



A Step-by-Step Surgical Technique for Meniscal Root Repair

ROOTFIX™ **All Suture Anchor**

*Bone-Preserving Approach with a
Patented Retrograde Technology*



ABOUT THE MENISCUS ROOT

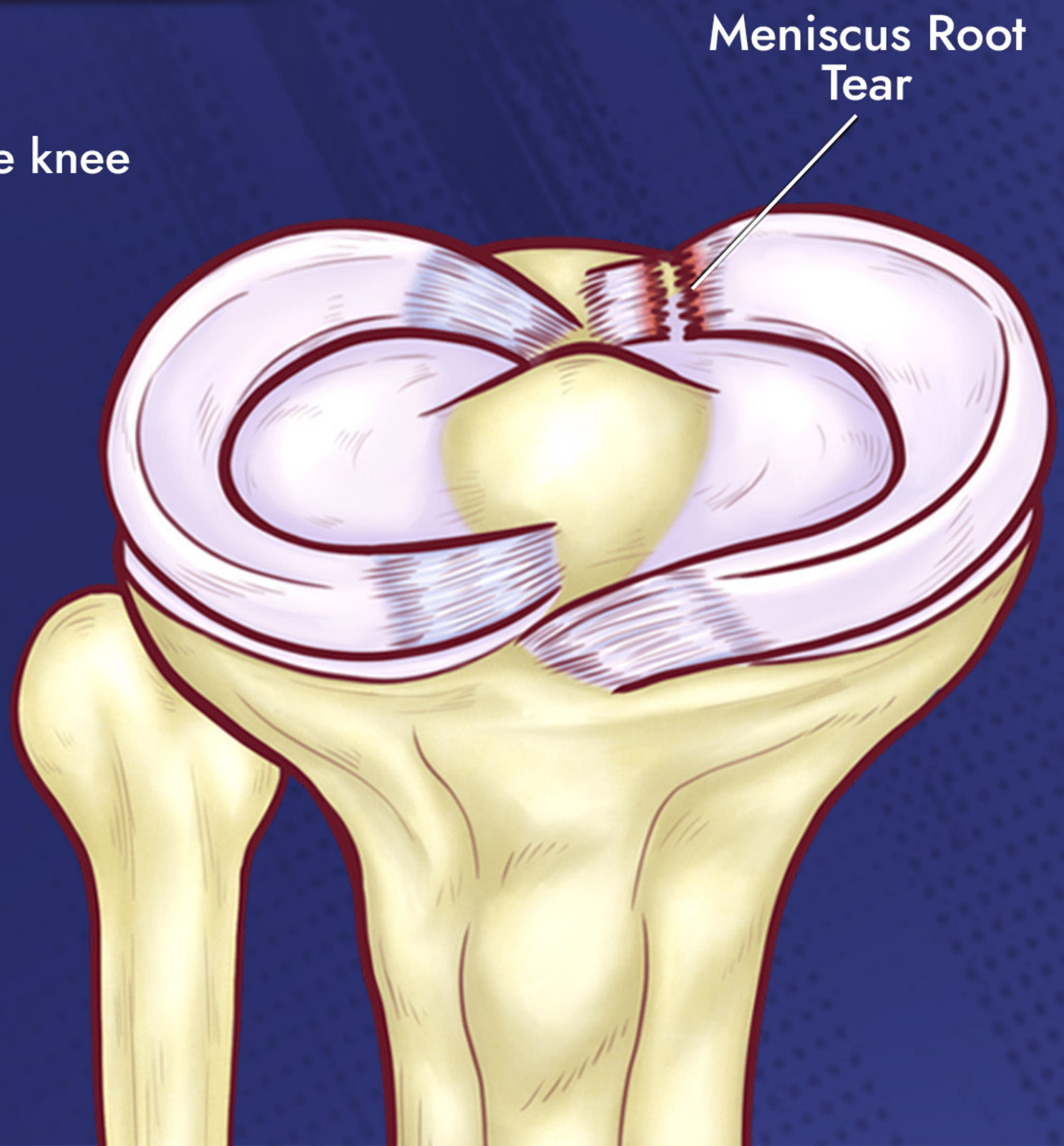
The **Meniscal Root** is the point where the meniscus attaches firmly to the tibia (shin bone). These root attachments anchor the meniscus in place and plays a vital role in maintaining knee stability, distributing joint loads, and preserving normal knee biomechanics.

WHAT IS A MENISCAL ROOT TEAR?

A meniscal root tear is an injury where the meniscus is torn at or near its attachment to the tibia. This disrupts the normal function of the meniscus, allowing it to move outward (meniscal extrusion) and reducing its ability to absorb load.

IF LEFT UNTREATED, A ROOT TEAR CAN LEAD TO:

- › Loss of normal meniscal function
- › Increased contact pressure within the knee
- › Meniscal extrusion
- › Progressive cartilage degeneration
- › Early onset of osteoarthritis

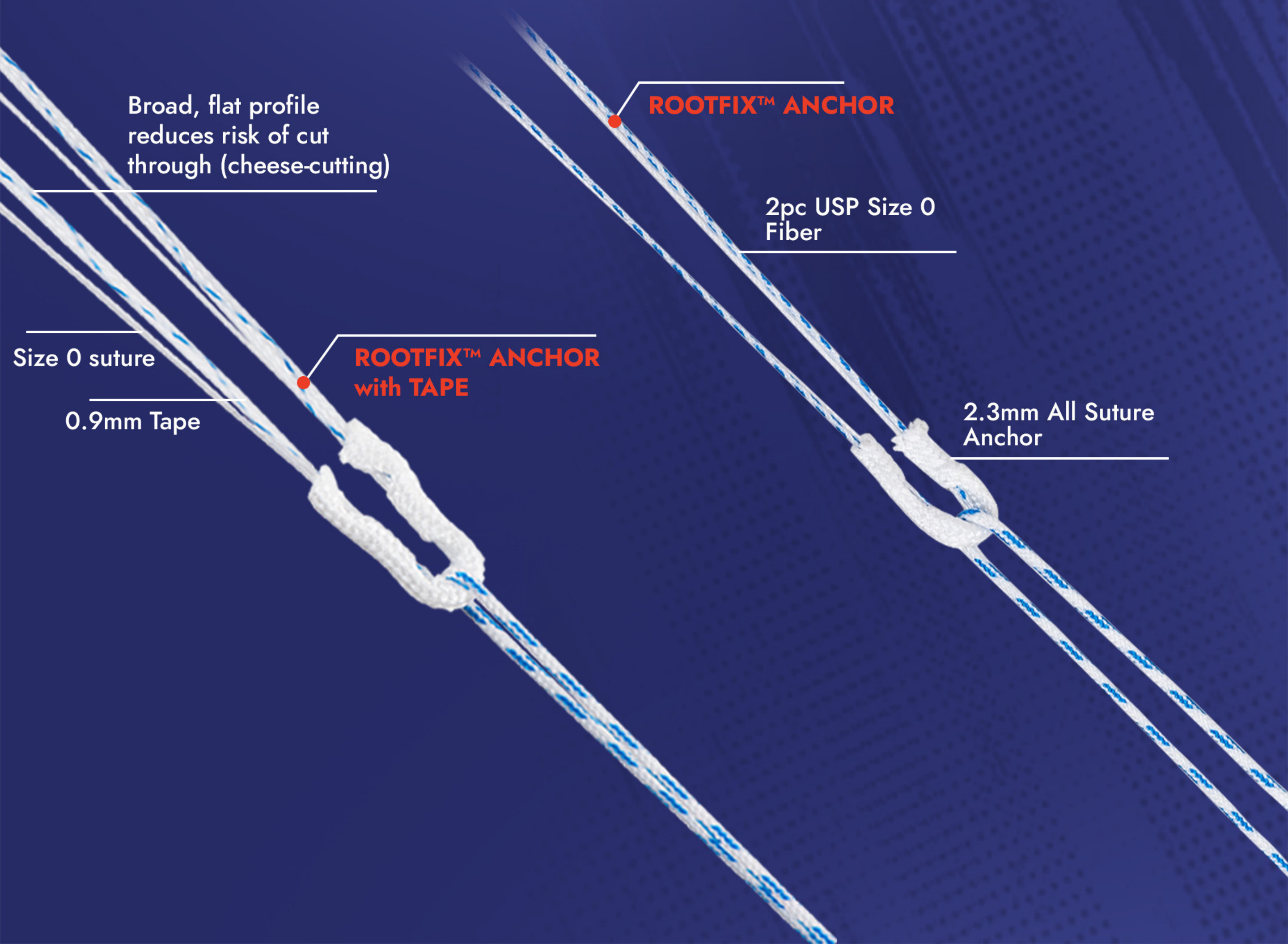




ROOTFIX™ All Suture Anchor

OC RootFix™ is an all-suture anchor featuring patented retrograde technology for secure, anatomical meniscal root fixation.

Also available in a Tape configuration for increased contact area, enhanced tissue grip, and superior compression across the repair site.





ROOTFIX™

All Suture Anchor

Features:

Patented Retrograde Technology - Enables controlled Retrograde Anchor Deployment for secure fixation at the native meniscal root footprint.

Metal-Free All-Suture Anchor — Provides a low-profile fixation solution without metallic implants, reducing implant-related concerns.

