

Part of the **S+N SHOULDER REPAIR** Portfolio

+ Redefining peak performance

Smith+Nephew



Q-FIX[®]
All-Suture Anchor Family



+ Q-FIX[®] All-Suture Anchor Family

Consistent deployment¹⁻³

- Active deployment against the inserter shaft consistently sets the anchor to at least 140N; contributing to **high pull-out performance** and **low displacement during cyclic loading**^{*4-10}

Figure 1

Market Leading Biomechanics^{**2, 5, 6, 8, 9, 11, 12}

- The Q-FIX All-Suture Anchor Family provides market leading biomechanical performance^{**}
2, 5-6, 8-9, 11-12
- Q-FIX anchors have 360° subcortical radial expansion leading to best-in class anchor fixation^{***2, 4, 5, 8, 9, 10-12}

Figure 2

Versatile Offerings

The Q-FIX family offers several options to meet needs across surgical procedures or surgeon preferences.

	Repair Type	Suture Type	# of Sutures
Q-FIX MINI (1.8mm) ^{****}	Knotted	#2 Suture	Single loaded
Q-FIX (1.8mm) ^{****}	Knotted	#2 Suture MINITAPE [®]	Single loaded
Q-FIX KNOTLESS (1.8mm) ^{****}	Knotless	#2 Suture MINITAPE [®]	Single loaded
Q-FIX (2.8mm)	Knotted	#2 Suture MINITAPE [®]	Double loaded



Figure 1

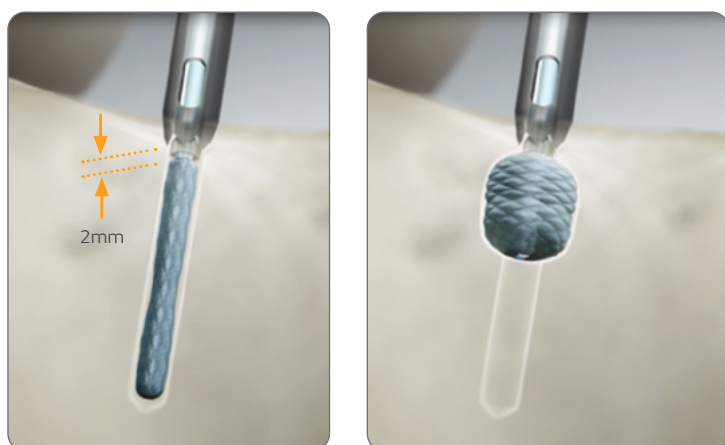


Figure 2

Insertor is 2mm below bone surface

Radial expanding deployment^{*6, 9, 13-14}

* as demonstrated in benchtop testing

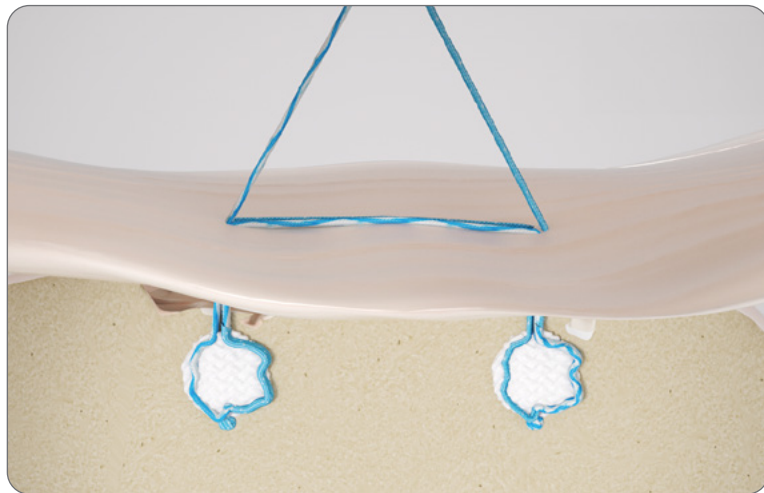
** as compared to competitive all-suture anchors in cyclic and fixation/pull-out benchtop testing

*** as compared to competitive devices in fixation/pull-out benchtop testing

**** available for use with curved instrumentation

+ Q-FIX[®] KNOTLESS All-Suture Anchor

- **Designed** for controlled tensioning post deployment¹⁵
- **Suture lock feature** allows for best in class soft tissue security^{*11}



