

Summary of typical bone-graft substitutes that are commercially available - 2010

Company	Commercially available product	Composition	Commercially available forms	Claimed mechanisms of action	Burdens of proof	FDA status
AlloSource	AlloFuse™	Heat sensitive copolymer with DBM	Injectable gel and putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Case reports Animal studies Cell culture 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Extender Bone Void Filler
Biomet Osteobiologics	BonePlast®	Calcium sulfate with or without HA/CC composite granules	Various volumes of powder and setting solution	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
	BonePlast® Quick Set	Calcium sulfate	Quick setting paste	<ul style="list-style-type: none"> Osteoconductive Bioresorbable 	<ul style="list-style-type: none"> Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
	InterGro®	DBM in a lecithin carrier	Paste, putty and mix with HA/CC composite granules	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Case reports Animal studies Every lot tested for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Extender Bone Void Filler
	ProOsteon® 500R	Coralline-derived HA/CC composite	Granular or block	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
DePuy Spine	CONDUIT® TCP Granules	100% β-TCP	Granules	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
	HEALOS® Bone Graft Replacement	Mineralized collagen matrix	Variety of strip sizes	<ul style="list-style-type: none"> Osteoconduction Creeping substitution Osteoinduction Osteogenesis when mixed with bone marrow aspirate 	<ul style="list-style-type: none"> Peer-reviewed, published human studies Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler: Must be used with autogenous bone marrow
Exactech	Optecure®	DBM suspended in a hydrogel carrier	Dry mix kit delivered with buffered saline	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction Osteogenesis when mixed with autogenous bone graft 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Extender Bone Void Filler
	Optecure® + CCC	DBM and CCC suspended in a hydrogel carrier	Dry mix kit delivered with buffered saline	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction Osteogenesis when mixed with autogenous bone graft 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Extender Bone Void Filler
	Optefil®	DBM suspended in gelatin carrier	Injectable bone paste-dry powder ready to be hydrated	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction Osteogenesis when mixed with autogenous bone graft 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
	Opteform®	DBM and cortical cancellous chips suspended in gelatin carrier	Formable putty or dry powder ready to be hydrated	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction Osteogenesis when mixed with autogenous bone graft 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
	OpteMx™	HA/TCP biphasic combination	Granules, sticks, rounded wedges, wedges and cylinders in several sizes	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Compressive strength of 400psi Osteogenesis and limited osteoinduction when mixed with bone marrow aspirate 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler

β-TCP - β-tricalcium phosphate
CBM - Cancellous bone matrix

CCC - Cortical cancellous chips
DBM - Demineralized bone matrix

HA/CC - Hydroxyapatite/calcium carbonate

PMA – Pre-Market Application; HDE – Humanitarian Device Exemption

Company	Commercially available product	Composition	Commercially available forms	Claimed mechanisms of action	Burdens of proof	FDA status
Integra Orthobiologics/ (IsoTis Orthobiologics)	Accell Connexus®	DBM, Accell Bone Matrix, Reverse Phase Medium	Injectable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Every DBM lot tested for osteoinduction 	510(k) cleared Extremities, Pelvis • Bone Void Filler Extremities, Pelvis, Spine • Bone Graft Extender
	Accell Evo3™	DBM, Accell Bone Matrix, Reverse Phase Medium	Injectable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Animal studies Every DBM lot tested for osteoinduction 	510(k) cleared Extremities, Pelvis • Bone Void Filler Extremities, Pelvis, Spine • Bone Graft Extender
	Accell TBM®	DBM, Accell Bone Matrix	Various sized strips	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Every DBM lot tested for osteoinduction 	510(k) cleared Extremities, Pelvis • Bone Void Filler Extremities, Pelvis, Spine • Bone Graft Extender
	DynaGraft II	DBM, Reverse Phase Medium	Injectable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Every DBM lot tested for osteoinduction 	510(k) cleared
	OrthoBlast II	DBM, cancellous bone, Reverse Phase Medium	Injectable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Every DBM lot tested for osteoinduction 	510(k) cleared Extremities, Pelvis • Bone Void Filler Extremities, Pelvis, Spine • Bone Graft Extender
	Integra Mozaik™	80% highly purified β -TCP/ 20% highly purified Type-1 collagen	Strip and putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared Extremities, Pelvis, Spine • Bone Void Filler
Life Net Health	IC Graft Chamber®	DBM particles and cancellous chips	Lyophilized and packaged in various sizes within a delivery chamber	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction Designed to be used with blood, PRP or bone marrow to enhance DBM activity 	<ul style="list-style-type: none"> Animal studies Case reports 	• Regulated under CFR 1270 and 1271 as a human tissue and 510(k) cleared
	Optium DBM®	DBM combined with glycerol carrier	Formable putty (bone fibers) and injectable gel (bone particles)	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared • Bone Void Filler
Medtronic Spinal & Biologics	INFUSE® Bone Graft	rhBMP-2 protein on an absorbable collagen sponge	Multiple kit sizes	<ul style="list-style-type: none"> Bioresorbable carrier Osteoinduction Chemotaxis of stem cells; indirect osteogenesis 	<ul style="list-style-type: none"> Human studies (Level I and Level III data) Case reports Animal studies 	• PMA approved for fusion with spinal cage • PMA approved for open tibia fractures with IM nail
	MasterGraft® Granules	Biphasic calcium phosphate (15% HA / 85% β -TCP)	Granules	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Animal studies Case reports 	510(k) cleared • Bone Void Filler
	MasterGraft® Matrix	Biphasic calcium phosphate and collagen	Compression resistant block	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Animal studies Case reports 	510(k) cleared • Bone Void Filler: Must be used with autogenous bone marrow

