

Single-tooth replacement in the posterior region using the On1™ concept

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Patient Female, 36 years old

Clinical situationMissing tooth after extraction of lower left first molar

Surgical solution
NobelReplace CC RP 5 × 10 mm
On1 Base CC RP 1.75 mm
On1 Healing Cap RP 1.5 mm

Restorative solution
On1 Universal Abutment RP 0.3 mm
with a full-contour zirconia crown

Surgery date August 2016

Total treatment time 3 months

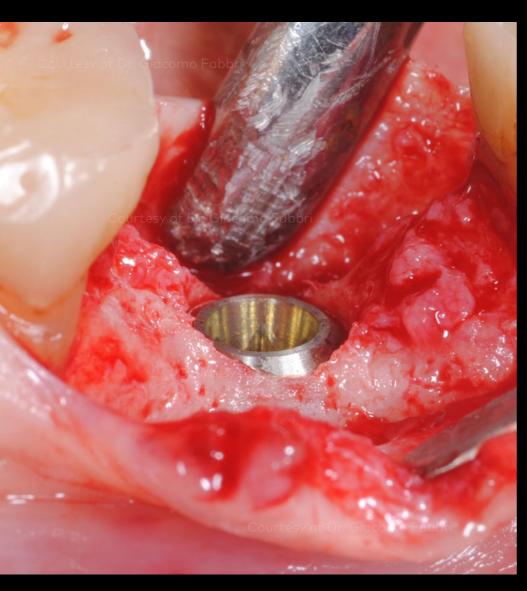
"The On1 concept represents a great solution for treatment of the posterior region. It offers many advantages from a biological and biomechanical perspective. Moreover, it minimizes the patient's discomfort during all prosthetic procedures."

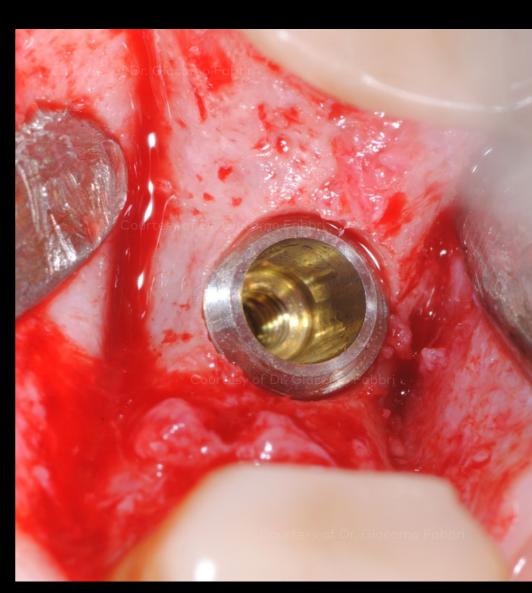




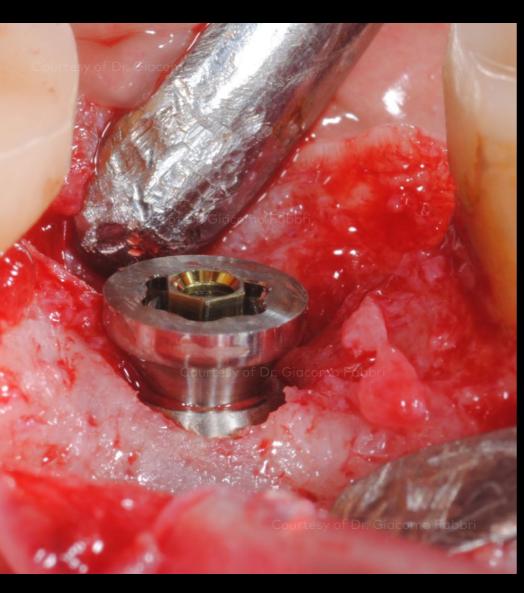
The patient requires an implant-supported rehabilitation of the second molar after tooth extraction three months earlier. Clinical and anatomical conditions are favorable for proceeding with a one-stage surgical approach without any grafting procedures.

