

News Letter

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CE & FDA Registered Products

Clinical Results of Ridge Augmentation Using Ti-oss® bone graft material in the Aesthetic Zone

Article 12. Horizontal and vertical ridge augmentation in the aesthetic zone

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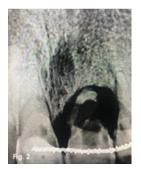
ABSTRACT: This case report presents horizontal and vertical ridge augmentation in the aesthetic zone using **Ti-oss® bovine xenograft** at sites 21 and 22. A patient with a long-standing edentulous area and severe bone loss was treated with simultaneous grafting and immediate implant placement. One-year follow-up confirmed **successful implant integration** without complications and showed **excellent hard** and **soft tissue regeneration**, supporting **Ti-oss®** as a reliable option for **ridge augmentation** and **implant success**.

Managing combined horizontal and vertical ridge defects in the anterior maxilla can be challenging. A patient with a long-standing edentulous space was treated using Ti-oss® xenograft in combination with a non-resorbable membrane. Immediate implants were placed in sites 21 and 22.

Pre-operative clinical image



Healthy patient with a long-standing edentulous space at site 21, bone loss near 22, and a splinted crown following trauma.



Crown on 21 with composite-wire splint and bone defect.

C.2.e Defect type



Surgical view of a C.2.e defect showing combined ridge loss, requiring advanced bone regeneration for implant placement.

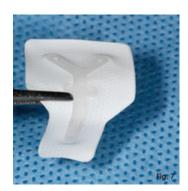
Clinical images of implant placed



Immediate implants were placed at 21 and 22 after grafting with Ti-oss® and a titanium-reinforced membrane.



Graft material: Ti-oss® 05-0512



Titanium reinforced membrane stabilized graft and space.

At membrane removal



Five-month membrane removal showing good bone regeneration and healthy soft tissue



X-ray confirms correct implant placement at sites 21 and 22.

Implant loading at 5 months

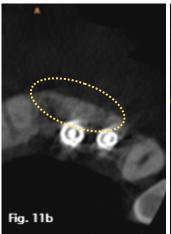


Implant loading after 5 months, with well-integrated fixtures and healthy surrounding tissue.

Post-op 1 year follow up



One year X-ray shows stable bone and implant success.





Radiopaque images show dense, mature bone arround the implants, confirming successful graft integration.

Discussion:

This clinical case demonstrates that **Ti-oss**® bone graft material has shown good results and efficacy in treating large defects with no complications. The follow-up examinations, including clinical and radiographic assessments at 5 months and 1 year, revealed **excellent hard** and **soft tissue healing**, **bone volume maintenance**, **bone quality**, and **soft tissue stability**.

These results highlight the **osteopromoting properties** of **Ti-oss**®. Its surface has a **pre-HA structure** and **Octacalcium Phosphate (OCP) crystals** with excellent bone regenerating properties.

Ti-oss® also have **unique fish-fin-like surface structures**, which contribute to its **osteopromoting properties** and **enhance bone regeneration**. This advanced technology is produced by only a limited number of companies worldwide.

Thank You









Premium Brand

Cost-Effective Brand

Ti-oss® Bone Substitute - Vial Type

Re	Code	Product/Weight		Size
1	25-0512	Ti-oss®	0.25g/0.6CC	0.5-1.2mm
2	05-0512	Ti-oss®	0.5g/1.2CC	0.5-1.2mm
3	10-0512	Ti-oss®	1.0g/2.3CC	0.5-1.2mm
4	20-0512	Ti-oss®	2.0g/4.5CC	0.5-1.2mm
5	25-1217	Ti-oss®	0.25g/0.75CC	1.2-1.7mm
6	05-1217	Ti-oss®	0.5g/1.5CC	1.2-1.7mm
7	10-1217	Ti-oss®	1.0g/3.0CC	1.2-1.7mm
8	20-1217	Ti-oss®	2.0g/6.0CC	1.2-1.7mm
Economic Line				
9	25-0210	Ti-oss®	0.25g/0.45CC	0.2-1.0mm
10	05-0210	Ti-oss®	0.5g/0.8CC	0.2-1.0mm
11	10-0210	Ti-oss®	1.0g/1.5CC	0.2-1.0mm
12	20-0210	Ti-oss®	2.0g/3.0CC	0.2-1.0mm