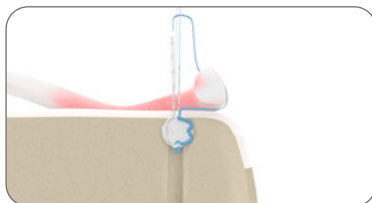
Watch

- [Q-FIX KNOTLESS All-Suture Anchor Suture Shuttling Animation](#)
- [Q-FIX KNOTLESS All-Suture Anchor Bankart and Remplissage Animation](#)

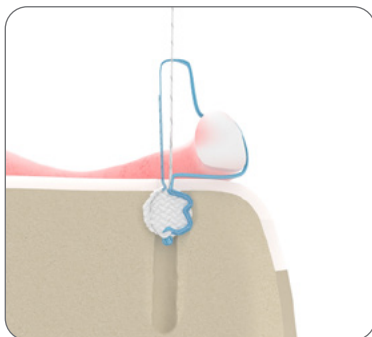
Streamlined suture shuttling¹¹



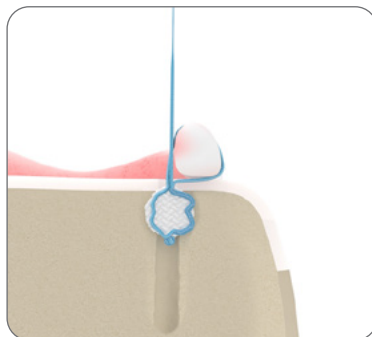
1. Deploy



2. Pass



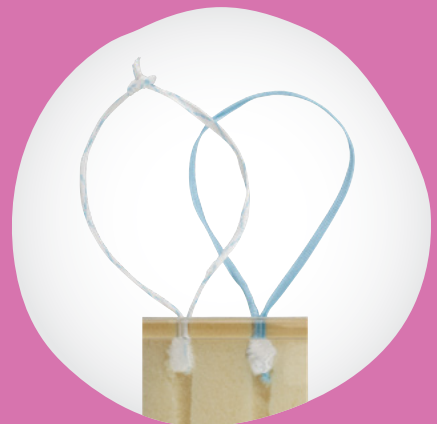
3. Shuttle



4. Tension & Suture Lock

Q-FIX KNOTLESS All-Suture Anchor + Q-FIX All-Suture Anchor 1.8

have equivalent suture displacement when subjected to cyclic loading^{**11}



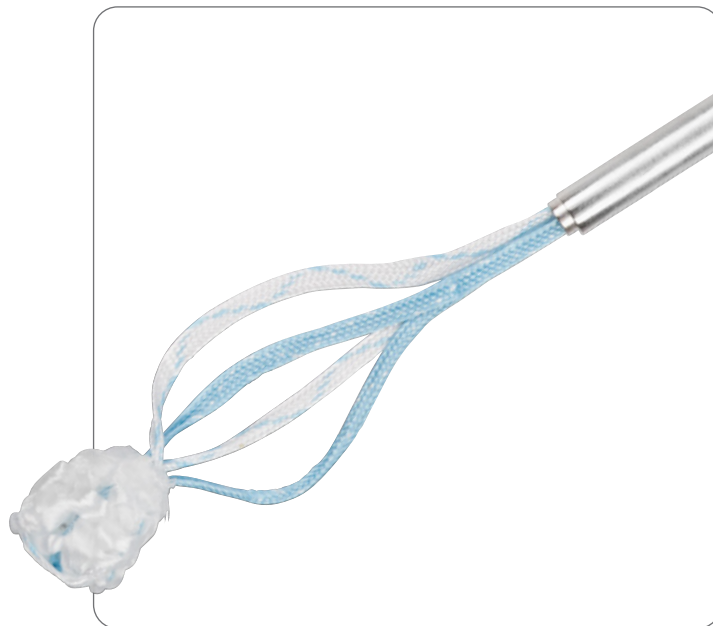
* as compared to the competitive device in cyclic benchtop testing

** as compared in benchtop testing

+ MINITAPE[®] Suture Tape

MINITAPE Suture Tape has a low profile¹⁹ and coreless design, which has been shown to offer a lower and more evenly distributed level of pressure^{*16}

