

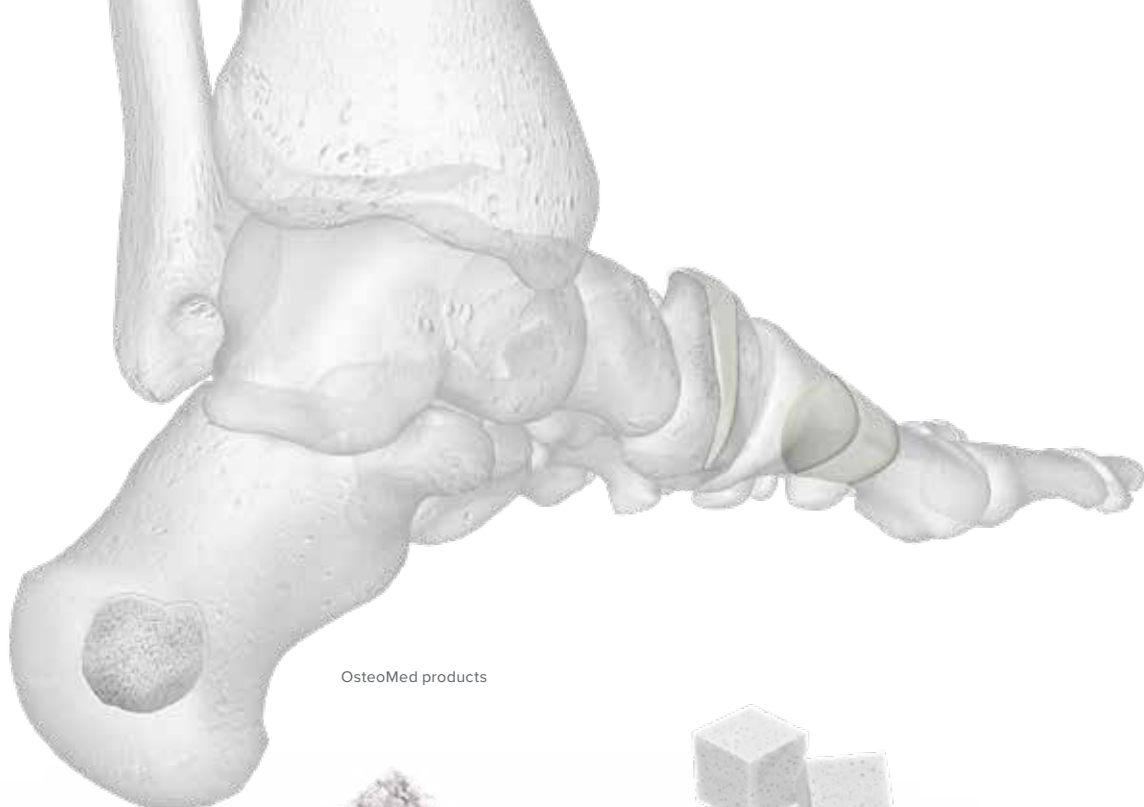


Orthobiologics Solutions



A Complete Range of Solutions for the Lower Extremities





OsteoMed products



**Adding Value for
Surgeons and Patients**



Acumed product

A Robust Range of Solutions

Orthopaedic surgeons use orthobiologics to help improve the healing of broken bones, tendons, and ligaments.

Acumed | OsteoMed offers a range of solutions **designed to augment bone and soft tissue healing and reduce the risk of complications**, adding value for surgeons and patients. From allograft to autograft, morselized bone graft removal, synthetic bone fillers, and more, we offer a wide range of solutions.



