

Biceps Tenodesis: Location Comparison

Purpose

To compare the early clinical outcomes of pain, function, and quality of life for patients who underwent biceps tenodesis fixated at the top of the groove, suprapectoral, or subpectoral regions.

Methods

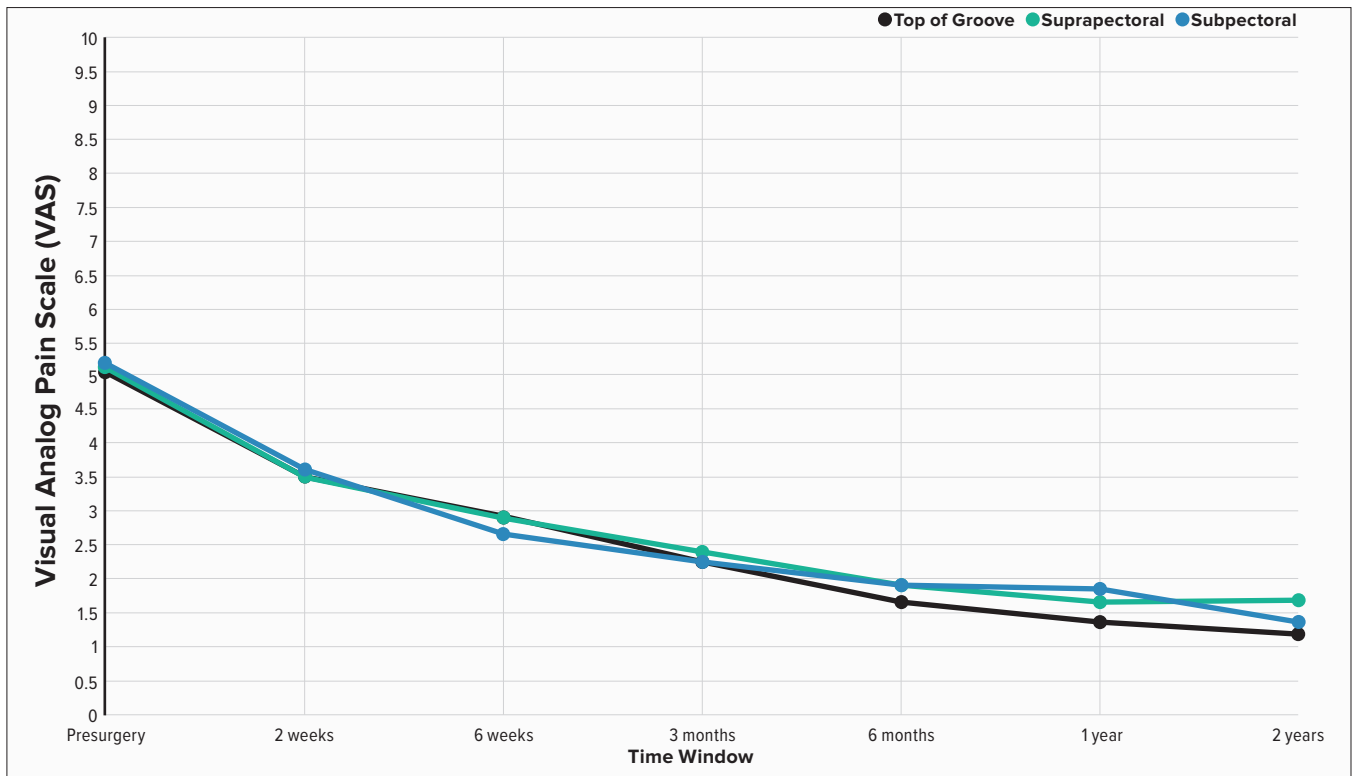
The inclusion criteria for this analysis were patients enrolled in the Surgical Outcomes System™ global registry who underwent biceps tenodesis that was performed at the top of the groove, suprapectoral, or subpectoral based on site data entry. Standard patient-reported outcomes questionnaires for VAS, ASES, and SANE were administered at standard time points postoperatively. Results were reported from presurgery to 2 years postsurgery. The numbers of compliant patients included per group are shown to the right.