The suture tape is conveniently tapered into #2 sutures for use with existing Smith+Nephew suture manipulation devices¹⁷



+ Curved Instrumentation

The Curved Instrumentation has intuitive visual and tactile cues that facilitate drill guide positioning and anchor placement¹⁸

- The crescent-shaped laser mark indicated the orientation of the curvature
- The vertical laser mark indicates the trajectory of the drill bit

Q-FIX[®] Curved Drill Guide can improve access to challenging shoulder anatomy¹⁸



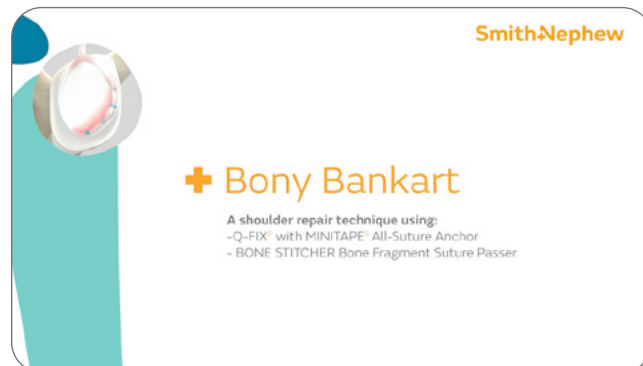
*as compared to traditional #2 suture

+ Q-FIX[®] All-Suture Anchor by Technique Bankart Repair

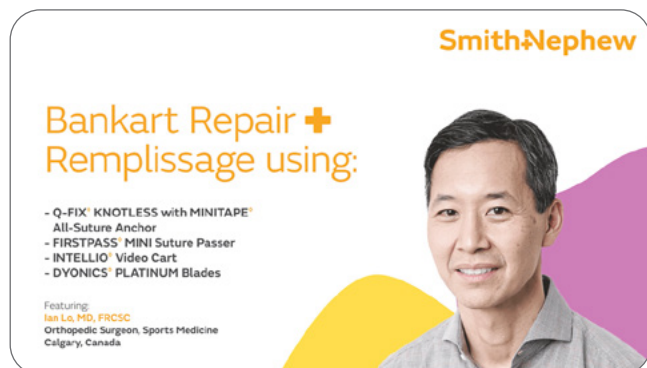
Q-FIX with MINITAPE[®] All-Suture Anchor with
Dr. Ryan Simovitch



Q-FIX with MINITAPE All-Suture Anchor
Bony Bankart Animation



Q-FIX KNOTLESS All-Suture Anchor
Bankart & Remplissage with Dr. Ian Lo

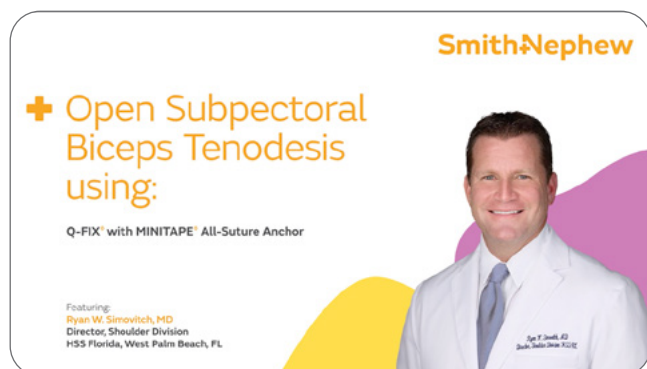


Q-FIX KNOTLESS All-Suture Anchor
Bankart & Remplissage Animation

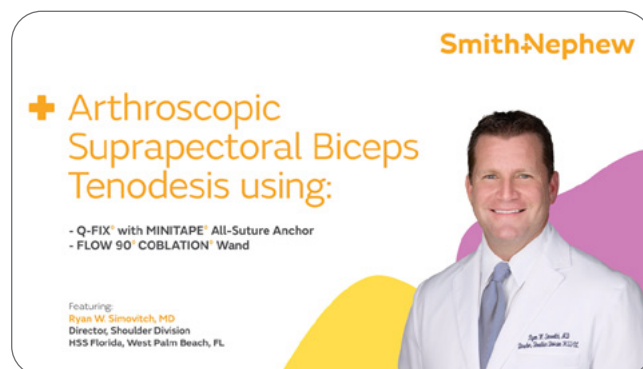


Biceps Tenodesis

Q-FIX with MINITAPE All-Suture Anchor
Subpectoral Biceps Tenodesis with
Dr. Ryan Simovitch



