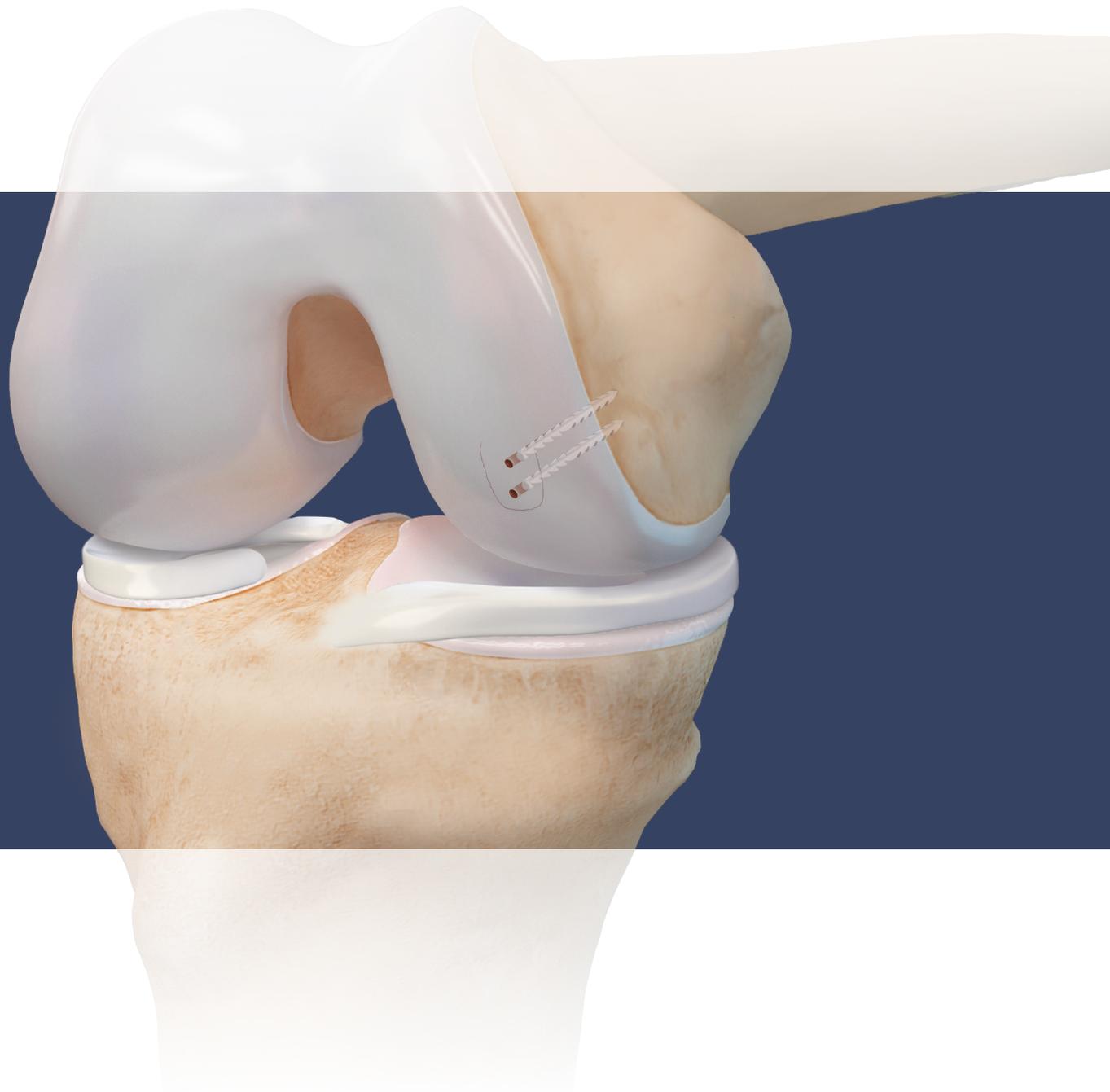
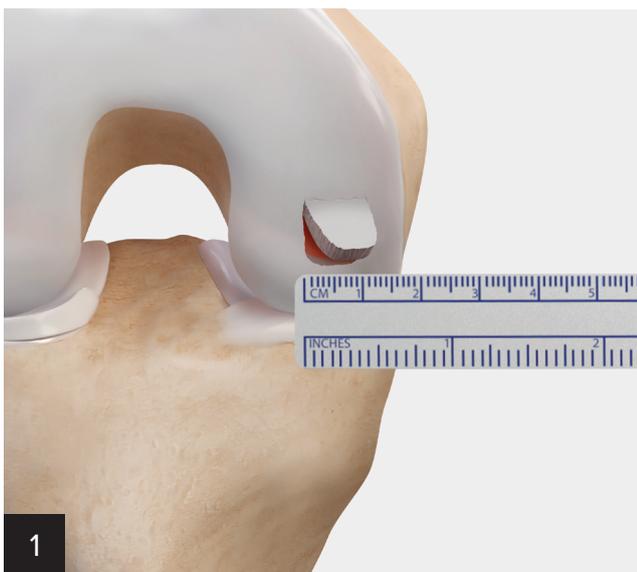