X-ray evaluation before the implant placement.



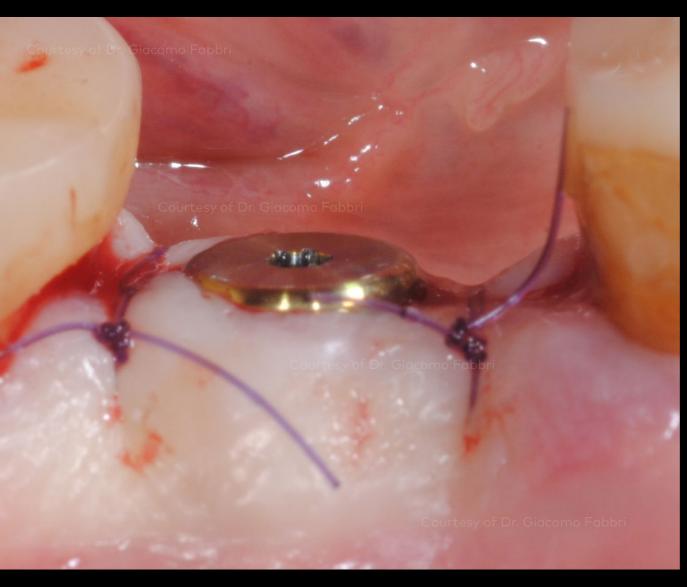


A NobelReplace CC implant is placed slightly below the residual bone crest in order to maintain a soft tissue thickness of 3 mm above the implant platform. The torque is measured to 35 Ncm.





An On1 Base is placed on the implant and torqued to 35 Ncm.





Suture after placement of the On1 Healing Cap.

X-ray evaluation immediately after the surgery.





Intraoral situation eight weeks after the implant surgery.

The soft tissue shows good healing after removal of the On1 Healing Cap.



X-ray evaluation to control proper seating of the impression coping.



Master cast with On1 Base Replica.



The On1 Universal Abutment is placed on the master model.



The On1 Universal Abutment makes it possible to create a screw-retained solution, which allows the use of various technologies and materials for the definitive crown.

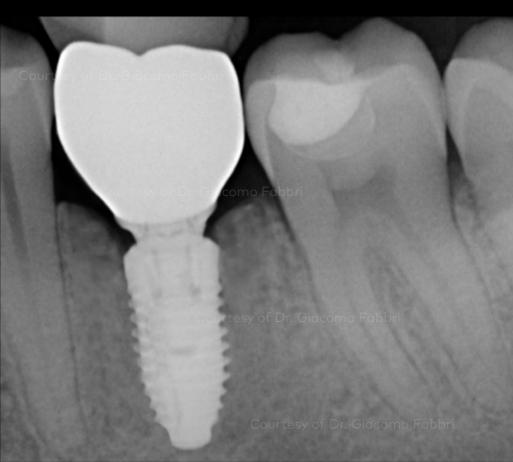


The final restoration. Monolithic screw-retained full-contour zirconia cemented onto the On1 Universal Abutment.



The final restoration seated on the model

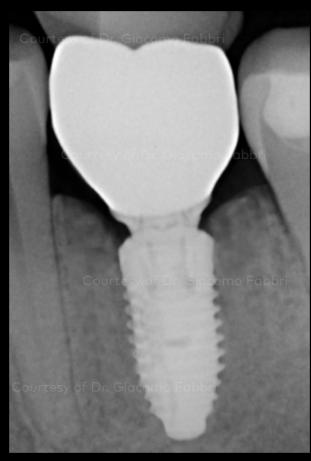




Intraoral view of the final prosthetic outcome. The screw access hole was closed with Teflon and composite.

X-ray evaluation of the final restoration.







X-ray evaluation after implant placement.

X-ray evaluation after the delivery of the final screw-retained crown.

X-ray evaluation after one month of function.





Intraoral situation 2.5 years after implant placement.

X-ray evaluation 2.5 years after implant placement.

Case courtesy of Dr. Giacomo Fabbri



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