

- evaluation and treatment of bicipital groove and biceps tendon pathology. *Arthroscopy* 2008;24:1-6.
4. Saithna A, Longo A, Leiter J, MacDonald P, Old J. Biceps tenoscopy: Arthroscopic evaluation of the extra-articular portion of the long head of the biceps tendon. *Arthrosc Tech* 2016;5:1461-1465.
 5. Taylor SA, Khair MM, Gulotta LV, et al. Diagnostic glenohumeral arthroscopy fails to fully evaluate the biceps-labral complex. *Arthroscopy* 2015;31:215-224.
 6. Moon SC, Cho NS, Rhee YG. Analysis of "hidden lesions" of the extra-articular biceps after subpectoral biceps tenodesis: The subpectoral portion as the optimal tenodesis site. *Am J Sports Med* 2015;43:63-68.
 7. Gilmer BB, DeMers AM, Guerrero D, Reid JB, Lubowitz JH, Guttman D. Arthroscopic versus open comparison of long head of biceps tendon visualization and pathology in patients requiring tenodesis. *Arthroscopy* 2015;31:29-34.
 8. Festa A, Allert J, Issa K, Tasto JP, Myer JJ. Visualization of the extra-articular portion of the long head of the biceps tendon during intra-articular shoulder arthroscopy. *Arthroscopy* 2014;30:1413-1417.
 9. Sheehan AJ, Hartzler RU, Denard PJ, Ladermann A, Hanypsiak BT, Burkhart SS. A 70° arthroscope significantly improves visualization of the bicipital groove in the lateral decubitus position. *Arthroscopy* 2016;32:1745-1749.
 10. Taylor SA, Newman A, Dawson C, et al. The "3-pack" examination is critical for comprehensive evaluation of the biceps-labrum complex and the bicipital tunnel: A prospective study. *Arthroscopy* 2017;33:28-38.

Regarding "Arthroscopic Superior Capsular Reconstruction With Acellular Dermal Allograft for the Treatment of Massive Irreparable Rotator Cuff Tears"



I wish to thank and congratulate Pennington et al.¹ for their article titled "Arthroscopic Superior Capsular Reconstruction With Acellular Dermal Allograft for the Treatment of Massive Irreparable Rotator Cuff Tears: Short-Term Clinical Outcomes and Radiographic Parameters of Superior Capsule Distance." In this article, the authors published their short-term clinical and radiographic outcome following superior capsular reconstruction. There is, however, an inconsistency in this article that I believe is important to address.

In the Methods section of the article, the authors state the following: "Postoperative advance imaging with MRI [magnetic resonance imaging] was only performed on those patients who expressed dissatisfaction with

their level of pain, or who had insufficient functional improvement in terms of strength and range of motion."¹ The issue is that in the Results section under the Failure subheading, it is stated: "Currently, we are obtaining advanced imaging of all of our patients to evaluate graft incorporation; however, we have had 3 radiographically revealed graft failures on MRI in patients reporting dissatisfaction."¹ The following is further stated in the same section: "These patients represent a failure rate of 4.5% (4/88 shoulders). All 3 radiographic failures we observed occurred at the greater tuberosity of the humerus attachment site."¹

Thus, in the Methods section, the authors report that MRI was only obtained in "patients with dissatisfaction," whereas in the Results section, readers may be left with an impression that MRI was obtained in all patients to evaluate graft incorporation. I believe that it is very important for this to be clarified, because it is stated that there were "3 radiographic failures." What is important is 3 of how many patients? If it is 3 of the 4 dissatisfied patients (if only the dissatisfied patients had postoperative MRI), then the radiographically MRI failures rates may have been much higher if all patients (satisfied and dissatisfied) had postoperative MRIs, as we know from previous publications in which all patients were scanned that patients have significant improvement in their outcome scores despite a high rate of incomplete healing with postoperative superior capsular reconstruction.² If all patients had postoperative MRI leading to a radiological MRI failure rate of 3 in 88 (which is extremely low), then the Methods section should be corrected. Otherwise, the Results section should be clarified so that one is not left with the impression that all patients had advanced imaging with MRI after surgery to evaluate graft incorporation.

A. Ali Narvani, M.B.B.S., B.Sc., M.Sc., F.R.C.S. (Orth)
*Department of Orthopaedics, Rowley Bristow Unit
 St. Peters & Ashford NHS Foundation Trust, Fortius Clinic
 London, United Kingdom*

Note: The author reports the following potential conflicts of interest or sources of funding: Stryker. Educational consultant. Arthrex. Research support. Full ICMJE author disclosure forms are available for this article online, as [supplementary material](#).

© 2019 by the Arthroscopy Association of North America
<https://doi.org/10.1016/j.arthro.2018.09.002>

References

1. Pennington WT, Bartz BA, Pauli JM, Walker CE, Schmidt W. Arthroscopic superior capsular reconstruction

with acellular dermal allograft for the treatment of massive irreparable rotator cuff tears: Short-term clinical outcomes and the radiographic parameter of superior capsular distance. *Arthroscopy* 2018;34:1764-1773.

2. Denard PJ, Brady PC, Adams CR, Tokish JM, Burkhart SS. Preliminary results of arthroscopic superior capsule reconstruction with dermal allograft. *Arthroscopy* 2018;34:93-99.

**Author Reply to
“Regarding ‘Arthroscopic
Superior Capsular
Reconstruction With
Acellular Dermal Allograft
for the Treatment of
Massive Irreparable
Rotator Cuff Tears’”**



I wish to thank Dr. Narvani for his insightful reading of our article. As stated in our outcome analysis,¹ we are in the process of obtaining magnetic resonance imaging follow-up on all of our patients who have undergone the superior capsular reconstruction procedure. He is correct in noting that this article discusses radiographic failure in only those patients who underwent imaging owing to an unacceptable outcome. Our radiographic failure rate of 4 in 88 only accounts for these unsatisfied patients and most likely does not reflect the true imaging failure rate. As Dr. Navani referenced, Denard et al.² noted radiographic a healing rate of 45% in a similar patient population. We do believe that the clinical satisfaction rates are the most notable and important factor, however, as general

healing (on magnetic resonance imaging) of large rotator cuff repairs without superior capsular reconstruction is known to be quite poor. On completion of imaging of shoulders included in our series, a clearer picture of superior capsular reconstruction healing rates will become more known, and a follow-up article will likely be written to further describe these findings.

William Thomas Pennington, M.D.
*The Orthopedic Institute of Wisconsin
Midwest Orthopedic Specialty Hospital
Franklin, Wisconsin*

Note: The author reports the following conflicts of interest or sources of funding: W.T.P. reports consulting fees from Arthrex and is the physician owner of Midwest Orthopedic Specialty Hospital and the Surgery Center at Associated Medical and Surgical Specialists, outside the submitted work. Full ICMJE author disclosure forms are available for this article online, as [supplementary material](#).

© 2019 by the Arthroscopy Association of North America
<https://doi.org/10.1016/j.arthro.2018.09.001>

References

1. Pennington WT, Bartz BA, Pauli JM, Walker CE, Schmidt W. Arthroscopic superior capsular reconstruction with acellular dermal allograft for the treatment of massive irreparable rotator cuff tears: Short-term clinical outcomes and the radiographic parameter of superior capsular distance. *Arthroscopy* 2018;34:1764-1773.
2. Denard PJ, Brady PC, Adams CR, Tokish JM, Burkhart SS. Preliminary results of arthroscopic superior capsule reconstruction with dermal allograft. *Arthroscopy* 2018;34:93-99.