Orthobiologics

New Product Spotlight

Arthrex®

AutoCart™ Technique

Arthroscopic, Single-Stage Cartilage Restoration

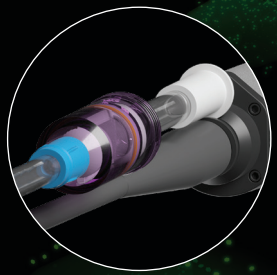
Matrix-Augmented Cartilage Implantation, Simplified

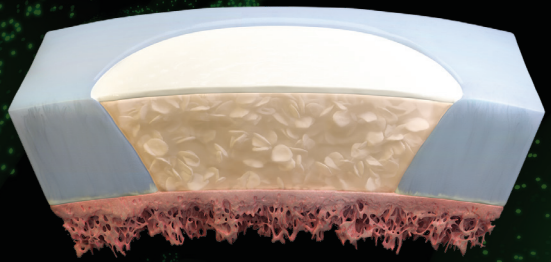
Everything you need to harvest and reimplant particulate osteochondral tissue in a single procedure, including point-of-care preparation of PRP and an autologous thrombin solution for enhanced bone ingrowth and graft fixation.[1,2]

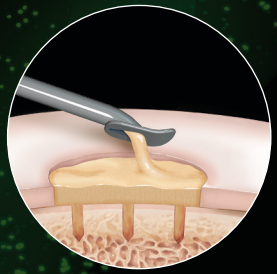
Learn more about the Arthrex cartilage repair algorithm at **JointPreservation.Arthrex.com**

Arthrex Shaver Blades
Resect viable tissue

GraftNet™ System
Resect and Collect™

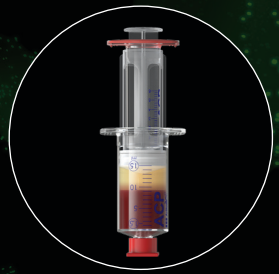






BioCartilage® Extracellular Matrix
The ideal scaffold

Thrombinator™ System
Autologous sealant



Arthrex ACP® System
Autologous growth factors

References

1. Drakos MC, Eble SK, Cabe TN, et al. Comparison of functional and radiographic outcomes of talar osteochondral lesions repaired with micronized allogenic cartilage extracellular matrix and bone marrow aspirate concentrate vs microfracture. *Foot Ankle Int*. 2021;42(7):841-850. doi:10.1177/1071100720983266
2. Irwin RM, Bonassar LJ, Cohen I, et al. The clot thickens: autologous and allogeneic fibrin sealants are mechanically equivalent in an ex vivo model of cartilage repair. *PLoS One*. 2019;14(11):e0224756. doi:10.1371/journal.pone.0224756

Comprehensive PRP Solutions

Angel® System

The Angel concentrated platelet-rich plasma (cPRP) system is the only fully automated system with proprietary 3-sensor technology for preparation of adjustable cellular concentrations of PRP and cPRP from bone marrow aspirate (BMA).

ACP Max™ PRP System

The ACP Max triple-syringe system uses a double-spin regimen to produce PRP from 30 mL, 60 mL, or 90 mL of whole blood (WB), resulting in up to 12× over baseline platelet concentration and a greater than 97% reduction of neutrophils.[1-3]

Arthrex ACP® Double-Syringe System

The Arthrex ACP (autologous conditioned plasma) double-syringe system allows for rapid and efficient concentration of platelets from 15 mL of WB, providing a PRP that is low in neutrophils in just 5 minutes.

References

1. Arthrex, Inc. Data on file (APT 5368). Naples, FL; 2021.
2. Arthrex, Inc. Data on file (APT 5535). Naples, FL; 2022.
3. Arthrex, Inc. Data on file (APT-5756). Naples, FL; 2022.