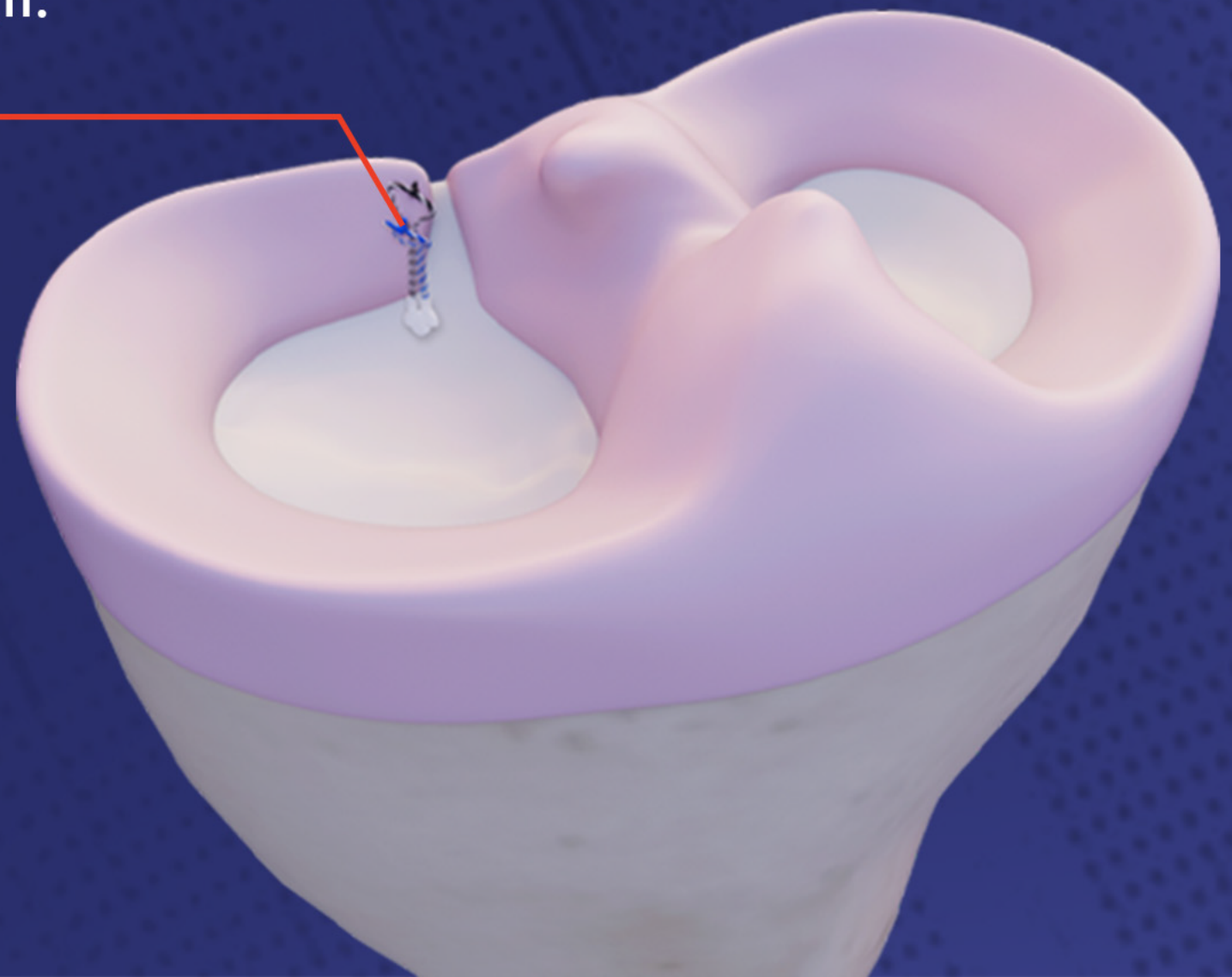
2.3mm Bone-Preserving Tunnel — Minimizes bone loss through a small-diameter tunnel while maintaining stable anchor fixation.

Anatomical Root Footprint Fixation — Supports accurate Reattachment of the meniscal root to its native insertion site.

High-Strength Suture Construction — Engineered with UHMWPE sutures to deliver reliable fixation strength and long-term repair stability.

Tape Variant — Wider tape profile improves load distribution, better tissue compression and reduces tissue cut-through.

Anatomical fixation
at the native meniscal root footprint.



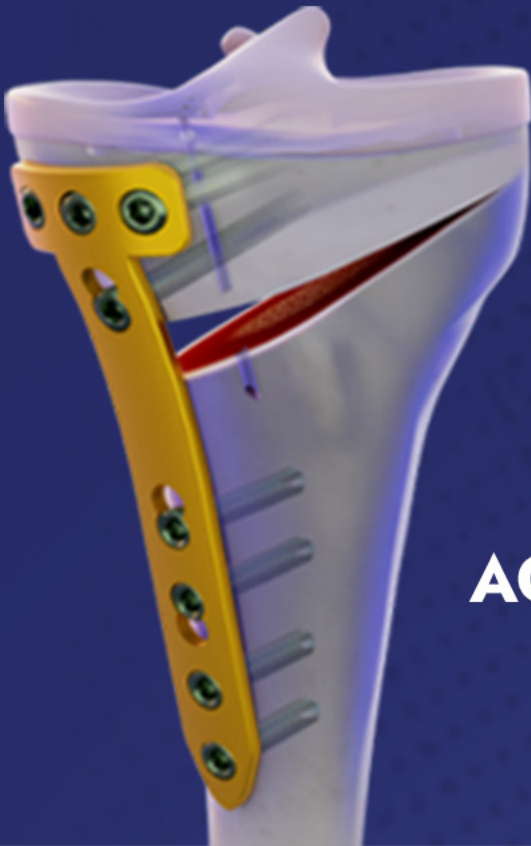


WHY CHOOSE ROOTFIX™?

Comparison of the Patented RootFix™ Retrograde Anchor Technique with the Conventional Transtibial Pull-Out Technique

FEATURE	CONVENTIONAL TRANSTIBIAL TECHNIQUE	ROOTFIX™ ANCHOR
Repair Technique	Transtibial Pull-Out Repair	Patented Retrograde All-Suture Anchor Technique
Bone Tunnel Diameter	≥ 4.0 mm	2.3 mm (Bone-Preserving Tunnel)
Bone Preservation	Greater bone removal	Minimal bone removal
Fixation Location	Cortical fixation on tibia	Fixation adjacent to the native root footprint
Implant Material	Metal/PEEK Button with Sutures	UHMWPE All-Suture Anchor
Meniscal Bungee Effect	May be present	Eliminated
Radiographic Profile	Button may be visible on imaging	100% Radiolucent
ACL Reconstruction with Root Repair	Potential tunnel convergence	Reduced risk of tunnel convergence
HTO with Root Repair	Potential tunnel convergence	Reduced risk of tunnel convergence
Revision Flexibility	Limited by larger tunnel	Preserves bone for future procedures

HTO WITH ROOT



ACL WITH ROOT



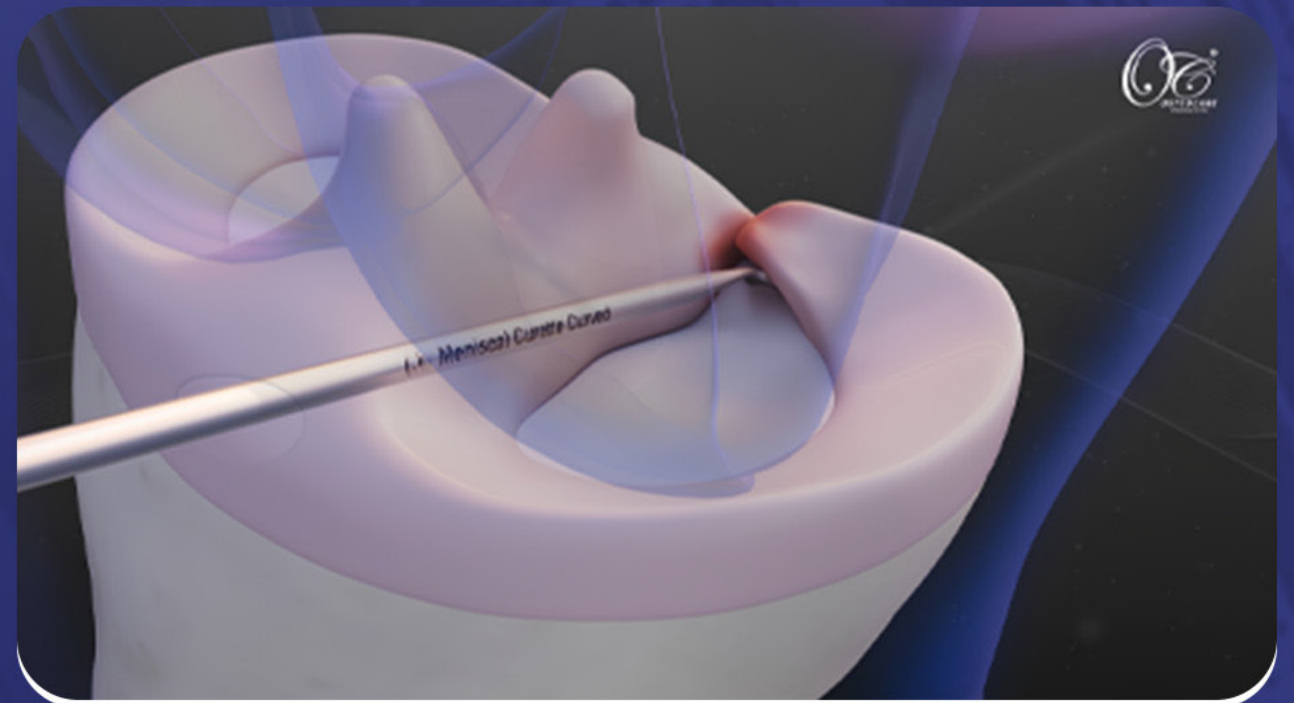
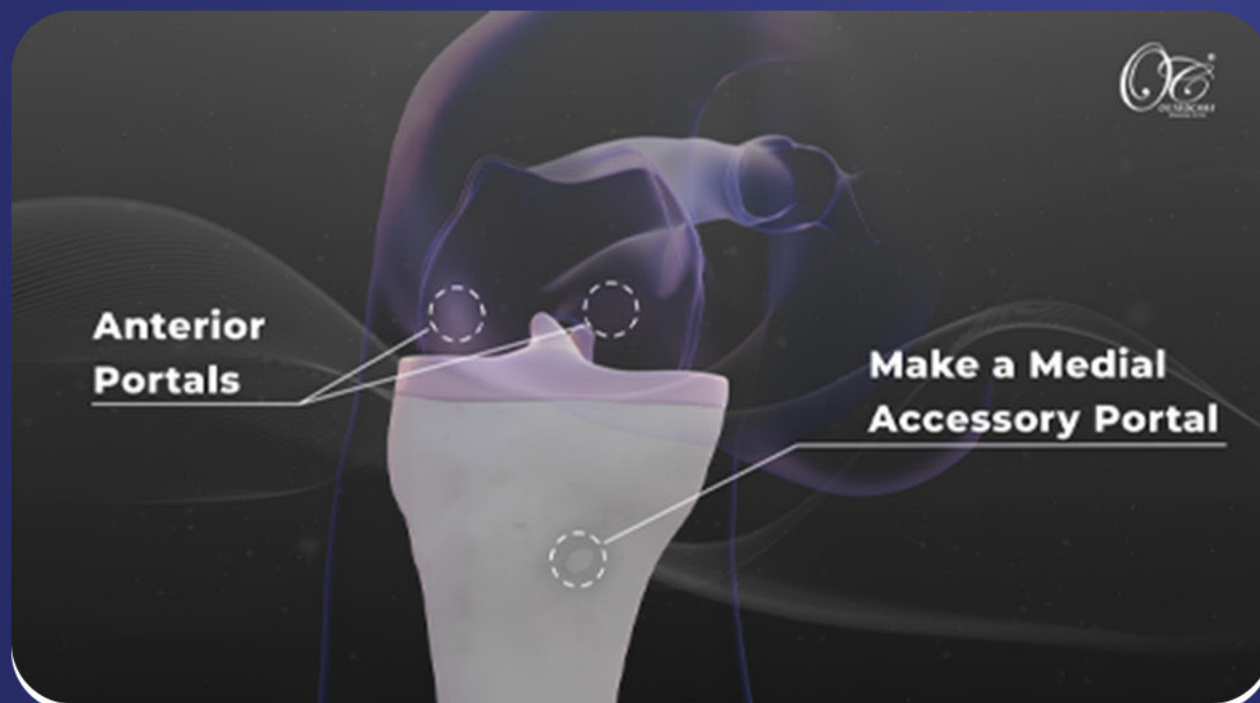
The comparison is intended to highlight the procedural characteristics of the RootFix™ Anchor relative to the conventional transtibial pull-out technique. Clinical outcomes may vary depending on patient factors and surgical technique.

