BioUni® OATS System

What is it?
- The BioUni instrument set is the new standard for restoration of the articular surface when presented with elongated cartilage defects in the medial femoral condyle.

Key Points:
- Helps preserve healthy cartilage by focusing on the length of defects instead of width.
- Reduces the potential for errors.
- BioUni instruments help save time.
- Allows reproducible restoration of the cartilage surface.

Part Numbers:
- BioUni OATS Instrument Set: 940800S
- Allograft OATS System (RMA0407S) ships automatically with BioUni OATS Biolucent Dosette: Kit ABS-48080

Construct Grafts

What is it?
- Pressurized, pre Athletics sterilized articular tendon grafts for soft-tissue reconstruction procedures.

Part Numbers:
- Pressured Allograft GraftLink® Construct: FGM
- FlexGRAFT® Connect Tendon: FCON
- FlexGRAFT Connect EXT Tendon: FCONE

Order through JRF Ortho:
- VersaGraft® Construct: VRG-001
- GraftLink XL Construct (PCL): GRX-001
- SpeedGraft® Construct: SPD-001

AlloSync® Demineralized Bone Matrix

What is it?
- AlloSync DBM is a demineralized cortical bone combined with a reverse-phase medium (RPM) copolymer carrier.
- Provides a natural collagen scaffold (osteoconduction) for bone remodeling.
- Provides signaling molecules such as bone morphogenetic proteins (BMPs) that aid in cell differentiation and recruit osteoblasts (osteoduction).
- AlloSync CB paste provides additional scaffolding properties and structure with the addition of cancellous bone chips.

Key Points:
- RPM carrier allows for use in a fluid environment.
- Flowable at ambient temperature; thickens by providing a moist wound environment. It is indicated for partial- and full-thickness wounds such as pressure ulcers, venous ulcers, diabetic ulcers, first- and second-degree burns, surgical incisions, donor and recipient graft sites, etc.
- Element alloy and zinc microfibrillar matrices that generate micromolecules in the presence of conductive fluids.
- JumpStart antimicrobial wound dressings are the most advanced antimicrobial dressings and have been shown to increase keratinocyte migration for wound and incisonal care.

Key Points:
- Flexile: Easily contours to the site.
- Provided sterile.
- Cost-effective: Proven efficacy and extended wear time.
- Improved healing, decreases infection.
- Comes in various sizes and dimensions; options are available with and without adhesive.

Energel® wound hydrogel is a sterile, water-soluble gel formulated to maintain a moist wound environment and provide moisture to a dry wound. Energel hydrogel is formulated to maintain a moist wound environment and provide moisture to a dry wound. Energel hydrogel is intended to cover a wound to protect against abrasion, friction, desiccation, and contamination.

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Arthrex ACP® System

How it works:
- Arthrex ACP (autologous conditioned plasma).
- Platelets (PLTs) contain growth factors, which help to promote and modulate healing.
- ACP can be mixed with autograft and autograft bone prior to application at an orthopedic surgical site.
- White blood cells (WBCs), specifically neutrophils, are NOT concentrated with the Arthrex ACP system. Neutrophils can cause detrimental effects on the healing process.

Key Points:
- Effective: 2–3× PLT concentrations.
- Conducive: 2000:1 PLT to WBC ratio.
- Low Volume: 15 cc whole blood.
- Quick: 5-minute centrifugation time.
- Results: ~6 cc PRP.
- Convenient, closed system.
- Economical.
- May be used with or without anticoagulant.

Part Numbers:
- Arthrex ACP Syringe Series I ACP Kit ABS-10011
- Series II ACP Kit ABS-10012

Arthrex® Angel® System

How it works:
- The Angel system uses a proprietary platelet-separator technology and iuttonATION to prepare customized, concentrated PRP formulations from whole blood and/or bone marrow aspirate (BMA).
- Only the Angel system can provide PRP concentrate from BMA with adjustable cellular levels.

Key Points:
- Effective: Up to 16× PLT and up to 33× progenitor cell concentrations.
- Adjustable: PLT and WBC concentrations can be adjusted.
- The Angel system duplicates any competitor product.
- 40 cc to 180 cc blood or BMA.
- Automated and closed system.
- Programmable: 30 custom processing protocols can be stored.

Clinical Benefits:
- Adjustability in the Angel system allows surgeons to customize the end product for the specific indication. No other system on the market provides user-defined output.