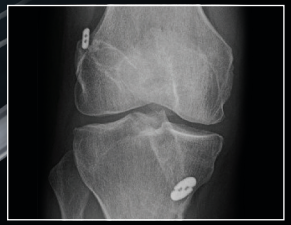
BioACL™ Technique

Improve ACL Bone Tunnel Healing and Redefine Outcomes With Next-Generation Biologics

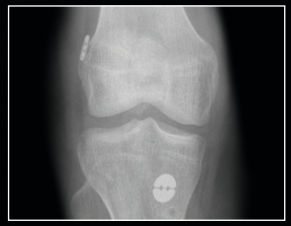
Bone tunnels are filled with the BioACL composite mixture to promote and accelerate tibial and femoral tunnel remodeling.[1]

Learn more about the BioACL technique

Better patient-reported outcomes, greater range-of-motion, and less bone tunnel widening[1]



Patient A
2 years post-op
Non-augmented ACL reconstruction

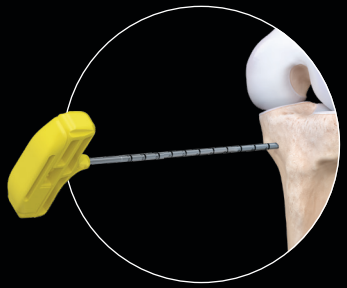


Patient B
2 years post-op
BioACL reconstruction

Reference

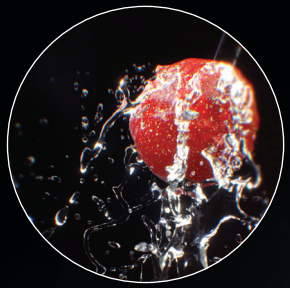
1. Lavender CD, Schaver AL, Taylor S, et al. Anterior cruciate ligament reconstruction augmentation with bone marrow aspirate concentrate, demineralized bone matrix, and suture tape shows no difference in outcomes—but faster functional recovery—versus non-augmented anterior cruciate ligament reconstruction. *Arthroscopy*. doi:10.1016/j.arthro.2024.06.042

Give Patients the Freedom of Faster Functional Recovery[1]



Vortex™ Threaded Recovery Needle

Maximize the concentration of medicinal signaling cells (MSCs) from bone marrow aspirate harvested using the Vortex threaded recovery needle.

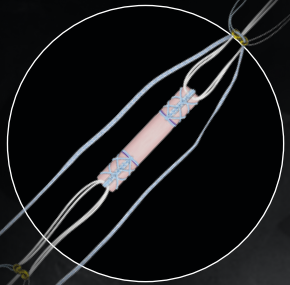


AlloSync™ Pure Demineralized Bone Matrix

Fill ACL tunnels with an osteoinductive, cutting-edge bone graft made of 100% demineralized bone matrix, with no extrinsic carriers, that resists irrigation.

Angel® cPRP from BMA

Process MSCs from bone marrow aspirate with the best-in-class BMA processing system.



QuadLink™ Presutured Construct

The only presutured quadriceps allograft, presized and presutured with #2 FiberLoop® with FiberTag™ suture. Compatible with ACL TightRope® II implants.

GraftNet™ Autologous Tissue Collector

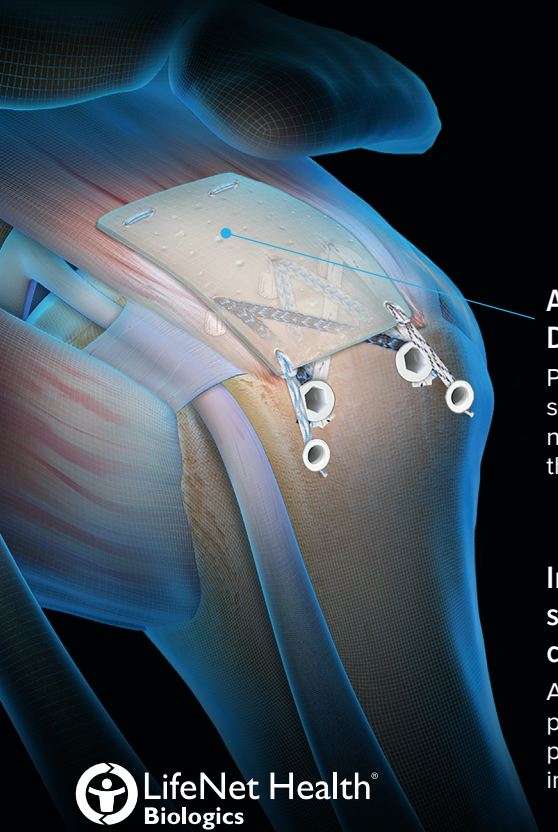
Easily collect autologous bone into a sterile filtered chamber to enhance bone stabilization and biological healing.

