

Protocol for Bankart Repair/Capsulorrhaphy

Phase 1: Immediate Post-Op (Weeks 0–3)		
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	• Neutral rotation with abduction pillow in 30-45° of abduction worn at all times for 3 weeks	
Precautions	No shoulder AROMNo lifting/carrying tasks, weight bearing through UE	
Interventions	 Modalities: 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- flx/scap/IR/hor add to tolerance, neutral rot abd to go, ER neutral to 50% of contralateral shoulder Stretching- pendulums, ER in neutral, Table slides/walk outs flexion, scaption, abduction, IR BTB towel. Isometrics: ER/IR/extension/flexion neutral Reactive isometrics in neutral with light band resistance 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 AAROM: Pulleys, supine wand AAROM to go (press), sidelying flexion with ball AAROM, standing AAROM flexion/abduction/extension/IR with wand. Wall walks>wall slides 	
Criteria to Progress	 Adequate management of surgical sequelae (pain, ecchymosis, edema) >/=90 degrees of passive elevation of shoulder (flexion/scaption/abduction) >/=20-30 degrees of passive ER and IR Minimal shoulder hike/compensation with AAROM flx/scap/abd 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	Discharge sling in this phaseGradual introduction of UE use (very light ADLs)



	Phase 2: Early Rehab (Weeks 4–6) Continued
Interventions	Mobility: Heat/Ice as needed Manual Therapy: STM/cervical and thoracic mobilizations as needed, rhythmic stabilization Range of Motion/Mobility: PROM: flx/scap/IR/hor add to tolerance, neutral rot abd = 120, ER neutral to 80% of contralateral shoulder Stretching: supine ER in progressive abd, 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 6–10)	
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	 Mobility: Heat/Ice as needed Manual Therapy: As Needed Range of Motion/Mobility: PROM: All planes of motion progressed gradually to normal limits during this phase. ER may always be limited as compared to unaffected side. Stretching: Pec stretch low/mid/high, 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 10–16)
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 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 flexion/abduction with band resistance Band resisted PNF patterns in supine and standing Keiser resisted exercises such as lat pulldowns and chopping Special emphasis on stabilization exercises in apprehension position 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 Gradual introduction of shoulder extension past neutral with push up exercises 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% Score 70-80% of gender predicted norm on CKCUEST 15-17 for males, 17-19 for females

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% Score 90-100% of gender predicted norm on CKCUEST 21 for males, 23 for females 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