



OSSIX[®] Solution Matrix

In this **solution matrix**, we present the relevant indications for using **OSSIX® Regenerative Solutions**. We have highlighted the products' features that make them a good fit for each indication.

OSSIX® Products



OSSIX™ Bone
Ossifying Collagen Sponge



OSSIX® Volumax
Volumizing, Ossifying
Collagen Scaffold



OSSIX® Plus
Ossifying Collagen
Barrier Membrane



OSSIX Agile™
Cross-Linked
Pericardium Membrane

The products have a 3-year shelf life

Clinical Indications

Socket
Preservation

Crestal Sinus
Elevation

Lateral Window
Sinus Elevation

Lateral Ridge
(Horizontal)
Augmentation

Vertical Ridge
Augmentation

Periodontal
Defects

Immediate
Implant
Placement

Additional
Procedures

Clinical Indications

Socket Preservation	Crestal Sinus Elevation
Lateral Window Sinus Elevation	Lateral Ridge (Horizontal) Augmentation
Vertical Ridge Augmentation	Periodontal Defects
Immediate Implant Placement	Additional Procedures

Clinical Case Study


Bone Graft	
<ul style="list-style-type: none"> • OSSIX™ Bone • No membrane is required in some socket preservation cases¹ • Increases amount of vital bone over a 4-month healing period¹ • OSSIX™ Bone was remodeling into new bone without residual graft particles¹ • OSSIX™ Bone is an ossifying collagen sponge⁶ 	
Can be used with other membranes including Symbios® membranes	



Membranes	
<ul style="list-style-type: none"> • OSSIX® Plus • Maintains long lasting barrier effect (4-6 months)² • 3-5 weeks of degradation resistance when exposed³ • Provides excellent preservation of the keratinized tissue (width and thickness)³ 	<ul style="list-style-type: none"> • OSSIX Agile™ • Maintains long-lasting barrier effect⁴ • Can be tacked and sutured⁴
Can be used with other bone graft materials including Symbios® Granules	


Scaffold	
<ul style="list-style-type: none"> • OSSIX® Volumax • Increases soft tissue thickness when placed under flaps⁵ • Provides adequate mechanical properties for space maintenance while still undergoing an active absorption / incorporation process that takes 4 to 6 months in the oral cavity⁹ 	
Should be use with a bone graft such as OSSIX™ Bone	

Clinical Indications

Socket Preservation	Crestal Sinus Elevation
Lateral Window Sinus Elevation	Lateral Ridge (Horizontal) Augmentation
Vertical Ridge Augmentation	Periodontal Defects
Immediate Implant Placement	Additional Procedures

Bone Graft	
 OSSIX™ Bone	
<ul style="list-style-type: none"> • As an ossifying collagen sponge, there is no product particle migration^{6,9} • It cannot be dispersed in the sinus, even in the case of large tears in the mucosa. Effectively seals perforations with its block form and provides a cushioned support of fragile sinus membranes^{6,9} • OSSIX™ Bone, in combination with endosinusal elevators, could be considered as a suitable material for t-SFA due to its proven outcomes in promoting the formation of new bone⁶ • Spongy block form⁶ with no sharp edges reduces the risk of perforation^{6,7,8} • OSSIX™ Bone was remodeling into new bone without residual graft particles¹ 	

Membranes	
 OSSIX® Plus	 OSSIX Agile™
N/A	N/A

Scaffold
 OSSIX® Volumax
N/A

Clinical Indications

Socket Preservation	Crestal Sinus Elevation
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Bone Graft
OSSIX™ Bone
<ul style="list-style-type: none"> • As an ossifying collagen sponge, there is no product particle migration^{6,9} • It cannot be dispersed in the sinus, even in the case of large tears in the mucosa. Effectively seals perforations with its block form and provides a cushioned support of fragile sinus membranes^{6,9} • OSSIX™ Bone, in combination with endosinusual elevators, could be considered as a suitable material for t-SFA due to its proven outcomes in promoting the formation of new bone⁶ • Spongy block form⁶ with no sharp edges reduces the risk of perforation^{6,7,8} • OSSIX™ Bone was remodeling into new bone without residual graft particles¹
Can be used with other membranes including Symbios® membranes

Membranes	
OSSIX® Plus	OSSIX Agile™
<ul style="list-style-type: none"> • Maintains long lasting barrier effect (4-6 months)² • 3-5 weeks of degradation resistance when exposed³ • Excellent preservation of the keratinized tissues (width and thickness)³ 	<ul style="list-style-type: none"> • Maintains long-lasting barrier effect⁴ • Can be tacked and sutured⁴
Can be used with other bone graft materials Symbios® Granules	

Scaffold
OSSIX® Volumax
<ul style="list-style-type: none"> • Maintains long-lasting barrier effect (4-6 months)²
Should be used with a bone graft such as OSSIX™ Bone

