

Posterior Capsulorraphy and/or Arhroscopic Reverse Bankart Repair Protocol

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PHASE I/Immediate Post-Operative Phase (Proliferation): Generally 0 - 5 Weeks Post- Op	
GOALS:	1. Control Pain and Swelling
	2. Protection of surgical repair
	3. Avoid "stiff" shoulder
PRECAUTIONS:	NO Active use of arm
	Avoid increasing shoulder ROM too rapidly so that labral repair is not compromised
	No PROM or pulleys unless specified by provider
	Tabletop activities such as writing, dining, and using the computer are permitted
SLING	Wear sling with custom ER brace x6 weeks post-op
	*get the name of the custom
ROM	AAROM as tolerated with wand in supine with scapular depression and progress to pulley 0-6

	*No PROM/AROM for posterior capsular repair or pulleys unless specified by provider during this phase 0-4 weeks
Wound Care	Post-op dressing remains intact until post-op day #5 (~48 hours after surgery)
	May begin showering after post-op day #5 (no need to cover incision sites)
	Do NOT submerge shoulder in tub or pool for 4 weeks
	Suture/staple removal @ 10-14 days post-op, per Ortho/PT
	Begin scar massage after incision site sloughs/scar is formed
CRYOTHERAPY:	Cold with compression (e.g. CryoCuff, ice with compression wrap)
	 every hour for 15 minutes for first 24 hours, until acute inflammation is controlled After acute inflammation is controlled: 3x per day for 15 minutes or longer as tolerated
REHABILITATION:	Frequent use of CryoCuff and/or ice
	Exercise prescription is dependent upon the tissue healing process and <i>individual</i> functional readiness in <i>all</i> stages. If any concerns or complications arise regarding the progress for any patient, physical therapy will contact the orthopedic surgeon.
~1-2 weeks	Hand squeezing exercises
	Elbow and wrist active motion (AROM) with shoulder in neutral position at side
	Modified pendulums 0-5 days, progress to full pendulum exercises
	Scapular retraction without resistance, scapular depression into ball on table with shoulder in sling
~2-4 weeks	Full pendulum exercises
	Resisted elbow/wrist exercises (light dumbbell)

	1-2 Finger shoulder isometrics
	Cardiovascular training: stationary bike with sling
~4-6 weeks	Submaximal isometrics x 6 (pain-free)
	Cardiovascular Training: walking progression program on TM
	LE strength training: Hip 4way, Leg press, calf raises, HS curls
FOLLOW-UP:	Supervised rehab: 1-2x per week
	Physical Therapist Re-evaluation: weekly or bimonthly
	Ortho Re-evaluation: ~2 & 6 weeks post-op
CRITERIA FOR PROGRESSION:	Minimal pain
	Near full passive ROM

PHASE II (Remodeling): Generally 6-12 Weeks Post-Op	
GOALS:	1. Full shoulder flexion and external rotation, ~90% full IR
	2. Pain-free ADLs
	3. Start isotonic exercises
PRECAUTIONS:	* <u>NO</u> pushups, heavy lifting, or other sports participation*
	* <u>NO</u> repetitive overhead use of shoulder*
	*Behind the back IR: starts after 8 th week after surgery (mass general)
	*Horizontal adduction stretch: starts after 8 th week after surgery (mass general)
SLING	d/c sling

REHABILITATION:	Continue phase I exercises as needed
	Progress to the following exercises and increase intensity gradually when patient is ready (i.e., no increase in shoulder pain or stiffness since the previous exercise session)
	*Note: all strengthening should be done, starting with low weights, high repetitions, and in a painless ROM *
~6-9 weeks	Shoulder AROM and AAROM exercises: Wand, pulley, towel stretch,
	sleeper's stretch, etc.
	Exercises:
	Progressive Strengthening:
	1. RTC strengthening with light TB:
	-ER and IR with arm at side or pillow under arm
	-Abduction to 60 deg
	-Flexion to 60 deg
	-Scaption to 60 deg
	-Extension to 30 deg
	2.Prone scapular retraction with weight
	3. Standing Rows with TB
	4. Ball on wall
	5. UBE- forwards/backwards at low resistance
	6. Push-up plus against wall (no elbow flexion >90 deg) –mixed evidence (arthroscopic)
	Cardiovascular Training
	Aerobic Conditioning: Bike, elliptical, stairmaster as desired

	Aquatic Therapy
	Pool walking/running- NO UE resistive exercises
~9-12 weeks	Goals
	-Normal RTC strength
	-30 table push-ups
	Shoulder PROM/mobilization as needed to regain full ROM
	Exercises
	-con't appropriate exercises with increased resistance as tolerated
	-Prone Scapular retraction exercises with light weight
	-ER/IR with shoulder in 30 deg elevation
	-Shoulder strengthening with TB: 111-130 deg of flexion/scaption/abduction
	-BAPS on hands
	-Ball toss with arm at side
	-Push-up progression- Wall to Table (no elbow flexion >90 deg)
	Cardiovascular Training:
	Treadmill-Running progression program
~7-12 weeks	Beginning Level Exercises
	Body Blade
	Flexion/Extension
	IR/ER
	Superior/Inferior (arm at side

