



Trusted Clinical Solutions

# Biomaterials Portfolio

Bone Blocks



Bone Grafts  
Particulates



Soft-Tissue Graft



Sutures



CustomGraft  
Solutions™



Wound Dressings



Barrier  
Membranes





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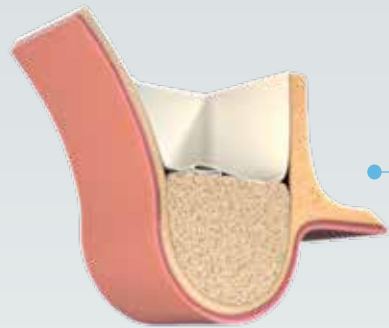
# The Power of Puros Allografts Bone Augmentation Materials

Clinicians around the globe have counted on the Puros family of allografts for hard tissue augmentation procedures for years.

The brand's renowned reputation is based on:\*

- Predictable processing and configuration
- Clinically used in dentistry since 1999<sup>1-3</sup>
- Backed up by more than 300 scientific articles<sup>1-5</sup>
- Allowing for creation of healthy, vital bone<sup>6-9</sup>
- Predictable remodeling shown in human clinical studies<sup>10-15</sup>
- Easy-to-use, terminally sterilized<sup>16</sup>
- Quick hydration, five-year shelf life and storage at room temperature<sup>16</sup>

## More Studies than Any Other Allograft<sup>5</sup>



Up to 127% more vital bone formation compared to non resorbable xenograft in sinus lift procedures.<sup>10</sup>

## The Proprietary Tutoplast® Process

In 1969 the Tutoplast Tissue Sterilization Process was developed to sterilize and preserve tissue for implantation. More than 6 million implants have been sterilized through the Tutoplast Process with zero confirmed incidence of implant-associated infection.<sup>17</sup>

## The Benefits of the Multi-Step Tutoplast Process for Puros Particulate Bone Graft



For bone allografts, the process preserves the valuable bone mineral, collagen matrix and tissue integrity<sup>18</sup> while inactivating pathogens and gently removing unwanted materials, such as cells, antigens and viruses<sup>17</sup> — resulting in predictable, reliable, sterile and safe tissue.<sup>17</sup>

\* Claims referenced apply to Tutoplast processed products.

1. Gambini A. et al. Chir Organi Mov (1999) 84:359-66. 2. Rocci A. et al. Quintessence International, Edizione Italiana (1999) 15:373-380. 3. Semergidis T. et al. Int. J. Oral Maxillofac Surg (1999) 28:91. 4. Baldi D. et al. Implant Dent (2019) 28:472-477. 5. Pubmed search (July 6th 2020). 6. Tsao Y.P. et al. J Periodontol (2006) 77:416-25. 7. Leonetti J.A. et al. Implant Dent (2003) 12:217-226. 8. Keith J.D. et al. Int J Periodont Rest (2006) 26:321-327. 9. La Monaca G. et al. Case reports in dentistry (2019) 8, Article ID 6725351. 10. Froum S.J. et al. Int J Periodont Rest (2006) 26:543-51. 11. Noubissi S.S. et al. J Oral Implantol (2005) 31:171-9. 12. Block M.S. et al. J Am Dent Assoc (2002) 133:1631-1638. 13. Minichetti J.C. et al. J Oral Implantol (2004) 30:74-82. 14. Schmitt C.M. et al. Clin Oral Implants Res (2013) 24:576-85. 15. Soardi C.M. et al. Int J Oral Maxillofac Implants (2016) 31:352-8. 16. Puros Allograft IFU latest revision. 17. Data on File with RTI Surgical, Inc. 18. Tadic D. et al. Biomaterials (2004) 25:987-94.



# Bone Graft Materials





# Puros Cancellous Particulate Allograft

## Allograft Bone Grafts

### Key Benefit:

Puros Cancellous Particulate Allograft with a history of documented clinical results, is an easy-to-handle choice for predictable bone regeneration and acts as an osteoconductive scaffold for new bone formation.<sup>1-8</sup>

### Clinical Advantages:

- Up to 127 % more vital bone formation compared to non-resorbable xenograft in sinus lift procedures<sup>2,3,9</sup>
- Newly formed vital bone after 3 to 5 months<sup>4,8,10</sup> in extraction sockets
- 56 % more graft-to-bone contact compared to non-resorbable xenograft<sup>3</sup>
- Ø 9,7 mm vertical gain after 4 to 5 months when using Puros Allograft particulates with tenting screws<sup>11</sup>
- Retains osteoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern, and original porosity,<sup>1-6,8,12-14</sup> enabling the ingrowth of vascular and cellular connective tissue<sup>4</sup>

### Shown Clinically Successful In:

- Regeneration of periodontal bone and furcation defects<sup>1,6,15</sup>
- Regeneration of extraction sockets<sup>4,7,8,10</sup>
- Regeneration of gaps around block grafts<sup>12,13</sup>
- Horizontal alveolar ridge augmentation<sup>16-19</sup>
- Sinus augmentation<sup>2,9,20,21</sup>



### Puros Cancellous Particulate Allograft

Catalog No.	Description
67210	Puros Cancellous Particles, 0.25–1 mm/0.5 cc
67211	Puros Cancellous Particles, 0.25–1 mm/1 cc
67209	Puros Cancellous Particles, 0.25–1 mm/2 cc
67212	Puros Cancellous Particles, 1–2 mm/0.5 cc
67213	Puros Cancellous Particles, 1–2 mm/1 cc
67214	Puros Cancellous Particles, 1–2 mm/2 cc
67215	Puros Cancellous Particles, 1–2 mm/3 cc

Shelf-life: Five (5) years

1. Tsao Y.P. et al. J Periodontol (2006) 77:416-25. 2. Froum S.J. et al. Int J Periodontics Restorative Dent (2006) 26:543-51. 3. Noubissi S.S. et al. J Oral Implantol (2005) 31:171-9. 4. Minichetti J.C. et al. J Oral Implantol (2004) 30:74-82. 5. Data on File with RTI, Surgical Inc. 6. Dayi E. et al. J Int Med Res (2002) 30:168-73. 7. Baldi D. et al. Implant Dent (2019) 28:472-477. 8. Block M.S. et al. J Am Dent Assoc (2002) 133:1631-1638. 9. Schmitt C.M. et al. Clin Oral Implants Res (2013) 24:576-85. 10. Beck T.M. et al. J Periodontol (2010) 81:1765-72. 11. Le B. et al. J Oral Maxillofac Surg (2010) 68:428-435. 12. Keith J.D. et al. Int J Periodontics Restorative Dent (2006) 26:321-327. 13. Leonetti J.A. et al. Implant Dent. (2003) 12:217-226. 14. Tadic D. et al. Biomaterials (2004) 25:987-94. 15. Reddy B. et al. Journal of International Society of Preventive and Community Dentistry (2016) 6:248-253. 16. Block M.S. et al. J Oral Maxillofac Surg (2004) 62:67-72. 17. Le B. et al. Implant Dent (2008) 17:40-50. 18. Ronda M. et al. Clin Oral Implants Res (2014) 25:859-66. 19. La Monaca G. et al. Case reports in dentistry (2019) 8, Article ID 6725351. 20. Soardi C.M. et al. Int J Periodontics Restorative Dent (2020) 40:757-764. 21. Monje A. et al. Int J Oral Maxillofac Implants (2017) 32:121-127.