SURGICAL TECHNIQUE

FOR ROOTFIX™ ALL SUTURE ANCHOR

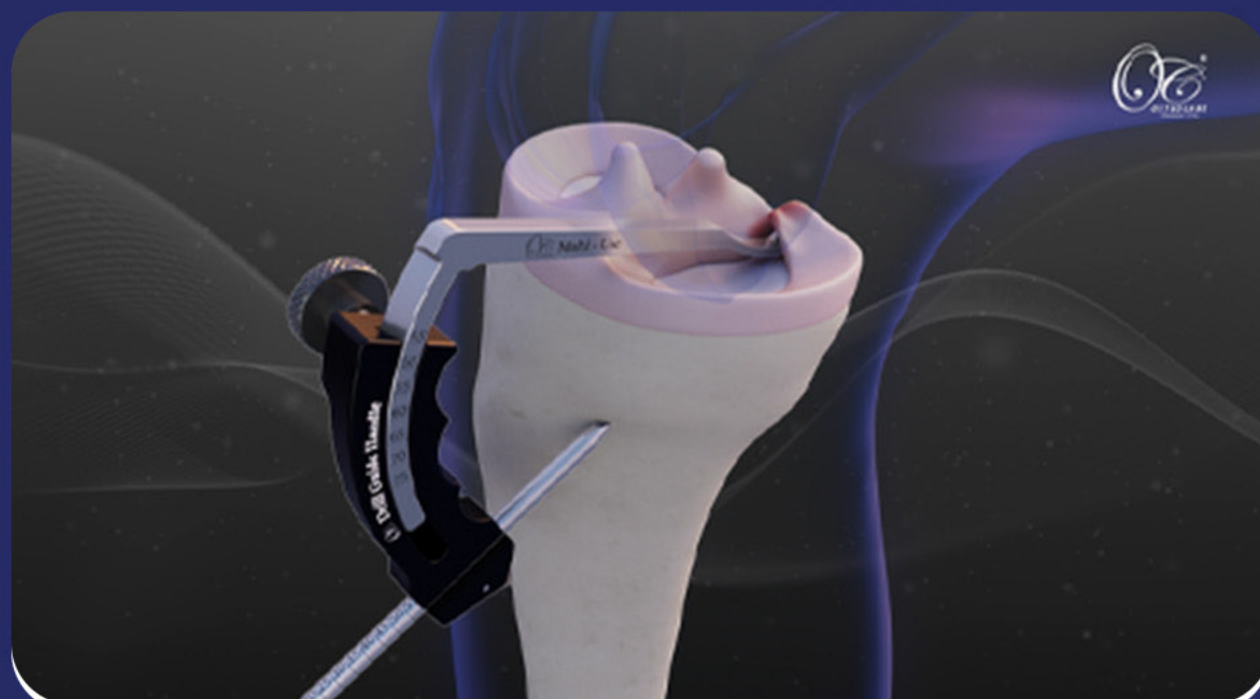
STEP 1: Portal Creation & Debridement:

- Create Standard Anterior portal and Medial Accessory portal.
- Debride the tibial cartilage using a curved meniscus curette exposing the subchondral bone for healing.



STEP 2: Drilling the Tibial Tunnel:

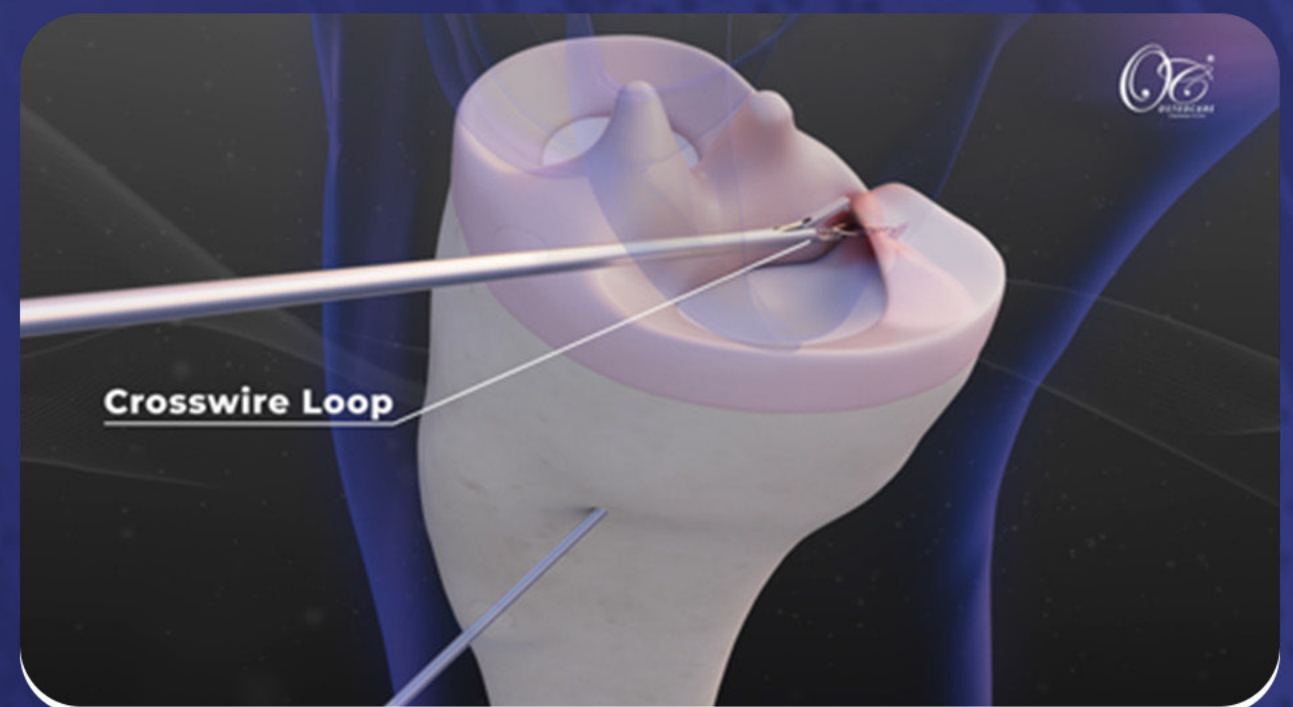
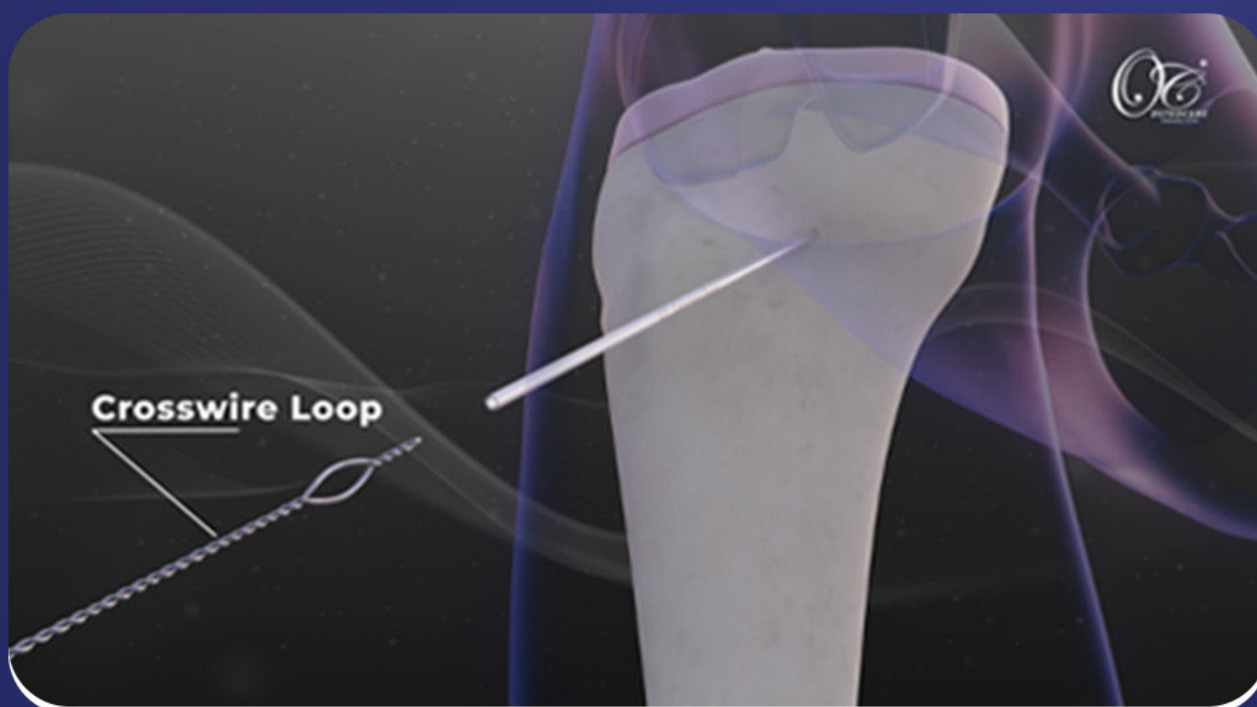
- The Accurate Multi-use drill guide is inserted through the anteromedial portal and a tibial tunnel is drilled using a 2.3mm drill bit.





