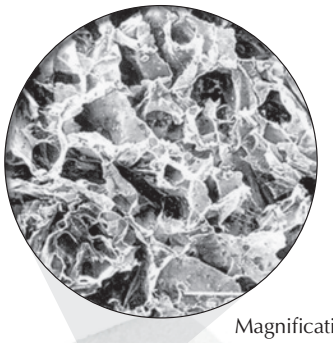
OssiMend®

Bone Graft Matrix

All-Natural Mineral-Collagen Bone Grafting Matrix

- Anorganic bone mineral and type I collagen
- Highly purified, biocompatible matrix
- Osteoconductive
- Osteoinductive and Osteogenic in conjunction with autogenous bone marrow
- Resorbable
- Excellent handling



Magnification X50

OssiMend® Bone Graft Matrix is a mineral-collagen composite matrix processed into strips and pads for surgical implantation. The prinicipal components of OssiMend® are anorganic bone mineral and type I collagen derived from bovine. The mineral particles are dispersed within collagen fibers forming a three dimensional open porous matrix consisting of about 55% bone mineral and 45% collagen. OssiMend® is provided as a sterile, dry material that is hydrated with autogenous bone marrow at the point of use. OssiMend® strips and pads can be cut into shapes and are designed to retain their shape and physical integrity following implantation into a bony site. OssiMend® is fully resorbed during the natural process of bone formation and remodeling.

Catalog No.	Dimensions			Qty. Per Box
	Width, cm	Length, cm	Thickness, cm	
MCC2020-1	2	2	0.5	2cc, 1 Pad
MCC2020	2	2	0.5	4cc, 2 Pads
MCC2050	2	5	0.5	10cc, 2 Strips

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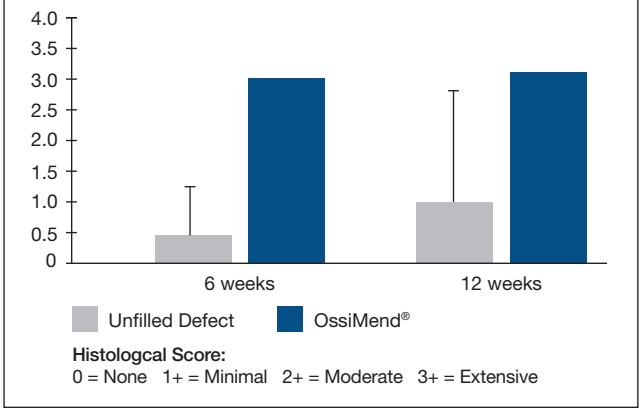
OssiMend®

Bone Graft Matrix

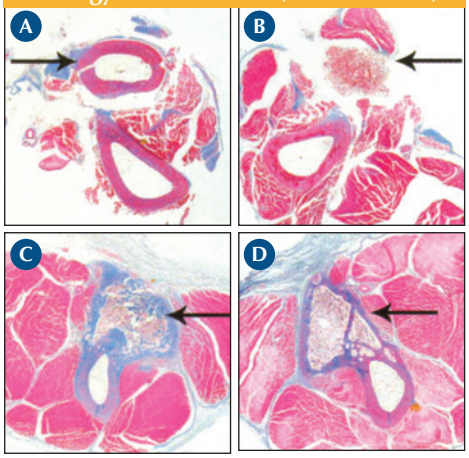
In Vivo Study in a Rabbit Radius Defect Model[1]

- OssiMend® soaked with bone marrow
- Critical size defect in the radius bone
- Unfilled defects as control
- Endpoints were histology and radiography
- New bone formation at 6 & 12 weeks

New Bone Formation of OssiMend® (6 & 12 weeks)



Histology of OssiMend® (6 & 12 weeks)

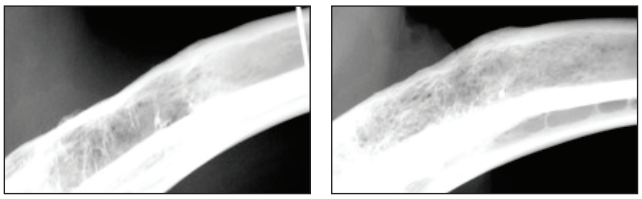


Histology of Radius (⟶)