# Puros Cortical Particulate Allograft

## Allograft Bone Grafts

### Key Benefit:

Puros Cortical Particulate Allograft can be used in space maintenance and volume enhancement procedures.<sup>1,2</sup> It is slow-resorbing and maintains an open network for the proliferation of bone-forming cells.<sup>1,3</sup>

### Clinical Advantages:

- Without sacrificing ridge contour, cortical particles remodel into a dense, lamellar structure, as well as viable bone—with similar density to native bone<sup>4</sup>
- Ø 2 mm in buccal bone thickness when used in a “sandwich” technique for the treatment of localized buccal dehiscence defects<sup>4</sup>
- 40 % mineralized bone and 0,47 % residual grafting materials after 4 months healing time in sinus lift procedures<sup>5</sup>
- Clinical and radiographic graft stability after 5 years follow up in sinus lift procedures.<sup>6</sup>
- Reduced vertical and horizontal bone resorption when used in immediate implant placement extraction sites<sup>7</sup>

### Shown Clinically Successful In:

- Sinus augmentation<sup>3,5,8,9</sup>
- Alveolar ridge augmentation<sup>2,10,11</sup>
- “Tenting” and “sandwich” grafting techniques<sup>12-16</sup>
- Immediate implant post extraction sockets<sup>7</sup>



### Puros Cortical Particulate Allograft

Catalog No.	Description
67271	Puros Cortical Particles, 0.25–1 mm/0.5 cc
67272	Puros Cortical Particles, 0.25–1 mm/1 cc
67273	Puros Cortical Particles, 0.25–1 mm/2 cc
67274	Puros Cortical Particles, 1–2 mm/0.5 cc
67275	Puros Cortical Particles, 1–2 mm/1 cc
67276	Puros Cortical Particles, 1–2 mm/2 cc

Shelf-life: Five (5) years

1. Wang H.L. et al. *Implant Dent* (2006) 15:8-17. 2. El Chaar E. et al. *Int J Periodontics Restorative Dent* (2019) 39:491-500. 3. Berberi A. et al. *Journal of Maxillofacial and Oral Surgery* (2015) 14:624-629. 4. Park S.H. et al. *Int J Periodont. Rest* (2006) 26:589-95. 5. Berberi A. et al. *Implant Dent*. (2016) 25:353-60. 6. Annibaldi S. et al. *Implant Dent* (2011) 20:445-54. 7. Orti V. et al. *J Periodontal Implant Sci* (2016) 46:291-302. 8. Soardi C.M. et al. *Int J Periodontics Restorative Dent* (2020) 40:757-764. 9. Monje A. et al. *Int J Oral Maxillofac Implants* (2017) 32:121-127. 10. Abed P.F. et al. *J Int Acad Periodontol* (2020) 22:11-20. 11. Wen S. et al. *Int J Periodontics Restorative Dent* (2018) 38:79. 12. Leong D.J. et al. *Implant Dent* (2015) 24:4-12. 13. Fu J.H. et al. *Clin Oral Implants Res* (2014) 25:458-67. 14. Fu J.H. et al. *Clin Oral Implants Res* (2014) 26:1150-7. 15. Fu J.-H. et al. *Clin Adv Periodontics* (2012) 2:172-177. 16. Lee A. et al. *Implant Dent* (2009) 18:282-90.



# Puros Blend Particulate Allograft

## Allograft Bone Grafts

### Key Benefit:

Puros Blend Particulate Allograft is an anatomic-based mix of cortical and cancellous bone particulate which combines the space maintenance of cortical bone and the rapid remodelling of cancellous bone.<sup>1</sup>

### Clinical Advantages:

- Retains osteoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern and original porosity<sup>2</sup>
- Easy handling—quick rehydration, 5-year shelf life and room-temperature storage<sup>3</sup>
- No need to mix on-site
- Single-donor vials

### Shown Clinically Successful In:

- Augmentation around implants<sup>3</sup>
- Alveolar ridge augmentation/reconstruction<sup>3</sup>
- Sinus lifts<sup>3</sup>



### Puros Blend Particulate Allograft

Catalog No.	Description
67800	Puros Blend Particulate, 0.25–1 mm/0.5 cc
67801	Puros Blend Particulate, 0.25–1 mm/1 cc
67802	Puros Blend Particulate, 0.25–1 mm/2 cc
67803	Puros Blend Particulate, 1–2 mm/0.5 cc
67804	Puros Blend Particulate, 1–2 mm/1 cc
67805	Puros Blend Particulate, 1–2 mm/2 cc

Shelf-life: Five (5) years

1. Soardi C.M. et al. Clin Oral Implants Res (2011) 22:560-6. 2. Data on File with RTI Surgical Inc. 3. Puros Allograft IFU latest revision.





# Puros Allograft Bone Blocks and Cancellous Dowel

## Allograft Bone Grafts

### Key Benefit:

By eliminating the need to harvest an autogenous block graft, Puros Block Allografts may save time, help to reduce pain and can shorten the patient's rehabilitation period.<sup>1</sup>

### Clinical Advantages:

- Retains osteoconductive properties due to the preservation of the natural bone matrix collagen and mineral composition, trabecular pattern and original porosity<sup>2,3</sup>
- No need for a second surgery to harvest bone
- Implants can be placed 5 to 6 months post-grafting<sup>2,4</sup>
- Clinical data showing comparable results to grafting with autogenous bone blocks<sup>1,5,6</sup>
- Restores volume to severely resorbed ridges effectively as shown after 9 years follow up<sup>1,2,4,7</sup>

### Shown Clinically Successful In:

- Horizontal bone grafting<sup>1,2,8,9</sup>
- Vertical bone grafting<sup>4,5</sup>

\*) Geen voorraadartikel



Puros Allograft Block

Puros Allograft Cancellous Dowel



Puros Allograft Cancellous Block

### Puros Allograft Bone Blocks & Puros Allograft Cancellous Dowel

Catalog No.	Description
67220	Puros Block Allograft, 15 x 10 x 9 mm
67221	Puros Block Allograft, 15 x 15 x 9 mm
67222	Puros Allograft Cancellous Block, 8 x 8 x 8 mm
67223	Puros Allograft Cancellous Block, 10 x 10 x 20 mm
67224	Puros Allograft Cancellous Block, 10 x 20 x 20 mm
67225	Puros Allograft Cancellous Dowel, Ø 7 mm, L 14–18 mm
67226	Puros Allograft Cancellous Dowel, Ø 10 mm, L 16–20 mm

Shelf-life: Five (5) years

1. Schlee M. et al. Head & Face Medicine (2014) 10:21. 2. Keith J.D. et al. Int J Periodontics Restorative Dent (2006) 26:321-327. 3. Tadic D. et al. Biomaterials (2004) 25:987-994. 4. Leong D.J. et al. Implant Dent (2015) 24:4-12. 5. Laino L. et al. Biomed Res Int (2014) 2014:982104. 6. Motamedian S.R. et al. Ann Maxillofac Surg (2016) 6:78-90. 7. Bauchet T. Implant (2020) 26:1-8. 8. Jacotti M. et al. Implant Dent (2012) 21:444-8. 9. Tresguerres F.G.F. et al. Clin Implant Dent Relat Res (2019) 21:1087-1098.