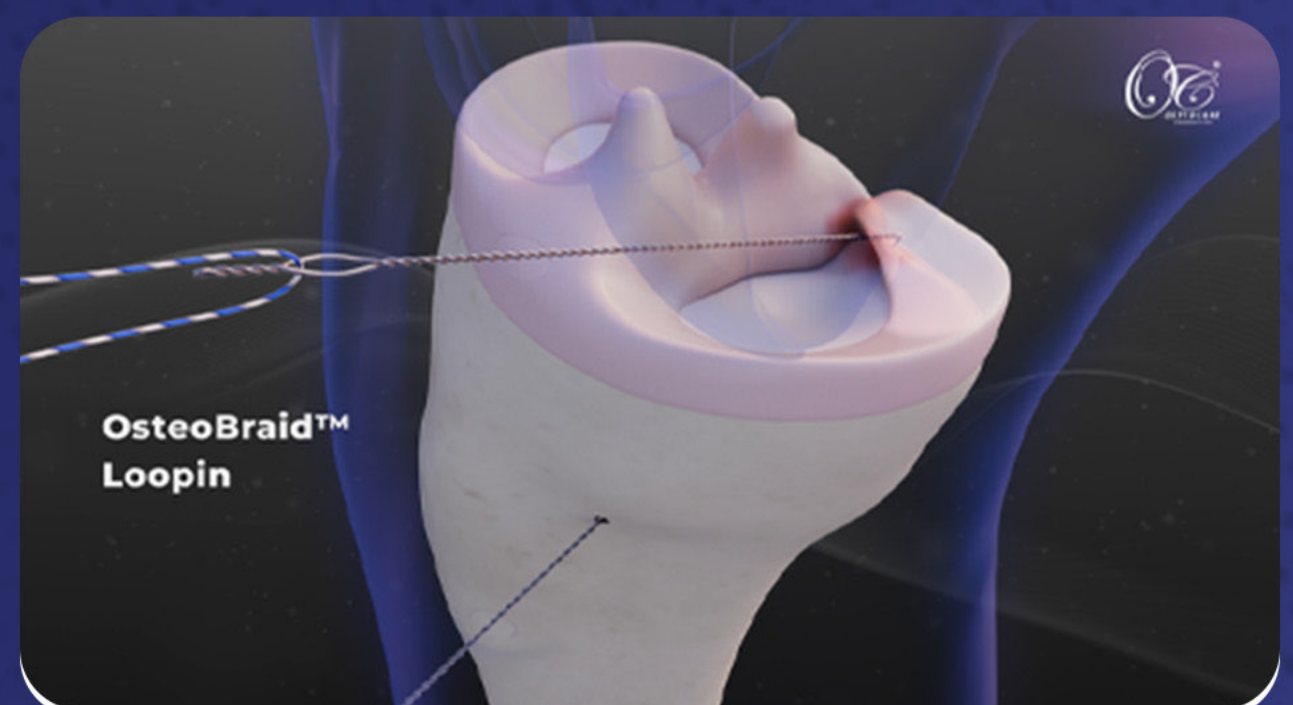
- Remove the drill bit without removing the drill guide and then insert the cannulated sleeve.

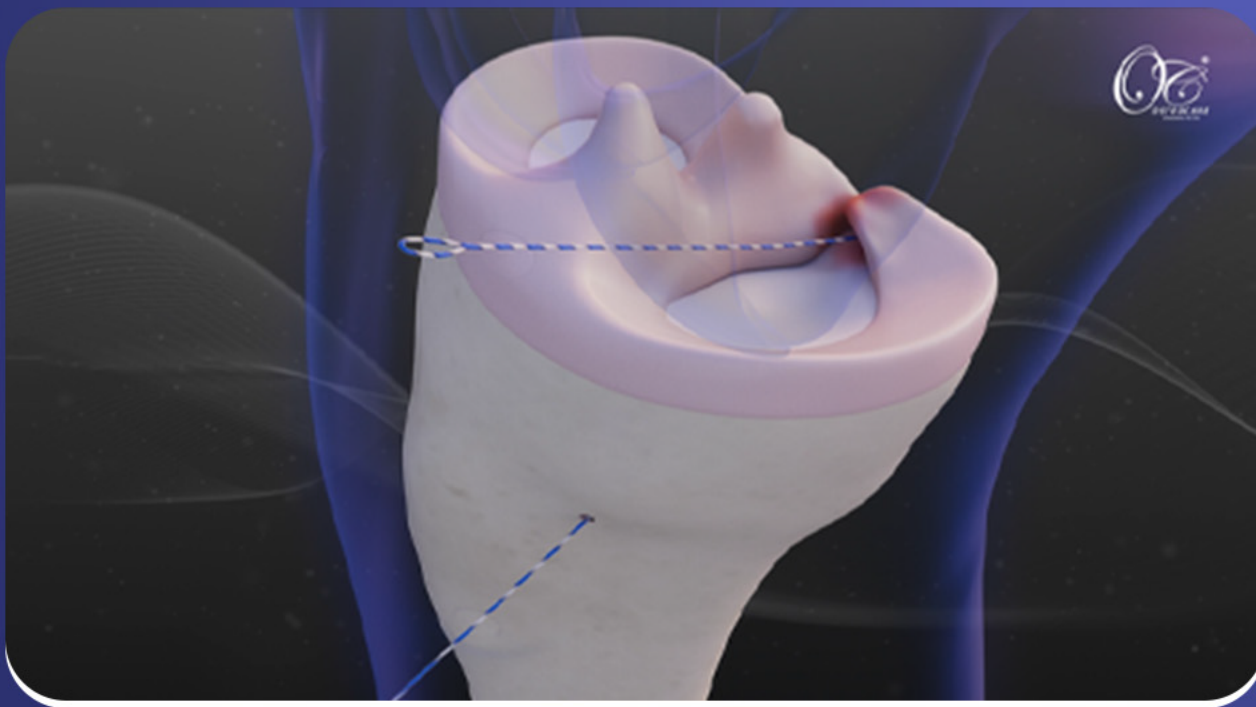
- The crosswire loop is advanced through the cannulated sleeve and retrieved through the anterior portal using suture grasper with manipulator.