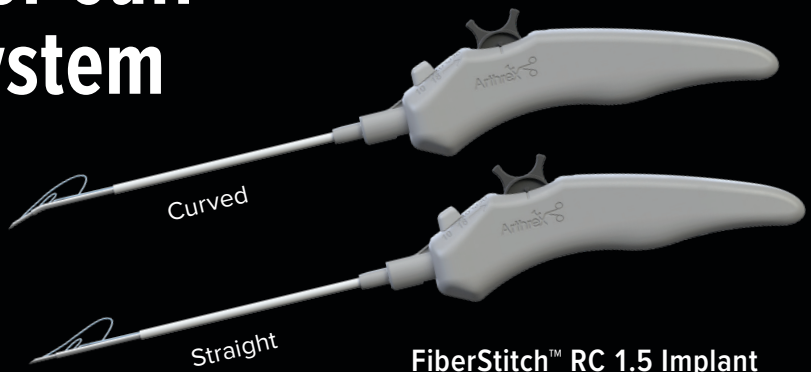
References

1. Lavender CD, Schaver AL, Taylor S, et al. Anterior cruciate ligament reconstruction augmentation with bone marrow aspirate concentrate, demineralized bone matrix, and suture tape shows no difference in outcomes—but faster functional recovery—versus non-augmented anterior cruciate ligament reconstruction. *Arthroscopy.* doi:10.1016/j.arthro.2024.06.042

CuffMend™ Rotator Cuff Augmentation System

Fast Fixation. Supports Healing.[1,2]





FiberStitch™ RC 1.5 Implant

Allows for quick, secure, suture-based medial graft fixation.

ArthroFLEX® Human Dermal Allograft

Provides integration and supplemental support to the native tissue while reducing the incidence of retears.[3-5]

Implantation of the CuffMend system is designed to be completed in <10 minutes

Applications for revision cuff repair, poor tissue quality, and treating patients with comorbidities that impede healing.[6]