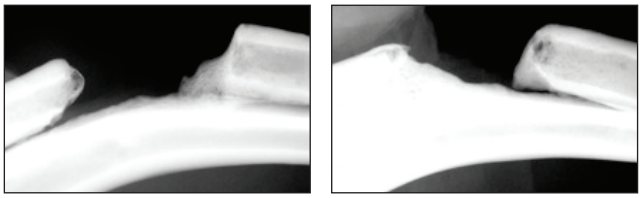
A. Intact radius, no defect
B. Showing OssiMend® in place at day zero
C. OssiMend® / new bone at 6 weeks
D. OssiMend® / new bone at 12 weeks

Radiographs of OssiMend® (6 & 12 weeks)

OssiMend®



Unfilled Defect



6 weeks **12 weeks**

[1] Speer, D, et al.A Collagen-Anorganic Bone Composite for Bone Repair: Part II: In Vivo Study in a Rabbit Radius Defect Model, *Society for Biomaterials*, Poster 525 Pittsburgh, PA, 2006.

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OssiMend® Putty

Bone Graft Matrix

Mineral-Collagen Bone Grafting Matrix

- Anorganic bone mineral and type I collagen
- Osteoconductive
- Osteoinductive and Osteogenic when used with autogenous bone marrow
- Resorbable
- Allows for molding to fit contours of irregular defects

OssiMend® Putty Bone Graft Matrix is a mineral-collagen composite matrix with an additional characteristic that allows for molding to fit contours of irregular defects during surgical implantation. The principal components of OssiMend® Putty are anorganic bone mineral and type I collagen derived from bovine. The mineral particles are dispersed within collagen fibers forming a matrix consisting of about 55% bone mineral and 45% collagen. OssiMend® Putty is provided as a sterile, dry granular material that is hydrated with autogenous bone marrow at the point of use. It is intended for use in filling bony voids or gaps of the skeletal system that are not intrinsic to the stability of the bony structure. OssiMend® Putty is fully resorbed during the natural process of bone formation and remodeling.

Catalog No.	Description	Quantity
MCCP02	OssiMend® Putty Bone Graft Matrix	2 cc
MCCP05	OssiMend® Putty Bone Graft Matrix	5 cc
MCCP10	OssiMend® Putty Bone Graft Matrix	10 cc

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OssiGuide™

Cancellous Granules

Anorganic Bone Mineral Granules

- Anorganic bone mineral derived from bovine cancellous bone
- 1 - 2 mm particle size granules
- Osteoconductive – void space >70%
- Structure similar to natural bone
- Resorbable

OssiGuide™ Cancellous Granules is an anorganic bone mineral material intended for use in filling bony voids or gaps of the skeletal system. The principal component of OssiGuide™ is anorganic bone mineral derived from bovine cancellous bone, which has been chemically treated to remove organic components. OssiGuide™, which does not require use of bone marrow aspirate, is most often used as an augmentation to autogenous bone graft material. It is intended for use in filling bony voids or gaps of the skeletal system that are not intrinsic to the stability of the bony structure. OssiGuide™ is fully resorbed during the natural process of bone formation and remodeling.

Catalog No.	Description	Quantity
OG05	OssiGuide™ (1-2 mm particle size)	5 cc
OG10	OssiGuide™ (1-2 mm particle size)	10 cc

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OssiMend® Block

Bone Graft Matrix

All-Natural Mineral-Collagen Bone Grafting Matrix

- Anorganic bone mineral and type I collagen
- Compression resistant and absorbent
- Highly purified, biocompatible matrix
- Osteoconductive
- Osteoinductive and Osteogenic when used with autogenous bone marrow
- Resorable
- Excellent handling-flexible when wet

OssiMend® Block Bone Graft Matrix is a mineral-collagen composite matrix processed into blocks for surgical implantation for the repair of bony defects in the spine, extremities and pelvis. The principal components of OssiMend® Block are anorganic bone mineral and type I collagen derived from bovine. The mineral particles are dispersed within collagen fibers forming a three dimensional porous matrix consisting of about 80% bone mineral and 20% collagen. OssiMend® Block is provided as a sterile, dry material that is hydrated with autogenous bone marrow at the point of use. OssiMend® Block can be cut into shapes and is designed to retain its shape and physical integrity following implantation into a bony site. OssiMend® Block is fully resorbed during the natural process of bone formation and remodeling. OssiMend® Block is part of the OssiMend® bone graft family of products including OssiMend® Pads and Strips, OssiMend® Putty, and OssiGuide™ Cancellous Granules that can be used as an augmentation to autogenous bone graft material.