STEP 3: Loopin Fiber Passage:

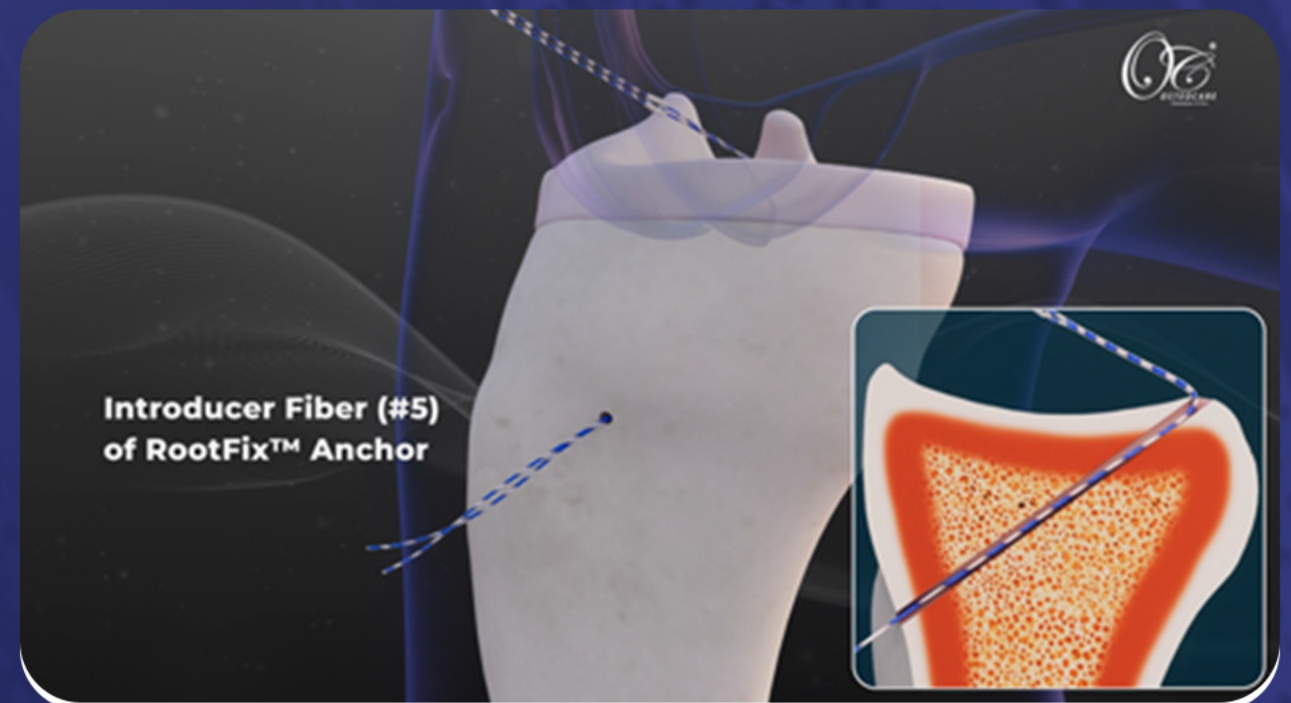
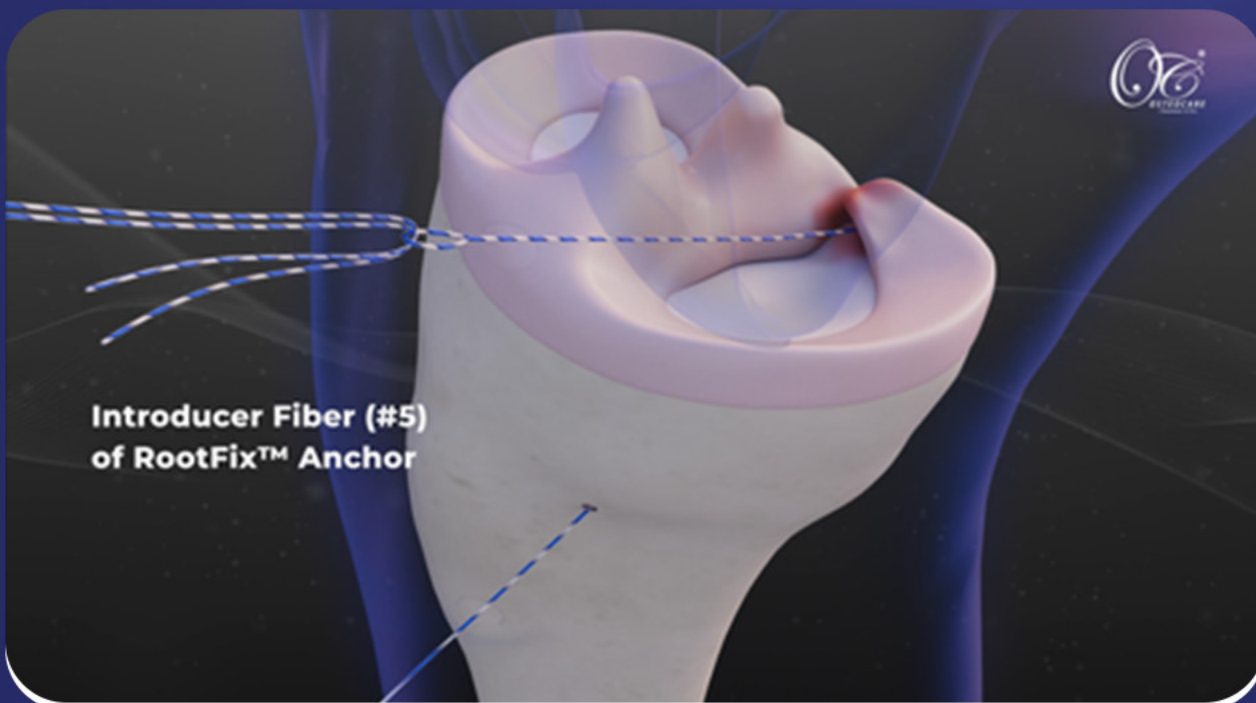
- The OsteoBraid™ Loopin Fiber is then loaded into the loop of the crosswire.





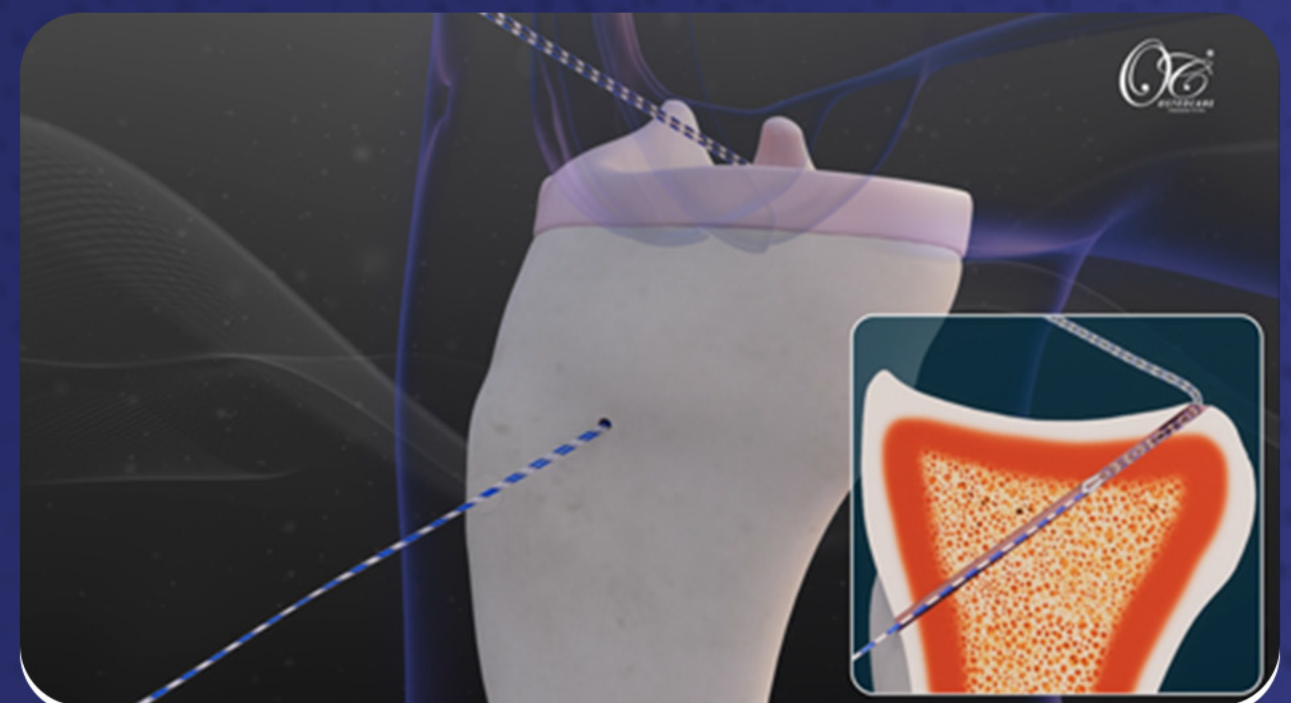
- › The crosswire is then pulled into the tibial tunnel resulting in the continuous passage of the OsteoBraid™ Loopin from the anteromedial portal to the tibial tunnel.