# CopiOs Xenograft Particulates

## Xenogenic Bone Grafts

### Key Benefit:

CopiOs Xenograft does not undergo thermal treatment during processing, for this reason CopiOs Xenograft will be remodeled into newly formed vital bone after a period of time.<sup>1,2</sup>

### Clinical Advantages:

- Retains osteoconductive properties due to the preservation of the original bovine bone matrix collagen and mineral composition, trabecular pattern and original porosity<sup>3</sup>
- Biocompatible and well-tolerated as shown in animal and human studies<sup>2,4,5,6</sup>
- Ability to remodel into vital bone<sup>2,6,7</sup>
- Proven performance in large and small bone defects<sup>2,5,8</sup>

### Shown Clinically Successful In:

- Regeneration of periodontal bone defects<sup>9,10</sup>
- Grafting procedures around immediate placed implants<sup>8,9,11</sup>
- Alveolar ridge augmentation<sup>5,9,12</sup>

### CopiOs Xenograft Particulates

Catalog No.	Description
97200	CopiOs Cancellous Particulate Xenograft, 0.25–1 mm/0.5 cc
97201	CopiOs Cancellous Particulate Xenograft, 0.25–1 mm/1 cc
97202	CopiOs Cancellous Particulate Xenograft, 0.25–1 mm/2 cc
97210	CopiOs Cancellous Particulate Xenograft, 1–2 mm/0,5 cc
97211	CopiOs Cancellous Particulate Xenograft, 1–2 mm/1 cc
97212	CopiOs Cancellous Particulate Xenograft, 1–2 mm/2 cc

Shelf-life: Five (5) years



1. Data on File with RTI Surgical Inc. 2. Tudor C. et al. Oral Surg Oral Med O (2008) 105:430-436. 3. Tadic D. et al. Biomaterials (2004) 25:987-94. 4. Trentz O.A. et al. Biomaterials (2003) 24:3417-26. 5. Perret F. et al. Int J Periodontics Restorative Dent (2018) 39:97-105. 6. Thorwarth M. et al. Br J Oral Maxillofac Surg (2007) 45:41-7. 7. Günther K.P. et al. Osteologie (1996) 5:4-12. 8. Peron C. et al. Int J Periodontics Restorative Dent (2020) 40:417-424. 9. CopiOs Xenograft Particulates IFU latest revision. 10. Stavropoulos A. et al. J Periodontol (2011) 82:462-470. 11. Longoni S. et al. J Osseointegration (2016) 8:8-13. 12. Marei H.F. et al. Egypt Dent J (2017) 63:2281-2288.



# IngeniOs HA Synthetic Bone Particles

## Synthetic Bone Grafts

### Key Benefit:

Long-lasting IngeniOs HA Synthetic Bone Particles made of pure-phase hydroxyapatite (HA), a composition similar to HA found in naturally-occurring bone.<sup>1</sup>

### Clinical Advantages:

- Significantly higher cell attachment was seen with IngeniOs HA compared to Geistlich Bio-Oss at all time points in an in-vitro study<sup>2</sup>
- Long-lasting<sup>1</sup> osteoconductive support with negligible resorption to provide long-term graft stability and maintenance of volume
- Up to 80% interconnected porosity allowing for vascularized bone formation, osseointegration and the natural remodeling process to occur within the graft framework<sup>3,4</sup>
- Radiopacity of material making it easy to identify on an x-ray<sup>4</sup>
- Can be used<sup>4</sup> as a bone graft extender to provide radiopacity or long-term volume preservation

### Shown Clinically Successful In:

- Alveolar ridge augmentation/ reconstruction<sup>1,4</sup>
- Sinus lifts<sup>1,4</sup>
- Defects after removal of bone cysts<sup>1,4</sup>
- Extraction sockets<sup>4</sup>

### IngeniOs HA Synthetic Bone Particles

Catalog No.	Description
0-802501	IngeniOs HA Synthetic Bone Particles, 0.25–1 mm/0.25 cc
0-800501	IngeniOs HA Synthetic Bone Particles, 0.25–1 mm/0.5 cc
0-801001	IngeniOs HA Synthetic Bone Particles, 0.25–1 mm/ 1 cc
0-802001	IngeniOs HA Synthetic Bone Particles, 0.25–1 mm/2 cc
0-900501	IngeniOs HA Synthetic Bone Particles, 1–2 mm/0.5 cc
0-901001	IngeniOs HA Synthetic Bone Particles, 1–2 mm/1 cc
0-902001	IngeniOs HA Synthetic Bone Particles, 1–2 mm/2 cc

Shelf-life: Five (5) years



1. Holweg A. et al. EDI Journal (2012) 3:64-73. 2. Bernhardt A. et al. Clin Oral Implants Res (2011) 22:651-7. 3. Data on File with Curasan Ag. 4. IngeniOs HA Synthetic Bone Particles IFU latest revision.



# IngeniOs $\beta$ -TCP Bioactive Synthetic Bone Particles

## Synthetic Bone Grafts

### Key Benefit:

Resorbable IngeniOs  $\beta$ -TCP Bioactive Synthetic Bone Particles made of pure-phase beta tricalcium phosphate ( $\beta$ -TCP) that is silicated, providing the potential for increased bioactivity.<sup>1-3</sup>

### Clinical Advantages:

- Fully resorbable material designed to resorb in balance with replacement by naturally-regenerating mineralized bone<sup>3</sup>
- Up to 75% interconnected porosity to enable ingrowth of healthy bone tissue<sup>1,3</sup>
- Radiopacity of material making it easy to identify on an X-ray<sup>3</sup>

### Shown Clinically Successful In:

- Alveolar ridge augmentation/reconstruction<sup>3</sup>
- Sinus lifts<sup>3</sup>
- Filling of defects after root resection, apicectomy and cystectomy<sup>6</sup>
- Extraction sockets<sup>3</sup>
- Periodontal defects<sup>3</sup>

### IngeniOs $\beta$ -TCP Bioactive Synthetic Bone Particles

Catalog No.	Description
0-602501	IngeniOs $\beta$ -TCP Bioactive Synthetic Bone Particles, 0.25–1 mm/0.25 cc
0-600501	IngeniOs $\beta$ -TCP Bioactive Synthetic Bone Particles, 0.25–1 mm/0.5 cc
0-601001	IngeniOs $\beta$ -TCP Bioactive Synthetic Bone Particles, 0.25–1 mm/1 cc
0-602001	IngeniOs $\beta$ -TCP Bioactive Synthetic Bone Particles, 0.25–1 mm/2 cc
0-700501	IngeniOs $\beta$ -TCP Bioactive Synthetic Bone Particles, 1–2 mm/0.5 cc
0-701001	IngeniOs $\beta$ -TCP Bioactive Synthetic Bone Particles, 1–2 mm/1 cc
0-702001	IngeniOs $\beta$ -TCP Bioactive Synthetic Bone Particles, 1–2 mm/2 cc

Shelf-life: Five (5) years



1. Data on File with Curasan Ag. 2. Pietak A.M. et al. Biomaterials (2007) 28:4023-32. 3. IngeniOs  $\beta$ -TCP Bioactive Synthetic Bone Particles IFU latest revision.