Osteochondral Flap Repair System Using the Chondral Dart™ Implant

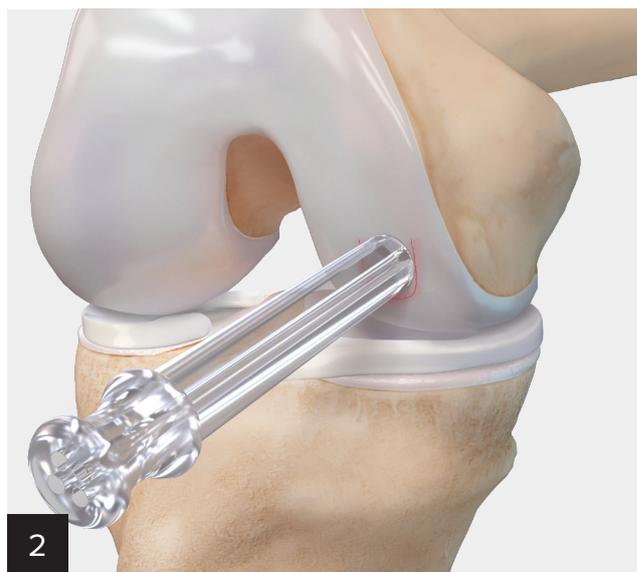
Surgical Technique



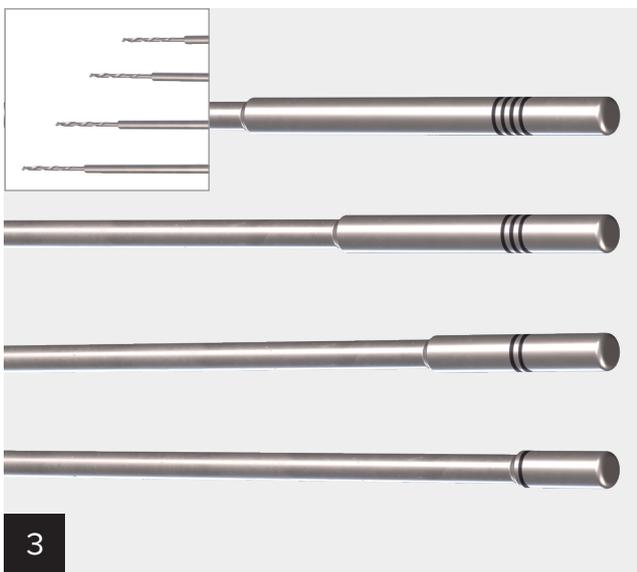
Arthrex® 



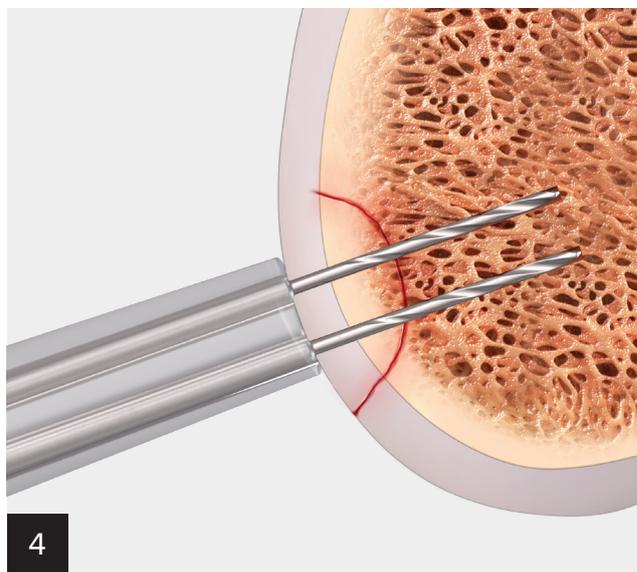
For osteochondral fractures or OCD lesions that are greater than 1 cm, the surgeon may use the multishot method for introducing multiple Chondral Dart™ implants to secure the flap while maintaining atraumatic compression of the fragment throughout the procedure.