	Ball Toss
	Chest pass- 2 handed, IR (arm at side)
	Prone stabilization
	All fours stabilization on stable surface
	Supine stabilization
	Supine Shoulder Stabilization @ 90 deg
	Push-ups
	Wall push-ups with no elbow flexion >90 deg
	Misc Activities for sports training
	Basketball: dribbling, chest pass, and bound pass
	Golf: putting
	Volleyball: bumping
	Pool: jogging, treading, wall ball drawing
FOLLOW-UP:	Supervised rehab: 2-3x per week
	Physical Therapist Re-evaluation: monthly
	Ortho Re-evaluation: ~12 weeks post-op
TESTING:	Timed Functional Arm and Shoulder Test –once full IR/ ER ROM (JOSPT)

PHASE III (Maturation): Generally 4-6 months post-op	
GOALS:	1. Push-ups at own pace without pain
	2) \geq 90% internal/external rotation strength return
PRECAUTIONS:	* <u>NO</u> participation in contact/collision sports or military schools until ~9 months post-op*
REHABILITATION:	Continue Phase II exercises as needed
	-Progress to the following exercises and increase intensity gradually when patient is ready (i.e., no increase in shoulder pain or stiffness since the previous exercise session)
	-Note: all strengthening should be done, starting with low weights, high repetitions, and in a painless ROM*
~Months 3-4	Continue appropriate previous exercises
	Shoulder strengthening with TB: 13-15- deg of flexion/Scaption/abduction
	RTC strengthening in 60-90 deg shoulder elevated
	Fitter on Hands
	Ball toss overhead
	Push-up progression- table to chair (no elbow flexion >90 deg)
	Weight training with light resistance
	-No elbow flexion >90 deg with bench, dips, etc
	Manual: PNF manual resistance with therapist
~Months 4-6	Coals
	Resume all activities
	Pass alternate APFT at 12 months post-op
	Precautions: No contact sports until 9-12 months post-op

	Initiate push up progression
	Continue appropriate previous exercises
	Push-ups, regular-Limit elbow flexion >90 deg
	Sit-ups
	Swimming
	Running progression to track
	Progressive weight training-limit elbow flexion >90 deg
	Transition to home/gym program
~Months 4-5 post-op	Intermediate Level Exercises
	Body Blade
	FF range to 90 deg
	Scaption to 90 deg
	IR/ER through ROM
	Horiz abd/add at 90 deg
	Ball Toss
	Overhead toss – (2 handed)
	Prone stabilization
	All fours stabilization on foam or theraball
	Tripod on stable surface
	Supine stabilization
	Supine Shoulder Stabilization from 60-120 deg
	Push-ups
	Wall push-ups-progressing to inclined push-ups

	Misc Activities for sports training
	Basketball: shooting within the key only
	Golf: chipping, short irons
	Volleyball: setting
	Pool: no overhead strokes
	Catching drills: below 90 deg
	Tossing: Frisbee
~ Months 5-6 post-op	Advance Level Exercises
	Body Blade
	FF range to 150 deg
	Scaption to 150 deg
	IR/ER through ROM
	Diagonal motions
	Ball Toss
	Overhead diagonal toss- (2 handed)
	Regular throwing toss
	Prone stabilization
	Tripod stabilization on unstable surface
	Supine stabilization
	Supine Shoulder Stabilization (Available ROM)
	Push-ups
	Knee Pushups-progressing to modified regular puhs-ups
	Misc Activities for sports training

	Basketball: noncontact drills only
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	Volleyball: gradual return ~6 mo
	Pool: gradual return
	Forehand, backhand racquet sports (no overhead)
FOLLOW-UP:	Supervised rehab: 1-2x per week
	Physical Therapist Re-evaluation: monthly
	Ortho Re-evaluation:~6 months post-op
TESTING:	Y-balance test UE
	Timed Functional Arm and Shoulder Test
	CKCUE Strength Test – once able to sustain a tall plank position without ncrease pain
	?- minute Timed Push-up
	I minute plank hold
MISCELLANEOUS:	After 6-9 months post-op: Exercises in phase III are continued, gradually increasing intensity & duration as tolerated. (depending on tissue healing time/ Hendawi)
	The recommendation is to wait until 9-12 months post-op to return to contact/collision sports or aggressive military training (i.e., airborne school). This time period may be adjusted slightly by the surgeon and therapist according to patient progress.

References:

1. Hendawi T, Milchteim C, Ostrander R. Bankart Repair Using Modern Arthroscopic Technique. Arthroscopy Techniques. 2017;6(3). doi:10.1016/j.eats.2017.02.019.

2. Cohen BH, Thome AP, Tabaddor RR, Owens BD. Open Surgical Stabilization of Glenohumeral Dislocations. JBJS Essential Surgical Techniques. 2018;8(2). doi:10.2106/jbjs.st.17.00052.

3. Shah KM, Baker T, Dingle A, et al. Early Development and Reliability of the Timed Functional Arm and Shoulder Test. Journal of Orthopaedic & Sports Physical Therapy. 2017;47(6):420-431. doi:10.2519/jospt.2017.7136.