LifeNet Health® Biologics

References

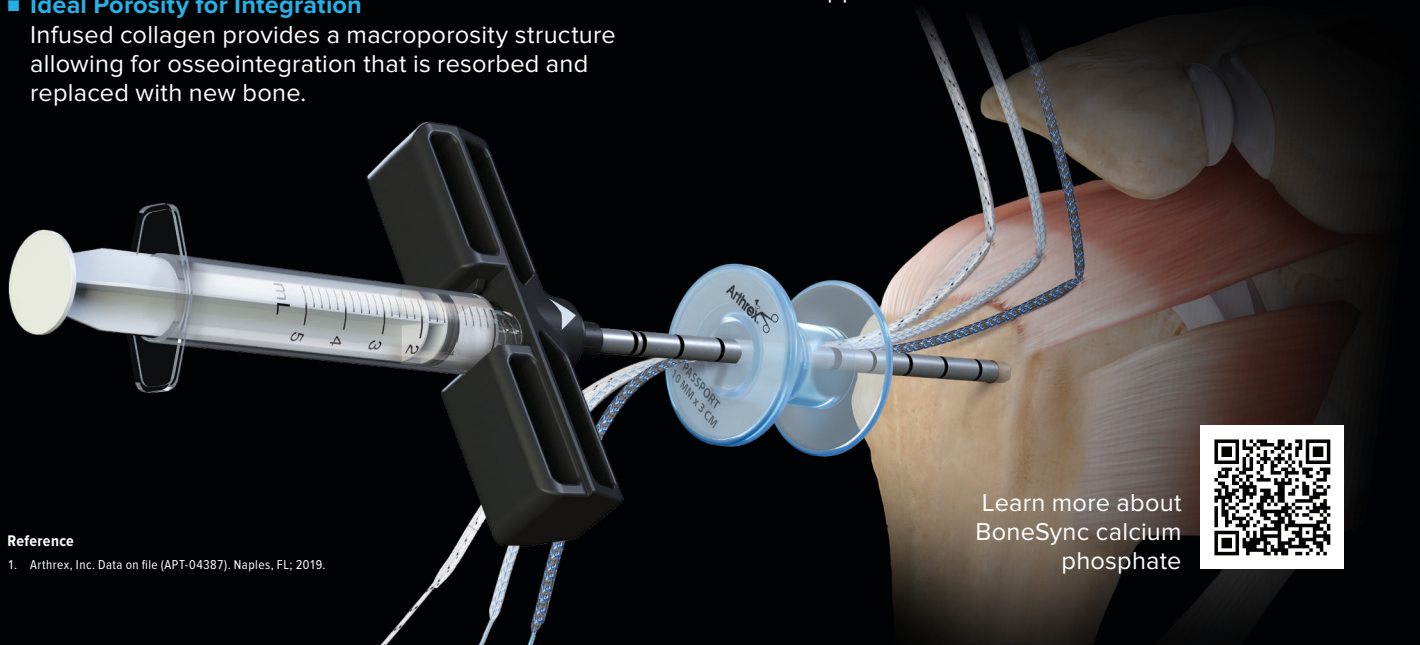
1. Ely EE, Figueroa NM, Gilot GJ. Biomechanical analysis of rotator cuff repairs with extracellular matrix graft augmentation. *Orthopedics*. 2014;37(9):608-614. doi:10.3928/01477447-20140825-05
2. Smith MJ, Bozynski CC, Kuroki K, Cook CR, Stoker AM, Cook JL. Comparison of biologic scaffolds for augmentation of partial rotator cuff tears in a canine model. *J Shoulder Elbow Surg*. 2020;29(8):1573-1583. doi:10.1016/j.jse.2019.11.028
3. Gilot GJ, Alvarez-Pinzon AM, Barcksdale L, Westerdahl D, Krill M, Peck E. Outcome of large to massive rotator cuff tears repaired with and without extracellular matrix augmentation: a prospective comparative study. *Arthroscopy*. 2015;31(8):1459-1465. doi:10.1016/j.arthro.2015.02.032
4. Bailey JR, Kim C, Alentorn-Geli E, et al. Rotator cuff matrix augmentation and interposition: a systematic review and meta-analysis. *Am J Sports Med*. 2019;47(6):1496-1506. doi:10.1177/0363546518774762
5. Hartzler RU, Softic D, Qin X, Dorfman A, Adams CR, Burkhart SS. The histology of a healed superior capsular reconstruction dermal allograft: a case report. *Arthroscopy*. 2019;35(10):2950-2958. doi:10.1016/j.arthro.2019.06.024
6. Kwon J, Kim SH, Lee YH, Kim TI, Oh JH. The Rotator Cuff Healing Index: A new scoring system to predict rotator cuff healing after surgical repair. *Am J Sports Med*. 2019;47(1):173-180. doi: 10.1177/0363546518810763

BoneSync™ Calcium Phosphate Cement

The Answer to Poor Lateral Row Bone Quality

Fast setting to allow immediate supplemental fixation and strength to a surgical repair site[1] with a collagen-infused calcium phosphate

- **Anchor Fixation at the First Punch**
  Addition of BoneSync bone void filler can significantly increase anchor fixation strength in poor-quality bone.[1]
- **Ideal Porosity for Integration**
  Infused collagen provides a macroporosity structure allowing for osseointegration that is resorbed and replaced with new bone.
- **Inject and Set**
  The porous calcium phosphate is injectable and hardware-compatible, enhancing structural bone support.