CuztomGraft  
Solutions





# Puros Allograft Customized Block

## CuztomGraft Solutions

### Key Benefit:

Puros Allograft Customized Blocks are produced using CAD/CAM technology based on a CBCT/CT scan of the defect area. This makes the procedure more comfortable for your patient by reducing surgery time and minimizing the risk of complications.<sup>1</sup>

### Clinical Advantages:

- Customized block fits precisely to defect<sup>2</sup>
- Large contact surface area improves ingrowth of blood vessels and revascularization<sup>3</sup>
- Additional manual adjustment of the defect and of the customized block is seldomly required, allowing for reduced surgery time and reduced morbidity<sup>4</sup>
- Clinical reports have shown stable bone levels up to 2 years follow-up after implant placement<sup>5, 6</sup>

### Shown Clinically Successful In:

- Horizontal ridge reconstruction<sup>2,5,6</sup>



### Puros Allograft Customized Block

Catalog No.	Description
67217	Puros Allograft Customized Block Standard, 27 x 15 x 15 mm max
67218	Puros Allograft Customized Block Large, 27.1 x 15.1 x 15.1 mm min - 60 x 30 x 30 mm max

Shelf-life: Five (5) years



1. Schlee M. et al. *Implant Dent* (2013) 22:212-8. 2. Würzler K.K. et al. *Implantologie Journal* (2015) 5:30-36. 3. Mcallister B.S. et al. *J Periodontol* (2007) 78:377-96.  
 4. Parthasarathy J. *Ann Maxillofac Surg* (2014) 4:9-18. 5. Engler-Hamm D. *Implantologie* (2018) 26:231-242. 6. Blume O. et al. *J Esthet Restor Dent* (2018) 30:474-479.



# AccuraMesh & AccuraPlate

## CustomGraft Solutions

### Key Benefit:

AccuraMesh and AccuraPlate products are designed using a fully digital workflow. Data from 3D medical imaging devices combined with modern Computer-Aided Design (CAD) software and state-of-the-art Computer-Aided Manufacturing (CAM) processes result in high quality customized medical devices for guided bone regeneration procedures.<sup>1</sup>

### Clinical Advantages:

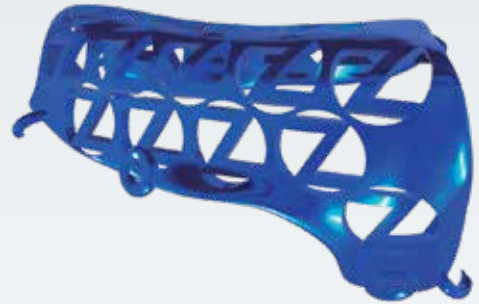
- AccuraMesh and AccuraPlate are CAD/CAM manufactured and fit precisely to the defect site<sup>2</sup>
- 2 material options available, surgical grade PEEK and Titanium (Titanium for AccuraMesh only)
- Pre-planned screw positions for reliable fixation
- Sterile packaged (ETO sterilized): 10<sup>-6</sup> Sterility assurance level<sup>3-5</sup>
- Additional manual adjustment of the bone bed or of the Accura products is seldomly required<sup>2, 6</sup>
- Reduced surgery time and morbidity<sup>2,7</sup>

### AccuraPlate Is Typically used In:

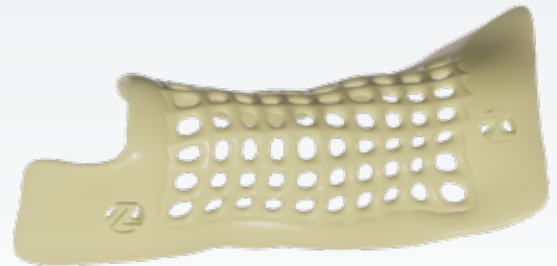
- Regeneration of horizontal bone defects<sup>5</sup>

### AccuraMesh Is Typically used In:

- Regeneration of horizontal and/or vertical bone defects<sup>1,3,4</sup>



Titanium AccuraMesh



PEEK AccuraMesh



PEEK AccuraPlate

#### AccuraMesh Products

Catalog No.	Description
TICMS	Titanium AccuraMesh Standard (up to 6 missing teeth)
TICML	Titanium AccuraMesh Large (7 or more missing teeth)
PCMS	PEEK AccuraMesh Standard (up to 6 missing teeth)
PCML	PEEK AccuraMesh Large (7 or more missing teeth)

#### AccuraPlate Products

PCPS	PEEK AccuraPlate Standard (up to 4 missing teeth)
PCPL	PEEK AccuraPlate Standard (5 or more missing teeth)

Shelf-life: Six (6) months<sup>8</sup>

1. Cruz N. et al. Materials (2020) 13:2177. 2. Lehman H. et al. Int J Oral Maxillofac Implants (2014) 29:e259-64. 3. Titanium AccuraMesh IFU latest revision. 4. PEEK AccuraMesh IFU latest revision. 5. PEEK AccuraPlate IFU latest revision. 6. Parthasarathy J. Ann Maxillofac Surg (2014) 4:9-18. 7. El Chaar E. et al. Int J Periodontics Restorative Dent (2019) 39:491-500. 8. Data on file with ResDevMed



# Barrier Membranes







# CopiOs Pericardium Membrane

## Resorbable Barrier Membranes

### Key Benefit:

CopiOs Pericardium Membrane is a long-lasting, conformable barrier—strong enough to meet most clinical needs and supple enough to adapt to challenging graft contours.<sup>1-4</sup>

### Clinical Advantages:

- Made of bovine pericardium<sup>5</sup>
- Barrier time 8–24 weeks: for longer graft protection and stabilization<sup>1,6,7</sup>
- Not side specific for convenient handling<sup>8</sup>
- Retains the structure and composition of natural pericardial tissue due to the proprietary Tutoplast process<sup>9,10</sup>
- High tensile strength and suture pull-out force may be useful for guided bone regeneration techniques<sup>7</sup>
- Clinically demonstrated performance in guided bone regeneration procedures where ease of manipulation and adaptability to surface contours is essential<sup>11-14</sup>
- Shown to provide a stable, long-lasting barrier during healing and integration of bone graft materials, and staged or immediately placed implants<sup>12,15-17</sup>
- Significantly thicker buccal bone plate when using CopiOs Pericardium membranes to cover bone graft during implant placement<sup>12,18</sup>

### Shown Clinically Successful In:

- Guided tissue regeneration (GTR) in periodontology<sup>5,19</sup>
- Covering and protecting bone graft material, e.g. in guided bone regeneration procedures (GBR)<sup>5,11,12</sup>

#### CopiOs Pericardium Membrane

Catalog No.	Description
97002	CopiOs Pericardium Membrane, 15 mm x 20 mm
97003	CopiOs Pericardium Membrane, 20 mm x 30 mm
97004	CopiOs Pericardium Membrane, 30 mm x 40 mm

Shelf-life: Five (5) years



1. Rothamel D. et al. Clin Oral Implants Res (2005) 16:369-78. 2. Data on file with RTI Biologics Inc, USA. 3. Leong D.J. et al. Implant Dent (2015) 24:4-12. 4. Berberi A. et al. J Maxillofac Oral Surg (2015) 14:263-70. 5. CopiOs Pericardium Membrane IFU latest revision. 6. Siar C.H. et al. Clin Oral Implants Res (2011) 22:113-20. 7. Gasser A. et al., Mechanical stability of collagen membranes: an in vitro study, in AADR/CADR Meeting. 2016: Los Angeles. 8. Data on File with Zimmer Biomet Dental. 9. Marashdeh M.Q.M., Characterization and Development of Optimization Strategy for the Processing of Allogenic and Xenogenic Bone and Pericardium. 2007, Thesis, University of Erlangen-Nürnberg. 10. Kasaj A. et al. Head Face Med (2008) 4:22. 11. El Chaar E. et al. J Oral Implantol (2017) 43:114-124. 12. Fu J.H. et al. Clin Oral Implants Res (2014) 25:458-67. 13. Soardi C.M. et al. Clin Adv Periodontics (2013) 4:1-7. 14. Fu J.-H. et al. Clin Adv Periodontics (2012) 2:172-177. 15. Sterio T.W. et al. Int J Periodontics Restorative Dent (2013) 33:499-507. 16. Le B. et al. J Oral Maxillofac Surg (2016) 74:1552-61. 17. Laino L. et al. Biomed Res Int (2014) 2014:982104. 18. Garaicoa C. et al. Clin Implant Dent Relat Res (2015) 17:717-23. 19. Schlee M. et al. Head Face Med (2012) 8:6.



