



Posterior Labral Repair/Stabilization Rehabilitation Guidelines

This rehabilitation protocol has been developed for the patient following arthroscopic posterior shoulder stabilization surgery (posterior labrum). This protocol will vary in length and aggressiveness depending on factors such as:

- Quality of the repaired tissue
- Presence of additional procedures
- Degree of shoulder instability or generalized laxity prior to surgery
- Acute versus chronic condition
- Length of time immobilized
- Strength/pain/swelling/range of motion status
- Rehabilitation goals and expectations

The therapist should communicate with the physician regarding the above factors to determine proper progression of rehab.

Early passive range of motion is highly beneficial to enhance circulation within the joint to promote healing. The protocol is divided into phases. Each phase is adaptable based on the individual and special circumstances. The **overall goals** of the surgical procedure and rehabilitation are to:

- Control pain, inflammation, and swelling
- Regain normal/full upper extremity strength and endurance
- Regain normal/full shoulder range of motion
- Achieve the desired level of function based on the orthopedic and patient goals

Physical therapy should be initiated after the first week post-op. The supervised rehabilitation program is to be supplemented by a home fitness program where the patient performs the given exercises at home or at a gym facility. **Important post-op signs** to monitor:

• Swelling of the arm or shoulder and surrounding soft tissue



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- Abnormal pain response, hypersensitivity, increasing night pain
- Severe range of motion limitations
- Weakness in the upper extremity musculature
- Improper mechanics or scapular dyskinesia
- Core and peri-scapular strength deficits

Return to activity:

Return to activity requires both time and clinical evaluation. To safely and most efficiently return to normal or high-level functional activity, the patient requires adequate strength, flexibility, and endurance. Functional evaluation including strength and range of motion testing is one method of evaluating a patient's readiness to return to activity. Return to intense activities following shoulder stabilization requires both a period of time to allow for tissue healing along with a graduated strengthening and range of motion program. Symptoms such as pain or swelling should be closely monitored by the patient and therapist. Specific exercises may be added, substituted, or modified where clinically appropriate by experienced sports/shoulder therapists or trainers who have expertise in the care of post-operative tendon repair procedures. While patients may be "cleared" to resume full activities at 6+ months following surgery, additional time spent in full activity or sport participation is often necessary to achieve maximal recovery.

Suggestions during rehab:

- 1. These patients are often not in a lot of pain post-operatively and are able to passively move in wide ranges of motion, if allowed. ROM precautions should be strictly adhered to and the patient must be educated in avoiding overstretching so that the repair can heal, even if motion is pain free. Often, the patient will start to "tighten" and the therapist will feel a change in the end feel during passive range. It is at this point that you may want to start initiating ROM exercises, continuing to adhere to precautions but working to obtain full range by 8-10 weeks postoperatively.
- 2. The RC gets a better blood supply when the shoulder is slightly away from the body; therefore, advocate the use of a towel roll under the arm when in a resting position.
- 3. The RC muscles are very small; therefore, we use lower intensities to isolate each muscle without recruitment from surrounding larger muscles. Focus on hypertrophy initially by high volume (V= Reps X intensity/weight). Following the hypertrophy phase, strength is the focus with lower reps and higher intensities/weight.
- 4. Closed chain rotator cuff exercises facilitate cuff strength and shoulder proprioception. Like closed chain exercises for the knee, these can be safely initiated early in the post-op course.



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PHASE 1:	Focus of this phase is protection, decrease symptoms, initiate passive ROM
Post-op – Week 4	BRACE/SLING
Week 4	To be worn for 3-4 weeks even while sleeping
	 Can be removed for exercises only
	ROM
	• NO ACTIVE ROM, passive and active assisted only
	 Active-assisted flexion/scaption: goal is 60° by week 3
	 IR in neutral and scapular plane: goal is to neutral by week 3
	• ER in scapular planes to 45°
	• Exercises
	 Pendulums small circles (whenever aching)
	 Supine active assisted flexion using other UE 10x10"
	 Cane/wand for ER in neutral and scaption supine 10x10"
	 Active ROM elbow/wrist/digits
	STRENGTH
	 Seated/supine scapular retractions 10x10" every hour (can do in sling)
	 Pain-free submax isometrics with towel under arm and scapula retracted: fl/ext/ER/IR
	MANUAL
	Grade I, II GH joint mobilization
	PROM all planes except extension adhering to limitations
	MODALITIES
	Moist heat 10-15 min prior to exercise
	 Ice 10-15 min following exercise and as needed
	E-stim/TENS for pain as needed
	GOALS OF PHASE 1
	Promote healing of repaired tissue
	 Control pain and inflammation
	 Gradual increase of ROM
	 Independent in HEP
	 Delay muscle atrophy



PHASE 2:	Focus of this phase is gradual increase in ROM and strength
Weeks 4-6	
	ROM
	Discontinue sling/immobilizer
	Continue therapeutic exercises as above
	Advance ER PROM to full
	Begin light Theraband ER strengthening with elbow at side
	Passive ROM with shoulder pulleys or with wand
	 Flexion to 90° and abduction to full overhead, as tolerated
	• Extension to 30°
	• ER to 45° with arm at side and in 90° of abduction
	• IR to 30° with arm at side and in 90° of abduction
	Begin standing or supine AAROM with wand
	Begin wall walks in forward flexion and abduction
	Moist heat, thermal ultrasound, TENS, other modalities as indicated
	MODALITIES
	Heat prior to exercises
	 Ice following exercises and at end of day
	Ultrasound to portals or soft tissue if needed
	GOALS OF PHASE 2
	Control pain and inflammation
	Gradually restore ROM
	Initiate active muscle contractions
	Regain proper scapulo-humeral rhythm
	Initiate joint proprioception training
	Continue home exercise program