OsteoMed product

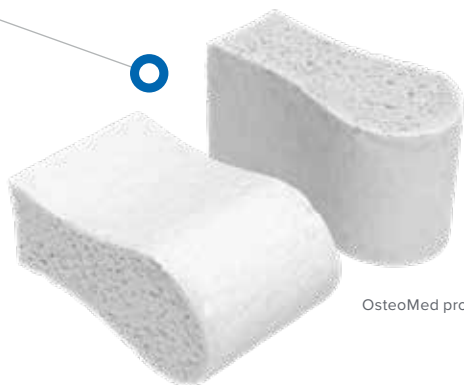
Allograft

Structural

- ▶ Tricortical, Bicortical, and Unicortical preshaped osteotomy solutions
- ▶ Easy to cut and shape
- ▶ A comprehensive array of solutions

Tricortical Blocks

With cortical material on three sides, these grafts can be used where inherent structural support is required



OsteoMed products

PrimaGraft Instrumentation

- ▶ 4 Evans Trials
- ▶ 3 Cotton Trials
- ▶ Tamp
- ▶ Spreader

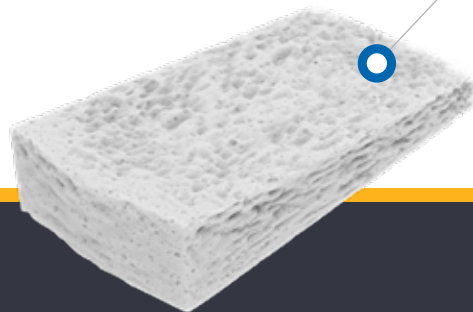


OsteoMed product





PrimaGraft® Evans/Cotton
Bicortical wedges are designed specifically to address the most common angles for both Evans and Cotton osteotomies



Unicortical Wedges
The unicortical grafts are preshaped, off-the-shelf solutions for Evans osteotomy procedures

