



# OSSIX<sup>®</sup> 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<sup>®</sup> Products



**OSSIX<sup>™</sup> Bone**  
Ossifying Collagen Sponge



**OSSIX<sup>®</sup> Volumax**  
Volumizing, Ossifying  
Collagen Scaffold



**OSSIX<sup>®</sup> Plus**  
Ossifying Collagen  
Barrier Membrane



**OSSIX Agile<sup>™</sup>**  
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

<b>Bone Graft</b>	
<ul style="list-style-type: none"> <li>• <b>OSSIX™ Bone</b></li> <li>• No membrane is required in some socket preservation cases<sup>1</sup></li> <li>• Increases amount of vital bone over a 4-month healing period<sup>1</sup></li> <li>• There are no residual graft particles after 4 months<sup>1</sup></li> <li>• OSSIX™ Bone is an ossifying collagen sponge<sup>6</sup></li> </ul>	
Can be used with other membranes including Symbios® membranes	

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

<b>Scaffold</b>	
<ul style="list-style-type: none"> <li>• <b>OSSIX® Volumax</b></li> <li>• Increases soft tissue thickness when placed under flaps<sup>5</sup></li> <li>• Provides adequate mechanical properties for space maintenance while still undergoing an active absorption / incorporation process that takes 4 to 6 months in the oral cavity<sup>9</sup></li> </ul>	
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"> <li>• As an ossifying collagen sponge, there is no product particle migration<sup>6,9</sup></li> <li>• 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<sup>6,9</sup></li> <li>• 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 bone<sup>6</sup></li> <li>• Spongy block form<sup>6</sup> with no sharp edges reduces the risk of perforation<sup>6,7,8</sup></li> <li>• There are no residual graft particles after 4 months<sup>1</sup></li> </ul>	

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

Scaffold
OSSIX® Volumax
N/A

Clinical Case Study

# Clinical Indications

Socket Preservation	Crestal Sinus Elevation
Lateral Window Sinus Elevation	Lateral Ridge (Horizontal) Augmentation
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Clinical Case Study

<h3>Bone Graft</h3> <h4>OSSIX™ Bone</h4> <ul style="list-style-type: none"> <li>As an ossifying collagen sponge, there is no product particle migration<sup>6,9</sup></li> <li>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<sup>6,9</sup></li> <li>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 bone<sup>6</sup></li> <li>Spongy block form<sup>6</sup> with no sharp edges reduces the risk of perforation<sup>6,7,8</sup></li> <li>There are no residual graft particles after 4 months<sup>1</sup></li> </ul> <p><b>Can be used with other membranes including Symbios™ membranes</b></p>
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<h3>Membranes</h3>	
<h4>OSSIX® Plus</h4> <ul style="list-style-type: none"> <li>Maintains long lasting barrier effect (4-6 months)<sup>2</sup></li> <li>3-5 weeks of degradation resistance when exposed<sup>3</sup></li> <li>Excellent preservation of the keratinized tissues (width and thickness)<sup>3</sup></li> </ul>	<h4>OSSIX Agile™</h4> <ul style="list-style-type: none"> <li>Maintains long-lasting barrier effect<sup>4</sup></li> <li>Can be tacked and sutured<sup>4</sup></li> </ul>
<p><b>Can be used with other bone graft materials Symbios™ Granules</b></p>	

<h3>Scaffold</h3> <h4>OSSIX® Volumax</h4> <ul style="list-style-type: none"> <li>Maintains long-lasting barrier effect (4-6 months)<sup>2</sup></li> </ul> <p><b>Should be used with a bone graft such as OSSIX™ Bone</b></p>
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# 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

<b>Bone Graft</b>
<p><b>OSSIX™ Bone</b></p> <ul style="list-style-type: none"> <li>Increases amount of vital bone over a 4-month healing period<sup>1</sup></li> <li>There are no residual graft particles after 4 months<sup>1</sup></li> </ul> <p><b>Can be used with other membranes including Symbios® membranes</b></p>

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

<b>Scaffold</b>
<p><b>OSSIX® Volumax</b></p> <ul style="list-style-type: none"> <li>Increases soft tissue thickness when placed under flaps<sup>5</sup></li> <li>Can be used for extra volume in lateral bone augmentation procedures<sup>4</sup></li> </ul> <p><b>Can be used with other bone graft materials including Symbios® Granules</b></p>


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

<b>Bone Graft</b>	
	
<p>Can be used alongside other bone graft materials</p> <ul style="list-style-type: none"> <li>• Increases amount of vital bone over a 4-month healing period<sup>1</sup></li> <li>• There are no residual graft particles after 4 months<sup>1</sup></li> </ul>	
<p><b>Can be used with other membranes including Symbios<sup>®</sup> membranes</b></p>	

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

<b>Scaffold</b>

<ul style="list-style-type: none"> <li>• Increases soft tissue thickness when placed under flaps<sup>5</sup></li> <li>• Can be used to increase volume in lateral and vertical bone augmentation procedures<sup>4,11</sup></li> </ul>
<p><b>Can be used with other bone graft materials including Symbios<sup>®</sup> Granules</b></p>

# Clinical Indications

Socket Preservation	Crestal Sinus Elevation
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Vertical Ridge Augmentation	Periodontal Defects
Immediate Implant Placement	Additional Procedures

<b>Bone Graft</b>
<p><b>OSSIX™ Bone</b></p> <ul style="list-style-type: none"> <li>Increases amount of vital bone over a 4-month healing period<sup>1</sup></li> <li>There are no residual graft particles after 4 months<sup>1</sup></li> </ul> <p><b>Can be used with other membranes including Symbios® membranes</b></p>

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


<b>Scaffold</b>
<p><b>OSSIX® Volumax</b></p> <ul style="list-style-type: none"> <li>Increases soft tissue thickness when placed under flaps<sup>5</sup></li> </ul> <p><b>Can be used with other bone graft materials including Symbios® Granules</b></p>



Clinical Case Study


# Clinical Indications

Socket Preservation	Crestal Sinus Elevation
Lateral Window Sinus Elevation	Lateral Ridge (Horizontal) Augmentation
Vertical Ridge Augmentation	Periodontal Defects
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Clinical Case Study

<b>Bone Graft</b>	
	
<ul style="list-style-type: none"> <li>Increases amount of vital bone over a 4-month healing period<sup>1</sup></li> <li>There are no residual graft particles after 4 months<sup>1</sup></li> <li>Well-maintained bone volume<sup>10</sup></li> </ul>	
<p><b>Can be used with other membranes including Symbios<sup>®</sup> membranes</b></p>	

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

<b>Scaffold</b>

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





# Clinical Indications

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Clinical Case Study

Clinical Case Study

## Prevention of Marginal Bone Loss & 2<sup>nd</sup> Stage Implant Surgery

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

## Increase Soft Tissue Volume

Bone Graft	Membranes	
 OSSIX™ Bone	 OSSIX® Plus	 OSSIX Agile™
N/A	N/A	N/A
<b>Scaffold</b>		
 OSSIX® Volumax		
<ul style="list-style-type: none"> <li>• OSSIX® Volumax contributes positively to soft tissue quality next to bone graft<sup>5</sup></li> <li>• Increases the width of the keratinized mucosa tissue when placed under a flap<sup>5</sup></li> </ul>		

# SKUs

 <b>OSSIX™ Bone</b>		 <b>OSSIX® Plus</b>	
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
 <b>OSSIX® Volumax</b>		 <b>OSSIX Agile™</b>	
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 membrane is 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](https://regenerative.dentsplysirona.com)**.