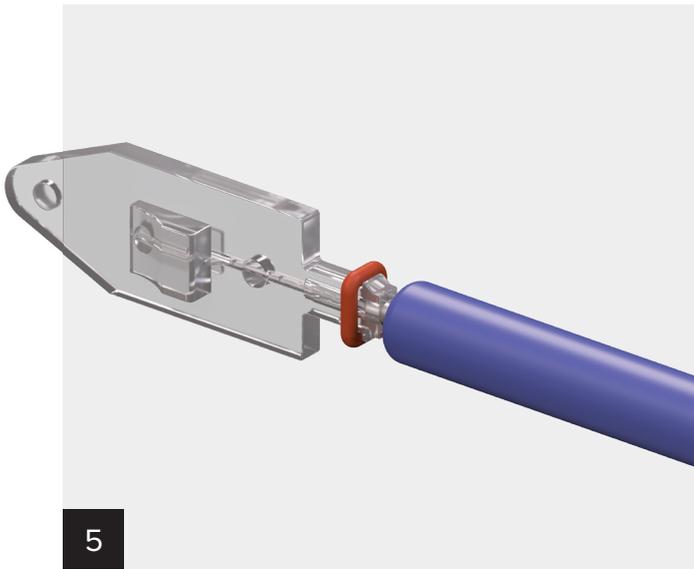
The translucent Osteochondral Flap Repair 4-Hole Guide Sleeve is used to reduce the osteochondral lesion and apply compression during the placement of Chondral Darts. A smaller 2-hole guide sleeve may be favored for smaller lesions.



Use a series of 4 stepped osteochondral flap repair drill pins to create pilot holes in the osteochondral fragment to a depth of 20 mm, which later will be replaced with 18 mm-long Chondral Dart implants. Specifically mark and place each drill pin into the guide sleeve in sequence.



The combination of the stepped drill pins and the concave translucent guide sleeve achieves maintenance of compression to the fragment while permanent fixation is carried out. Once reduction and temporary fixation is achieved the stepped drill pins are removed one at a time.



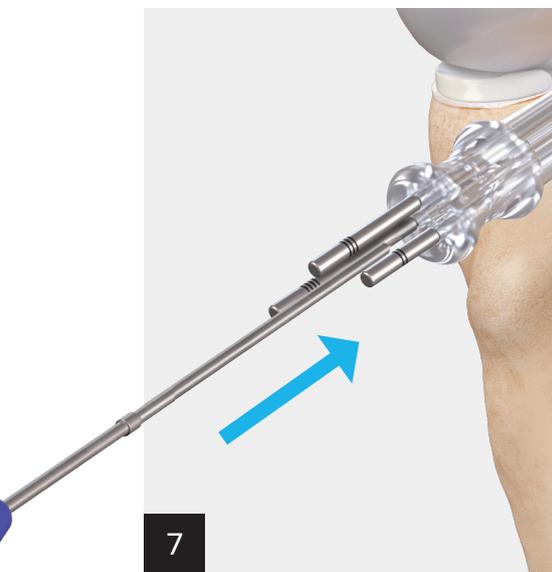
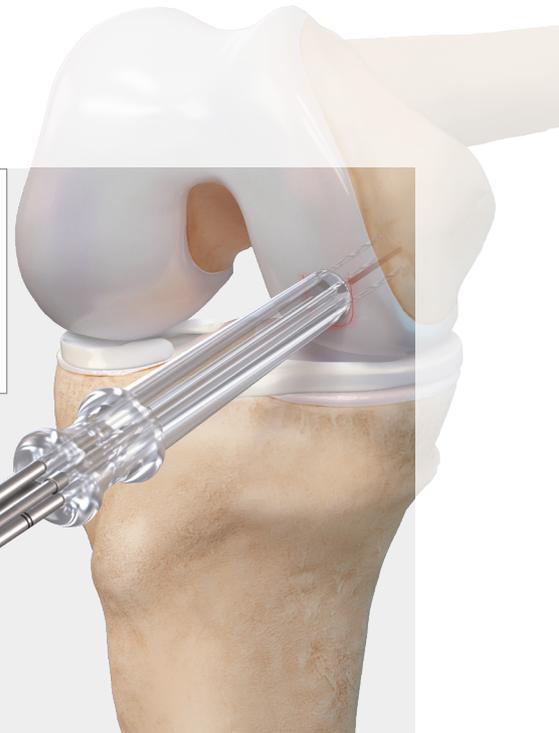
5

The Osteochondral Flap Repair Single-Shot Sheath is positioned into the guide sleeve. The depth stop on the sheath avoids contact to the articular hyaline surface. Load an 18 mm-long Chondral Dart™ implant made of semicrystalline PLLA into the end of the sheath. Push the clear button on the Chondral Dart implant case to advance the dart into the sleeve.