PHASE 3: WEEK 6-8	Focus of this phase is full active ROM and RC/Scapular strengthening
	Recommendations
	Continue therapeutic exercises as above
	• Advance ROM to full as tolerated, except limit IR to 45° both with arm at side and with armin 90° of
	abduction
	 Limit IR to 45° until 12 weeks post-op
	 Strive for glenohumeral:scapular movement of 2:1
	Begin UBE
	Begin wall push-ups
	• Begin isotonic rotator cuff strengthening (progress weight/resistance as tolerated up to 6-8lbs)
	 Standing flexion, extension, abduction, and scaption with thumb down (dumbbells or
	Therabands)
	 Standing IR and ER with Therabands (use pillow under arm to keep 25° abduction)
	Scapular strengthening
	 Elevation with dumbbell shrugs
	 Depression with seated press ups (use hand blocks for greater ROM as tolerated)
	 Retraction with prone dumbbell rows or seated Theraband rows
	 Protraction with supine punches (using dumbbells or manual resistance)
	Neuromuscular control
	 PNF patterns D1 and D2 with no more than 3 lbs
	MODALITIES
	Heat if needed prior to exercise
	Ice after exercise
	GOALS OF PHASE 3
	• Full AROM all planes (except IR)
	Improve strength to allow initiation of functional activities
	Normalize kinematics



PHASE 4:	Recommendations:
WEEK 8-10	Continue therapeutic exercises as above
	Continue to advance ROM if needed
	 but limit IR to 45° until 12 weeks post-op
	Continue scapular strengthening and standing isotonic rotator cuff strengthening until motion is full
	Begin prone dumbbell strengthening
	 Prone scaption with thumb up and with thumb down
	 Prone horizontal adduction with thumb up and with thumb down
	 Prone extension
	Neuromuscular control
	 Supine dynamic/rhythmic stabilization in 90° flexion and 90° abduction with manual resistance
	 Body blade in 90° flexion and 90° abduction
	 Begin isokinetic strengthening with 60° block
	 Speeds of 180°, 150°, 120°, 90°, and 60°/second (8-10 reps at each speed)
PHASE 5:	Recommendations:
WEEK 10-12	Continue therapeutic exercises as above
	 Advance rotator cuff strengthening to 8-10 lbs in all directions
	Continue to advance ROM if neededbut limit IR to 45° until 12 weeks post op
	• At 12 weeks post op, can progress IR to full, with arm at 90° abduction
	 (ER can also be progressed to full if not already there)
	Advance neuromuscular control
	• PNF patterns D1 and D2 with manual resistance
	 Standing dynamic/rhythmic stabilization in 90° flexion and 90° abduction with ball against wall and manual resistance
PHASE 6:	Continue isokinetic strengthening but advance to 15 reps at each speed Recommendations:
WEEK 12-14	Continue therapeutic exercises as above
WEEK 12-14	 Advance rotator cuff strengthening to eccentric manual resistance
	 Advance rotator curristrengthening to eccentric manual resistance Advance neuromuscular control
	 PNF patterns D1 and D2 with manual resistance
	 Advance isokinetic strengthening to full ROM
	 Begin traditional weight training with machines and progress to free weights as tolerated
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PHASE 7:	Recommendations:
WEEK 14-16	Continue therapeutic exercises as above
	 If thrower, begin light tennis ball tossing at 60% velocity for 20-30 feet max
	• Work on mechanics (wind-up, early cocking, late cocking, acceleration, and follow through)
	• If thrower, begin isokinetics at higher speeds (240°, 270°, 300°, 330°, 360°/second)



PHASE 8: WEEK 16-24+	Focus of this phase is return to sport/full activity
WEEK 10-241	Recommendations:
	 If thrower, perform isokinetic testing as noted at the end of this protocol (if available)
	 If passes test, begin interval throwing program
	 Must pass test before beginning interval throwing program
	 Re-test monthly until passed
	Continue maintenance strengthening
	 Return to sport/activity only if:
	 Pass strength test
	 Completed throwing program
	 No pain with activity
	 Surgeon's OK
	 No less than 5 months post-op for return to contact sports
	STRENGTH
	 Progress strengthening program with increase in resistance and high-speed repetition
	UBE high resistance for endurance
	IR/ER exercises at 90° abduction
	 Progress rhythmic stabilization activities to include standing PNF patterns with tubing
	 Initiate single arm plyotoss (ball toss, ball on wall)
	 Eccentric RC strengthening
	 Initiate military press, bench press, flys, lat pulldowns week 16+ (do NOT let elbow extend past plane of
	thorax)
	 Initiate sport specific drills and functional activities
	 Initiate sport specific drins and randoma activities Initiate interval throwing program week 16-20 – consult with Dr. Johnson first*
	 Progress isokinetics to 90° abduction at high speeds
	MODALITIES
	Ice following exercise/activity
	GOALS OF PHASE 8
	Full painless ROM
	Maximize upper extremity strength and endurance
	Maximize appel extremely screngen and enderance Maximize neuromuscular control
	Optimize shoulder mechanics/kinematics
	 Optimize should international internatinternational internatinternational international international
	 Implement sports specific training/functional training