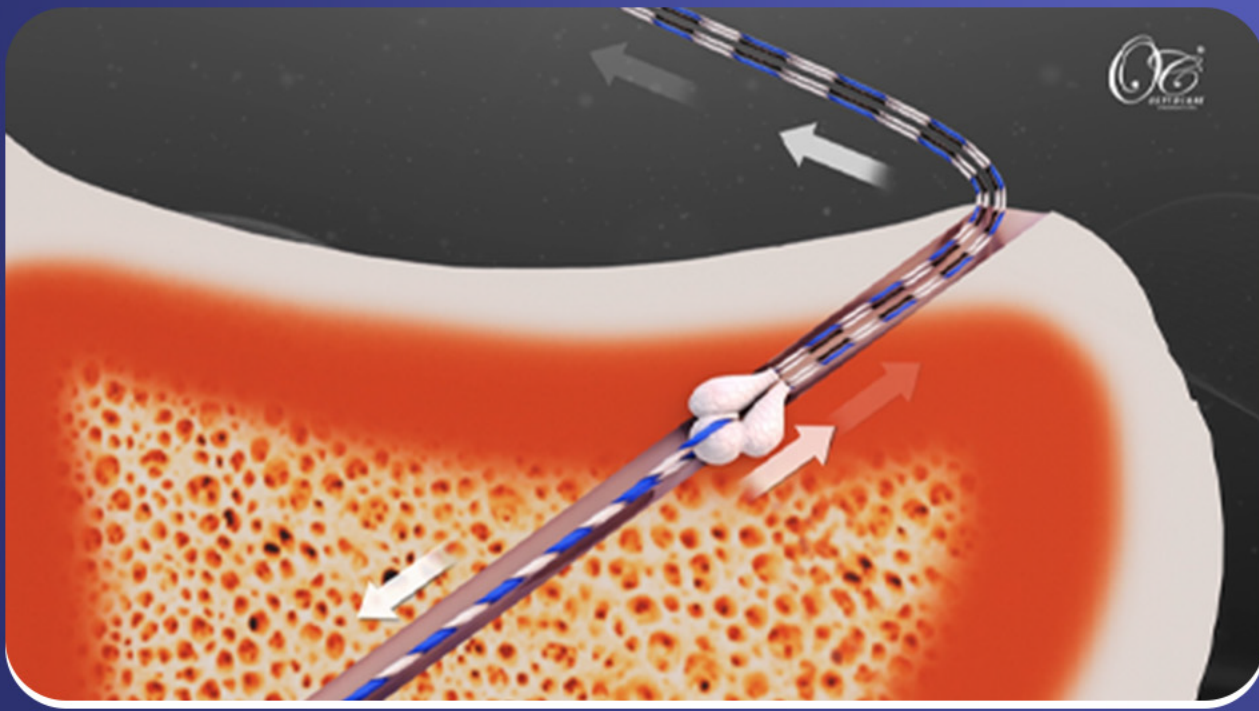
- › The Introducer Fiber (#5) of RootFix™ Anchor is then passed into the loop of OsteoBraid™ Loopin. The Introducer fiber is then retrieved from the accessory medial portal by pulling the OsteoBraid™ Loopin.



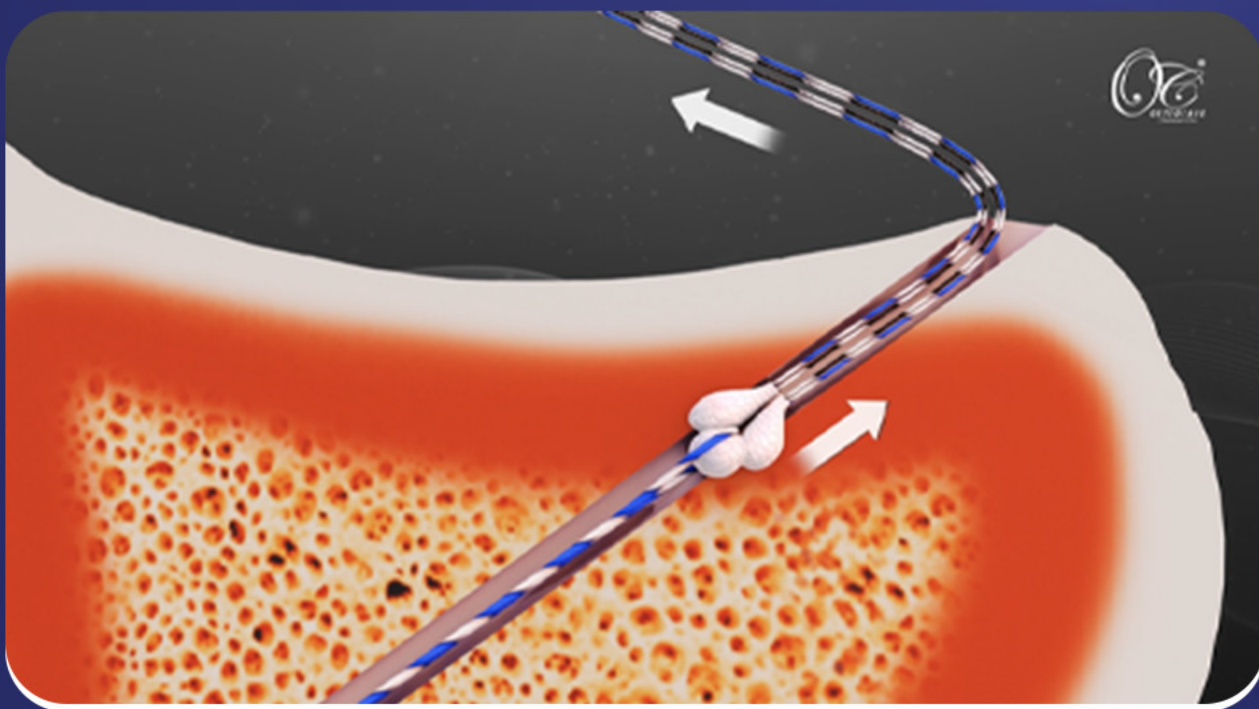
STEP 4: Anchor Placement:

- › Insert the retrogradely with the help of Introducer fiber. The Introducer fiber is carefully pulled to insert the RootFix™ Anchor in the Retrograde manner into the bone tunnel until it reaches approximately 15–20 mm beneath the tibial plateau.





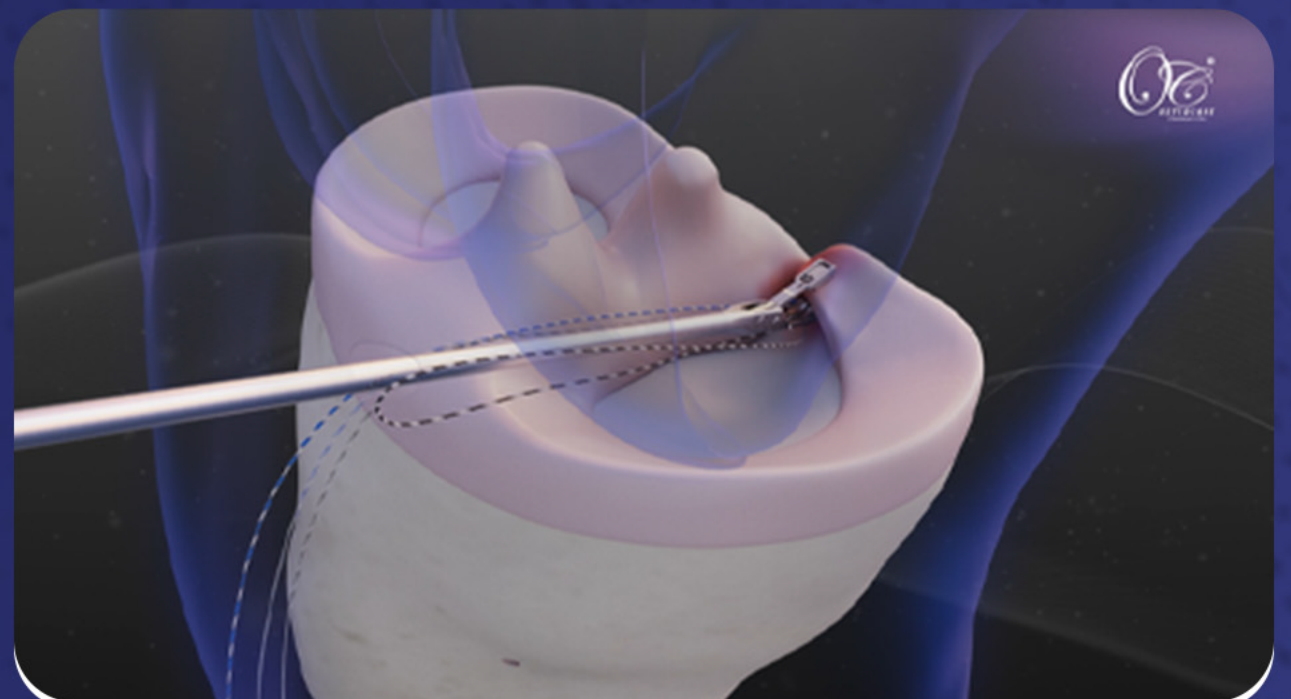
- Once the anchor is in the subchondral bone region, it is deployed by pulling the anchor sutures on the anteromedial portal.



