



TENDON CLINICAL SNAPSHOT: KEY FINDINGS FROM RECENT LITERATURE

Comparison of Load-to-Failure in Pre-shaped Versus Surgeon-Shaped Achilles Tendon Allograft Bone Blocks

J Orthop. 2025 May

Edge C, Ernst B, Sharma A, Savsani K, Satalich J, O'Neill C, Owen J, Goodloe JB

- This study compared the load-to-failure properties of pre-shaped Achilles tendon–bone allografts versus surgeon-prepared Achilles tendon–bone allografts.
- After preloading and cyclic loading, both allograft types demonstrated similar failure modes and no significant differences in load to failure.

JRF ORTHO TAKEAWAY:

Pre-shaped Achilles allografts performed comparably to surgeon-prepared allografts. Given equivalent biomechanical performance and potential operating room time savings, pre-shaped allografts are a practical option for surgeons.

Chronic Achilles Tendon Tear: Open Augmentation With Allograft vs. Endoscopic Augmentation With Autograft. A Comparative Study

Foot Ankle Surg. 2025 Dec

Martinelli N, Bianchi A, Giannola R, Guelfi M, Batista JP, Sansone V

- This study compared Achilles tendon repair with tendon allograft augmentation versus autograft augmentation in the treatment of chronic Achilles tendon ruptures.
- At 24 months, both groups demonstrated comparable clinical outcomes with no reruptures.

JRF ORTHO TAKEAWAY:

Tendon allograft augmentation for chronic Achilles tendon reconstruction provides predictable functional improvement with a low risk of failure or complications. This technique represents a dependable option in the treatment of complex chronic Achilles cases.

Arthroscopic Reconstruction of the Anterior Talofibular Ligament and Calcaneofibular Ligament Using Allograft for Chronic Lateral Ankle Instability Allows Patients to Successfully Return to Their Preinjury Sports Activities With Excellent Clinical Outcome at Minimum 2-Year Follow-Up,

Vilá-Rico J, Mortada-Mahmoud A, Fernández-Rojas E, Jiménez-Blázquez JL, Campillo-Recio D

Arthroscopy. 2025 Sep

- This retrospective case series looked at arthroscopic reconstruction of the anterior talofibular ligament and calcaneofibular ligament using a tendon allograft for chronic lateral ankle instability.
- At a mean follow-up of 29.6 months, 93% of patients returned to normal activity, with no difference in outcomes between patients with and without intra-articular pathology.

JRF ORTHO TAKEAWAY:

While primary repair of lateral ankle ligaments is often a successful procedure, anatomic ligament reconstruction of the ATFL and CFL using allograft tendon results in predictable improvements in function, pain, and ankle stability with low complication rate.

Acromioclavicular Joint Injuries: Multicenter Expert Consensus Study Using the Delphi Method

J Shoulder Elbow Surg. 2025 Aug

Barnes LA, Shi LL, Walters T, Abrams GD; ASES AC Joint Study Group.

- This consensus statement gathered expert opinion from 18 fellowship-trained surgeons from the American Shoulder and Elbow Surgeons on management of acromioclavicular (AC) joint injuries.
- The group reached consensus that surgical treatment of subacute and chronic AC joint instability should include tendon augmentation and agreed that allograft tissue is acceptable in all cases when augmentation is used.

JRF ORTHO TAKEAWAY:

Expert consensus supports the use of tendon allografts in the surgical management of AC joint instability. JRF offers a broad selection of pre-sutured and non-sutured tendon allografts to meet varying surgeon preferences and procedural needs.