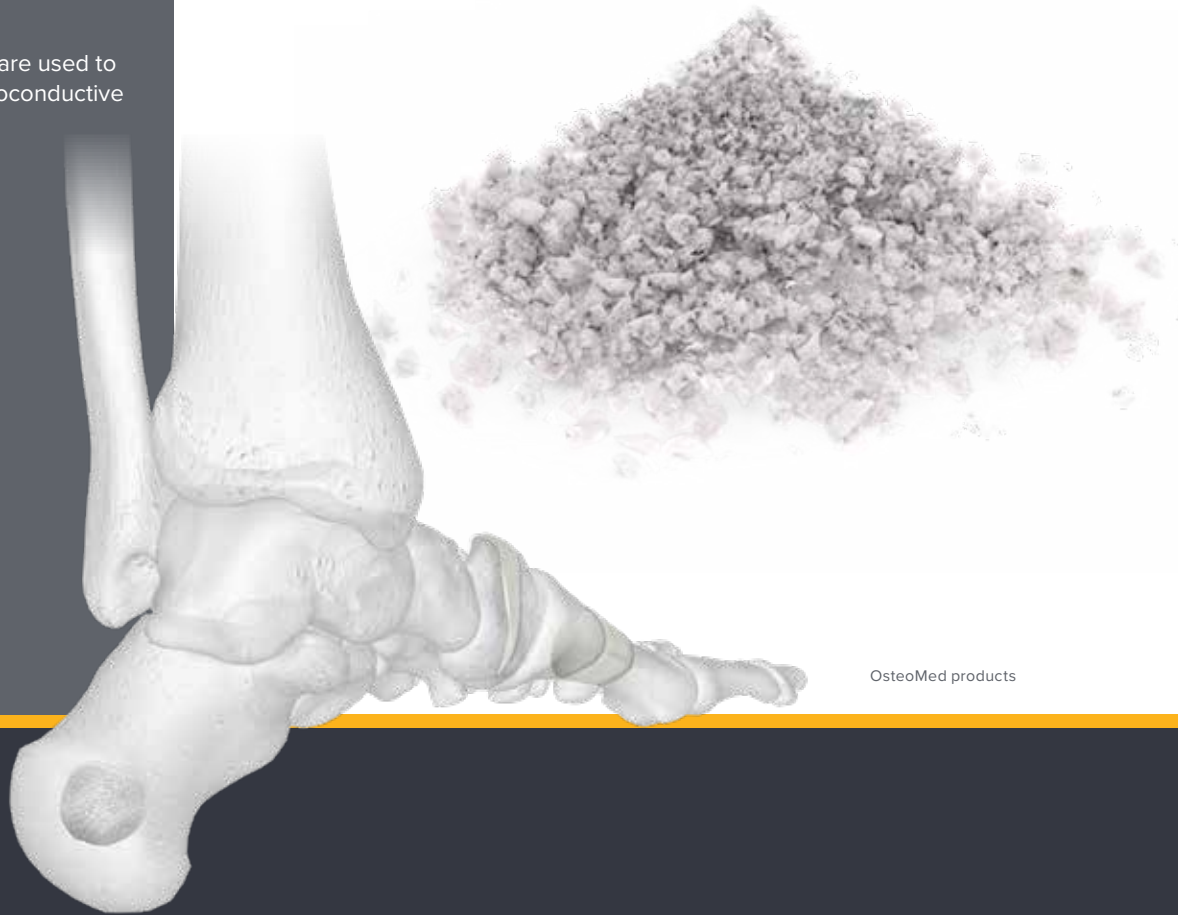
Allograft

Nonstructural

- ▶ Strips and cubes with osteoinductive potential
- ▶ Designed to compress and expand in bone voids

cancellous Chips

Small chips of allograft bone are used to fill voids and provide an osteoconductive scaffold for bony ingrowth



OsteoMed products



OsteoMed products

Sponge Strips and Cubes

A range of sizes designed for optimal fit to help minimize waste



DBM Putty

100% bone derived, no inert carrier.
Multiple sizes in putty and crunch forms

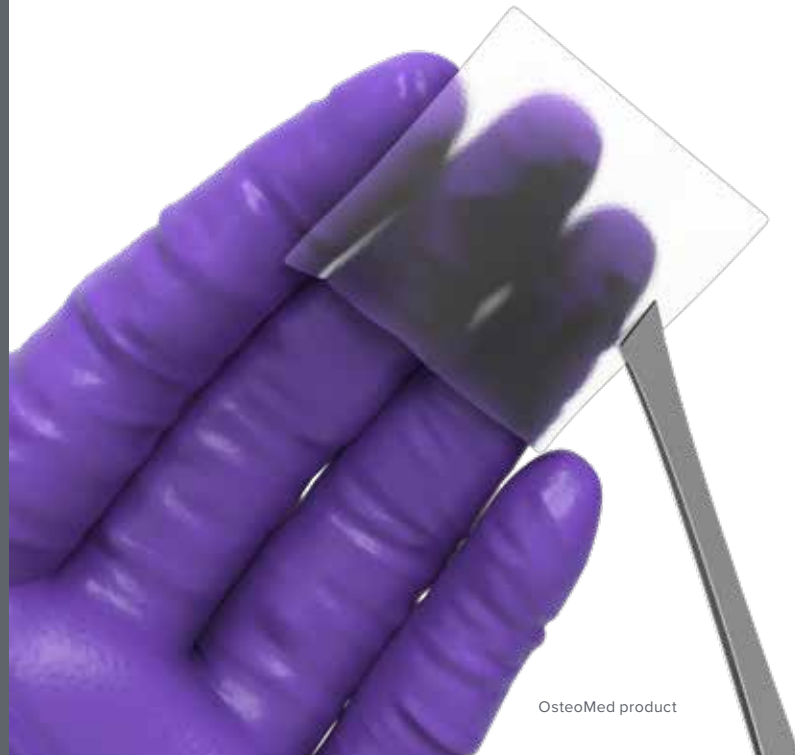


OsteoMed product

Amniotic Membranes

Amniotic Membranes

- ▶ Used as a covering for reconstructive procedures
- ▶ Offer protection from surrounding environment



Allograft Soft Tissue

Tendons

- ▶ Stringent in-facility donor screening process & validated medical history
- ▶ Achilles (with or w/o bone block)
- ▶ Gracilis/Semitendinosus
- ▶ Anterior/Posterior Tibialis
- ▶ Peroneus Longus Tendon
- ▶ BTB



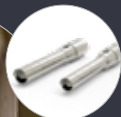
Bone Graft Harvesting System



Acumed product

Acumed Bone Graft Harvesting System

The system allows for morselized bone graft removal through a small skin incision. The device attaches to a drill to extract the graft from the bone.