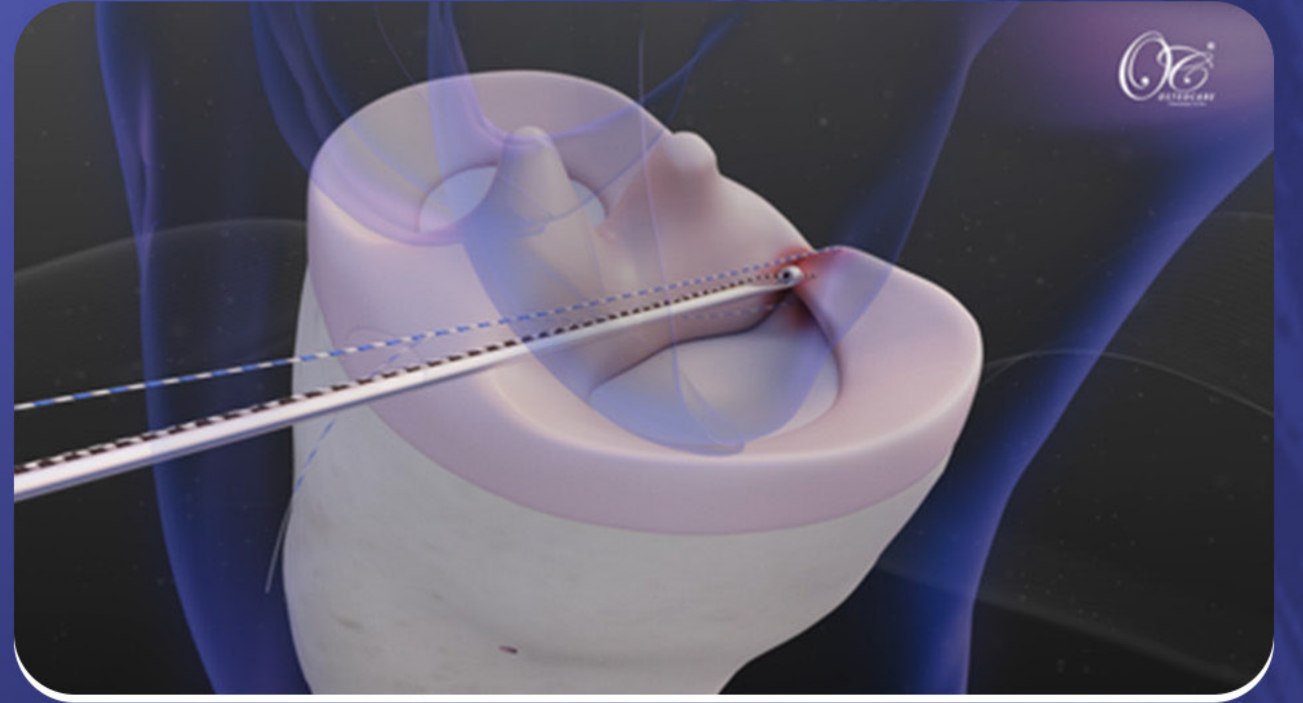
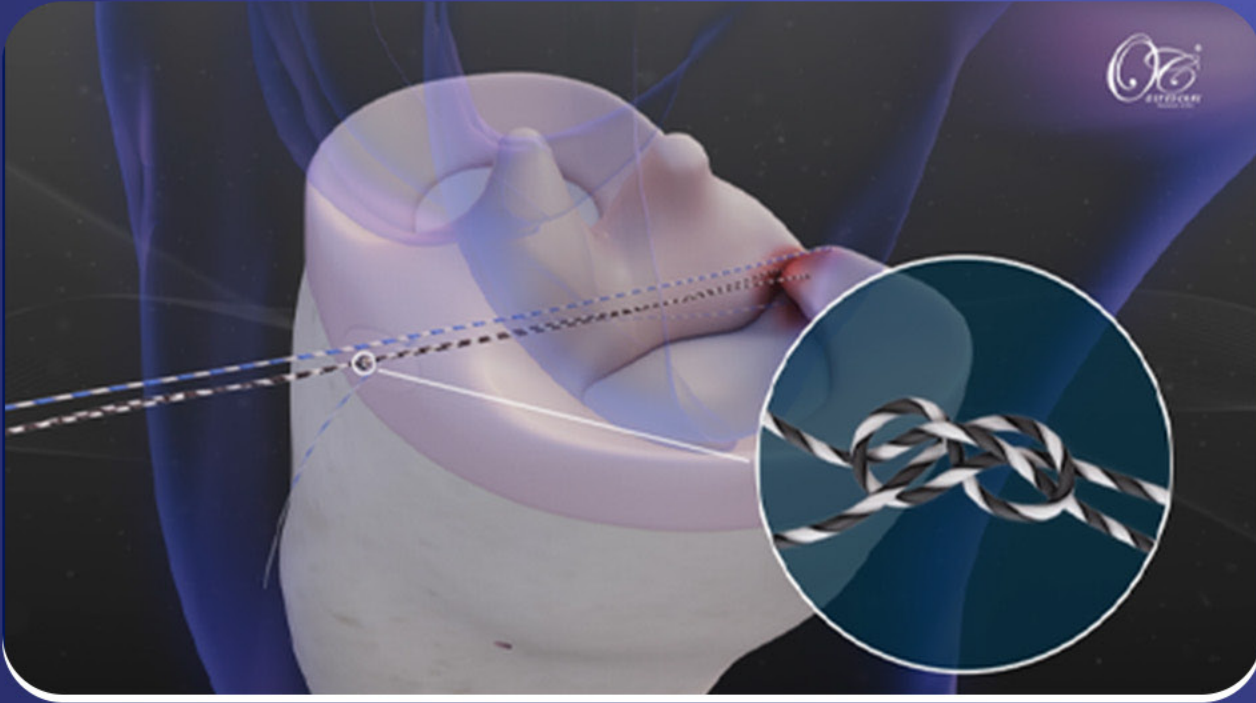
- The Introducer fiber is carefully removed by pulling it while slightly holding the anchor sutures.

STEP 5: Final Fixation:

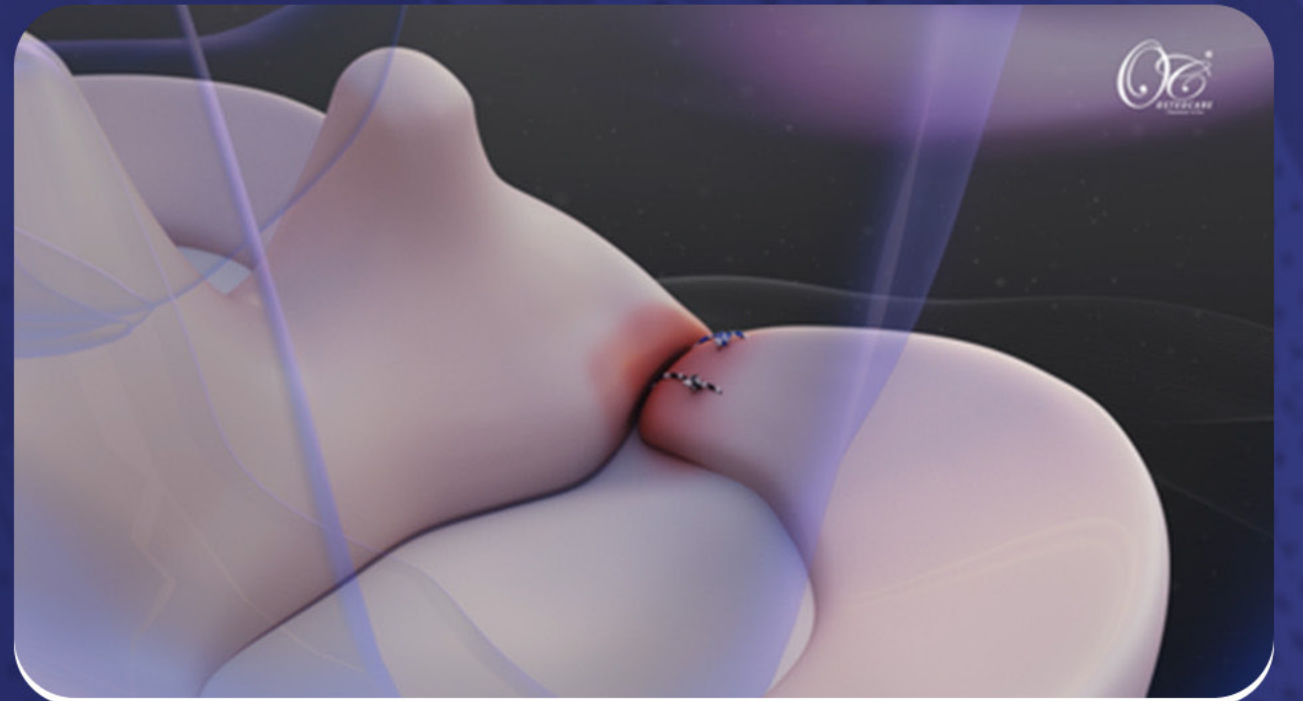
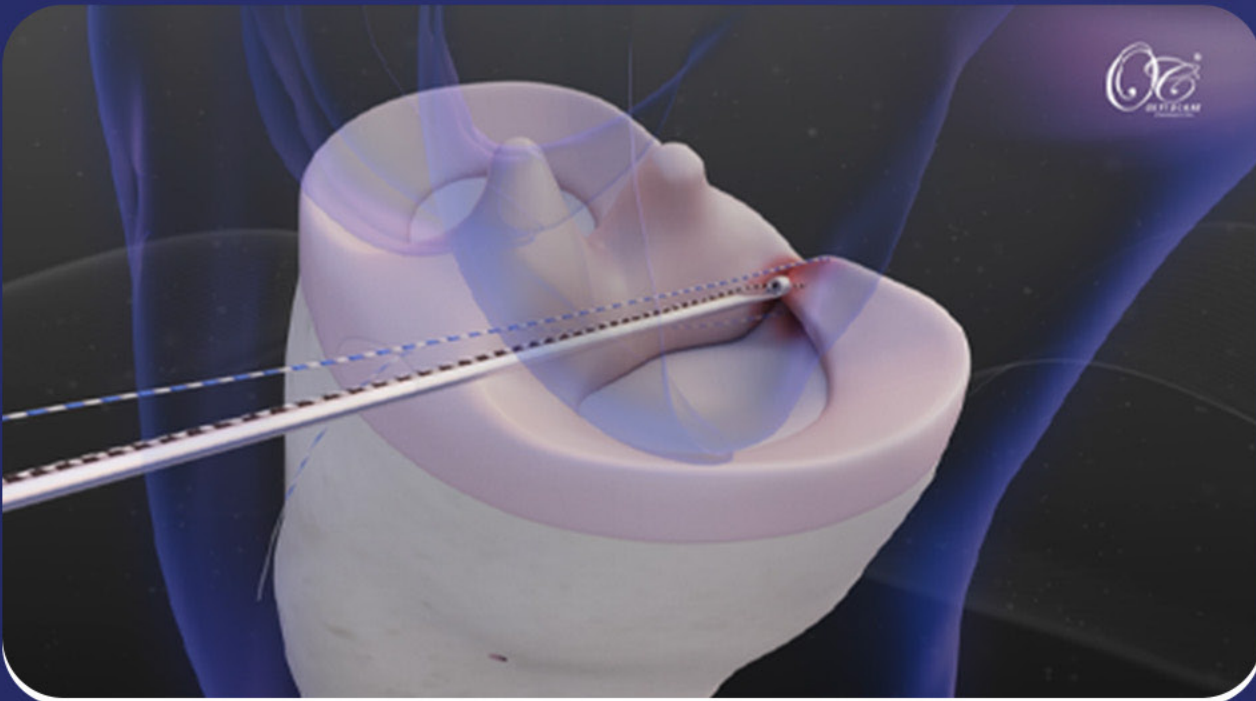
- Using the Knee Automatic Suture Passer, the sutures are passed one by one through the meniscus using the preferred technique.



