

Delivering controlled, adjustable suture tension, the BIORAPTOR[◇] Knotless Suture Anchor provides an easy to use, potentially time-saving approach to labrum repairs of the shoulder and hip.



Final fixation in shoulder cadavor specimen



Final fixation in hip cadavor specimen

Ordering Information

Anchors

Reference #	Description
72202397	BIORAPTOR® Knotless Anchor (Hip length inserter)
72202403	BIORAPTOR Knotless Anchor (Shoulder length inserter)

Instruments

Color Coded System

72202399	BIORAPTOR Knotless Inline Drill Guide, spike tip
72202400	BIORAPTOR Knotless Inline Drill Guide, crown tip
72202793	BIORAPTOR Knotless Inline Obturator, cannulated
72202792	BIORAPTOR Knotless Inline Obturator, blunt
72201918	BIORAPTOR Knotless Drill bit, 2.7 mm (shoulder)
72201395	BIORAPTOR Knotless Drill bit, 3.0 mm (hip)

Suture Passing

ACCU-PASS® Disposable Suture Shuttles, #1 Monofilament 48" included

7210423	ACCU-PASS 45 (deg), left, sterile
7210424	ACCU-PASS 45 (deg), right, sterile
7210425	ACCU-PASS 45 (deg), upbend, sterile
7210426	ACCU-PASS Straight, sterile
72200419	ACCU-PASS 70 (deg), upbend, sterile
72201361	ACCU-PASS monofilament, size #1, single pack, sterile, box of 10

ARTHRO-PIERCE® Reusable Suture Shuttles

7209829	ARTHRO-PIERCE Premium Instrument System
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System Includes:

7209496	ARTHRO-PIERCE Instrument, straight
72202568	ARTHRO-PIERCE XL Instrument, straight
7209497	ARTHRO-PIERCE Instrument, 45 (deg) right
7209498	ARTHRO-PIERCE Instrument, 45 (deg) left
7209499	ARTHRO-PIERCE Instrument, 35 (deg) up
72202683	ARTHRO-ROUND XL Instrument, straight
7209182	Sterilization Tray, 13" x 9" x 6"

Sutures

ULTRABRAID® High Strength Suture

72200886	ULTRABRAID #2 white suture, 38" 10 per package, sterile
72200887	ULTRABRAID #2 co-braid suture, 38" 10 per package, sterile

Endoscopy

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BIORAPTOR[®]
Knotless Suture Anchor

No guesswork

Controllable tension for labral repairs of the shoulder and hip

The BIORAPTOR[®] Knotless Suture Anchor allows surgeons to control anchor tension in labrum repairs post anchor insertion. Unlike other instability anchors, our knotless anchors do not rely on a bone-anchor interface for proper final fixation or suture security. Designed with an inner plug, the tension-ability and security of our sutures lies within the interior of the anchor.

Key Performance Characteristics

Independent Suture Tensioning

Our knotless anchor design gives surgeons the ability to tension the suture after anchor implantation. What makes this possible is the inner locking plug design that captures suture within the anchor. The result: final tension is in the hands of the surgeon.

Surgeon-Controlled Tissue Shift

Achieve desired tissue shift with a solution that puts the surgeon in control. With the BIORAPTOR Knotless Anchor, calculated tissue shift occurs after anchor implantation, similar to that of traditional knotted anchors.

May save time while protecting the joint

By eliminating the knot-tying step, surgeons may save time with less procedural steps and benefit from a solution that minimizes the risk of intra-articular damage due to knot stacks.



Shoulder Technique Overview

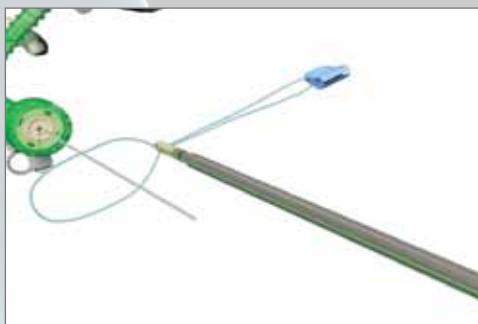
For complete surgical technique refer to Technique Guide 10600633.



1. Using an ACCU-PASS[®] Suture Shuttle device, a strand of ULTRABRAID[®] suture is passed through the labrum inferior to the tear, and passed out the operative cannula.



