



Rehabilitation Protocol for Bankart Repair

This protocol is intended to guide clinicians and patients through the post-operative course of a Bankart repair. Specific interventions should be based on the needs of the individual and should consider exam findings and clinical decision making. If you have questions, contact the referring physician.

Considerations for the Post-operative Bankart Repair Rehabilitation Program

Many different factors influence the post-operative Bankart repair rehabilitation outcome, including severity of the damage to the labral and capsular structures and individual patient factors including co-morbidities.

Post-operative Complications

If you develop a fever, unresolving numbness/tingling, excessive drainage from the incision, uncontrolled pain or any other symptoms you have concerns about you should contact the referring physician.

	EDIATE POST-OP (0-3 WEEKS AFTER SURGERY)
Rehabilitation	Protect surgical repair
Goals	Reduce swelling, minimize pain
	Maintain UE ROM in elbow, hand and wrist
	Gradually increase shoulder PROM
	Minimize substitution patterns with AAROM
	Minimize muscle inhibition
	Patient education
Sling	Neutral rotation
	Use of abduction pillow in 30-45 degrees abduction
	Use at night while sleeping
Precautions	No shoulder AROM
	No lifting of objects
	No supporting of body weight with hands
Intervention	Swelling Management
	Ice, compression
	Range of motion/Mobility
	• PROM: ER<20 scapular plane, Forward elevation <90, pendulums, seated GH flexion table slide
	AROM: elbow, hand, wrist
	AAROM: Active assistive shoulder flexion, shoulder flexion with cane, cane external rotation
	stretch
	Strengthening (Week 2)
	Periscapular: scap retraction, prone scapular retraction, standing scapular setting, supported
	scapular setting, inferior glide, low row
	Ball squeeze
Criteria to	90 degrees shoulder PROM forward elevation
Progress	20 degrees of shoulder PROM ER and IR in the scapular plane
	Palpable muscle contraction felt in scapular and shoulder musculature
	No complications with Phase I

PHASE II: INTERMEDIATE POST-OP (4-6 WEEKS AFTER SURGERY)

Rehabilitation	Continue to protect surgical repair
Goals	Reduce swelling, minimize pain
	Gradually increase shoulder PROM
	Minimize substitution patterns with AAROM/AROM
	Patient education

Sling	Start to wean out of sling
Precautions	No lifting of objects
	No supporting of body weight with hands
Intervention	Range of motion/Mobility
*Continue with	• PROM: ER<50 scapular plane, ER @ 90 ABD <45, Forward elevation <135, horizontal table slide
Phase I interventions	 AAROM: washcloth press up, seated table slides, seated shoulder elevation with cane, wall climbs
	• AROM: elevation < 115, supine flexion, salutes, supine punch, seated shoulder elevation with cane and active lowering
	Strengthening
	Rotator cuff: internal external rotation isometrics
	• Periscapular: Row on physioball, shoulder extension on physioball_rowing, lawn mowers, robbery, serratus punches
Criteria to	135 degrees shoulder PROM forward elevation
Progress	• 50 degrees shoulder PROM ER and IR in scapular plane
	• 45 degrees shoulder PROM ER in 90 degrees ABD
	115 degrees shoulder AROM forward elevation
	Minimal substitution patterns with AAROM/AROM
	• Pain < 2/10
	No complications with Phase II

PHASE III: INTERMEDIATE POST-OP CONTD (7-8 WEEKS AFTER SURGERY)

Rehabilitation	Do not overstress healing tissue
Goals	Reduce swelling, minimize pain
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	Gradually increase shoulder PROM/AROM With the section of the section o
	Initiate rotator cuff strengthening
	Progress periscapular strength
	Improve dynamic shoulder stability
	Gradually return to full functional activities
	Patient education
Sling	Discontinue
Precautions	No lifting of heavy objects (>10 lbs)
Intervention	Range of motion/Mobility
*Continue with	• PROM: ER<65 scapular plane, ER @ 90 <75, Forward elevation <155
Phase I-II	AAROM: Pulleys
interventions	• AROM: Elevation <145, supine forward elevation with elastic resistance to 90 degrees
	Strengthening
	• Rotator cuff: side-lying external rotation, standing external rotation w/ resistance band, standing
	internal rotation w/ resistance band, internal rotation, external rotation
	Periscapular: Resistance band shoulder extension, resistance band seated rows, push-up plus on
	knees, tripod, pointer, prone shoulder extension Is, resistance band forward punch, forward punch
	Motor Control
	• Internal and external rotation in scaption and Flex 90-125 (rhythmic stabilization)
	IR/ER and Flex 90-125 (rhythmic stabilization)
	Quadruped alternating isometrics and ball stabilization on wall
Criteria to	155 degrees shoulder PROM forward elevation
Progress	
1 1081633	65 degrees shoulder PROM ER and IR in scapular plane 75 degrees shoulder PROM ER in 90 degrees ARD.
	• 75 degrees shoulder PROM ER in 90 degrees ABD
	• 145 degrees shoulder AROM forward elevation
	• Pain < 2/10