6

Once inserted into the sheath, a Single-Shot Dart Inserter is used to deliver the dart into the pilot hole, recessing the dart 2 mm below the hyaline cartilage surface. Lightly tap the inserter until it contacts the back of the sheath, providing confirmation that the dart is seated.



7

Remove and replace the inserter and sheath with a short, blunt pin. The pin stabilizes the guide sleeve from moving during subsequent dart insertion by resting behind the countersunk Chondral Dart implant.



8

A minimum of 3 Chondral Dart implants is recommended to secure fragments greater than 1 cm in diameter. Compression is maintained on the osteochondral fragment by the guide sleeve until the necessary number of darts are placed to successfully reduce and stabilize the lesion.



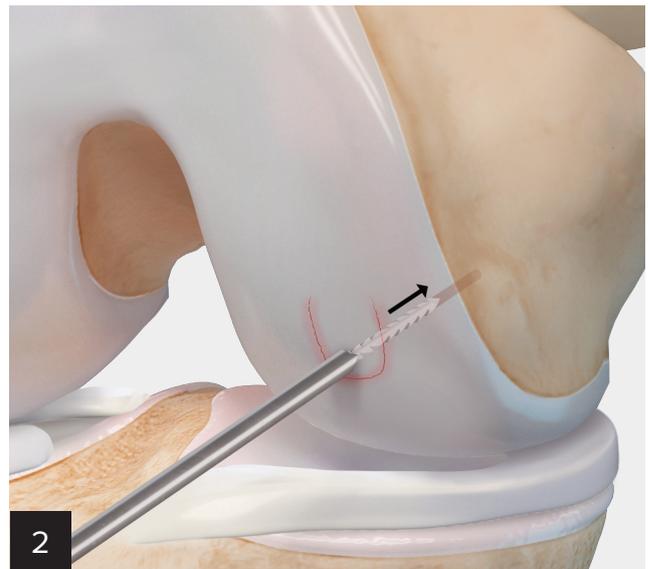
9

The bioabsorbable PLLA Chondral Dart implant has a unique double-reversed barb design to facilitate superior compression and fixation of osteochondral lesions up to 2 cm in diameter. The 18 mm-long, 1.3 mm-diameter Chondral Dart implant provides secure fixation under the hyaline cartilage surface to eliminate contact with sensitive articulating surfaces.

Surgical Technique: Single-Shot



For flap tears of 1 cm or less, the surgeon may select the single-shot method. The single-shot sheath allows for firm reduction and compression of the flap while permanent fixation of the lesion is performed. To assure secure fixation, apply the sheath to the flap perpendicular to its bone bed.



Once inserted into the sheath, use a Single-Shot Dart Inserter to deliver the dart into the pilot hole, recessing the dart 2 mm below the hyaline cartilage surface. Lightly tap the inserter until it contacts the back of the sheath, providing confirmation that the dart is seated.



Minimum placement of 2 Chondral Dart™ implants will successfully apply the appropriate compression and rotational control of the fragment.

