

Bio-SutureTak<sup>®</sup> Bankart & SLAP Repair

Surgical Technique





Preference for percutaneous anchor placement for glenohumeral joint procedures is at the surgeon's discretion using the Bio-SutureTak Spear with Trocar.

The Bio-SutureTak and Shoulder Repair Set provide a comprehensive solution to facilitate arthroscopic shoulder reconstruction. Patient positioning using the Beach Chair Lateral Traction Device or the 3-Point Shoulder Distraction System allows for reliable joint distraction. Glenohumeral

joint access is facilitated with a variety of clear translucent cannulas. The Bio-SutureTak simplifies implant insertion. Using an insertion guide, with or without offsets, a pilot hole is precisely placed on the glenoid rim.

Suture passage through tissue is then performed with available instruments including the Corkscrew<sup>®</sup>, and various terminal designed SutureLassos<sup>™</sup>, BirdBeaks<sup>®</sup>, Penetrators<sup>™</sup>, and the NeedlePunch<sup>®</sup>. The Bio-SutureTak loaded with FiberWire<sup>®</sup> suture, which is twice the strength per diameter than other permanent braided sutures, alleviates concern for suture breakage while knot tying with Single, Two-Hole or 6th Finger Knot Pushers.



## Bio-SutureTak<sup>®</sup> Bankart & SLAP Repair



Access to carry out arthroscopic shoulder reconstruction is established using the reusable obturator system and translucent 5.75 mm Crystal Cannula<sup>®</sup>. An anterior inferior portal created just superior to the lateral subscapularis tendon, using a threaded 7 or 8.25 mm cannula, is recommended for Bankart reconstructions.



To promote tissue healing to bone, a bleeding bone surface is prepared with a series of Tissue Elevators available in 15 and 30 degree angles and/or specifically designed Glenoid and Bankart Rasps.

When significant scarring or an ALPSA lesion is present, a Tissue Elevator may be used. A Glenoid Rasp or shaver is introduced to remove fibrous adhesions.



The Metal Offset Guide is passed through the anterior inferior, threaded, translucent Twist-In Cannula set at the 5 o'clock position on the glenoid margin to establish placement of the initial Bio-SutureTak. The trocar is removed allowing the fish-mouth design of the guide to remain securely on the bone surface rim.



A pilot hole for the Bio-SutureTak is completed to a precise, appropriate depth as the collar of the drill contacts the back of the guide. The preset depth of the pilot hole assures that the suture loop of the implant is countersunk below the bone surface.



The Bio-Suture Tak is then placed through the guide and inserted into bone by gentle impaction until the laser line on the handle end of the inserter is flush with the back of the guide. The guide and implant driver are removed. Security of the anchor placement is tested by pulling on the #2 FiberWire suture looped through the suture eyelet molded in the implant.



A Push/Pull Crochet Hook is used to transfer a single suture limb to the anterior superior portal. Visualizing the anchor eyelet during suture transfer avoids the potential of disengaging the suture from the implant.



A Corkscrew SutureLasso is inserted into the anterior inferior cannula and passed through the labral tissue inferior to the anchor's position. Once the tip of the lasso penetrates the tissue the Nitinol suture wire is advanced into the joint. Through the anterior superior portal a CrabClaw<sup>™</sup> is used to retrieve the wire loop outside of the cannula. While holding the wire loop the SutureLasso is removed from the anterior inferior portal.



Three to four centimeters of the suture limb is passed through the wire lasso loop outside the anterior superior portal and the wire loop exiting the anterior inferior cannula is pulled out the cannula which shuttles the suture through the labral tissue and out the inferior cannula.



The suture loop of the Bio-SutureTak facilitates ease of suture-sliding through tissue and anchor necessary for securing sliding knots. Alternating half-hitch or sliding knot tying using the 6th Finger Knot Pusher, CrabClaw, Single Hole or Two-Hole Knot Pusher provides multiple options for knot tying.

A Suture Cutter, specially designed to cut FiberWire, is used to cut the excess suture leaving a 3 mm tail.



Alternative suture passing option: Using a single portal, a BirdBeak or Penetrator Suture Retriever may be used to penetrate the tissue. The jaws of the instrument are opened retrieving a single suture limb. In hard to reach areas a suture hand-off with a Suture Retriever can bring suture to the jaw opening of the BirdBeak or Penetrator alleviating potential tissue damage.



SLAP repair is performed in a similar manner. Optional percutaneous anchor placement with the Spear alleviates cannula placement through the rotator cuff. Sutures are transferred to the anterior superior cannula with a Suture Retriever. A BirdBeak or SutureLasso passed in the same percutaneous path as the anchor is used to pass suture through the superior labrum. The flexible eyelet of the Bio-SutureTak enables the surgeon to retrieve and tie the suture via the anterior superior cannula.