Octabone ® Bone Substitute - Vial Type

Re	Code	Product/Weight		Size
1	25-0512	Octabone®	0.25g/0.6CC	0.5-1.2mm
2	05-0512	Octabone®	0.5g/1.2CC	0.5-1.2mm
3	10-0512	Octabone®	1.0g/2.3CC	0.5-1.2mm
4	20-0512	Octabone®	2.0g/4.5CC	0.5-1.2mm
5	25-1217	Octabone®	0.25g/0.75CC	1.2-1.7mm
6	05-1217	Octabone®	0.5g/1.5CC	1.2-1.7mm
7	10-1217	Octabone®	1.0g/3.0CC	1.2-1.7mm
8	20-1217	Octabone®	2.0g/6.0CC	1.2-1.7mm
Eco	nomic Line			
9	25-0210	Octabone®	0.25g/0.45CC	0.2-1.0mm
10	05-0210	Octabone®	0.5g/0.8CC	0.2-1.0mm
11	10-0210	Octabone®	1.0g/1.5CC	0.2-1.0mm
12	20-0210	Octabone®	2.0g/3.0CC	0.2-1.0mm
	1 2 3 4 5 6 7 8 Ecco 9 10 11	1 25-0512 2 05-0512 3 10-0512 4 20-0512 5 25-1217 6 05-1217 7 10-1217 8 20-1217 Economic Line 9 25-0210 10 05-0210 11 10-0210	1 25-0512 Octabone® 2 05-0512 Octabone® 3 10-0512 Octabone® 4 20-0512 Octabone® 5 25-1217 Octabone® 6 05-1217 Octabone® 7 10-1217 Octabone® 8 20-1217 Octabone® Economic Line 9 25-0210 Octabone® 10 05-0210 Octabone® 11 10-0210 Octabone®	1 25-0512 Octabone® 0.25g/0.6CC 2 05-0512 Octabone® 0.5g/1.2CC 3 10-0512 Octabone® 1.0g/2.3CC 4 20-0512 Octabone® 2.0g/4.5CC 5 25-1217 Octabone® 0.25g/0.75CC 6 05-1217 Octabone® 0.5g/1.5CC 7 10-1217 Octabone® 1.0g/3.0CC 8 20-1217 Octabone® 2.0g/6.0CC Economic Line 9 25-0210 Octabone® 0.25g/0.45CC 10 05-0210 Octabone® 0.5g/0.8CC 11 10-0210 Octabone® 1.0g/1.5CC

Ti-oss® Bone Substitute - Syringe Type

13	S25-0512	Ti-oss®	0.25g/0.6CC	0.5-1.2mm	
14	S05-0512	Ti-oss®	0.5g/1.2CC	0.5-1.2mm	
15	S25-1217	Ti-oss®	0.25g/0.75CC	1.2-1.7mm	
16	S05-1217	Ti-oss®	0.5g/1.5CC	1.2-1.7mm	
Economic Line					
17	S25-0210	Ti-oss®	0.25g/0.45CC	0.2-1.0mm	
18	S05-0210	Ti-oss®	0.5g/0.8CC	0.2-1.0mm	

Octabone® Bone Substitute - Syringe

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13	S25-0512	Octabone®	0.25g/0.6CC	0.5-1.2mm
14	S05-0512	Octabone®	0.5g/1.2CC	0.5-1.2mm
15	S25-1217	Octabone®	0.25g/0.75CC	1.2-1.7mm
16	S05-1217	Octabone®	0.5g/1.5CC	1.2-1.7mm
Econ	omic Line			
17	S25-0210	Octabone®	0.25g/0.45CC	0.2-1.0mm
18	S05-0210	Octabone®	0.5g/0.8CC	0.2-1.0mm

Ti-oss® Bone Substitute - Block Type

19	BLK8812	Ti-oss® Block	8 x 8 x 12mm
20	BLK8825	Ti-oss® Block	8 x 8 x 25mm

Octabone® Bone Substitute - Block Type

19	BLK8812	Octabone® Block	8 x 8 x 12mm
20	BLK8825	Octabone® Block	8 x 8 x 25mm

Ti-OSS Guide®



Ti-oss® Guide - Biodegradable Collagen Membrane

21 DTG-10002 Ti-oss® Guide 15 x 30mm	n
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