Two-Stage Masquelet Technique with Distal Ulna Resection

Mihir J. Desai, MD

A 54-year-old female with a history of distal radius fracture and subsequent wrist deformity was treated successfully with the Acumed Bone Graft Harvesting System and Acu-Loc® Wrist Spanning Plate.

View Full Case Study

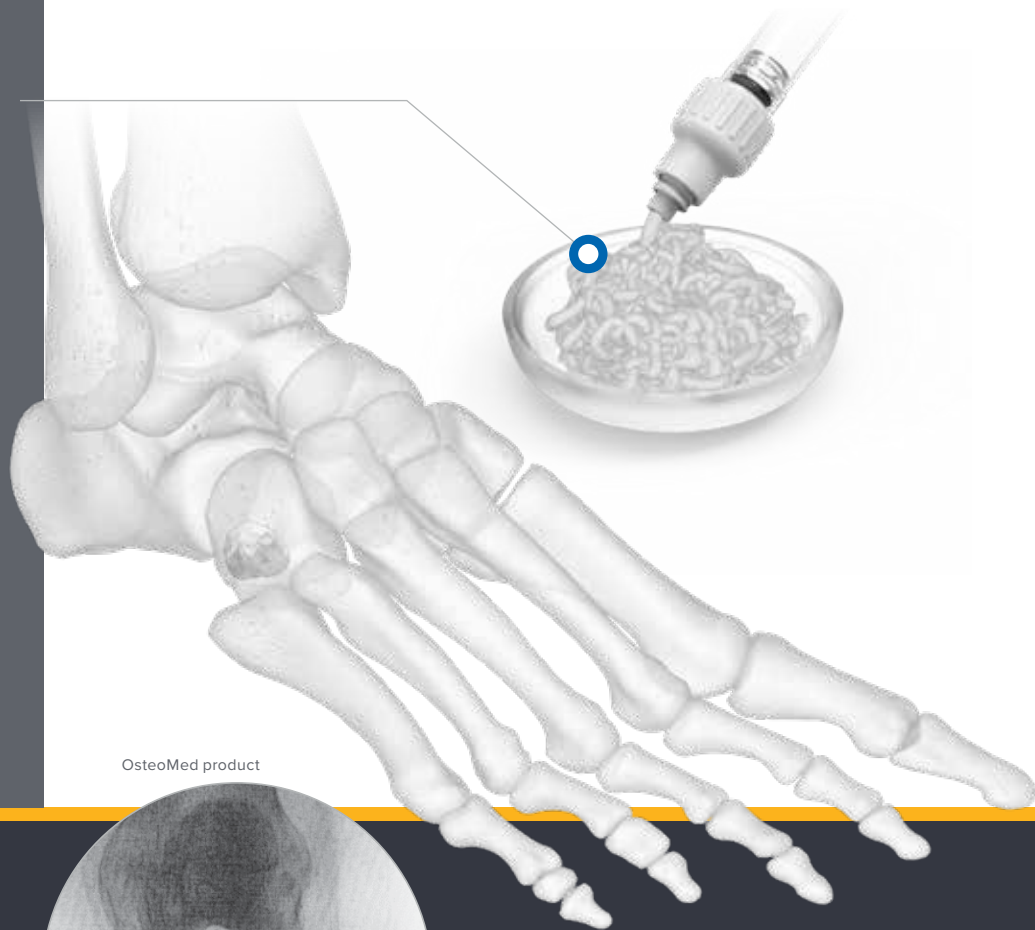


Synthetic Bone Void Fillers

The first magnesium based bone void filler in the orthopaedic marketplace*

Magnesium Phosphate Bone Void Filler

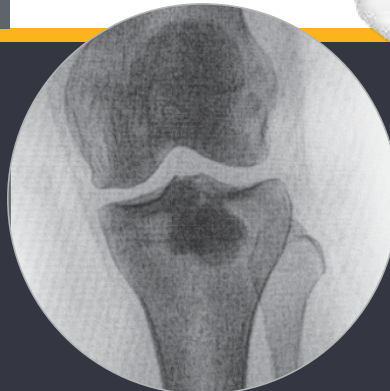
- ▶ Magnesium Phosphate based BVF
- ▶ Enhanced remodeling – 80% in 26 weeks
- ▶ Moldable or Injectable, delivery and mixing options
- ▶ Excellent binding characteristics
- ▶ 4.8 mm Bead Mat Kit available



OsteoMed product



Magnesium Phosphate Bone Void Filler in the Ankle



Magnesium Phosphate Bone Void Filler in the Knee

*Data on file with OsteoMed



Trabexus®

Distributed by Acumed



Fortera®

Distributed by Acumed



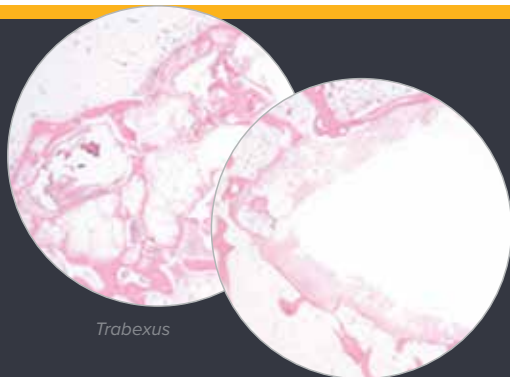
Vivorté Trabexus® Osteoinductive Calcium Phosphate Bone Void Filler

- ▶ Induces recruitment of bone forming cells to the implant site**
- ▶ Can be placed manually or extruded through the cannula provided
- ▶ Room temperature storage
- ▶ Isothermally sets at 15 minutes

Vivorté Fortera® Osteoconductive Calcium Phosphate Bone Void Filler

- ▶ Injectable through a 16G cannula
- ▶ Six minutes of handling time after mixing
