

Dr. Fabrizio Colombo, DDS Milan, Italy



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Patient

22 years old, male, no systemic diseases, no oral pathologies or dental problems (patient previously treated with orthodontic treatment).

Clinical situation

Agenesis of 1.2 with moderate loss of buccal convex architecture.

Surgical solution

Placement of a NobelReplace® CC PMC implant 3.5x11.5 mm. Bone Regeneration using Nobel Biocare creos™ xenogain "S" gr. 0.5 and Nobel Biocare resorbable membrane creos™ xenoprotect 25x30 fixed by pins. Soft tissue augmentation using creos™ mucogain.

Restorative solution

Provisional: Acrylic screw-retained temporary crown. Final: individual crown on implant.

Surgery date(s)

5th November 2018.

Total treatment time 24 months.

Tooth position(s) Upper right lateral incisor, 1.2.











Young patient, no gummy smile; slight asymmetry exposing sligthly more the right side of the oral cavity.



Agenesis of the upper right lateral incisor provisionally treated using a Maryland bridge.



Occlusal view of the Maryland bridge.





Lack of the typical vestibular convex architecture in the area of 12 (lateral view).

Lack of the typical vestibular convex architecture in the area of 12 (controlateral view).

Treatment planning

Surgical procedure

Restorative procedure

GBR, simultaneous implant placement and soft tissue augmentation in esthetic zone



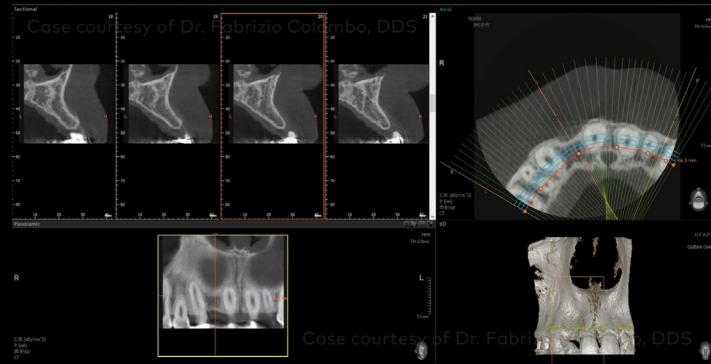
Interdental space wider than ideal one (frontal view).



Interdental space wider than ideal one (occlusal view).



Endoral x-ray of the area to be treated.



CBCT showing a moderate lack of buccal bone.



Initial clinical picture.



Opening of a full-thickness trapezoidal flap.

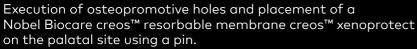




Implant placement of a NobelReplace® CC PMC 3.5x11.5 mm.

Vestibular fenestration in the apical area of the implant.





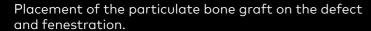


Hydratation of the particulate bovine bone (creos™ xenogain "S") using normal saline solution and patient's blood.

planning

Surgical procedure Restorative procedure







Placement of the membrane fixed with pins.





Closure of the flap by primary intention using PTFE suture.

Detail of the membrane in situ (occlusal view).



Post-operative endoral x-ray.



Suture removal after 15 days healing.



Loss of the correct shape of the parabola of 11 due to the crestal repositioning of the upper lip frenulum.



Healing 2 months after surgery.





Reopening.

Improving gingival thickness by using creos™ mucogain.





Soft tissue handling: free gingival graft to prevent recurrence of a crestal frenulum insertion.

Immediately post-op clinical picture.

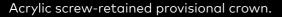






Healing after 10 days.







Insertion of an acrylic screw-retained temporary crown after suture removal (10 days after the surgery).





Shaping 1.3 and 2.3 using direct composite restoration.





Soft tissues conditioning by means of the temporary crown.



Healing 2 months after surgery.



Healing 2 months after surgery.

Treatment planning

Surgical procedure

Restorative procedure

GBR, simultaneous implant placement and soft tissue augmentation in esthetic zone





Final screw-retained metal-ceramic crown (frontal view).

Final screw-retained metal-ceramic crown (lateral view).



Healing 2 months after surgery.



Healing 2 months after surgery.

Case courtesy of Dr. Fabrizio Colombo, DDS



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