Clinical Indications

Socket Preservation	Crestal Sinus Elevation
Lateral Window Sinus Elevation	Lateral Ridge (Horizontal) Augmentation
Vertical Ridge Augmentation	Periodontal Defects
Immediate Implant Placement	Additional Procedures

Clinical Case Study

Bone Graft
<p>OSSIX™ Bone</p> <ul style="list-style-type: none"> Increases amount of vital bone over a 4-month healing period¹ OSSIX™ Bone was remodeling into new bone without residual graft particles¹ <p>Can be used with other membranes including Symbios® membranes</p>


Membranes	
<p>OSSIX® Plus</p> <ul style="list-style-type: none"> Maintains long lasting barrier effect (4-6 months)² 3-5 weeks of degradation resistance when exposed³ Excellent preservation of the keratinized tissues (width and thickness)³ 	<p>OSSIX Agile™</p> <ul style="list-style-type: none"> Maintains long lasting barrier effect⁴ Can be tacked and sutured⁴
Can be used with other bone graft materials including Symbios® Granules	



Scaffold
<p>OSSIX® Volumax</p> <ul style="list-style-type: none"> Increases soft tissue thickness when placed under flaps⁵ Can be used for extra volume in lateral bone augmentation procedures⁴ <p>Can be used with other bone graft materials including Symbios® Granules</p>


Clinical Indications

Socket Preservation	Crestal Sinus Elevation
Lateral Window Sinus Elevation	Lateral Ridge (Horizontal) Augmentation
Vertical Ridge Augmentation	Periodontal Defects
Immediate Implant Placement	Additional Procedures

Clinical Case Study

Bone Graft	
	
<ul style="list-style-type: none"> • Can be used alongside other bone graft materials • Increases amount of vital bone over a 4-month healing period¹ • OSSIX™ Bone was remodeling into new bone without residual graft particles¹ 	
<p>Can be used with other membranes including Symbios® membranes</p>	

Membranes	
	
<ul style="list-style-type: none"> • Maintains long lasting barrier effect (4-6 months)² • 3-5 weeks of degradation resistance when exposed³ • Excellent preservation of the keratinized tissues (width and thickness)³ 	<ul style="list-style-type: none"> • Maintains long lasting barrier effect⁴ • Can be tacked and sutured⁴
<p>Can be used with other bone graft materials including Symbios® Granules</p>	

Scaffold

<ul style="list-style-type: none"> • Increases soft tissue thickness when placed under flaps⁵ • Can be used to increase volume in lateral and vertical bone augmentation procedures^{4,11}
<p>Can be used with other bone graft materials including Symbios® Granules</p>

Clinical Indications

Socket Preservation	Crestal Sinus Elevation
Lateral Window Sinus Elevation	Lateral Ridge (Horizontal) Augmentation
Vertical Ridge Augmentation	Periodontal Defects
Immediate Implant Placement	Additional Procedures

Bone Graft
OSSIX™ Bone
<ul style="list-style-type: none"> Increases amount of vital bone over a 4-month healing period¹ OSSIX™ Bone was remodeling into new bone without residual graft particles¹
Can be used with other membranes including Symbios® membranes


Membranes	
OSSIX® Plus	OSSIX Agile™
<ul style="list-style-type: none"> Maintains long lasting barrier effect (4-6 months)² 3-5 weeks of degradation resistance when exposed³ Excellent preservation of the keratinized tissue (width and thickness)³ 	<ul style="list-style-type: none"> Maintains long lasting barrier effect⁴ Can be tacked and sutured⁴
Can be used with other bone graft materials including Symbios® Granules	



Scaffold
OSSIX® Volumax
<ul style="list-style-type: none"> Increases soft tissue thickness when placed under flaps⁵
Can be used with other bone graft materials including Symbios® Granules


Clinical Case Study

Clinical Indications

Socket Preservation	Crestal Sinus Elevation
Lateral Window Sinus Elevation	Lateral Ridge (Horizontal) Augmentation
Vertical Ridge Augmentation	Periodontal Defects
Immediate Implant Placement	Additional Procedures

Bone Graft
 OSSIX™ Bone
<ul style="list-style-type: none"> Increases amount of vital bone over a 4-month healing period¹ OSSIX™ Bone was remodeling into new bone without residual graft particles¹ Well-maintained bone volume¹⁰
Can be used with other membranes including Symbios® membranes

Membranes	
 OSSIX® Plus	 OSSIX Agile™
<ul style="list-style-type: none"> Maintains long lasting barrier effect (4-6 months)² 3-5 weeks of degradation resistance when exposed³ Excellent preservation of the keratinized tissues (width and thickness)³ 	<ul style="list-style-type: none"> Maintains long lasting barrier effect⁴ Can be tacked and sutured⁴
Can be used with other bone graft materials including Symbios® Granules	