- ▶ Room temperature storage
- ▶ Isothermally sets at 15 minutes

Reproducible and easy mixing process.



Trabexus

Standard Cement

Trabexus

Surgically created bone defects in a rabbit model were filled with Trabexus and compared to defects filled with standard calcium phosphate cement. 8 weeks post surgery, Trabexus filled defects demonstrate signs of cell infiltration and remodeling.¹

1. Data on file at Vivorté, Inc.

Foot & Ankle Solution

Bone Void Filler Products

Potential Uses



Distributed by
acumed

Vivorté Trabexus®

- ▶ Defects resulting from trauma or compression fractures
- ▶ Post-reduction voids where structural strength and osteoinductive potential/remodeling is needed



Distributed by
acumed

Vivorté Fortera®

- ▶ Back-fill after hardware removal/graft harvest
- ▶ Contained defects resulting from trauma or compression fractures
- ▶ Where high compressive strength is needed



OSTEONED

Magnesium Phosphate Bone Void Filler

- ▶ Defects resulting from trauma, infection, or compression fractures
- ▶ Post-reduction voids
- ▶ Where high resorption is desired

Allograft Soft Tissue Products

Potential Uses



OSTEONED

Allograft Tendons

- ▶ Peroneal tendon repair
- ▶ Achilles tendon repair

Foot & Ankle Solution [continued]

Allograft Products

Potential Uses



DBM/Fibers/Chips/Sponges

- ▶ Post-reduction voids
- ▶ Nonunions
- ▶ Malunions
- ▶ Cysts/Defects
- ▶ Fusions



