



TENDON CLINICAL SNAPSHOT: KEY FINDINGS FROM RECENT LITERATURE

Autograft Versus Allograft in Pediatric Medial Patellofemoral Ligament Reconstruction: A Systematic Review

J Pediatr Orthop. 2026 Apr

Perez-Espina SM, Zirbes CF, Henriquez A, Amanah A, Luo EJ, Lau BC

- This systematic review compared outcomes of Medial Patellofemoral Ligament (MPFL) reconstruction using allograft versus autograft in the pediatric population.
- A total of 849 knees were included, with patient-reported outcomes and clinical results comparable between the allograft and autograft groups.

JRF ORTHO TAKEAWAY:

As evidence continues to demonstrate comparable outcomes between allograft and autograft for MPFL reconstruction, JRF Ortho provides surgeons with a broad range of tendon allograft options including pre-sutured, sterile, and aseptic allografts to accommodate their preferred surgical technique.

Dose-Temperature Interactions in Gamma-Irradiated Tendon Allografts: A Multidimensional Analysis

J Biomater Appl. 2026 Feb

Wan Y, Liu D, Wang X, Wang L, Zhang J, Hu Y

- This study evaluated how irradiation dose and temperature interact to affect the biomechanical properties of tendon allografts.
- Tendon allografts irradiated at -70°C demonstrated superior structural integrity, as evidenced by biomechanical and histological testing, compared with allografts irradiated at 0°C or room temperature.
- Additionally, low-dose irradiation (15 kGy) better preserved allografts properties than higher-dose irradiation (25 kGy).

JRF ORTHO TAKEAWAY:

JRF Ortho sterile tendons are processed using ultra-low-dose irradiation (<15 kGy) at cryoprotective temperatures to help preserve the biomechanical and histological properties of the allograft, providing surgeons with a safe and trusted option for all their allograft needs.

Comparative Outcomes of Circumferential vs Segmental Labral Reconstruction in Hip Arthroscopy: A Systematic Review and Meta-analysis

Am J Sports Med. 2026 Jun

Kurapatti M, Yuro M, Tao BS, Ramey MD, Swaminathan S, Chahla J, Parisien RL

- This systematic review and meta-analysis compared clinical outcomes following segmental versus circumferential labral reconstruction.
- A total of 1,817 hips were included, comprising 1,086 segmental and 731 circumferential labral reconstructions.
- Both techniques resulted in significant improvements in patient-reported outcomes, with no significant differences in complication rates or revision surgery between the two approaches.

JRF ORTHO TAKEAWAY:

With evidence demonstrating comparable outcomes between segmental and circumferential labral reconstruction, JRF Ortho provides a comprehensive selection of tendon allografts in differing lengths and diameters to support a wide range of surgical techniques and patient-specific needs.

Open Capsular Shift With Achilles Allograft Augmentation for Multidirectional Shoulder Instability: Long-Term Outcomes and Implications for Patients With Ehlers-Danlos Syndrome

J Shoulder Elbow Surg. 2026 Jun

Trinh PMP, Albarian SB, Simonian L, Nathan K, Eliasberg CD, Rodeo SA

- This case series demonstrated the use of an Achilles allograft in a hard-to-treat shoulder instability population.
- Open capsular shift with Achilles tendon allograft augmentation resulted in favorable patient-reported outcomes, improved shoulder stability, and low complication rates in this challenging patient population.

JRF ORTHO TAKEAWAY:

This study provides long-term clinical evidence supporting Achilles tendon allograft augmentation as an effective option during open capsular shift for complex shoulder instability, particularly in patients with poor native tissue quality such as those with Ehlers-Danlos syndrome. JRF Ortho offers a variety of Achilles tendon allografts that support these challenging reconstructive procedures and demonstrate the versatility of tendon allografts in complex shoulder stabilization.