Time Point	# of Compliant/ Total # surveys sent Top of Groove patients	# of Compliant/ Total # surveys sent Suprapectoral patients	# of Compliant/ Total # surveys sent Subpectoral patients
Presurgery	504/689	348/550	1053/1441
6 months	353/377	245/430	758/1316
1 year	250/447	181/350	653/1174
2 years	121/266	95/189	472/880

Trend Conclusion

Based on these results for biceps tenodesis location, there appears to be a similar trend in pain, function, and quality-of-life scores for tenodesis performed at the top of the groove, suprapectoral, and subpectoral. However, further statistical analysis is necessary to determine if these findings have statistical significance. More patients and scores are needed to evaluate long-term success.

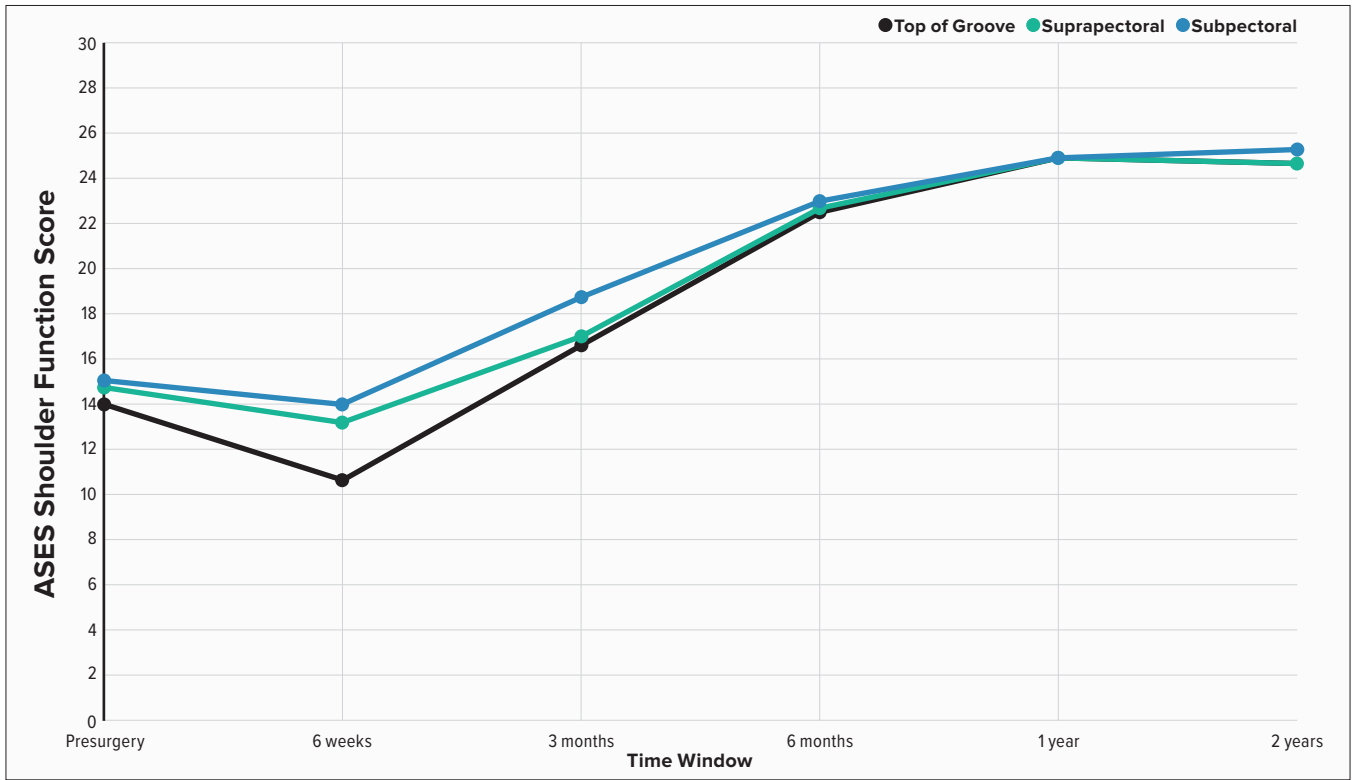
Results



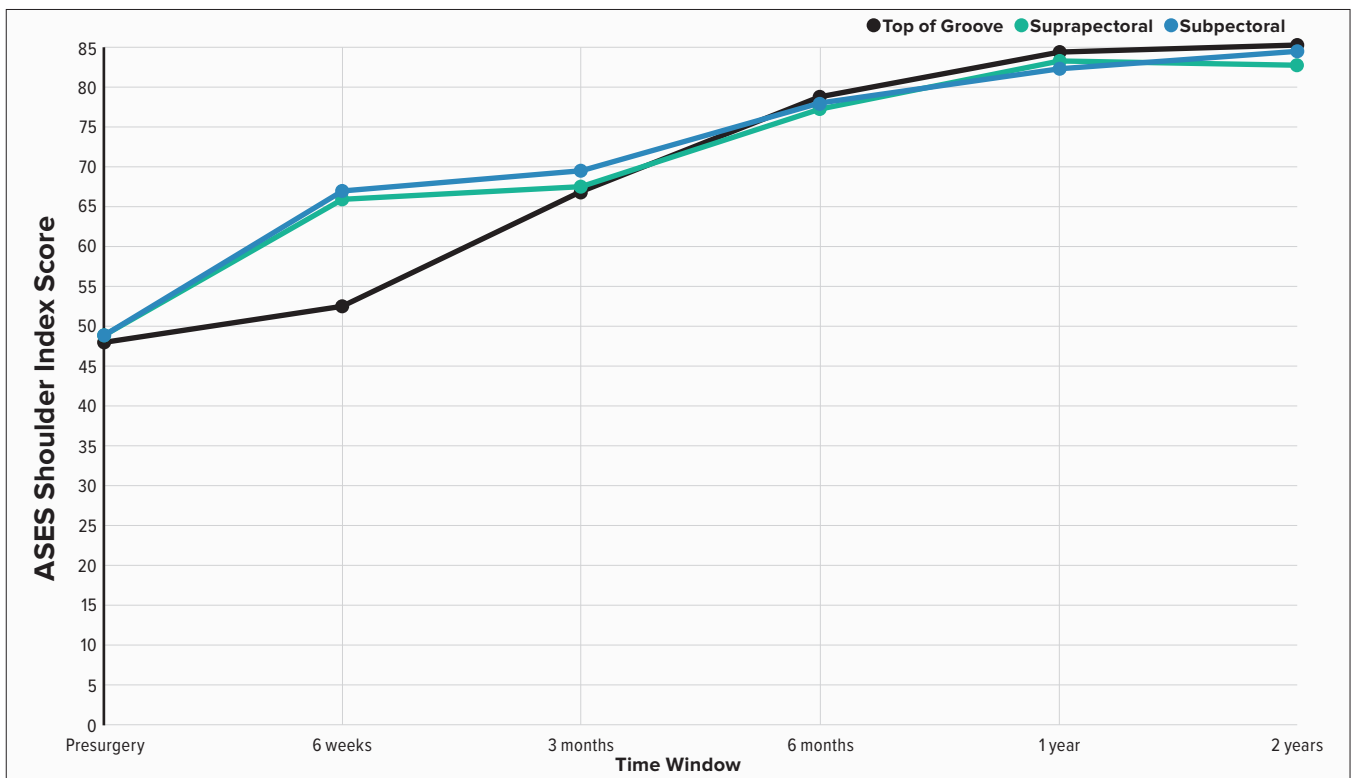
VAS

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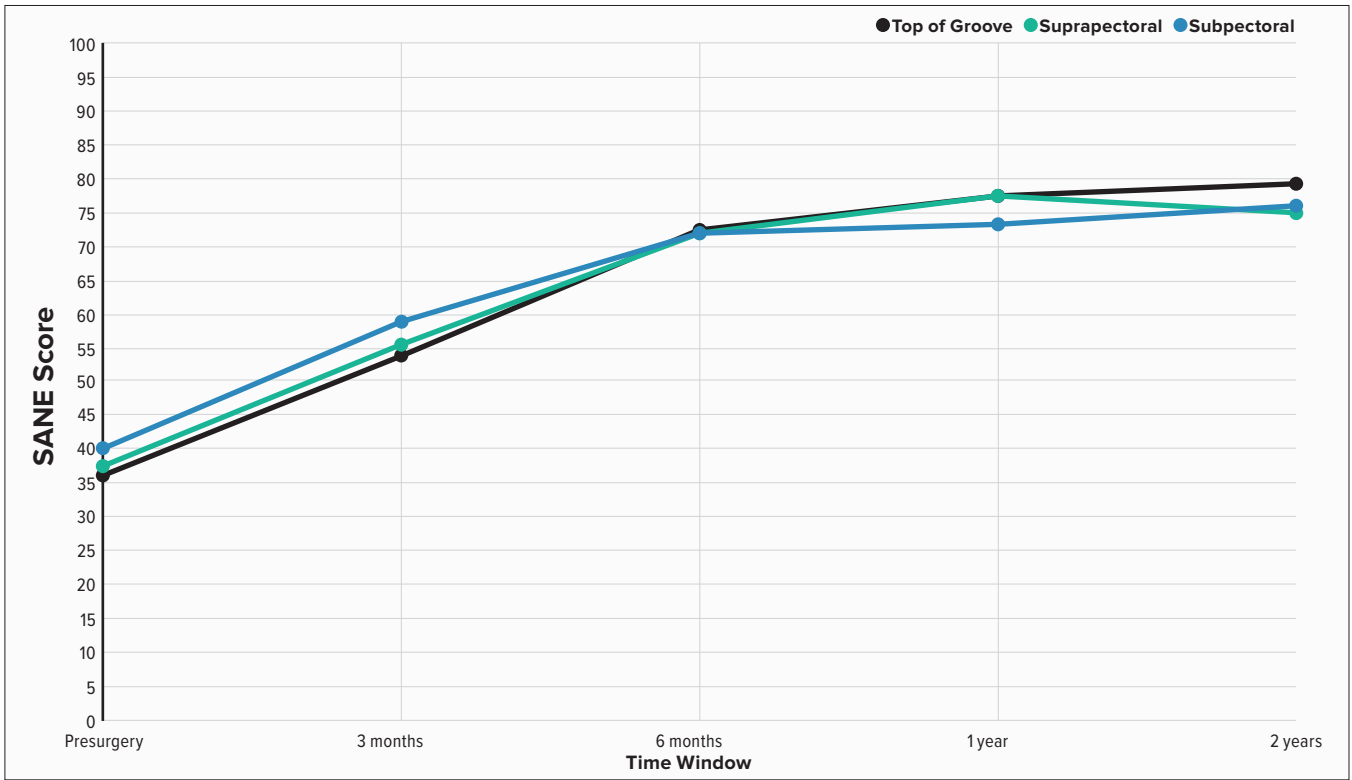




ASES Shoulder Function Score



ASES Shoulder Index Score



SANE Score

Time Point	Top of Groove Avg ± STD VAS	Suprapectoral Avg ± STD VAS	Subpectoral Avg ± STD VAS
Presurgery	5.1 ± 2.3	5.1 ± 2.3	5.2 ± 2.4
6 months	1.6 ± 1.7	1.8 ± 1.9	1.8 ± 2.0
1 year	1.4 ± 1.8	1.6 ± 2.1	1.7 ± 2.1
2 years	1.3 ± 1.9	1.6 ± 2.3	1.4 ± 1.9

Time Point	Top of Groove Avg ± STD ASES-Function	Suprapectoral Avg ± STD ASES-Function	Subpectoral Avg ± STD ASES-Function
Presurgery	14.0 ± 5.9	14.4 ± 5.9	14.6 ± 6.2