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Medtronic Spinal & Biologics	MasterGraft® Putty	Biphasic calcium phosphate and collagen	Moldable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Extender: Must be used with autograft Bone Void Filler: Must be used with autogenous bone marrow and/or autograft and/or sterile water
	MasterGraft® Strip	Biphasic calcium phosphate (15% HA and 85% β -TCP) and collagen	Compression resistant strip	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler: Must be used with autogenous bone marrow
	Osteofil® DBM	DBM in porcine gelatin	Injectable paste and moldable strips	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Animal studies Case reports 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
	Progenix™ Plus	DBM in Type-1 bovine collagen and sodium alginate	Putty with demineralized cortical bone chips	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Animal studies Case reports 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
	Progenix™ Putty	DBM in Type-1 bovine collagen and sodium alginate	Ready to use injectable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Animal studies Case reports 	510(k) cleared <ul style="list-style-type: none"> Extremities, Pelvis Bone Graft Substitute Bone Void Filler Spine Bone Graft Extender: Must be used with autograft bone
MTF/Orthofix	Trinity Evolution™	Viable Cellular Bone Matrix	Multiple volumes available	<ul style="list-style-type: none"> Osteogenesis Osteoinduction Osteoconduction 	<ul style="list-style-type: none"> Animal Studies Case Reports 	<ul style="list-style-type: none"> Regulated under CFR 1270 and 1271 as a human tissue.
MTF/Synthes	DBX®	DBM in sodium hyaluronate carrier	Paste, putty mix and strip	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Extender Bone Void Filler
NovaBone/MTF	NovaBone®	Bioactive silicate	Particulate, putty and morsels	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteostimulation 	<ul style="list-style-type: none"> Published human studies Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
Orthovita	Vitoss®	100% β -TCP and 80% β -TCP/20% collagen and 70% β -TCP/20% collagen/10% bioactive glass	Putty, strip, flow, morsels and shapes	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Bioactive/osteostimulation Osteogenesis and osteoinduction when mixed with bone marrow aspirate 	<ul style="list-style-type: none"> Published human studies (Level I and III) Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler

β -TCP - β -tricalcium phosphate
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Company	Commercially available product	Composition	Commercially available forms	Claimed mechanisms of action	Burdens of proof	FDA status
Osteotech	GRAFTON® A-Flex®	DBM fiber technology	Round flexible sheet	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case Reports Animal Studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
	GRAFTON® Crunch®	DBM fibers with demineralized cortical cubes	Packable graft	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
	GRAFTON® Flex®	DBM fiber technology	Various sizes of flexible sheets	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
	GRAFTON® Gel	DBM in a syringe	MIS and Percutaneous injectable graft	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
	GRAFTON® Matrix PLF	DBM fiber technology	Single and double troughs	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
	GRAFTON® Matrix Scoliosis Strips	DBM fiber technology	Various sizes of strips	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
	GRAFTON® Orthoblend Large Defect	DBM fibers with crushed cancellous chips	Packable graft	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
	GRAFTON® Orthoblend Small Defect	DBM fibers with larger cancellous chips	Packable moldable graft	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler

β-TCP - β-tricalcium phosphate
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HA/CC - Hydroxyapatite/calcium carbonate

