Reverse Total Shoulder Arthroplasty - Dr. Lehman, MD

This program is an evidence-based and soft tissue healing dependent program allowing patients to progress to vocational and sports-related activities as quickly and safely as possible. Individual variations may occur depending on surgical technique and the patient's response to treatment. Please contact us at 1-800-362-9567 ext. 58600 if you have questions or concerns.

Phase I: 0-4 weeks	Immediate Post Operative Maximum Protection Phase
Rehabilitation Appointments	The 1st physical therapy visit should be scheduled 2 weeks after the surgical date
Goals	 Protect the subscapularis tendon if repair was performed Decrease joint effusion and soft tissue edema Decrease pain Review post operative restrictions and safe transitions from sit to stand
Restrictions	 No external rotation range of motion >20 degrees No lifting, pushing, and pulling No weightbearing through the surgical extremity No reaching behind the back until 6 weeks post operatively No active range of motion of the shoulder
Sling	The sling should be worn at all times for 4 weeks
PROM/ AAROM/AROM	 PROM/AAROM limited to 20 degrees of external rotation PROM/AAROM flexion, internal, and abduction to tolerance
Isometrics	 At 2 weeks, start to initiate sub-max isometric exercises for the deltoid muscle
Treatment Interventions	 Deltoid Sub-max isometrics is strongly encouraged due to its role with shoulder elevation post reverse total shoulder Active range of motion of the elbow, wrist, and hand Passive range of motion exercises within range of motion limits (ie seated shoulder flexion with arm supported on table) AAROM exercises using dowel/pulley flexion and abduction to tolerance Scapular squeezes
Modalities	As needed for pain control



Phase II: 4-8 weeks	Range of Motion Phase
Rehabilitation	1-2x per week or physical therapist discretion
Appointments	
Goals	Controlled restoration of passive and active assisted range of motion
	Restore active range of motion with goal of >100 degrees of flexion and
Destruction of	abduction
Restrictions	No active internal rotation for 6 weeks
	External rotation range of motion restrictions
	Week 5 and 6: 30 degrees Week 7 and 6: 45 degrees
	Week 7 and 8: 45 degrees No woods in a basic wattle wattle was less and a position by
	No reaching behind the back until 6 weeks post operatively No lifting are stand to a 4 lb ("a council of a fine")
	No lifting greater than 1 lb ("a cup of coffee") No weight to a give a through the countries of cuttors it.
Dangs of Mation	No weightbearing through the surgical extremity PROM: integral retation to talance as
Range of Motion	PROM: internal rotation to tolerance AROM/AROM/RROM: no prostrictions with abdustion and flourism.
Ctrop oth onin a	AROM/AAROM/PROM: no restrictions with abduction and flexion A time are a first transported by the second sec
Strengthening	Active range of motion exercises with no lifting >1 lb
Tuestanout	Active internal rotation can be started 6 weeks post operatively
Treatment Interventions	Passive Range of Motion
interventions	Passive internal rotation until 6 weeks post operatively
	Active Assistive Range of Motion
	Wall walks
	Pulleys: elevation/flexion
	Seated AAROM with dowel
	Active Range of Motion
	Active internal range of motion can begin once 6+ weeks post operatively
	Side lying external rotation
	Supine shoulder flexion
	Side lying shoulder abduction
	Prone I, Prone Y, and Prone T
	Prone horizonal abduction with external rotation within range of motion
	restrictions for current week
	Scapular retraction
	Supine serratus punch
Cardiovascular	Walking and recumbent bike are permitted with no weightbearing through
Fitness	the upper extremity



Phase III: 8-12+ Weeks	Strength Phase
Rehabilitation Appointments	1x every 2-3 weeks or at physical therapist discretion
Goals	 8-12 Weeks Full passive range of motion Full active range of motion Increase shoulder internal rotation manual muscle test grade to 4/5 Increase shoulder abduction (deltoid) manual muscle test grade to 4/5 12+ Weeks Improve over shoulder height strength as tolerated Improve shoulder abduction (deltoid) manual muscle test grade to 5/5 Improve shoulder internal manual muscle rest grade of 5/5 Return to recreational activities such as golf, swimming, and biking once cleared by medical provider
Restrictions	No weight restrictions
Range of Motion	As tolerated in all planes
Strengthening	 Strengthening exercises may progress gradually using light hand weight or elastic band resistance Closed kinetic chain exercises are now permitted including planks, yoga poses, and quadruped exercises
Treatment Interventions	 Continue Phase 2 Exercises as needed Deltoid isotonics focusing on the anterior, middle, and posterior portions of the deltoid Closed kinetic chain exercises including planks, quadruped shoulder stabilization exercises, ball on wall, lateral reaches on wall, etc. Scaption PNF D1/D2 stabilization Biceps strengthening 90/90 external rotation strengthening Body blade exercises
Cardiovascular Fitness	Walking, stairmaster, and bicycle are permitted



References

- 1. Boudreau, S., Boudreau, E. D., Higgins, L. D., & Wilcox III, R. B. (2007). Rehabilitation following reverse total shoulder arthroplasty. *journal of orthopaedic & sports physical therapy*, *37*(12), 734-743.
- 2. Bullock, G. S., Garrigues, G. E., Ledbetter, L., & Kennedy, J. (2019). A systematic review of proposed rehabilitation guidelines following anatomic and reverse shoulder arthroplasty. *journal of orthopaedic & sports physical therapy*, 49(5), 337-346.