# BioMend & BioMend Extend

## Resorbable Barrier Membranes

### Key Benefit:

Resorbable collagen membranes that are rigid enough to create and maintain space.<sup>1</sup>

### Clinical Advantages:

- Made of bovine achilles tendon
- Two different options of barrier time: 8 weeks max. (BioMend), 18 weeks max. (BioMend Extend)<sup>2</sup>
- Not side specific for convenient handling<sup>3</sup>
- Cell-occlusive – serves as barrier to prevent epithelial cell migration and allows passage of essential nutrients<sup>2</sup>
- Up to 54% more horizontal bone gain when using BioMend Extend membranes to cover bone graft during implant placement<sup>4</sup>

### Shown Clinically Successful In:

- Guided tissue regeneration procedures in periodontal defects<sup>2</sup>
- Periodontal surgery<sup>2, 5, 6</sup>
- Use in dental surgery procedures as a material for placement in the area of an implant, bone defect or ridge construction<sup>2, 7</sup>
- Sinus lift procedures<sup>8</sup>

### Compared To A Porcine Membrane:\*

- Significantly higher tensile strength in wet and dry state may be useful for guided bone regeneration techniques<sup>9</sup>
- 34 % more new bone fill and 28 % more bone-to-implant contact when using BioMend Extend Membranes for treatment of implant dehiscence defects.<sup>1</sup>



#### BioMend Membrane

Catalog No.	Description
0103Z	BioMend Resorbable Collagen Membrane, 15 mm x 20 mm
0105Z	BioMend Resorbable Collagen Membrane, 20 mm x 30 mm
0107Z	BioMend Resorbable Collagen Membrane, 30 mm x 40 mm

Shelf-life: Three (3) years

#### BioMend Extend Membrane

Catalog No.	Description
0140Z	Biomend Extend Resorbable Collagen Membrane, 15 mm x 20 mm
0141Z	Biomend Extend Resorbable Collagen Membrane, 20 mm x 30 mm
0142Z	Biomend Extend Resorbable Collagen Membrane, 30 mm x 40 mm

Shelf-life: Three (3) years

\*Bio-Gide Membrane, Edward Geistlich Sohne AG

1. Oh T.J. et al. Clin Oral Implants Res (2003) 14:80-90. 2. BioMend and BioMend Extend Absorbable Collagen Membrane IFU latest revision. 3. Data on File with Collagen Matrix Inc. 4. Park S.H. et al. Clin Oral Implants Res (2008) 19:32-41. 5. Wang H.L. et al. J Periodontol (1994) 65:1029-36. 6. Wang H.-L. et al. Periodontol 2000 (2012) 59:140-157. 7. Saravanan P. et al. J Oral Implantol (2013) 39:455-62. 8. Ranaan J. et al. Clin Oral Implants Res (2018). 9. Coïc M. et al. Rev Stomatol Chir Maxillofac Chir Orale (2010) 111:286-290.



# Socket Repair Membrane

## Resorbable Barrier Membranes

### Key Benefit:

The Zimmer Socket Repair Membrane is designed to assist wound healing in alveolar facial plate repair following atraumatic, flapless single-root tooth extraction.<sup>1</sup>

### Clinical Advantages:

- Made of bovine achilles tendon<sup>1</sup>
- Barrier time 26-38 weeks<sup>1</sup> (accelerated resorption will occur if exposed)
- Flapless approach preserves marginal soft-tissue contours<sup>2</sup> and does not compromise buccal bone tissue as well vascularity important to achieve high aesthetic results<sup>3</sup>

### Shown Clinically Successful In:

- 3-wall extraction sockets<sup>3-5</sup>



### Socket Repair Membrane

Catalog No.	Description
0154	Zimmer Socket Repair Membrane, 10 mm x 20 mm

Shelf-life: Three (3) years

1. Zimmer Socket Repair Membrane IFU latest revision 2. Danesh-Meyer M. Australasian Dental Practice (2008) 150-158. 3. Elian N. et al. Pract Proced Aesthet Dent (2007) 19:99-104. 4. Eskow A.J. et al. J Periodontol (2014) 85:514-24. 5. Hoang T.N. et al. J Periodontol (2012) 83:174-81.



# OsseoGuard PTFE Non-Resorbable Membranes

## Non-Resorbable Barrier Membranes

### Key Benefit:

OsseoGuard PTFE Membranes are manufactured of 100% Dense (non-expanded) PTFE which are impervious to bacteria.<sup>1,2</sup>

### Clinical Advantages of Non-Textured, High-Density PTFE Membrane<sup>3</sup>:

- Non-Resorbable: Won't resorb prematurely – you can better manage healing time
- 100% Dense (non-expanded) PTFE – Impervious to bacteria (pore size less than 0.3 µm)
- Can be left exposed – Less surgical time, preservation of soft-tissue architecture and keratinized mucosa
- Soft-tissue attaches, but doesn't grow through the membrane
- Most cost effective OsseoGuard PTFE membrane

### Clinical Advantages of Textured, High-Density PTFE Membranes<sup>3</sup>:

- Textured surface – Designed to increase membrane stabilization
- Non-Resorbable – Won't resorb prematurely – you can better manage healing time
- 100% Dense (non-expanded) PTFE – Impervious to bacteria (pore size less than 0.3 µm)
- Purposely leave the membrane exposed
- Soft-tissue attaches but doesn't grow through the membrane



OsseoGuard PTFE Non-Textured Membranes



OsseoGuard PTFE Textured Membranes

#### OsseoGuard PTFE Non-Textured Membranes

Catalog No.	Description	Units per box
NTXR1224-10	Non-textured small, 12 x 24 mm	10
NTXR2530-4	Non-textured large, 25 x 30 mm	4

Shelf-life: Four (4) years

#### OsseoGuard PTFE Textured Membranes

Catalog No.	Description	Units per box
TXR1224-1	Textured small, 12 x 24 mm	1
TXR1224-10		10
TXR2530-1	Textured large, 25 x 30 mm	1
TXR2530-4		4

Shelf-life: Four (4) years

1. Barboza E.P. et al. Implant Dent (2010) 19:2-7. 2. Hoffmann O. et al. J Periodontol (2008) 79:1355-69. 3. Data on file with manufacturer and available upon request.