Catalog No.	Dimensions			Quantity
	Length, cm	Width, cm	Thickness, cm	
MCCB0524	6.25	2	0.4	5 cc, 1 Strip
MCCB10	6.25	2	0.8	10 cc, 1 Strip
MCCB20	6.25	2	0.8	20 cc, 2 Strips
MCCB0514	12.5	1	0.4	5 cc, 1 Strip
MCCB1004	12.5	2	0.4	10 cc, 1 Strip
MCCB2004	12.5	2	0.4	20 cc, 2 Strips

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OssiMend®

Bone Graft Matrix

In Vivo Study in a Rabbit Radius Defect Model[1]

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- Critical size defect in the radius bone
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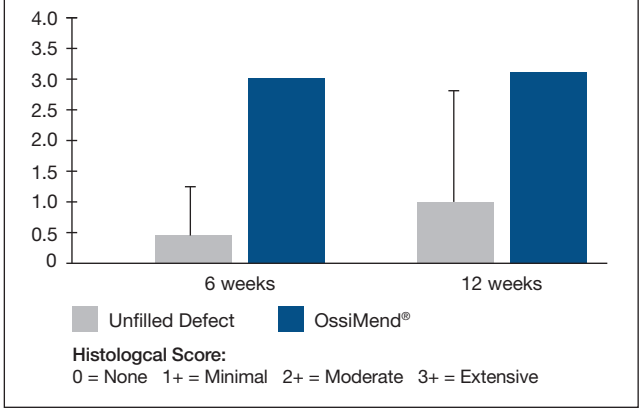
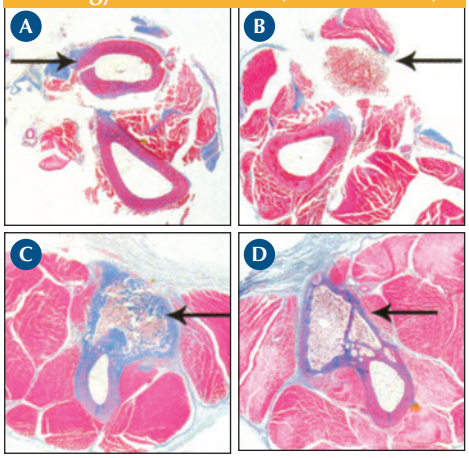
New Bone Formation of OssiMend® (6 & 12 weeks)



Histology of OssiMend® (6 & 12 weeks)

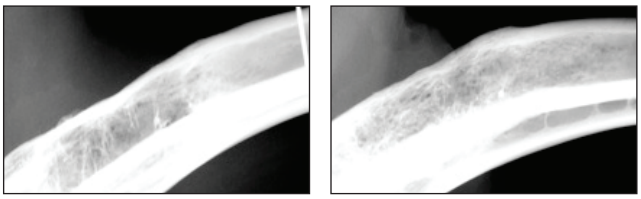


Histology of Radius (⟶)

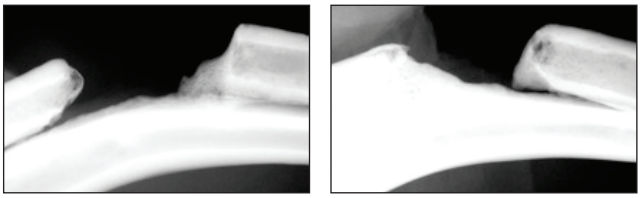
A. Intact radius, no defect
B. Showing OssiMend® in place at day zero
C. OssiMend® / new bone at 6 weeks
D. OssiMend® / new bone at 12 weeks

Radiographs of OssiMend® (6 & 12 weeks)

OssiMend®



Unfilled Defect



6 weeks **12 weeks**

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