6 months	22.2 ± 5.7	22.4 ± 6.0	22.6 ± 6.1
1 year	24.5 ± 5.5	24.5 ± 6.4	24.4 ± 5.8
2 years	25.0 ± 6.2	25.0 ± 6.1	25.3 ± 5.9

Time Point	Top of Groove Avg ± STD ASES-Index	Suprapectoral Avg ± STD ASES-Index	Subpectoral Avg ± STD ASES-Index
Presurgery	47.8 ± 17.4	48.5 ± 17.6	48.3 ± 18.8
6 months	79.0 ± 15.5	78.5 ± 17.8	78.8 ± 19.0
1 year	83.8 ± 16.1	82.8 ± 19.9	82.2 ± 18.5
2 years	85.5 ± 17.7	83.7 ± 20.3	84.9 ± 17.9

Time Point	Top of Groove Avg ± STD SANE	Suprapectoral Avg ± STD SANE	Subpectoral Avg ± STD SANE
Presurgery	35.2 ± 20.6	37.2 ± 19.4	40.0 ± 19.9
6 months	71.4 ± 21.9	71.1 ± 21.5	70.9 ± 21.8
1 year	77.1 ± 24.2	77.2 ± 23.7	73.9 ± 26.0
2 years	79.4 ± 24.8	75.5 ± 24.7	75.9 ± 26/7