Learn more about BoneSync calcium phosphate

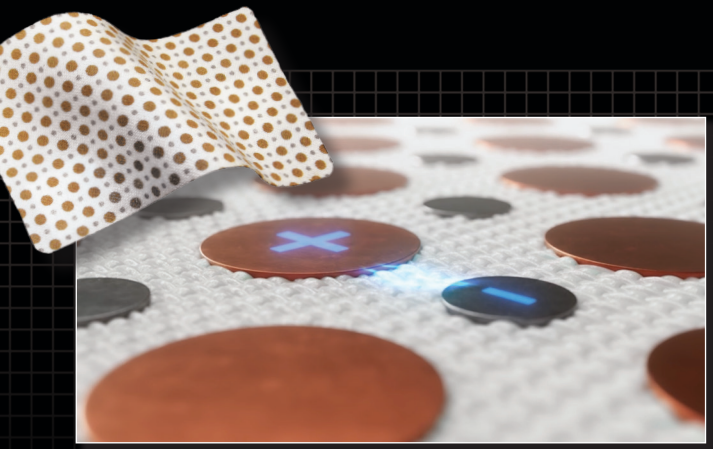
Reference

1. Arthrex, Inc. Data on file (APT-04387). Naples, FL; 2019.

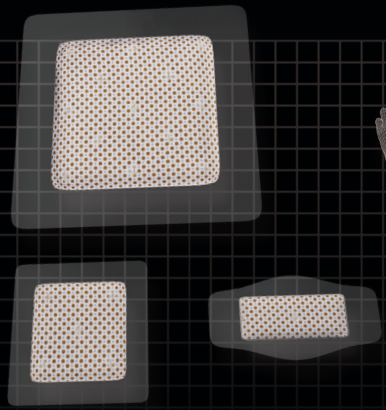
JumpStart® Antibacterial Dressings

Extend Infection Control Beyond the Operating Room

Powered by Advanced Microcurrent Technology®, JumpStart antibacterial wound dressings are inspired by the body's natural electrical healing process.

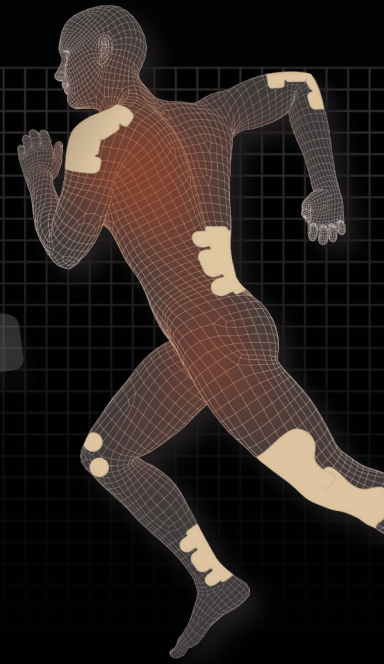


Elemental silver and elemental zinc microcell batteries generate an electric field when hydrated, to provide protection against a broad spectrum of bacteria[1-3] and support the body's natural electrical healing process.



JumpStart®
ClearFit™ Dressings

Features advanced microcurrent technology, with a clear gentle adhesive layer.



References

1. Kim H, Makin I, Skiba J, et al. Antibacterial efficacy testing of a bioelectric wound dressing against clinical wound pathogens. *Open Microbiol J*. 2014;8:15-21. doi:10.2174/1874285801408010015
2. Banerjee J, Das Ghatak P, Roy S, et al. Silver-zinc redox-coupled electroceutical wound dressing disrupts bacterial biofilm. *PLoS One*. 2015;10(3):e0119531. doi:10.1371/journal.pone.0119531
3. Kim H, Izadjoo MJ. Antibiofilm efficacy evaluation of a bioelectric dressing in mono- and multi-species biofilms. *J Wound Care*. 2015;24 Suppl 2:S10-S14. doi:10.12968/jowc.2015.24.Sup2.S10

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