# OsseoGuard PTFE Non-Resorbable Membranes

## Non-Resorbable Barrier Membranes

### Clinical Advantages of Titanium-Reinforced, High-Density PTFE Membrane<sup>1</sup>

- Grade 1 titanium, lightweight framework - easy to form in 3 dimensions and retains no memory
- Can be molded and shaped for tenting and space maintenance<sup>2</sup>
- Two different thicknesses (150 µm and 250 µm) resulting in two different handling options
- Demonstrated performance in horizontal and vertical grafting procedures<sup>2,3</sup>

### OsseoGuard PTFE Titanium-Reinforced Membranes



OsseoGuard PTFE Non-Textured Membranes			
Catalog No.		Description	Units (per box)
TR250 (250 µm thick)	TR150 (150 µm thick)		
TR250AE-1	TR150AE-1	Anterior Extraction, 12 mm x 24 mm	1
TR250AE-2	TR150AE-2		2
TR250AEY-1	TR150AEY-1	Anterior Extraction, 14 mm x 24 mm	1
TR250AEY-2	TR150AEY-2		2
TR250LF-1	TR150LF-1	Large Facial, 17 mm x 25 mm	1
TR250LF-2	TR150LF-2		2
TR250PE-1	TR150PE-1	Posterior Extraction, 20 mm x 25 mm	1
TR250PE-2	TR150PE-2		2
TR250P-1	TR150P-1	Posterior, 25 mm x 30 mm	1
TR250P-2	TR150P-2		2
TR250SMT-1	TR150SMT-1	Small-T, 25 mm x 36 mm	1
TR250SMT-2	TR150SMT-2		2
TR250LGT-1	TR150LGT-1	Large-T, 30 mm x 41 mm	1
TR250LGT-2	TR150LGT-2		2
TR250RAX-1	TR150RAX-1	Ridge Augmentation X, 30 mm x 40 mm	1
TR250RAX-2	TR150RAX-2		2
TR250RAK-1	TR150RAK-1	Ridge Augmentation K, 30 mm x 40 mm	1
TR250RAK-2	TR150RAK-2		2
TR250RAKL-1	TR150RAKL-1	Ridge Augmentation K, 40 mm x 50 mm	1
TR250RAKL-2	TR150RAKL-2		2
TR250PN-1	TR150PN-1	Perio Narrow, 13 mm x 19 mm	1
TR250PN-2	TR150PN-2		2
TR250PW-1	TR150PW-1	Perio Wide, 13 mm x 18 mm	1
TR250PW-2	TR150PW-2		2
TR250TCS-1	TR150TCS-1	Trans Crestal, 24 mm x 38 mm	1
TR250TCS-2	TR150TCS-2		2
TR250TCL-1	TR150TCL-1	Trans Crestal, 38 mm x 38 mm	1
TR250TCL-2	TR150TCL-2		2
TR250PR-1	TR150PR-1	Posterior Ridge, 38 mm x 38 mm	1
TR250PR-2	TR150PR-2		2

Shelf-life: Four (4) years

1. Data on file with manufacturer and available upon request. 2. Ronda M. et al. Clin Oral Implants Res (2014) 25:859-66. 3. Ronda M. et al. Int J Periodontics Restorative Dent (2015) 35:795-801.



# Wound Dressings





# Zimmer Collagen Plug, Tape and Patch

## Wound Dressings

### Key Benefit:

Highly porous, absorbable collagen wound dressings to protect, heal and repair oral wounds.

### Clinical Advantages:

- Made of porcine collagen<sup>1</sup>
- Holds up to 30x own weight in fluid<sup>2</sup>
- No removal needed – Resorbs in fewer than 30 days<sup>2</sup>
- Greater than 90% open pores<sup>2</sup>
- Protects wound bed – Adheres and provides coverage to oral wounds and sores
- Designed to aid healing – Porous, absorbable matrix supports delicate new tissue

### Shown Clinically Successful In:

- Periodontal surgical wounds<sup>1</sup>
- Suture sites<sup>1</sup>
- Extraction sites<sup>1</sup>
- Surgical wounds<sup>1</sup>
- Traumatic wounds<sup>1</sup>



Zimmer Collagen Plug  
10 mm x 20 mm



Zimmer Collagen Tape  
25 mm x 75 mm, 1 mm thick



Zimmer Collagen Patch  
20 mm x 40 mm, 3 mm thick

### Zimmer Collagen Plug, Tape and Patch

Catalog No.	Description
0100Z	Zimmer Collagen Tape 25 x 75 x 1 mm, 10 u/pk
0101Z	Zimmer Collagen Patch 20 x 40 x 3 mm, 10 u/pk
0102Z	Zimmer Collagen Plug 10 mm x 20 mm, 10 u/pk

Shelf-life: Three (3) years

1. Zimmer Collagen Absorbable Wound Dressings IFU latest revision. 2. Data on File with Collagen Matrix Inc.



# Soft-Tissue Graft







# Puros Dermis Allograft Tissue Matrix

## Soft-Tissue Graft

### Key Benefit:

Puros Dermis Allograft Tissue Matrix is a high-quality, natural, biocompatible dermal matrix for horizontal and vertical soft-tissue augmentation.<sup>1-3</sup>

### Clinical Advantages:

- After 5 years follow-up, no statistical significant differences in tissue thickening and gain of clinical attachment level compared to autogenous connective tissue graft when used to treat multiple gingival recessions<sup>1</sup>
- Able to demonstrate gain in keratinized tissue which remained stable after 5 years post-surgery<sup>1</sup>
- Reduces morbidity and chair time by eliminating the need to harvest an autogenous graft<sup>1</sup>
- Provides an excellent healing environment and acts as a scaffold for the patient's own tissue to grow into and regenerate vital soft-tissue<sup>2,3</sup>
- Maintains space to allow for angiogenesis and tissue remodeling, and increases the volume of attached gingiva and connective tissue<sup>2,3</sup>
- Superior tissue characteristics due to solvent dehydration processing compared to freeze dried products<sup>4</sup>
- Not cross-linked compared to a xenogeneic soft-tissue graft<sup>5</sup>
- 100% free of antibiotics: Puros Dermis tissue matrix is not treated with antibiotics like a certain freeze dried human dermis product<sup>6</sup>
- Rehydration in a single bath reduces preparation time<sup>7</sup>

### Shown Clinically Successful In:

- Horizontal and vertical soft-tissue augmentation<sup>1-3,8</sup>
- Periodontal soft tissue management<sup>9-11</sup>
- Peri-implant soft-tissue management<sup>12,13</sup>



#### Puros Dermis Allograft Tissue Matrix - Thin

Niet leverbaar in Nederland

67794	Puros Dermis Tissue Matrix, 10 x 10 mm, 0.3-0.8 mm
67795	Puros Dermis Tissue Matrix, 10 x 20 mm, 0.3-0.8 mm
67796	Puros Dermis Tissue Matrix, 10 x 40 mm, 0.3-0.8 mm
67797	Puros Dermis Tissue Matrix, 20 x 40 mm, 0.3-0.8 mm

Shelf-life: Five (5) years

#### Puros Dermis Allograft Tissue Matrix - Thick

Catalog No. Description - Thick

67793	Puros Dermis Tissue Matrix, 10 x 10 mm, 0.8-1.8 mm
67790	Puros Dermis Tissue Matrix, 10 x 20 mm, 0.8-1.8 mm
67791	Puros Dermis Tissue Matrix, 10 x 40 mm, 0.8-1.8 mm
67792	Puros Dermis Tissue Matrix, 20 x 40 mm, 0.8-1.8 mm

Shelf-life: Five (5) years

1. Kroiss S. et al. Quintessence Int. (2019) 50:278-285. 2. Petrunaro P. Inside Dent (2007) 3:2-4. 3. Petrunaro P.S. Inside Dent (2010) 2-9. 4. Hinton R. et al. Am J Sports Med (1992) 20:607-12. 5. Geistlich Fibro-Gide® IFU 08/2017. 6. Alloderm IFU 11/2017. 7. Puros Dermis Allograft Tissue Matrix IFU 06/2017. 8. Abou-Arraj R.V. et al. Int J Periodontics Restorative Dent (2017) 37:571-579. 9. Aroni M.a.T. et al. Rev Odontol UNESP (2016) 45:78-84. 10. Wang H.L. et al. J Periodontol (2014) 85:1693-701. 11. Alasmari D.S. J Am Sci (2014) 10:97-99. 12. Farina V. et al. Int J Oral Maxillofac Implants (2015) 30:909-17. 13. Puisys A. et al. Clin Oral Implants Res (2015) 26:123-9.



