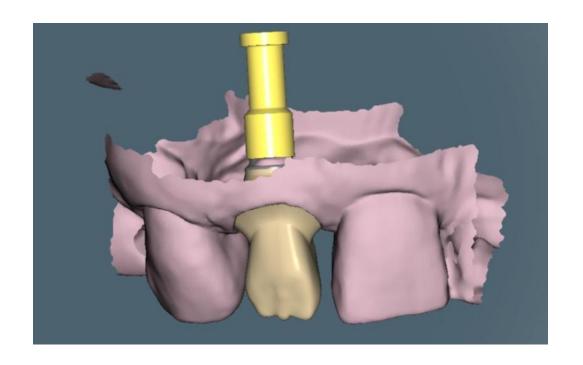
Soft tissue contour after removing the temporary crown, three months after implant placement.



Impression taking with transfer of soft tissue contour from the temporary crown (custom-made emergence profile).



## Design of final abutment



Individualized design of the NobelProcera ASC (Angulated Screw Channel) Abutment.



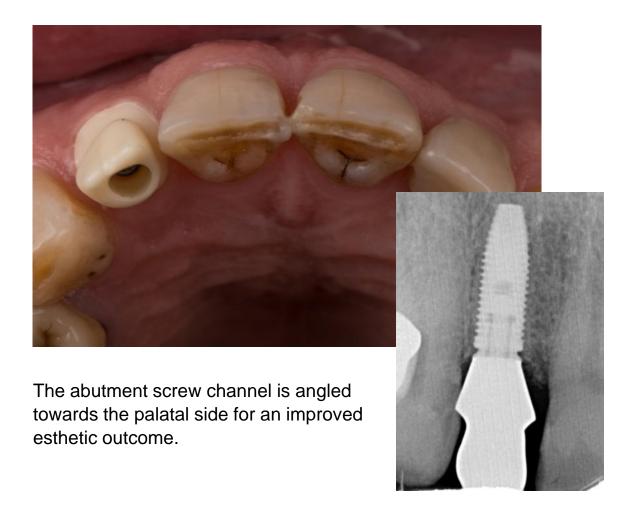
NobelProcera ASC Abutment positioned on the working model.



## Final abutment in place



NobelProcera ASC Abutment in place.





### Final result



Final intra-oral view, one month after placement of the screw-retained restoration.

Prosthetic work, Dr Castelnaud, Paris, France.