Part Numbers:
- Arthrex Angel System ABS-10066
- Angel Process Kit ABS-10063
- Angel PRP Kit ABS-10065
- Arthrex Angel® CPRP and BMA Kit ABS-10062 (Canada)
- Arthrex Angel® CPRP and BMA Tray ABS-10062T
- Arthrex Angel® MP and Powered BMA Kit ABS-10062D
- BMA kit w/Noodle AR-1101DS
- Arrow® a OnControl® a Power Driver w/ Cradle 9401
- Arrow® a OnControl® a Power Driver w/ Cradle 9403-VC-006

Thrombinator® System for use with the Angel CPRP System

How it works:
- Thrombinator system is used with the Angel system to produce an autologous activation serum.
- The serum can be used to improve the handling of bone grafts.

Key Points:
- Rapid Preparation, less than 20 minutes.
- Prepare from whole blood or platelet-poor plasma.

Clinical Benefits:
- Adjustable in the Angel system allows surgeons to customize the end product for the specific indication. No other system on the market provides user-defined output.

Part Numbers:
- Thrombinator System for Use With The Angel CPRP System ABS-10080

*Arrow and OnControl are registered trademarks of Teleflex, Inc.
AlloSync™ Pure Osteoinductive Bone Matrix
What is it?
• AlloSync™ Pure osteoinductive demineralized bone matrix derived from 100% human allograft bone with no extrinsic carriers.

Key Points:
• Composed from 100% human allograft bone without any extrinsic carriers.
• Poststerilization, every lot is tested in vivo to ensure osteoinductivity. No freeze-thaw resistance when prepared with bioactive fluids.
• Historically proven to contain all 5 elements of bone formation at 28 days postimplantation. 1

Part Numbers:
10 cc, 25 cc, 50 cc, 10 cc ABS-2001-01, -02, -05

ArthroCell® Cellular Bone Graft
What is it?
• ArthroCell® cellular bone graft is a viable cellular bone matrix.
• Contains donor mesenchymal stem cells, including marrow-isolated and adult multipotent mesenchymal (MAMSCs) cells supporting osteogenic healing processes.
• Includes a proprietary blend of microporcopic cortical, cancellous, and demineralized cortical allograft bone scaffold in optimal sizes ranging from 100 μm to 300 μm.

Key Points:
• Convenient: for use as a safe, cellular bone scaffold for bone remodeling.
• Osteogenic, osteoconductive, and osteoinductive potential.
• Convenient: Can be stored on the shelf for an extended period of time.
• Provided terminally sterilized.

Part Numbers:
ArthroCell® Graft, 2 cc ABS-2000-02
ArthroCell® Bone Graft, 5 cc ABS-2000-05

Quickset™ Calcium Phosphate Cement
What is it?
• Quickset™ cement is a macroporous, synthetic calcium phosphate cement.
• The powder includes: tricalcium phosphate which aids in crystallization, β-tricalcium phosphate which allows for rapid setting, and a novel cryoprotectant that is noncytotoxic and maximizes cell viability.

Key Points:
• Fast: 2-minute mixing time.
• Convenient: Can be stored on the shelf at ambient temperature. Convenient: Can be stored on the shelf for an extended period of time.
• Provided terminally sterilized.

Part Numbers:
3 cc, 5 cc, 10 cc (2 x 5 cc kit) ABS-3005, ABS-3015, ABS-3015-2

ArthroFlex™ Dermal Allograft
What is it?
• ArthroFlex™ graft is an acellular dermal matrix (ADM) allograft intended for supplemental support and covering tissue in vivo.
• Serves as an osteoconductive scaffold for bone remodeling.
• Intended for bone voids or defects that are not intrinsic to the stability of the bone structure.

Key Points:
• Simple, dual-chamber, closed mixing system.
• Fast: 2-minute mixing time.
• Injectable: Excellent cohesiveness.
• Strong: 24 MPa, can be applied in 10 MPa to 15 MPa.
• Radio-opaque: Visible on X-ray.
• Within 24 hours, strength and porosity are obtained.
• Nondesmogenic, nonthrombogenic.
• 4-year shelf life.