# Sutures





# OsseoGuard PTFE Sutures

## Sutures

### Key Benefit:

Monofilament construction prevents bacterial wicking into surgical sites.

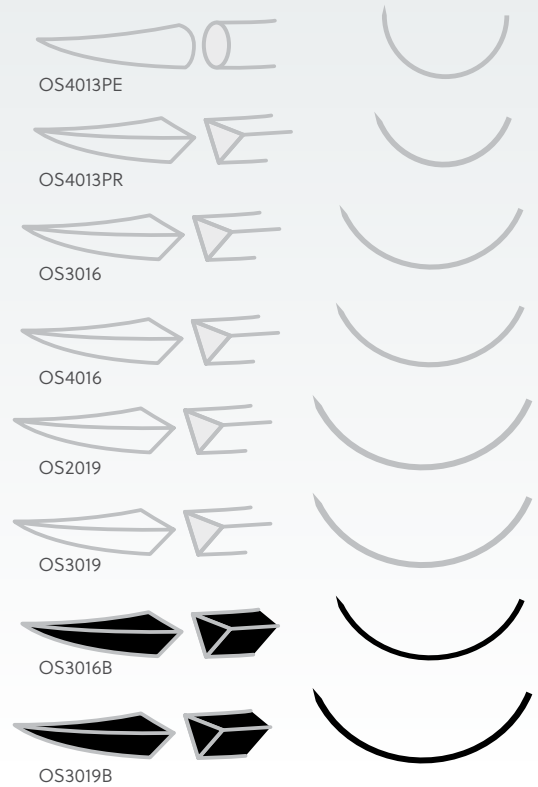
### Clinical Advantages:<sup>1</sup>

- 100% Medical Grade PTFE – Biologically inert
- Monofilament - does not allow bacteria wicking into the surgical site
- Soft and comfortable for patients
- Excellent handling and knot security
- Non-resorbable – Keeps the surgical site reliably closed



OsseoGuard PTFE Sutures		
Item No.	Description	Units per box
OS4013PE	USP 4-0, 13 mm, 1/2 circle round body taper point	12
OS4013PR	USP 4-0, 13 mm, 3/8 circle precision reverse cutting	12
OS3016	USP 3-0, 16 mm, 3/8 circle precision reverse cutting	12
OS4016	USP 4-0, 16 mm, 3/8 circle precision reverse cutting	12
OS2019	USP 2-0, 19 mm, 3/8 circle precision reverse cutting	12
OS3019	USP 3-0, 19 mm, 3/8 circle precision reverse cutting	12
OS3016B	USP 3-0, 16 mm, 3/8 circle precision reverse cutting black	12
OS3019B	USP 3-0, 19 mm, 3/8 circle precision reverse cutting black	12

Shelf-life: Four (4) years



<sup>1</sup> Data on file with manufacturer and available upon request.



# Instruments





# SAFESCRAPER TWIST - Cortical Bone Collector

## Instruments

### Key Benefit:

Effectively harvesting autogenous bone which contains viable bone cells which might contribute to the outcome of bone grafting procedures.<sup>1</sup>

### Clinical Advantages:

- Provides 160° cutting area to effectively harvest<sup>2</sup> up to 5 cc of cortical bone
- Available in curved and straight designs facilitating access to hard-to-reach posterior regions
- Harvested bone is contained in a sterile chamber
- Harvested bone contains viable bone cells and shows high osteogenic potential<sup>1,3</sup>
- Higher cell viability, cell proliferation, osteogenic potential and release of growth factors compared to other harvesting methods<sup>3,4</sup>



### SAFESCRAPER TWIST Bone Collector

Catalog No.	Description
3598	Disposable Cortical Bone Collector, 3 u/pk Straight
3987	Disposable Cortical Bone Collector, 3 u/pk Curved

Shelf-life: Three (3) years

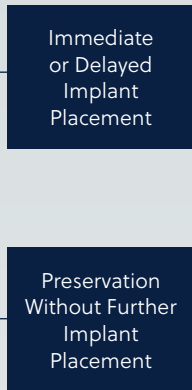
1. Zaffe D. et al. Clin Oral Implants Res (2007) 18:525-533. 2. Safescraper IFU latest revision. 3. Miron R.J. et al. J Dent Res (2011) 90:1428-33. 4. Miron R.J. et al. Clin Implant Dent Relat Res (2013) 15:481-489.

# Product Decision Tree

## ← Flapless Extraction Sites



Buccal Wall Intact



**Bone Graft (Select One Option)**  
0.5 cc<sup>1</sup>

- **Socket preservation (Delayed):** Puros Allograft Cancellous or Blend<sup>2</sup>
- **Immediate** Puros Allograft Cortical

+

· **Bone Graft**  
0.5 cc<sup>1</sup>

- IngeniOs HA<sup>7</sup>

**Socket Sealing (Select One Option)**  
12 x 24 mm<sup>1</sup>

- OsseoGuard PTFE Textured Membrane<sup>5</sup>

+

· **Socket Sealing (Select One Option)**  
12 x 24 mm<sup>1</sup>

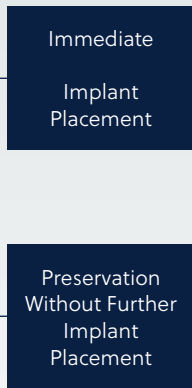
- OsseoGuard PTFE Textured Membrane<sup>5</sup>

· **Socket Sealing (Select One Option)**  
Ø 10 mm<sup>1</sup>

- Zimmer Collagen Plug<sup>6</sup>



25-50% Buccal Wall Loss



**Bone Graft**  
0.5 cc<sup>1</sup>

- Puros Allograft Cortical

+

· **Bone Graft**  
0.5 cc<sup>1</sup>

- IngeniOs HA

**Protective Barrier**  
10 x 20 mm<sup>1</sup>

- Zimmer Socket Repair Membrane<sup>8</sup>

+

**Protective Barrier**  
10 x 20 mm<sup>1</sup>

- Zimmer Socket Repair Membrane<sup>8</sup>



>50% Buccal Wall Loss\*



**Bone Graft (Select One Option)**  
1.0 cc<sup>1</sup>

- Puros Allograft Blend or Cortical<sup>2</sup>

**Protective Barrier (Select One Option)**  
15 x 20 mm<sup>1</sup> or 20 x 30 mm<sup>1</sup>

- CopiOs Pericardium Membrane<sup>9</sup>
- PEEK AccuraPlate<sup>12</sup> + Resorbable Collagen Membrane

\* When >50% bone loss is present raising a flap for ridge augmentation may be needed.

1. Product, size and volume recommendations depend on defect size and configuration. Different sizes and volumes may be needed if defect is larger or smaller.  
 2. Puros Allograft IFU latest revision. 3. Endobon Xenograft IFU latest revision. 4. RegenerOss Xenograft IFU latest revision. 5. OsseoGuard PTFE Membrane IFU latest revision. 6. Sclar A.G. Postgraduate Dentistry (1999) 6:3-11. 7. IngeniOs HA Synthetic Bone Particles IFU latest revision. 8. Zimmer Socket Repair Membrane IFU latest revision. 9. CopiOs Pericardium Membrane IFU latest revision. 10. OsseoGuard Flex Membrane IFU latest revision. 11. CopiOs Extend Membrane IFU latest revision. 12. PEEK AccuraPlate IFU latest revision.