24 mm implants AR-1934BF-24   Bio-SutureTak Instrumentation Set (AR-1934-245) for 2.4 mm implants: AR-1934BF-24   Bio-SutureTak Instrumentation Case AR-1948   Step Drill, J. 8 mm, for 2.4 mm Bio-SutureTak AR-1944   Step Drill, J. 8 mm, for 2.4 mm Bio-SutureTak AR-1944   Step Drill, Arm, for 2.4 mm Bio-SutureTak AR-1945   Optional Instruments, 2.4 mm Bio-SutureTak AR-19452   Spade Tip Drill, for use w/2 at mm Bio-SutureTak AR-19452   Spade Tip Drill, for use w/2 at mm Bio-SutureTak AR-19452   Sim Implants: Includes: Spear - AR-19453 and Step Drill - AR-1934D-24) AR-19342BF   Bio-SutureTak Suture Anchor, 3 mm x 14 mm, w/#2 Tevedsk AR-1934BF   Bio-SutureTak Suture Anchor, 3 mm x 14 mm, w/#2 Tevedsk AR-1934BFT   Bio-SutureTak Suture Anchor, 3 mm x 14 mm, w/#2 TigerTail AR-1934BFT   Bio-SutureTak, Suture Anchor, 3 mm x 14 mm, w/#2 TigerTail AR-1934BFT   Bio-SutureTak, Suture Anchor, 3 mm x 14 mm, w/#2 TigerTail AR-1934BFT   Bio-SutureTak, Suture Anchor, 3 mm x 14 mm, w/#2 TigerTail AR-1934BFT   Bio-SutureTak, Suture Anchor, 3 mm x 14 mm, w/#2 TigerTail AR-1934BFT   Bio-SutureTak, Suture Anchor, 3 mm x 14 mm, w/#2 TigerTail AR-1934DFS   Bio-S	Ordering Information	
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Metal Offset Guide, ulsposable AR-1934GS   Bio-SutureTak Spear w/Circumferential Teeth, 3 mm AR-1946   3.7 mm Implants: AR-1934BLF   Bio-SutureTak Suture Anchor, 3.7 mm x 14 mm, w/#2 FiberWire AR-1934BLF   Bio-SutureTak Suture Anchor, 3.7 mm x 14 mm, w/#2 TigerTail AR-1934BLFT   Bio-SutureTak Instrumentation Set (AR-1934LS) for 3.7 mm implants includes: AR-1907   Bio-SutureTak Instrumentation Case AR-1907   Bio-SutureTak Instrumentation Case AR-1934C   Required Drills: Xarana Strue Tak   Step Drill, for 2.4 mm Bio-SutureTak AR-1934D-24   Step Drill, for 3 mm Bio-SutureTak AR-1934PD   Step Drill, for 3 mm Bio-SutureTak AR-1934PD   Step Drill, for 3.7 mm Bio-SutureTak AR-1908   Bio-SutureTak Open Procedures, Implants and Instruments: Bio-SutureTak Suture Anchor w/Needles, w/#2 FiberWire, 3 mm x 14 mm   Bio-SutureTak Suture Anchor w/Needles and Bio-SutureTak w/Needles AR-1934BNF	Metal Offset Guide Matal Offset Guide disposable	AR-1934R
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Bio-Suture Tak Suture Anchor, 3.7 mm x 14 mm, w/#2 FiberWire AR-1934BLFT   Bio-Suture Tak Suture Anchor, 3.7 mm x 14 mm, w/#2 Tiger Tail AR-1934BLFT   Bio-Suture Tak Instrumentation Set (AR-1934LS) for 3.7 mm implants includes: AR-1934BLFT   Bio-Suture Tak Instrumentation Set (AR-1934LS) for 3.7 mm implants includes: AR-1907   Bio-Suture Tak Spear, 3.7 mm AR-1907   Bio-Suture Tak Instrumentation Case AR-1934C   Required Drills: X   Step Drill, for 2.4 mm Bio-Suture Tak AR-1934D-24   Step Drill, for 3 mm Bio-Suture Tak AR-1934DD-24   Step Drill, for 3 mm Bio-Suture Tak AR-1934PD   Step Drill, for 3.7 mm Bio-Suture Tak AR-1934BNF   Bio-Suture Tak Open Procedures, Implants and Instruments: AR-1934BNF   Bio-Suture Tak Suture Anchor w/Needles, w/#2 FiberWire, 3 mm x 14 mm AR-1934BNF   Short Spear, for Bio-FASTak w/Needles and Bio-Suture Tak w/Needles AR-1326G   Bio-Suture Tak Data AR-1326G	3.7 mm Implants: Pio Suture Tek Suture Anchor, 2.7 mm v 14 mm, vv (#2 EiberWire)	AD 1024DI E
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Bio-SutureTak Open Procedures, Implants and Instruments:   Bio-SutureTak Suture Anchor w/Needles, w/#2 FiberWire, 3 mm x 14 mm   Short Spear, for Bio-FASTak w/Needles and Bio-SutureTak w/Needles   AR-1934BNF   AR-1326G   AR-1226G	Step Drill, for 3 mm PEEK SutureTak Step Drill, for 3.7 mm Bio-SutureTak	AR-1934PD AR-1908
Short Spade Tip Drill AR-1256	<u>Bio-SutureTak Open Procedures, Implants and Instruments:</u> Bio-SutureTak Suture Anchor w/Needles, w/#2 FiberWire, 3 mm x 14 mm Short Spear, for Bio-FASTak w/Needles and Bio-SutureTak w/Needles Short Spade Tip Drill	AR-1934BNF AR-1326G AR-1256



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