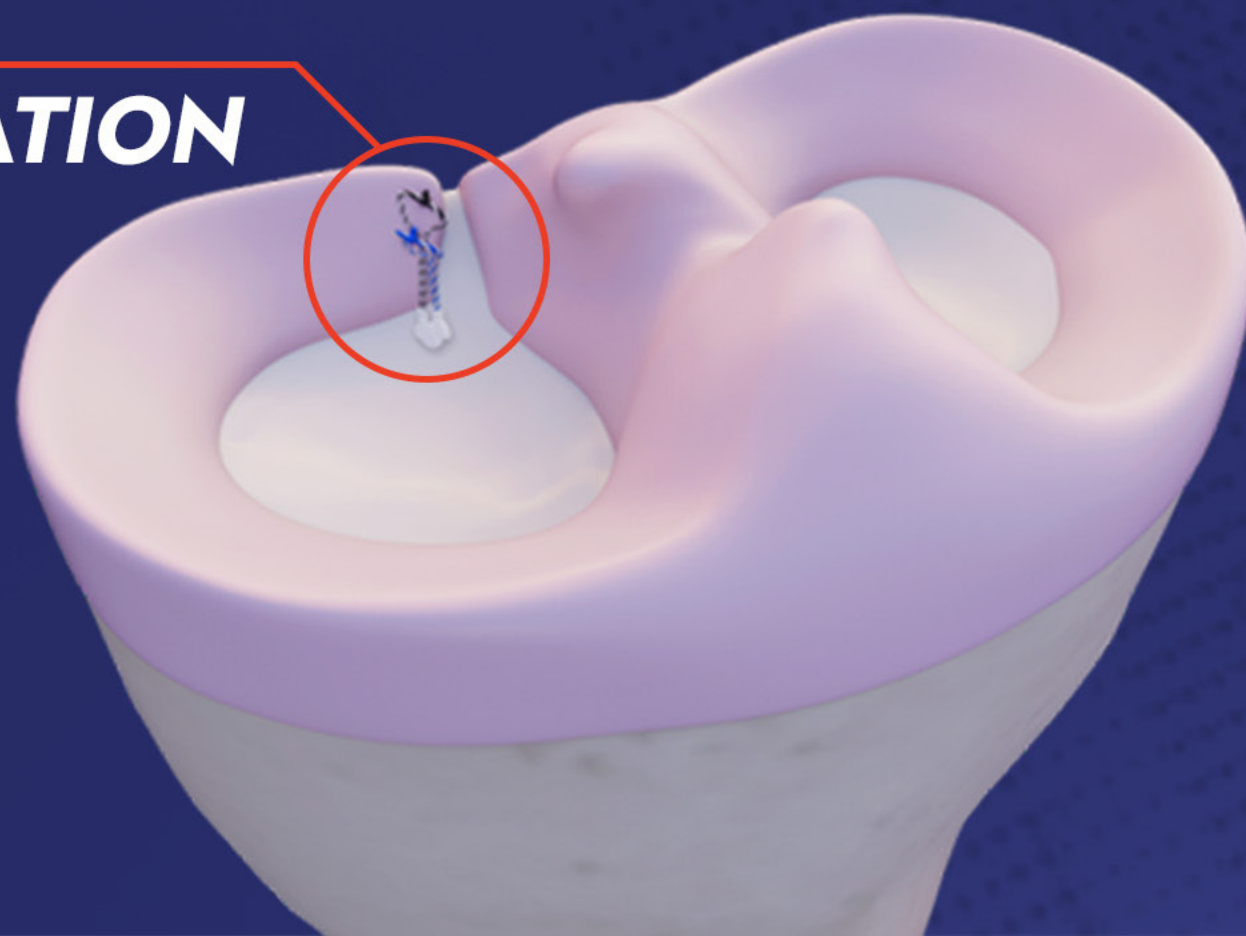
- Once all sutures are passed, sliding knots are tied and pushed over the meniscus using a knot pusher.



- The excess sutures are trimmed off using a suture cutter. It is used to tie the sutures firmly, ensuring the meniscus is reattached to the tibial plateau and the process of Meniscus Root repair is completed.



FINAL FIXATION



RootFix™ Kit

The Kit contains...

1. OC RootFix™ All Suture Anchor, Dia. 2.3 mm
2. OC Crosswire Loop
3. OC Drill Bit, Dia. 2.3 mm
4. OC Cannulated Sleeve
5. OC OsteoBraid™ Loopin



OC Crosswire Loop



OC OsteoBraid™ Loopin

OC Drill Bit, Dia. 2.3 mm

OC Cannulated Sleeve

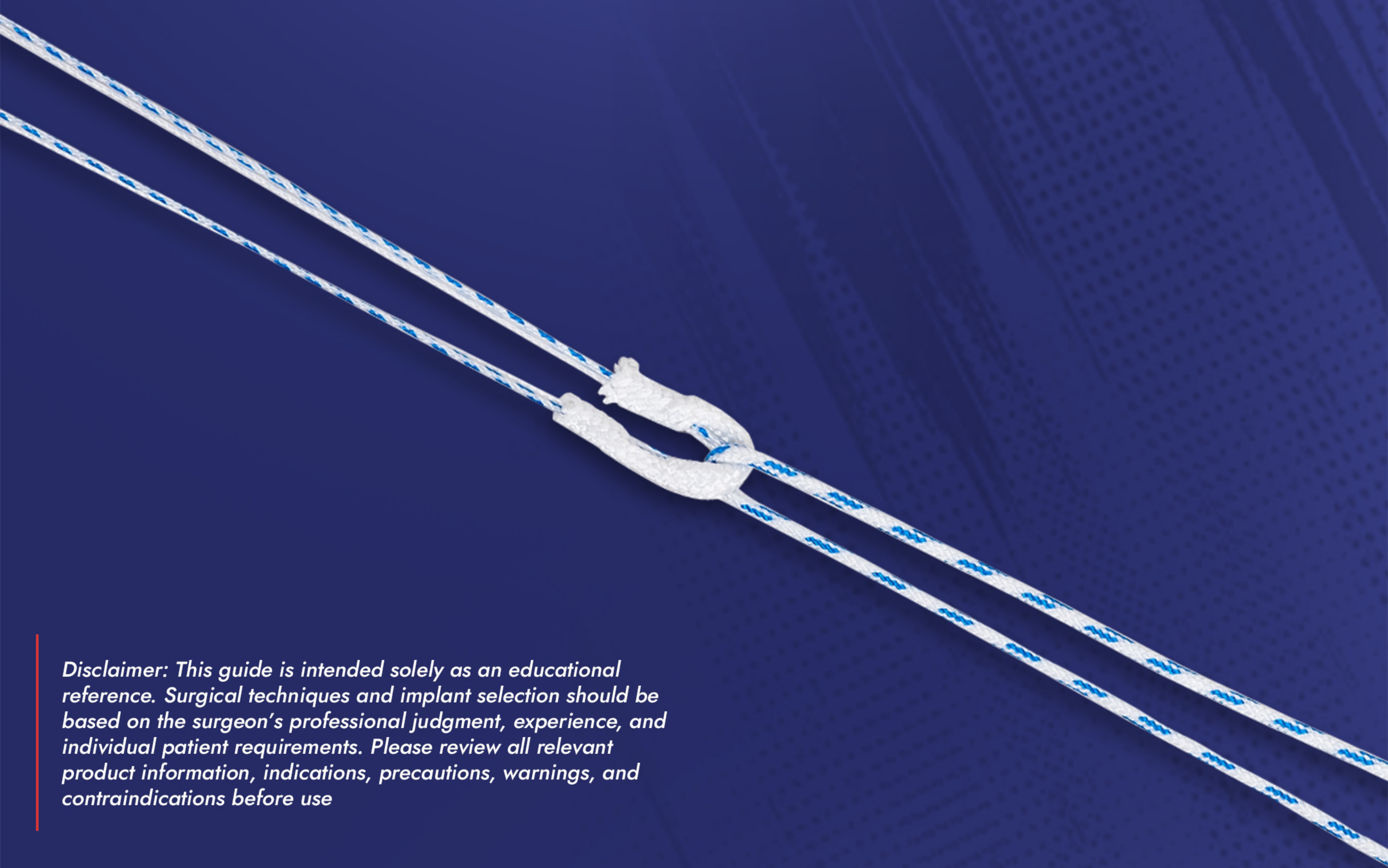
OC RootFix™ All Suture Anchor, Dia. 2.3 mm





Ordering Info

CATALOG NO	PRODUCT DESCRIPTION
OC4592	OC RootFix™ All Suture Anchor Kit with 2 pc USP Size 0 Fiber, Dia. 2.3mm
OC4595	OC RootFix™ All Suture Anchor Kit with 1 pc Tape and 1 pc USP Size 0 Fiber



Disclaimer: This guide is intended solely as an educational reference. Surgical techniques and implant selection should be based on the surgeon's professional judgment, experience, and individual patient requirements. Please review all relevant product information, indications, precautions, warnings, and contraindications before use