## Extraction Sites With Flap



Thin Biotype

Bone Graft (Select One Option)	Protective Barrier (Select One Option)	Soft-Tissue Graft
0.5 cc <sup>1</sup>	15 x 20 mm <sup>1</sup> or 20 x 30 mm <sup>1</sup>	10 x 10 mm or 10 x 20 mm <sup>1</sup>
<ul style="list-style-type: none"> <li>· Immediate</li> <li>· Puros Allograft Cortical or Blend<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>· CopiOs Pericardium Membrane<sup>5</sup></li> </ul>	<ul style="list-style-type: none"> <li>· Puros Dermis Allograft (Thick)<sup>8</sup></li> </ul>

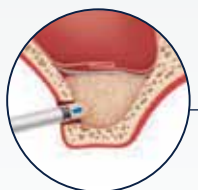


Thick Biotype

Bone Graft (Select One Option)	Protective Barrier (Select One Option)
0.5 cc <sup>1</sup>	15 x 20 mm <sup>1</sup> or 20 x 30 mm <sup>1</sup>
<ul style="list-style-type: none"> <li>· Immediate</li> <li>· Puros Allograft Cortical or Blend<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>· CopiOs Pericardium Membrane<sup>5</sup></li> </ul>

Clinical photographs ©2012 Paul S. Petrungaro, DDS, MS. All rights reserved. Individual results may vary.

## Sinus Lifts



Lateral Approach

Bone Graft (Select One Option)	Protective Barrier (Select One Option)
1.0–3.0 cc <sup>1</sup>	15 x 20 mm <sup>1</sup> or 20 x 30 mm <sup>1</sup>
<ul style="list-style-type: none"> <li>· Puros Allograft Cortical</li> <li>· IngeniOs HA</li> </ul>	<ul style="list-style-type: none"> <li>· CopiOs Pericardium Membrane (Lateral Wall)<sup>5</sup></li> <li>· BioMend Extend Membrane (for Tears in Schneiderian Membrane)<sup>9</sup></li> </ul>



Crestal Approach

Bone Graft (Select One Option)
0.5 cc <sup>1</sup>
<ul style="list-style-type: none"> <li>· Puros Allograft Cortical</li> <li>· IngeniOs HA</li> </ul>

1. Product, size and volume recommendations depend on defect size and configuration. Different sizes and volumes may be needed if defect is larger or smaller.

2. Puros Allograft IFU latest revision. 3. Endobon Xenograft IFU latest revision. 4. RegenerOss Xenograft IFU latest revision. 5. CopiOs Pericardium Membrane IFU latest revision. 6. OsseoGuard Flex Membrane IFU latest revision. 7. CopiOs Extend Membrane IFU latest revision. 8. Puros Dermis Allograft Tissue Matrix IFU latest revision.

9. BioMend and BioMend Extend Absorbable Collagen Membrane IFU latest revision.

# Product Decision Tree

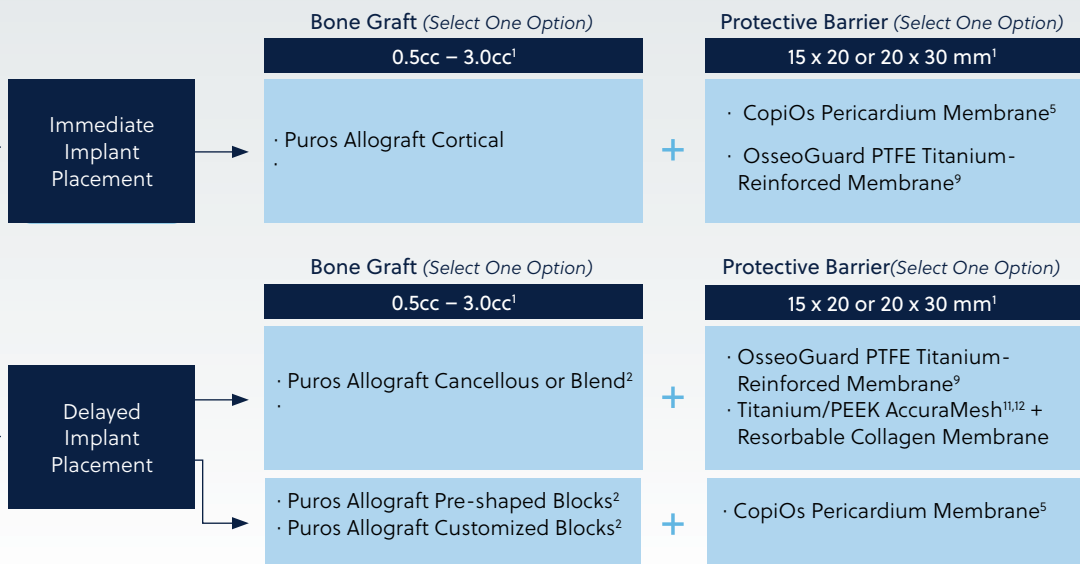
## Ridge Reconstruction



Horizontal Bone Defect



Horizontal and Vertical Bone Defect



1. Product, size and volume recommendations depend on defect size and configuration. Different sizes and volumes may be needed if defect is larger or smaller. 2. Puros Allograft IFU latest revision. 3. Endobon Xenograft IFU latest revision. 4. RegenerOss Xenograft IFU latest revision. 5. CopiOs Pericardium Membrane IFU latest revision. 6. OsseoGuard Flex Membrane IFU latest revision. 7. CopiOs Extend Membrane IFU latest revision. 8. OsseoGuard Membrane IFU latest revision. 9. OsseoGuard PTFE Membrane IFU latest revision. 10. PEEK AccuraPlate IFU latest revision. 11. Titanium AccuraMesh IFU latest revision. 12. PEEK AccuraMesh IFU latest revision.





## ← Periodontal Defects

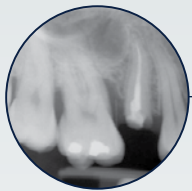


Pocket Depth - Small

Protective Barrier (Select One Option)

15 x 20 mm or 20 x 30 mm<sup>1</sup>

- BioMend Membrane<sup>2</sup>
- BioMend Extend Membrane<sup>2</sup>



Pocket Depth - Large

Bone Graft

0.5 cc<sup>1</sup>

- Puros Allograft Cancellous<sup>3</sup>

+

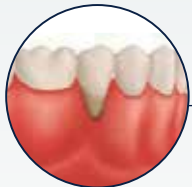
Protective Barrier (Select One Option)

15 x 20 mm or 20 x 30 mm<sup>1</sup>

- CopiOs Pericardium Membrane<sup>4</sup>

Clinical photograph courtesy of Dr. D. Engler-Hamm. Individual results may vary

## ← Soft-Tissue Augmentation



Recession Coverage

Soft-Tissue Graft (Select One Option)

Thin or Thick, Different Sizes May Be Needed<sup>1</sup>

- Puros Dermis Allograft Tissue Matrix<sup>5</sup>



Soft-Tissue -  
Thickening  
At Implant Sites or  
Natural  
Tooth/Teeth

Soft-Tissue Graft (Select One Option)

Thin or Thick, Different Sizes May Be Needed<sup>1</sup>

- Puros Dermis Allograft Tissue Matrix<sup>5</sup>

1. Product, size and volume recommendations depend on defect size and configuration. Different sizes and volumes may be needed if defect is larger or smaller.

2. BioMend and BioMend Extend Absorbable Collagen Membrane IFU latest revision. 3. Puros Allograft IFU latest revision. 4. CopiOs Pericardium Membrane IFU latest revision. 5. Puros Dermis Allograft Tissue Matrix IFU latest revision.



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