

Accelerated Rehabilitation Protocol for Arthroscopic Rotator Cuff Repair for Small or Medium Tears

The intent of this physical therapy protocol is to provide the clinician with a guideline of the post-operative rehabilitation course of a patient who has undergone an Arthroscopic Rotator Cuff Repair for a Small or Medium Tear with Ortho Rhode Island. It is by no means intended to be a substitute for one's clinical decision making regarding the progression of a patient's postoperative course based on their physical exam/ findings, individual progress, and/or the presence of post-operative complications. If a clinician requires assistance in the progression of a post-operative patient, the clinician should consult with the referring surgeon.

	Phase 1: Immediate Post-Op (3-5 Days – 3 Weeks Post-Op)
Rehabilitation Goals	 Educate patient on physical therapy and recovery Pain/surgical sequelae management via passive and active modalities Protect repair, promote tendon to bone healing Wean out of sling Maintain and progress shoulder PROM within tolerable range Maintain UE and periscapular PROM and AROM
Sling	• 7-10 days only discontinue sling after post-op visit and suture removal
Precautions	 UE use for very light AROM activities up to elbow height. Avoid anything heavier than a coffee mug Do not support your weight through affected UE.
Interventions	 Modalities: heat prior to PT, ice after PT Manual Therapy: STM to shoulder/irritable soft tissue of brachium, antebrachium, periscapular muscles and cervical spine. Scapular mobilizations, thoracic and cervical mobilizations/manipulation. Range of Motion/Mobility: PROM- by therapist- relatively pain free range at this time, address all planes of motion Stretching- pendulums, ER in neutral, Table slides/walk outs flexion, scaption, abduction, IR BTB towel ** Subscapularis Repair ER in Neutral Position Only AROM: Elbow/wrist, gripping (ball or towel), shoulder rolls, scapular squeezes, cervical AROM all planes Thoracic extension/rotation in chair Prone scapular AROM>prone row at ~2 weeks
Criteria to Progress	 Adequate management of surgical sequelae (pain, ecchymosis, edema) >/=90 degrees of passive elevation of shoulder (flexion/scaption/abduction) >/=30 degrees of passive ER and IR Pt consistent with HEP and able to tolerate PROM shoulder exercises

Phase 2: Early Rehab (Weeks 4–6)		
Rehabilitation Goals	 Progress shoulder PROM Minimize pain Protect repair Discharge sling Initiate AAROM Progress to AROM 	
Precautions	Avoid lifting/carrying tasks, weight bearing through UE, activities past shoulder height	



	Phase 2: Early Rehab (Weeks 4–6) (continued)
Interventions	 Modalities: Heat/Ice as needed Manual Therapy: STM/cervical and thoracic mobilizations as needed, rhythmic stabilization Range of Motion/Mobility: PROM- address limitations within tolerance Stretching- supine ER progressive abd>pec stretch low/mid/high, IR up back, posterior capsule stretch, sleeper stretch AAROM: Pulleys, supine wand AAROM to 90 (press), sidelying flexion with ball AAROM, standing AAROM flexion/abduction/extension/IR with wand. Wall walks>wall slides Isometrics: ER/IR/extension/flexion neutral Reactive isometrics in neutral with light band resistance AROM- Initiate per tolerance to AAROM: Supine press toward ceiling to ~90 degrees of flexion, scapular punches, figure 8, salutes (hand to forehead), SL ER Initiate flexion/scaption to shoulder height in front of mirror for biofeedback to avoid shoulder hiking
Criteria to Progress	 Adequate tolerance to progressions, min-mod pain, good muscle activity AAROM/AROM elevation to 90 degrees with min-mod scapular hiking at most >/=120 degrees of passive elevation of shoulder (flexion/scaption/abduction) >/=60 degrees of passive ER and IR

Phase 3: Mid-Stage Rehab (Weeks 6–12)		
Rehabilitation Goals	 Normalize PROM Progress AROM Assess strength Initiate resistive exercises Minimal complaints of pain Pending progress and pt confidence, d/c to self-management appropriate in this phase 	
Precautions	Avoid lifting more than 10 pounds, continue to avoid weight bearing through affected UE	
Interventions	 Modalities: Heat/Ice: As Needed Manual Therapy: As Needed Range of Motion/Mobility: PROM- restore end ranges of motion Stretching- Foam roller pec stretch/snow angel, bar flexion stretch pro/sup, PWB hang, wall slide to OP stretch flx/abd AROM: Progression of prone exercises, neutral rot T's, Y's, ER/IR in prone Progression to abd/flx AROM past shoulder height (mirror biofeedback) Wall clocks/wall snow angels Reactive isometrics: ER/IR/extension/flexion (can progress into flexion/abduction ranges at this time) Addition of body blade, addition of wall ball activities Resistive exercises: Neutral/pulling motions (extension, mid rows), progress to gentle resistance of flexion in supine and then standing. resisted ER and IR, resisted horizontal abduction in neutral Light loop band resistance to active motions such as Sharapova's 	
Criteria to Progress	 Adequate tolerance to progressions, minimal pain, good muscle activity Full PROM all planes Progressive improvement in AROM in all planes Trace scapular compensation with active motions 	



Phase 4: Late-Stage Rehab (Weeks 13–16)		
Rehabilitation Goals	 Normalize AROM Progress resistive exercises Progressive introduction of activities that appropriately stress repair site 	
Precautions	Avoid repetitive overhead tasks (painting the ceiling), no throwing/plyometric activities	
Interventions	Modalities: d/c or decrease frequency of heat/ice/MT. Dry needling for persistent soft tissue dysfunction Range of Motion/Mobility: PROM/mobility: continue to address limitations as needed AROM: Continuous Articular Rotation (CAR) exercises (full functional IR to full functional ER) in various position (standing, prone, on ball, sidelying Reactive isometrics: Time based oscillation training w/band, body blade, weighted ball etc. in multiplanar patterns Resistive exercises: • Progressive introduction of resistance via bands and dumbbells • ER/IR in flexion/abduction with band resistance • Band resisted PNF patterns in supine and standing • Keiser resisted exercises such as lat pulldowns and chopping Weight bearing: • Bird dog UE only, to UE/LE alt • Front plank on wall > table > stair > flat • Side plank on knees > legs straight > adductor side plank • Wall push up > table push up > stair push up > flat push up > band/bosu/physioball push up Therapist resisted: • Supine, side lying and prone. Single plane and then multiple plane motions	
Criteria to Progress	 Adequate tolerance to progressions, minimal pain, good muscle activity Full PROM/AROM all planes ER/IR strength LSI >/= 80% 	

Phase 5: Return to Sport/Manual Labor (4–6 Months Post-Op)	
Rehabilitation Goals	 Progress resistive exercises Maintain end range PROM/AROM Begin eccentrically resisted motions, plyometrics, proprioception Initiate sports/work specific rehab ~4.5 months
Interventions	 Initial plyometrics: Keiser- split stance/half kneeling down chops>upchops Med ball- both arms forward pass/bent over press slam to ground>single arm, lateral pass/wall slam Progressive plyometrics: Med ball- overhead slams > supine chest pass > supine overhead pass > standing windmill slam Weighted ball- reverse throw > wall ball ER in abd > straight arm wall ball in flx/abd Body weight- assisted plyo push up, hands on table plyo push up, plyo eccentric Return to racket sport/golf/Swimming/Throwing: Consider interval return to sport protocols
Return-to-sport	 Min pain with progressive plyometrics and interval programs Shoulder strength LSI>/= 90% Return to throwing at 6 months Throw from a pitcher's mound 9 months Collision sports at 9 months Full Recovery ~ 12 months' post op