Wedges

- ▶ Evans/Cotton osteotomies
- ▶ Lengthening procedures

Amniotic Membranes Products

Potential Uses



Amnion (Membrane)

- ▶ At fracture sites to maximize healing potential

Autograft Products

Potential Uses














Bone Graft Harvester

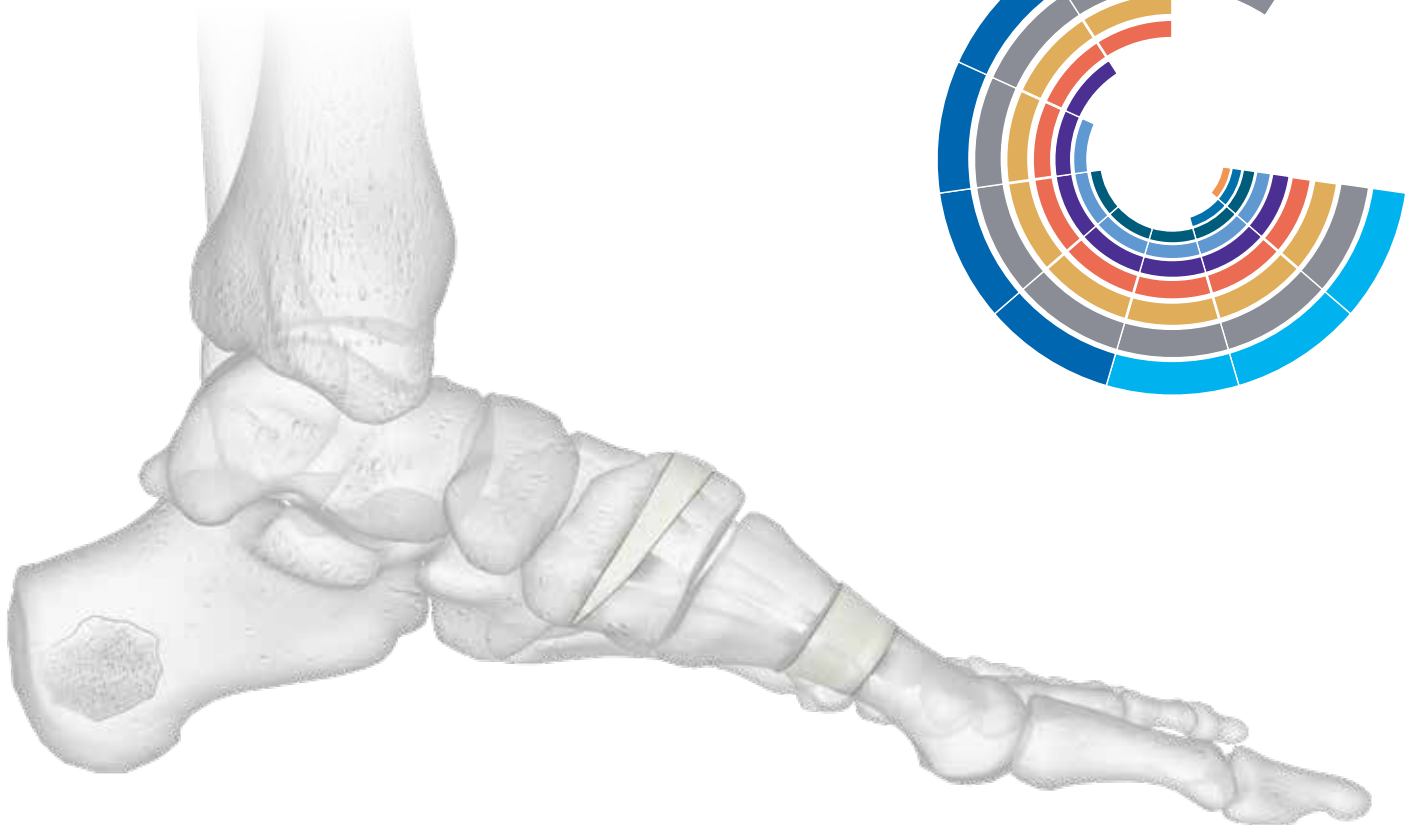
- ▶ Post-reduction voids
- ▶ Nonunions
- ▶ Malunions
- ▶ Cysts/Defects
- ▶ Fusions