PHASE IV: TRANSITIONAL POST-OP (9-11 WEEKS AFTER SURGERY)

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Rehabilitation	Do not overstress healing tissue
Goals	Gradually increase shoulder PROM/AROM
	Progress rotator cuff strengthening
	Progress periscapular strength
	Improve dynamic shoulder stability
Precautions	No lifting of heavy objects (> 10 lbs)
Intervention	Range of motion/mobility
*Continue with	PROM: Full
Phase II-III	AROM: Full
interventions	Strengthening
	• Rotator cuff: sidelying ABD→standing ABD, scaption and shoulder flexion to 90 degrees elevation
	• Periscapular: T and Y, "T" exercise, push-up plus knees extended, prone external rotation at 90
	degrees, wall push up, "W" exercise, resistance band Ws, dynamic hug, resistance band dynamic hug
	Elbow: Biceps curl, resistance band bicep curls and triceps
	Stretching
	IR behind back with towel, sidelying horizontal ADD, sleeper stretch, triceps and lats, doorjam
	series
	Motor Control
	PNF – D1 diagonal lifts, PNF – D2 diagonal lifts
	Field goals
Criteria to	Full pain-free PROM and AROM
Progress	Minimal to no substitution patterns with shoulder AROM
	Performs all exercises demonstrating symmetric scapular mechanics
	• Pain < 2/10

PHASE V: STRENGTHENING POST-OP (12-16 WEEKS AFTER SURGERY)

Rehabilitation	Maintain pain-free ROM
Goals	Enhance functional use of upper extremity
Intervention	Strengthening
*Continue with Phase II-V	• Rotator cuff: External rotation at 90 degrees, internal rotation at 90 degrees, resistance band standing external rotation at 90 degrees, resistance band standing internal rotation at 90 degrees
interventions	Motor control
	 Resistance band PNF pattern, PNF – D1 diagonal lifts w/ resistance, diagonal-up, diagonal-down Wall slides w/ resistance band Stretching
	• External rotation (90 degrees abduction), hands behind head
Criteria to	Clearance from MD and ALL milestone criteria below have been met
Progress	• QuickDASH
	• PENN
	<u>Upper Extremity Functional Assessment</u>
	 Full pain-free PROM and AROM
	 Joint position sense ≤ 5 degree margin of error
	 Strength ≥ 85% of the uninvolved arm
	o ER/IR ratio ≥ 64%
	 Scapula Dyskinesis Test symmetrical
	 Functional Performance and Shoulder Endurance Tests ≥ 85% of the uninvolved arm
	 Males ≥ 21 taps; females ≥ 23 taps on CKCUEST
	Return-to-sport testing can be performed at MGH Sports Physical Therapy, if necessary
	Negative impingement and instability signs
	Performs all exercises demonstrating symmetric scapular mechanics

PHASE VII: EARLY RETURN-TO-SPORT (4-6 MONTHS AFTER SURGERY)

Rehabilitation Goals	 Maintain pain-free ROM Continue strengthening and motor control exercises
	 Enhance functional use of upper extremity Gradual return to strenuous work/sport activity
Intervention *Continue with Phase II-VI interventions	See specific return-to-sport/throwing program (coordinate with physician)
Criteria to Progress	Last stage-no additional criteria
Return-to-Sport	• For the recreational or competitive athlete, return-to-sport decision making should be individualized and based upon factors including level of demand on the upper extremity, contact vs non-contact sport, frequency of participation, etc. We encourage close discussion with the referring surgeon prior to advancing to a return-to-sport rehabilitation program.

References

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