

Clinical Case: One-Wall Defect in Tooth #11

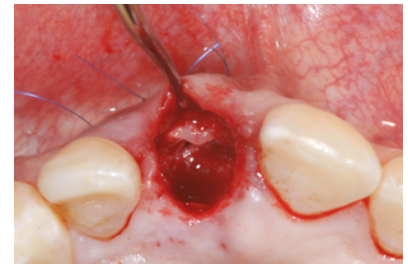
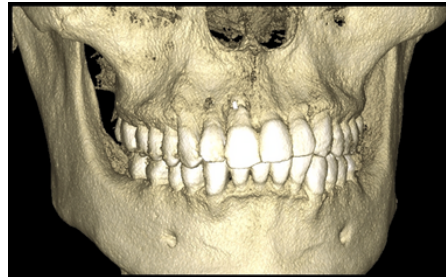
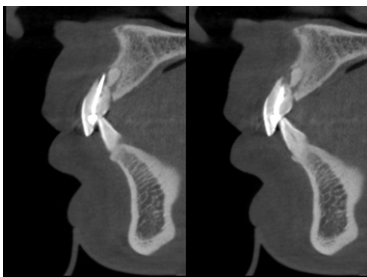
Patient

- **Gender:** Male
- **Age:** 36 years old with no general disease and no smoking

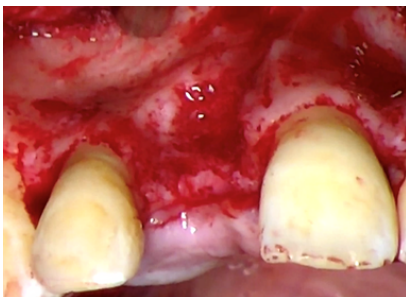
Doctor

- **Nizar Bennani**
- **iDentex, Morocco**

The Cone beam CT showed root fracture and severe buccal bone dehiscence.



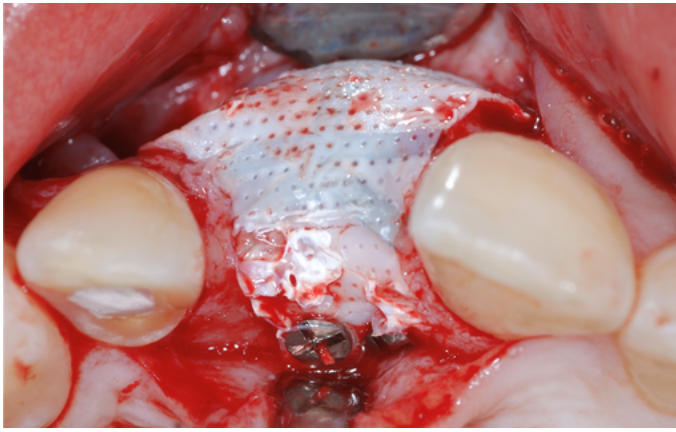
After extraction, a connective tissue graft harvested from the palatal region was meticulously placed in a tunnel prepared on the buccal aspect of tooth 11. This was performed to enhance the biotype and to increase the thickness of the surrounding tissues prior to bone reconstruction.



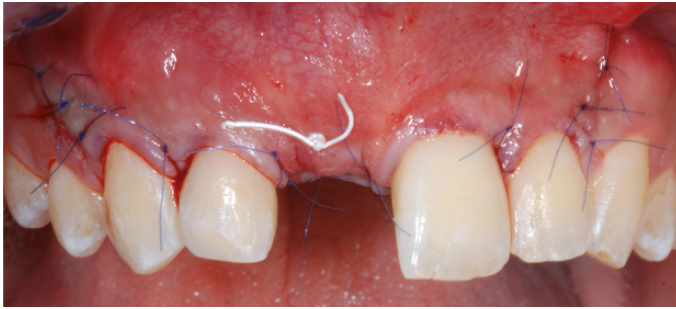
Full-thickness flap revealing a severe buccal bone defect (one wall defect).



After bone decortication, the defect was filled with a 50/50 mixture of autogenous bone harvested with bone scrapers from the nasal spine and surrounding area, along with **Octabone (0.2-1 mm)**.