Scaffold
 OSSIX® Volumax
<ul style="list-style-type: none"> Maintains long barrier effect (4-6 months)²
Can be used with other bone graft materials including Symbios® Granules

Clinical Case Study





Clinical Indications

Socket Preservation	Crestal Sinus Elevation
Lateral Window Sinus Elevation	Lateral Ridge (Horizontal) Augmentation
Vertical Ridge Augmentation	Periodontal Defects
Immediate Implant Placement	Additional Procedures





Clinical Case Study

Clinical Case Study

Prevention of Marginal Bone Loss & 2nd Stage Implant Surgery

Bone Graft	Membranes	
 OSSIX™ Bone	 OSSIX® Plus	 OSSIX Agile™
N/A	N/A	N/A
Scaffold		
 OSSIX® Volumax		
OSSIX® Volumax is designed to thicken tissue under thin mucosa, improving soft tissue quality next to bone graft ⁵		

Increase Soft Tissue Volume

Bone Graft	Membranes	
 OSSIX™ Bone	 OSSIX® Plus	 OSSIX Agile™
N/A	N/A	N/A
Scaffold		
 OSSIX® Volumax		
<ul style="list-style-type: none"> • OSSIX® Volumax contributes positively to soft tissue quality next to bone graft⁵ • Increases the width of the keratinized mucosa tissue when placed under a flap⁵ 		

SKUs

OSSIX™ Bone		OSSIX® Plus	
Order no.	Size	Order no.	Size
3231 0009	5x5x5 mm	3290 5284	15x25 mm
3231 0010	5x5x10 mm	3290 5285	25x30 mm
3231 0011	5x10x10 mm	3290 5286	30x40 mm
OSSIX® Volumax		OSSIX Agile™	
Order no.	Size	Order no.	Size
3290 5287	10x12.5 mm	6801 8004	10x12.5 mm
3290 5288	15x25 mm	6801 8005	15x20 mm
3290 5289	25x30 mm	6801 8006	20x30 mm
3290 5290	10x40 mm	6801 8007	40x30 mm

Reference

1. Casarez-Quintana A, et al (2022). Comparing the histological assessment following ridge preservation using a composite bovine-derived xenograft versus an alloplast hydroxyapatite-sugar cross-linked collagen matrix. *Journal of Periodontology*, 2022;1-10
2. Zubery Y, Goldlust A, Alves A, and Nir E. (2007). Ossification of a Novel Cross-Linked Porcine Collagen Barrier in Guided Bone Regeneration in Dogs. *Journal of Periodontology*, 78(1), 112-121
3. Heather R. Hong et al. (2018) Ridge preservation procedures revisited: A randomized controlled trial to evaluate dimensional changes with two different surgical protocols, *Journal of Periodontology*, Volume 90, Issue4
4. Data on file
5. Tavelli L, Barootchi S, Rodriguez MV, Meneghetti PC, Mendonça G, Wang HL. Volumetric Outcomes of Peri-implant Soft Tissue Augmentation with a Xenogeneic Cross-Linked Collagen Scaffold: A Comparative Clinical Study. *Int J Periodontics Restorative Dent*. 2023 Jul-Aug;43(4):415-422
6. Luigi Canullo DDS, PhD et al. Sinus floor augmentation using crestal approach in conjunction with hydroxyapatite/cross-linked collagen sponge: A pilot study. *Clin Implant Dent Relat Res*. 2023;1-10
7. Favero R et al. Sinus mucosa thinning and perforations after sinus lifting performed with different xenografts: A histological analysis in rabbits. *Dent J (Basel)* 2021;10:2
8. Soares LF et al. Evaluation of different approaches for sinus membrane perforation repair during sinus elevation: A systematic review and meta-analysis. *JOMI* 2024; 39: 107-118
9. Neiva R. Evolution of biomaterials in implant dentistry leads to enhanced tissue quality. *Compend Contin Educ Dent*. 2022;43(7): 454-455
10. Roberto Abundo et al. Case Report: Alveolar Ridge Preservation with a Novel Cross-Linked Collagen Sponge: Histological Findings from a Case Report *J. Clin. Med.* 2023, 12, 7599
11. According to OSSIX® Volumax IFU

Warnings

OSSIX® products must not be used in patients with known collagen hypersensitivity, sensitivity to porcine-derived materials, or suffer from autoimmune diseases and connective tissue diseases. As the products are of a collagen origin, allergic reactions may not be entirely excluded.

Please read [IFUs](#) before use and for additional information on indications, contraindications, warnings, and precautions.

For more information on OSSIX® regenerative products and clinical educational activities in your region, go to: **regenerative.dentsplysirona.com**.