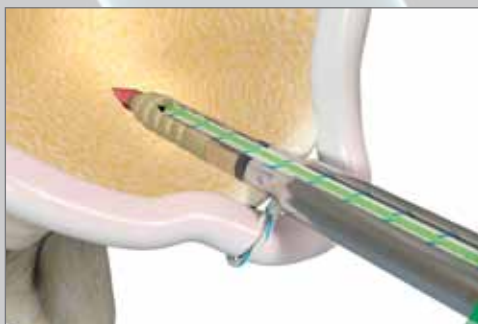
2. Using the proper drill guide and obturator, place the distal tip of the guide onto the bone at the desired implantation site. Place the guide approximately 1-2 mm onto the face of the glenoid to aid visualization, and drill the bone hole. After preparing the site, remove the guide and drill bit.



3. The two ends of ULTRABRAID suture are threaded through the BIORAPTOR[®] Knotless Anchor using the attached suture threading feature.



4. Advance the loaded suture anchor into the operative cannula. Leaving some suture slack in the suture, advance the anchor to the prepared bone site. Orient the anchor such that the free limb sutures entering the anchor are facing the tissue. Use a mallet to tap the inserter handle until the laser mark is flush with the cortical bone.



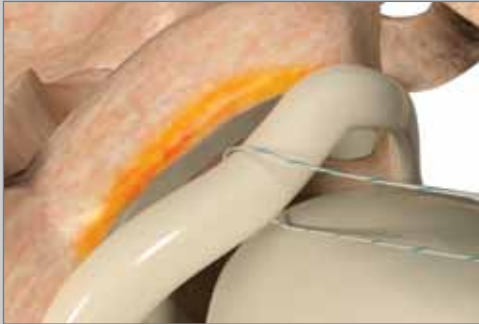
5. While maintaining slight downward pressure on the inserter handle, manually pull suture(s) individually or together, to apply desired tension. The proximal knob is then turned to lock the suture inside the anchor.



6. The final fixation shows the low profile repair and lack of knot stacks in the joint.

Hip Technique Overview

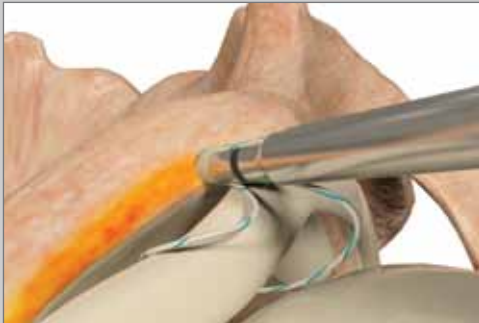
For complete surgical technique refer to Technique Guide 10600666.



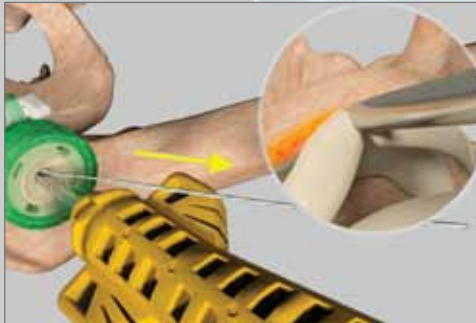
1. Using a suture-passing instrument such as an ARTHRO-PIERCE® or ARTHRO-ROUND device, pass one end of a 38" strand of ULTRABRAID® suture through or around the labrum.



2. Using the proper drill guide and obturator, place the distal tip of the guide onto the bone at the desired implantation site. While firmly holding the guide in place, use the 3.0 mm drill bit to prepare the insertion site. After preparing the site, remove the guide and drill bit.



3. Load the ULTRABRAID suture through the anchor using the attached suture threader. Advance the loaded suture anchor through the operative cannula to the prepared bone site.



4. Use a mallet to tap the inserter handle until the laser mark is flush with the cortical bone. Remove the retention suture. While maintaining slight downward pressure on the inserter handle, manually pull suture(s), individually or together, to apply desired tension.



5. Rotate the torque limiter on the proximal end of the inserter clockwise approximately 8 turns until several clicks are heard. This will lock the suture in the anchor using the inner plug



6. Repeat with additional anchors until the desired final repair is completed.