Part Numbers:
5 cc kit ABS-3002
8 cc kit ABS-3003
16 cc kit (2 x 8 cc) ABS-3005, ABS-3016

OATs® Backfill Plugs
What is it?
• OATs® Backfill plugs are provided to fill the OATS site and promote natural bone healing for a complete biologic repair.
• AlloSync® demineralized sponges and fibers are 100% demineralized bone (DBM) provided in cubes, strips, chips, and fibers.
• Natural bone scaffold and porosity maintained.
• Osteoinductive growth factors remain viable in product. More growth factors within corticocancellous bone than cancellous bone.
• Cubes, strips, sponges: Cancellous bone.
• Fibers: Cortical bone.

Key Points:
• AlloSync. Easylies with PRP with RPR & BMC.
• Once hydrated, the product is compressible and flexible, and it packs into defects well.
• Provided terminally sterilized.

Part Numbers:
Cubes, 8 mm, 10 mm, 52 mm
Strip, 10 mm × 10 mm × 3 mm, 15 mm × 40 mm × 3 mm, 25 mm × 20 mm × 3 mm, 10 mm × 20 mm × 7 mm ABS-2006-07, -02, -03, -04
Chips, 1 cc, 2.5 cc, 5 cc ABS-2007-01, -02, -07
Fibers, 1 cc, 2.5 cc, 5 cc, 10 cc ABS-2008-01, -02, -03, -04

BoneSync® Fast-Setting, Dritable Calcium Phosphate Cement
What is it?
• BoneSync® fast-setting, dritable, resorbable cement composed of calcium phosphate and collagen.
• This synthetic bone graft sets within approximately 8 minutes and is a dritable solution for fracture repair.
• Once cured, BoneSync® calcium phosphate cement can supplement hardware to support bone fixation and fill bone voids during surgical procedures.

Key Points:
• Provided in a self-contained mixing and delivery system to decrease preparation time and improve delivery.
• Fast setting to allow immediate supplemental fixation or strength to repair surgical site or repair.
• Delivers following surgery to assist fracture fixation and repair.
• Expands to improve contact forces with surrounding bone and/or local tissue fixation.

Part Numbers:
3 cc, 5 cc, 10 cc (2 x 5 cc kit) ABS-3105, ABS-3105-2

BioCartilage® Extracellular Matrix
What is it?
• BioCartilage™ matrix is an acellularly processed, deribloded, particulated (100 μm to 300 μm) allograft articular cartilage scaffold containing proteins that is native to articular cartilage including type II collagen, proteoglycans, and other growth factors.
• The matrix is a scaffold to augment bone marrow stimulation procedures.

Key Points:
• Injectable: After being mixed in a 1 to 8 ratio with an autologous blood solution, the product can be easily injected into the defect site.
• Custom mixing and delivery system to reduce fluid loss and improve tissue handling.
• Convenient: Stored at ambient temperature for 30 days.
• Provided on the shelf to eliminate need for secondary surgery.
• May be performed open or arthroscopically.

Part Numbers:
1.0 cc ABS-1000-BC
0.75 cc ABS-1000-BC
0.5 cc ABS-1000-BC
Mixing and Delivery Kit, large joint ABS-1000-L
Mixing and Delivery Kit, small joint ABS-1001-BC
Tubby Needle, long (3 applications) ABS-1001-L

References
1. Cartiformal 100® Viable Osteochondral Allograft. 2. ArthroFlex, FlexiGRAFT, and BioWater are registered trademarks of LifeNet Health. 3. Cartiform is a registered trademark of Osiris Therapeutics, Inc. 4. Cartiform is a cryopreserved viable osteochondral allograft. 5. Composed of extracellular matrix, viable chondrocytes, and native chondrogenic proteins. Cartiform allograft offers the safety and success of fresh osteochondral allografts. 6. The pores in the tissue graft are provided to improve flexibility, enhance cryopreservation of native chondrocytes, and facilitate mechanical and vascular integration into Cartiform allograft following marrow stimulation. 7. Cartiform allograft is a cryopreserved viable osteochondral allograft. 8. Viably in a study conducted by Osiris Therapeutics, Inc., >72% cell viability was maintained following >2 years storage at -80°C. 9. JRF Ortho is a registered trademark of Osiris Therapeutics, Inc. 10. JRF Ortho is a registered trademark of Osiris Therapeutics, Inc. 11. LifeNet Health. 12. ArthroFlex, FlexiGRAFT, and BioWater are registered trademarks of LifeNet Health. 13. Energet is a registered trademark of Womans Wound Care, Inc. 14. Jaysen is a registered trademark of Grants, S.A.