

Traditional Rehabilitation Protocol for Rotator Cuff Repair

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 a Rotator Cuff Repair 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 Promote consistent sling use Protect repair, promote tendon to bone healing Maintain and progress shoulder PROM within tolerable range Maintain UE and periscapular PROM and AROM
Sling	Wear until 6-weeks post-op
Precautions	No active UE useDo 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
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 Initiate AAROM Progress to prone AROM
Precautions	Initiate AAROM and isometrics no earlier than 4 weeks post-op



	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, IR up back, posterior capsule 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: prone scap retraction > prone row
Criteria to Progress	 Adequate tolerance to progressions, min-mod pain, good muscle activity AAROM 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 Introduce AROM Assess strength Initiate band resistance Minimal complaints of pain
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- pec stretch mid/high, sleeper stretch, end range flx and abd wall stretch, foam roller pec stretch AROM: Progression of prone exercises, neutral rot T's, Y's Supine AROM > SL AROM > standing AROM 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)
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 Pending progress and pt confidence, d/c to self-management appropriate in this phase
Precautions	Avoid repetitive overhead tasks (painting the ceiling), no throwing/plyometric activities



	Phase 4: Late-Stage Rehab (Weeks 13–16) (continued)
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 positions (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 neutral > ftx/abd positions 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
Precautions	 Unlock brace to 30 degrees of knee flexion for weight bearing at 4 weeks. Discharge/weaning out of brace by 6-weeks SLRx10 without quad lag and good tolerance to functional progressions in locked brace
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
Criteria to Progress	 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