Q-FIX with MINITAPE All-Suture Anchor
Arthroscopic Subpectoral Biceps Tenodesis
with Dr. Ryan Simovitch



Watch

Click to watch Q-FIX All-Suture Anchor techniques and animations

Ordering information

Q-FIX® KNOTLESS All-Suture Anchors*	
Reference #	Description
72205884	Q-FIX KNOTLESS All-Suture Anchor, 1.8mm, with one MINITAPE suture, blue
72205885	Q-FIX KNOTLESS All-Suture Anchor, 1.8mm, with one MINITAPE suture, co-braid blue
72205882	Q-FIX KNOTLESS All-Suture Anchor, 1.8mm, with one ULTRABRAID suture, blue
72205883	Q-FIX KNOTLESS All-Suture Anchor, 1.8mm, with one ULTRABRAID suture, cobraid-blue
Q-FIX All-Suture Anchors Pre-loaded with MINITAPE® Suture*	
72205858	Q-FIX All-Suture Anchor, 1.8mm, with one MINITAPE Suture, cobraid-white
72205859	Q-FIX All-Suture Anchor, 1.8mm, with one MINITAPE Suture, blue
72205860	Q-FIX All-Suture Anchor, 2.8mm, with two MINITAPE Sutures, blue, cobraid-white
Q-FIX All-Suture Anchors Pre-loaded with MAGNUMWIRE Suture	
72290123	Q-FIX MINI All-Suture Anchor, 1.8mm, with one MAGNUMWIRE Suture, cobraid-wire
25-1800	Q-FIX All-Suture Anchor, 1.8mm, with one MAGNUMWIRE Suture, cobraid-blue
25-2800	Q-FIX All-Suture Anchor, 2.8mm, with two MAGNUMWIRE Sutures: cobraid-blue, cobraid-black
Q-FIX Disposable kits	
72290125	Q-FIX MINI All-Suture Anchor Disposable Kit, 1.8mm, includes drill, fish mouth tip drill guide and sharp obturator
72290126	Q-FIX MINI All-Suture Anchor Disposable Kit XL, 1.8mm, includes drill, crown drill guide and sharp obturator
25-1810	Q-FIX All-Suture Anchor Disposable Kit, 1.8mm, includes drill, fish mouth tip drill guide and sharp obturator
25-1811	Q-FIX All-Suture Anchor Disposable Kit XL, 1.8mm, includes drill, crown tip drill guide and sharp obturator

Q-FIX Disposable Kits	
Reference #	Description
25-2810	Q-FIX All-Suture Anchor Disposable Kit, 2.8mm, includes drill, crown tip drill guide and blunt obturator
Q-FIX Reusable Accessories	
72290032	Q-FIX All-Suture Anchor Drill Guide, fish mouth tip, 1.8mm, nonsterile, reusable
72290034	Q-FIX All-Suture Anchor Drill Guide XL, crown tip, 1.8mm, nonsterile, reusable
72290120	Q-FIX All-Suture Anchor Curved Drill Guide, crown tip, 1.8mm, nonsterile, reusable
72290119	Q-FIX All-Suture Anchor Curved Drill Guide XL, crown tip, 1.8mm, nonsterile, reusable
72290033	Q-FIX All-Suture Anchor Obturator, 1.8mm, nonsterile, reusable
72290035	Q-FIX All-Suture Anchor Drill Guide, crown tip, 2.8mm, nonsterile, reusable
72290036	Q-FIX All-Suture Anchor Obturator 2.8mm, nonsterile, reusable
25-2820	Q-FIX All-Suture Anchor Bone Punch, 2.8mm, reusable
Q-FIX Disposable Accessories	
72290124	Q-FIX MINI All-Suture Anchor Twist Drill, 1.8mm, sterile, disposable
72290030	Q-FIX All-Suture Anchor Twist Drill, 1.8mm, sterile, disposable
72290118	Q-FIX All-Suture Anchor Flexible Drill, 1.8mm, sterile, disposable
72290031	Q-FIX All-Suture Anchor Twist Drill, 2.8mm, sterile, disposable