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Company	Commercially available product	Composition	Commercially available forms	Claimed mechanisms of action	Burdens of proof	FDA status
Osteotech	GRAFTON Plus® Paste	DBM in a syringe	Injectable MIS graft, resists irrigation	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
	GRAFTON® Putty	DBM fiber technology	Packable moldable graft	<ul style="list-style-type: none"> Osteoinduction Osteoconduction Incorporation/ complete remodelling Osteogenesis when mixed with bone marrow aspirate or autogenous bone graft 	<ul style="list-style-type: none"> Peer-reviewed published human studies (incl. Level I-II prospective studies) Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Graft Substitute Bone Graft Extender Bone Void Filler
Regeneration Technologies	BioSet™	DBM combined with natural gelatin carrier	Injectable paste, injectable putty, strips and blocks with cortical cancellous chips	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Every lot tested <i>in vivo</i> for osteoinduction 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
Smith & Nephew	VIAGRAF	DBM combined with glycerol	Putty, paste, gel, crunch and flex	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
Stryker Biotech	OP-1® Implant	rhBMP-7 with Type-1 bone collagen	Lyophilized powder reconstituted with saline to form wet sand-like consistency	<ul style="list-style-type: none"> Bioresorbable scaffold Osteoinduction 	<ul style="list-style-type: none"> Human studies (Level I data) Case reports Animal studies 	<ul style="list-style-type: none"> HDE approval for long bone nonunions
	OP-1® Putty	rhBMP-7 with Type-1 bone collagen plus carboxymethyl-cellulose (putty additive)	Lyophilized powder reconstituted with saline to form wet sand-like consistency	<ul style="list-style-type: none"> Bioresorbable scaffold Osteoinduction 	<ul style="list-style-type: none"> Human studies (Level I data) Case reports Animal studies 	<ul style="list-style-type: none"> HDE approval for revision posterolateral lumbar fusion
Synthes	Calceon® 6	Calcium sulfate	Pellets	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Animal studies 	510(k) cleared
	chronOS®	β-TCP	Granules, blocks and wedges	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
	Norian® SRS®	Calcium phosphate	Injectable paste	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler
	Norian® SRS® Fast Set Putty	Calcium phosphate	Moldable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared <ul style="list-style-type: none"> Bone Void Filler

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Wright Medical Technology	ALLOMATRIX®	DBM with/without CBM in surgical grade calcium sulfate powder	Various volumes of injectable/ formable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Cell culture 	510(k) cleared • Bone Void Filler
	ALLOMATRIX® RCS	DBM with CACIPLEX™ technology in surgical grade calcium sulfate powder	Various volumes of formable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Animal studies 	510(k) cleared • Bone Void Filler
	ALLOPURE™	Sterile femoral/tibial allograft	12mm Evans wedge 6mm Cotton wedge	<ul style="list-style-type: none"> Osteoconduction 	<ul style="list-style-type: none"> Mechanical Testing 	<ul style="list-style-type: none"> 100% derived from allograft tissue Regulated under 21 CFR Parts 1270 and 1271 as a human tissue
	CANCELLO-PURE® Wedges	Bovine bone	10mm x 50mm wedge 12mm Evans wedge 6mm Cotton wedge	<ul style="list-style-type: none"> Osteoconduction 	<ul style="list-style-type: none"> Case reports Animal studies 	510(k) cleared • Bone Void Filler
	CELLPLEX®	β-TCP	Various sized granules	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Case reports Animal studies 	510(k) cleared • Bone Void Filler
	IGNITE®	DBM in surgical grade calcium sulfate powder to be mixed with bone marrow aspirate	Percutaneous graft for problem fractures	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Human studies Case reports Animal studies Cell culture 	510(k) cleared • Bone Void Filler
	MIIG® X3	High strength surgical grade calcium sulfate	Minimally invasive injectable graft for compression fractures	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared • Bone Void Filler
	OSTEOSET®	Surgical grade calcium sulfate	Various sized pellets	<ul style="list-style-type: none"> Osteoconduction Bioresorbable 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared • Bone Void Filler
	PRO-DENSE® Injectable Regenerative Graft	75% calcium sulfate and 25% calcium phosphate	Procedure kits, various volumes of injectable paste	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Dense bone regeneration 	<ul style="list-style-type: none"> Human studies Case reports Animal studies 	510(k) cleared • Bone Void Filler
	PRO-STIM™ Injectable Inductive Graft	50% calcium sulfate, 10% calcium phosphate, and 40% DBM by weight	Procedure kits, various volumes of injectable paste/ formable putty	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Case reports Animal studies 	510(k) cleared • Resorbable calcium salt bone void filler device
Zimmer	CopiOs® Bone Void Filler	Dibasic calcium phosphate and Type-1 collagen	Sponge and paste	<ul style="list-style-type: none"> Osteoconduction Accelerated healing vs. autograft Bioresorbable Osteogenesis and osteoinduction when mixed with bone marrow aspirate 	<ul style="list-style-type: none"> Case reports Animal studies 	510(k) cleared • Bone Void Filler: Must be used with autologous blood products like blood or bone marrow
	CopiOs® Cancellous Bone Graft	Bovine bone	Cancellous chips, cancellous cubes and cortico-cancellous wedges	<ul style="list-style-type: none"> Osteoconduction 	<ul style="list-style-type: none"> Case reports Animal studies 	510(k) cleared • Bone Void Filler
	Puros® DBM	Allograft DBM putty (putty with chips includes allograft chips from the same donor)	Putty and putty with chips	<ul style="list-style-type: none"> Osteoconduction Bioresorbable Osteoinduction 	<ul style="list-style-type: none"> Every lot tested in an <i>in vivo</i> rat assay for osteoinductive potential demonstrating bone formation in an ectopic model 	<ul style="list-style-type: none"> 100% derived from allograft tissue Regulated under 21 CFR Parts 1270 and 1271 as a human tissue

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