

Clinical Case Study

Clinical study of guided bone regeneration in dehiscence-type defects using OssGuide™

Part 1

1. Purpose

The purpose of this study was to evaluate the safety and effectiveness of OssGuide™.

2. Basic information

Company	Bioland
Address	[363-885] 162, Gwahaksaneop 3-ro, Ochang, Cheongwon, Chungbuk, Korea
Product	OssGuide™

3. Product Description

The OssGuide™ (Absorbable collagen membrane) is made of pure collagen, to minimize antigenicity, which is without further cross-linking or chemical additives for excellent biocompatibility. OssGuide™ is a biodegradable collagen membrane derived from porcine pericardium certified by a veterinarian and is purified to prevent immunologic reactions. OssGuide™ has a porous and fibrous microstructure that is hydrophilic and prevents the ingrowth of fibrous tissue into the bone defect. OssGuide™ is sterilized by gamma radiation.

Part 2

1. Study title

A Clinical study of guided bone regeneration in dehiscence-type defects using OssGuide™

2. Clinical study object

The purpose of this study to evaluate clinically and creating and excellent healing of periodontal defects treated with absorbable collagen membrane (OssGuide™) for both Guided Tissue Regeneration (GTR) and Guided Bone Regeneration (GBR) usage.

3. Clinical study material

OssGuide™, TG-021307

4. Patient

Case 1 : A 41-years-old female

Case 2 : A 52-years-old female

5. Supervisor and his (or her) career

Principal investigator : Pf. Chung Eui Won

Institution : Dental hospital of Yonsei university, Korea

6. Clinical study period

Case 1 : 09/27/2013 ~ 01/27/2014

Case 2 : 10/04/2013 ~ 02/03/2014

7. Clinical study method

1) Complains






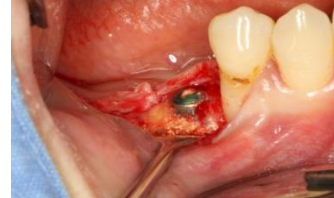
Occurrence of dehiscenc-type defect due to narrow bone in 1st implant operation

2) Treatments







Periodontal defects were filled bone graft and entire site was covered with OssGuide™.

8. Result

Case 1

		
(A) Pre-operative radiograph	(B) Bony defect after implant placement	(C) The defects were filled with xenograft bone (CollaOss™). Entire site was covered with OssGuide™
		
(D) A tension-free flap closure is created with 4-0 nylon sutures.	(E) Uneventful healing of the exposure is observed at 1 month post-operation	(F) Re-opening after 4 months, good bony healing of defect

Case 2

		
<p>(A) Pre-operative radiograph</p>	<p>(B) Bony defect after implant placement</p>	<p>(C) The defects were filled with xenograft bone (CollaOss™). Entire site was covered with OssGuide™</p>
		
<p>(D) A tension-free flap closure is created with 4-0 nylon sutures.</p>	<p>(E) Uneventful healing of the exposure is observed at 1 month post-operation</p>	<p>(F) Re-opening after 4 months, good bony healing of defect</p>

9. Conclusion

This study suggests that complex treatment applied implant with bone material and collagen membrane is more effective and regenerate gingiva dramatically.

Clinical use has demonstrated no immune or sensitivity reactions. OssGuide™ showed to be equal or superior to most other materials for a barrier in the regeneration of bone defects or protection of the wound surface.