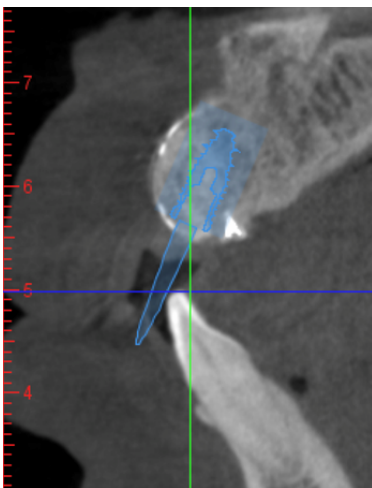
The bone graft was covered with a dense PTFE titanium reinforced membrane, fixed with titanium screws



After releasing the periosteum, it was secured with passive closure using a horizontal mattress suture and interrupted sutures.



Six months of uneventful healing. The patient wore a retainer during this period.

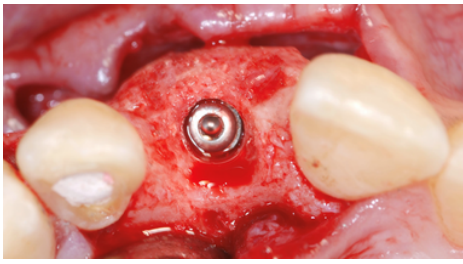


Cone beam CT imaging after six months shows perfect bone regeneration and volume gain. (The white area in the image indicates that new bone has formed on the Ti-oss graft).



During reentry and membrane removal, the bone regeneration filled all the space under the membrane

without any soft tissue formation. The bone was very hard and vascularized, indicating vitality.



Drilling also revealed remarkable bleeding, and the implant was placed in an optimal 3D position.

CONCLUSION

Since the patient resides in the U.S.A., far from the clinic in Morocco, it is unfortunate that long-term post-graft follow-up data cannot be tracked. However, the CT images indicate successful healing outcomes within six months.

The Gold Standard of
Bone Graft Material

Ti-OSS[®]
CANCELLOUS SUBSTITUTE 

 **Octabone**

Ti-oss[®]



No.	Product / Weight	Size
25-0512	Ti-oss [®] 0.25g/0.6cc	0.5 - 1.2mm
05-0512	Ti-oss [®] 0.5g/1.2cc	0.5 - 1.2mm
10-0512	Ti-oss [®] 1.0g/2.3cc	0.5 - 1.2mm
20-0512	Ti-oss [®] 2.0g/4.5cc	0.5 - 1.2mm
25-1217	Ti-oss [®] 0.25g/0.75cc	1.2 - 1.7mm
05-1217	Ti-oss [®] 0.5g/1.5cc	1.2 - 1.7mm
10-1217	Ti-oss [®] 1.0g/3.0cc	1.2 - 1.7mm
20-1217	Ti-oss [®] 2.0g/6.0cc	1.2 - 1.7mm

Octabone[®]



No.	Product / Weight	Size
25-0210	Octabone [®] 0.25g/0.45cc	0.2 - 1.0mm
05-0210	Octabone [®] 0.5g/0.8cc	0.2 - 1.0mm
10-0210	Octabone [®] 1.0g/1.5cc	0.2 - 1.0mm
20-0210	Octabone [®] 2.0g/3.0cc	0.2 - 1.0mm

Octabone[®] Syringe

No.	Product / Weight	Size
S25-0210	Octabone [®] 0.25g/0.45cc	0.2 - 1.0mm
S05-0210	Octabone [®] 0.5g/0.8cc	0.2 - 1.0mm

Ti-oss[®] Syringe



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S25-0512	Ti-oss [®] 0.25g/0.6cc	0.5 - 1.2mm
S05-0512	Ti-oss [®] 0.5g/1.2cc	0.5 - 1.2mm
S25-1217	Ti-oss [®] 0.25g/0.75cc	1.2 - 1.7mm
S05-1217	Ti-oss [®] 0.5g/1.5cc	1.2 - 1.7mm

Ti-oss[®] Guide



No.	Product / Weight	Size
DTG-10002	Ti-oss [®] Guide	15 x 30mm

Ti-oss[®] Block



No.	Product / Weight	Size
BLK8812	Ti-oss [®] Block	8x8x12mm
BLK8825	Ti-oss [®] Block	8x8x25mm

Rev. No. 4