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Improved tendon thickness and integrity was sustained five years after treatment with the REGENETEN^o Bioinductive Implant

+ Plus points

Comparison of 5-year findings with 2-year follow-up:



Overview

- Five-year follow-up of a prospective, single-arm study evaluating REGENETEN Bioinductive Implant in lieu of repair in patients with partial-thickness rotator cuff tears
- 11/13 enrolled patients (mean age, 54.0 years) were available for assessment
- Outcomes were assessed 5 years postoperatively and were compared to findings at 2 years (previously reported):
- MRI assessment of tendon integrity and thickness
- Patient-reported outcomes (American Shoulder and Elbow Surgeons [ASES] shoulder scale and Constant-Murley shoulder score)

Results

- 8/11 patients (73%) had no decline in tendon integrity between 2 and 5 years (Figure)
- Tendon thickness significantly decreased between 2 and 5 years (5.9 vs 5.2mm; p=0.0012), but remained significantly greater than preoperative values (4.2mm; p<0.0001; Figure)
- Significant improvements from baseline in pain and function were sustained to 5 years (p≤0.01) and were not significantly different to 2-year values
- No additional complications between 2 and 5 years

11 patients available for 5-year follow-up

No decline in tendon integrity

n=2 New low grade tears at original site

n=1 New low grade tear distinct from original site

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Figure. Change in tendon integrity (MRI) between 2- and 5-year follow-up

Conclusions

REGENETEN Bioinductive Implant demonstrated sustained effectiveness in improving tendon thickness and integrity, with no reduction in patient-reported outcomes between 2 and 5 years.

Citation

*Bokor DJ, Sonnabend DH, Deady L, et al. Healing of partial-thickness rotator cuff tears following arthroscopic augmentation with a highly-porous collagen implant: a 5-year clinical and MRI follow-up. *MLTJ*. 2019;9(3):338-347. Available at: <u>Muscles, Ligaments and Tendons Journal</u>

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