Lower Extremity Fixation: Acumed and OsteoMed vs the Competition

Orthobiologics

Only two of our competitors have osteoinductive self-setting bone void fillers.

- | | | | |
|--|--|--|--|
|  Acumed |  Stryker |  Smith & Nephew |  Paragon 28 |
|  OsteoMed |  Zimmer Biomet |  Arthrex |  TriMed |
|  DePuy Synthes |  Wright Medical |  Medartis | |



- ✔ Product in Portfolio
- ✔ Partial Offering
- ✘ Product Not in Portfolio
- ⚙ Product in Development

| | | Acumed | OsteoMed | DePuy Synthes | Stryker | Smith & Nephew | Zimmer Biomet | Wright Medical | Arthrex | Medartis | Paragon 28 | TriMed | Bone Support | |
|----------------|------------------|--|----------|---------------|---------|----------------|---------------|----------------|---------|----------|------------|--------|--------------|---|
| Orthobiologics | Bone Void Filler | Osteoinductive Self-setting Bone Void Fillers | ✔ | ✘ | ✘ | ✘ | ✔ | ✔ | ✘ | ✘ | ✘ | ✘ | ✘ | |
| | | Osteoconductive Self-setting Bone Void Fillers | ✔ | ✘ | ✔ | ✔ | ✔ | ✔ | ✔ | ✘ | ✘ | ✘ | ✔ | |
| | | Osteoconductive Synthetic Bone Void Filler | ✘ | ✘ | ✔ | ✔ | ✘ | ✔ | ✔ | ✔ | ✘ | ✘ | ✘ | ✘ |
| | | DBM | ✘ | ✔ | ✔ | ✔ | ✘ | ✔ | ✔ | ✔ | ✘ | ✔ | ✘ | ✘ |
| | | Magnesium Phosphate BVF | ✘ | ✔ | ✘ | ✘ | ✘ | ✘ | ✘ | ✘ | ✘ | ✔ | ✘ | ✘ |
| | Allograft | Allograft – Soft Tissue | ✘ | ✔ | ✘ | ✔ | ✘ | ✔ | ✔ | ✔ | ✘ | ✘ | ✘ | ✘ |
| | | Allograft – Nonstructural | ✘ | ✔ | ✔ | ✔ | ✘ | ✔ | ✘ | ✔ | ✘ | ✔ | ✘ | ✘ |
| | | Allograft – Structural | ✘ | ✔ | ✘ | ✔ | ✘ | ✘ | ✔ | ✔ | ✘ | ✔ | ✘ | ✘ |
| | Amniotic | Amniotic Membrane | ✘ | ✔ | ✘ | ✔ | ✘ | ✘ | ✔ | ✔ | ✘ | ✔ | ✘ | ✘ |
| | | Amniotic Inject | ✘ | ✘ | ✘ | ✘ | ✘ | ✘ | ✔ | ✔ | ✘ | ✔ | ✘ | ✘ |
| | Autograft | Bone Graft Harvester | ✔ | ✘ | ✔ | ✔ | ✘ | ✘ | ✘ | ✔ | ✘ | ✔ | ✘ | ✔ |

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BIO10-01-A | Effective: 2021/08 | © 2021 Acumed® LLC



GFS-00122-01 Data on file at Vivorte

** Allograft component demonstrated osteoinductivity in athymic mouse model submitted for 510(k). Refer to 510(k) summary K143547. Data on file at Vivorte, Inc.

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