

AAOS Strong Recommendation for Bioinductive Implants in Rotator Cuff Repair

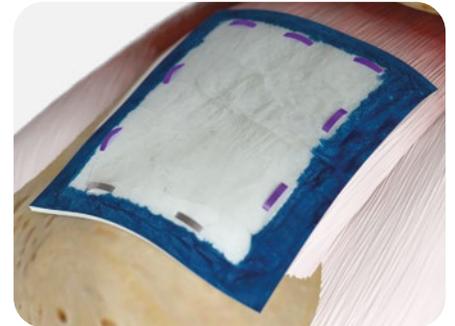
In August 2025, AAOS released an updated Clinical Practice Guideline (CPG) for rotator cuff injuries, offering evidence-based recommendations for orthopedics.¹

For the first time, the guidelines reviewed bioinductive implants and issued a strong recommendation for their use.

[Bioinductive Implants summary](#) (★★★★ out of 4)

“The use of bioinductive tendon implants to augment rotator cuff repair or as an alternative to non-augmented repair can lead to lower re-tear rates and better patient-reported outcomes.”¹

This recommendation is based on studies of bioinductive implants; focused on two recent REGENETEN^o Bioinductive Implant randomized controlled trials:



1

[Ruiz Iban MA et al. Arthroscopy. 2024;6:1760-1773²](#)

Repair + REGENETEN Implant vs repair alone (1–4 cm full-thickness tears; n=124)

At 1-year, REGENETEN Implant patients had (vs control):

- Significantly lower re-tear rate (8.3 vs 25.8%; p=0.01)
- Significantly better tendon integrity (p=0.03)
- No increase in complications

2

[Camacho Chacon JA, et al. J Shoulder Elbow Surg. 2024;0:0-9.³](#)

REGENETEN Implant alone vs repair alone (full-thickness tears with intact rotator cable; n=60)

REGENETEN patients had (vs control):

- Significantly better shoulder pain & function at 1 year (p<0.0001)
- Significantly faster return to work at 2 years (p<0.0001)
- No re-tears at 2 years

These two randomized controlled trials build upon >10 years of REGENETEN Implant clinical use in more than 150,000 patients⁴, with many publications supporting its use.⁵

A separate evaluation of dermal allograft augmentation evidence provided a ★★★ (out of 4) “moderate recommendation”.¹

What's next?

This AAOS recommendation reflects over a decade of research by the orthopaedic community and will help support evidence-based adoption of bioinductive implants to help improve outcomes in rotator cuff repair.

References
 1. AAOS Rotator Cuff Injuries. Available at: <https://www.aaos.org/globalassets/quality-and-practice-resources/rotator-cuff/rotator-cuff-2025/rotator-cuff-cpg.pdf> [Accessed August 2025]. 2. Ruiz Iban MA, et al. *Arthroscopy*. 2024;6:1760-1773. 3. Camacho Chacon JA, et al. *J Shoulder Elbow Surg*. 2024;33:1894-1904. 4. Internal Data. 5. Hurley ET, et al. *Arthroscopy*. 2025;41(2):333-342.

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