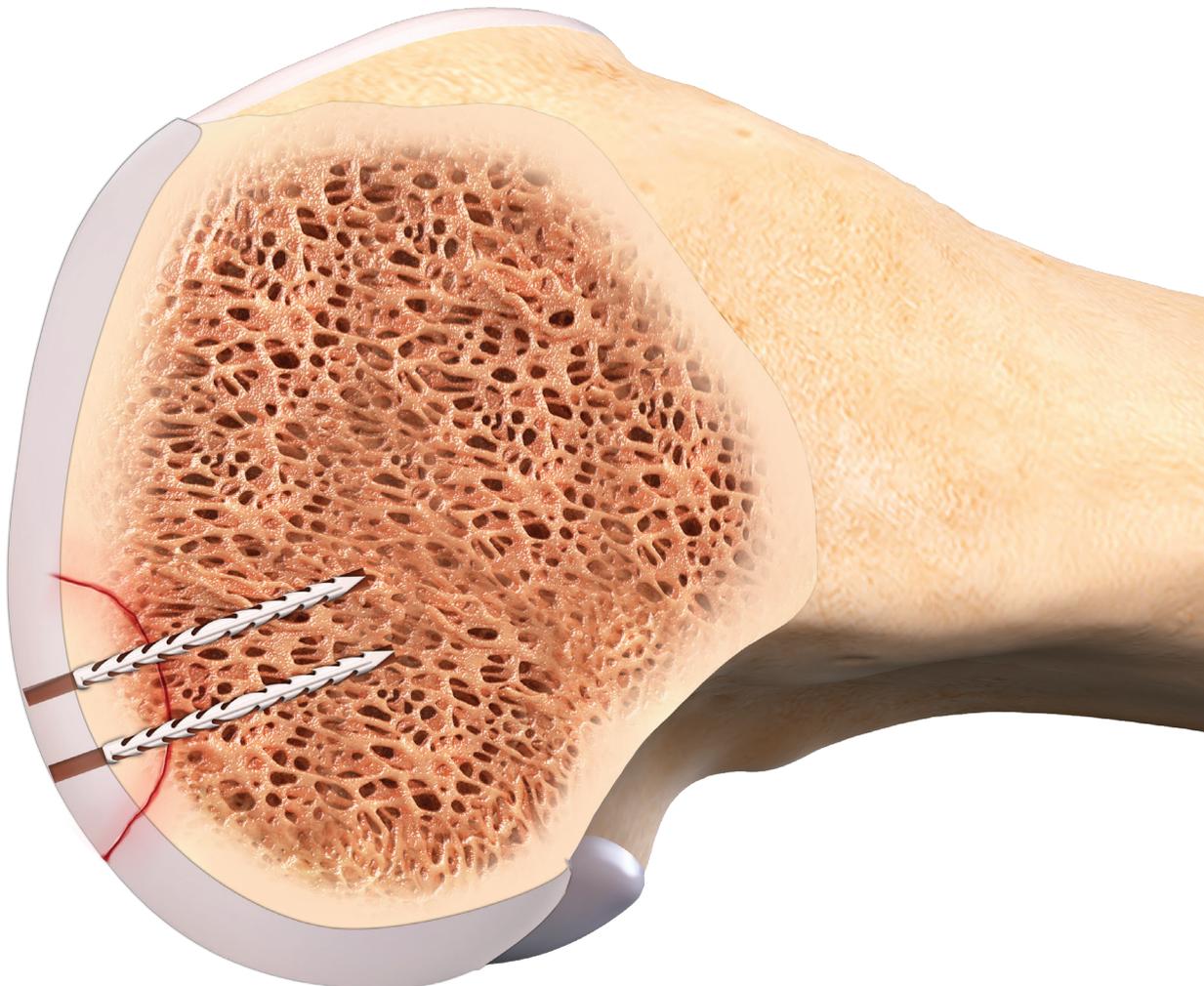
Ordering Information

Instrumentation

Product Description	Item Number
Osteochondral Flap Repair Single-Shot Set, sterile, qty. 5, single use	
Osteochondral Flap Repair Single-Shot Sheath	AR-4009S
Osteochondral Flap Repair Single-Shot Dart Inserter	
Osteochondral Flap Repair Single-Shot Drill	
Osteochondral Flap Repair Single-Shot Cannula	
Osteochondral Flap Repair Multishot Set, sterile, qty. 5, single use	
Osteochondral Flap Repair Single-Shot Sheath	AR-4095S
Osteochondral Flap Repair Single-Shot Dart Inserter	
Osteochondral Flap Repair Single-Shot Drill	
Osteochondral Flap Repair Single-Shot Cannula	
Osteochondral Flap Repair Blunt Pin	
Osteochondral Flap Repair 2-Hole Guide Sleeve	
Osteochondral Flap Repair 4-Hole Guide Sleeve	
Osteochondral Flap Repair Drill Pins, S, M, L, and XL	
Chondral Dart, 18 mm, sterile, qty. 5, single use	AR-4005B-18

Osteochondral Flap Repair Sets are packaged in a convenient, disposable plastic case with easy-tear-off lid.

Products may not be available in all markets because product availability is subject to the regulatory approvals and medical practices in individual markets. Please contact your Arthrex representative if you have questions about the availability of products in your area.





This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience, and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level and/or outcomes.

View U.S. patent information at www.arthrex.com/corporate/virtual-patent-marking

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