* Legal manufacturer is Smith & Nephew, Inc. 150 Minuteman Road Andover, MA 01810 USA

Smith & Nephew Pty Ltd
Australia
T +61 2 9857 3999
F +61 2 9857 3900
smith-nephew.com/en-au

Smith & Nephew Ltd
New Zealand
T +64 9 820 2840
F +64 9 820 2841
smith-nephew.com/en-nz

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For detailed product information, including indications
for use, contraindications, precautions and warnings,
please consult the product's applicable Instructions
for Use (IFU) prior to use.

References

1. ArthroCare Corporation 2016. Report: Design Verification, 1.8mm & 2.8 mm Q-Fix Suture Anchor. P/N 49190-01 Rev.B. **2.** ArthroCare Corporation 2017. Report: Design Verification, 1.8mm Q-FIX MINI Soft Suture Anchor. P/N 49190-03 Rev. B. **3.** Smith+Nephew 2020. Safety and Performance of Q-Fix All-Suture Anchor System. Internal Report. 17-5010-11. **4.** ArthroCare 2019. Comparative Testing of Bone Anchor Devices, 1.8mm Q-FIX Mini Soft Suture Anchor. P/N 49193-02 Rev.B. **5.** Barber FA, Herbert MA. All-Suture Anchors: Biomechanical Analysis of Pullout Strength, Displacement, and Failure Mode. *Arthroscopy*. 2017;33(6):1113-1121. **6.** Douglass NP, Behn AW, Safran MR. Cyclic and Load to Failure Properties of All-Suture Anchors in Synthetic Acetabular and Glenoid Cancellous Bone. *Arthroscopy*. 2017;33(5):977-985 e975. **7.** Nagra NS, Zargar N, Smith RD, Carr AJ. Mechanical properties of all-suture anchors for rotator cuff repair. *Bone Joint Res*. 2017;6(2):82-89. **8.** Ruder JA, Dickinson EY, Peindl RD, Habet NA, Trofa DP, Fleischli JE. Cyclic and Load-to-Failure Properties of All-Suture Anchors in Human Cadaveric Shoulder Glenoid Bone. *Arthroscopy*. 2019;35(7):1954-1959 e1954. **9.** Smith and Nephew 2023. Q-FIX with MINITAPE Claims Report. Internal Report. 10090792- Revision B. **10.** ArthroCare Corporation PRODUCT SPECIFICATION, Q-Fix Soft Anchor System, (Catalog #s 25-1800, 25-2800, 72290123), DHF 48121. P/N 48159 Rev.L. **11.** Smith+Nephew 2024 Internal Report, 10144423 Rev B. **12.** Ergun S, Akgun U, Barber A, Karahan M. The Clinical and Biomechanical Performance of All-Suture Anchors: A Systematic Review. *Arthroscopy*. 2020; 2(3): e263-e275. **13.** Bernardoni E, Frank RM, Veera SS, et al. Biomechanical Analysis of All-Suture Anchor Fixation for Rotator Cuff Repair. *Orthop J Sports Med*. 2018;6(7 suppl4). **14.** Saper MG, Meijer K, Winnier S, Popovich J, Andrews JR, Roth C. Biomechanical Evaluation of Classic Solid and All-Soft Suture Anchors for Medial Patellofemoral Ligament Reconstruction. *The American journal of sports medicine*. 2017;45(7):1622-1626. **15.** Smith+Nephew 2024 Internal Report, 10141818 Rev A. **16.** Smith + Nephew 2013.ULTRATAPE Pressure Film Testing. 15001847. Rev A. **17.** Smith + Nephew 2017.Verification, MINITAPE Suture Manipulation Instrument Compatibility. 15005671. Rev A. **18.** ArthroCare Corporation 2017. Report: Design Validation, Q-FIX Reusable Curved Drill Guides and Disposable Flex Drill, Irvine CA. P/N 92017-01 Rev. A. **19.** Smith + Nephew 2016.Feasability, MINITAPE Knot Stack Evaluation and Knot Security. 15005268. Rev A.