

Large and Massive Arthroscopic Rotator Cuff Repair (> 5 cm) Post-Operative Rehabilitation Protocol

SUBSCAPULARIS INVOLVEMENT PRECAUTIONS:

- 1. Limit Passive ER to 45° until 4 weeks post-op
- 2. Full PROM by 8-10 weeks post-op
 - 3. NO active/resisted IR until 6 weeks post-op

BICEPS TENODESIS PRECAUTIONS:

- 1. No Resisted elbow flexion for 8 weeks
- 2. No Resisted shoulder flexion for 8 weeks
- 3. No lifting of anything over 1 or 2 pounds for 8 weeks

****IF STARRED, REFER TO CHECKED PRECAUTIONS ABOVE**

MAJOR OBJECTIVES for rehabilitation are:

- 1. Full **PROM by 8-10 weeks** and full **AROM by 12 14 weeks**.
- 2. No PRE's or active or passive extension until 8 10 weeks.
- 3. Perform rehabilitation activities in some degree of abduction to avoid avascularity of supraspinatus tendon.
- 4. Issue home ranger pulleys to progress flexion in plane of scapula

I. Phase One – Protective Phase (Week 0 – 8)

Goals: Decrease pain and inflammation Protect the repair Prevent/Decrease glenohumeral stiffness

Treatment:

A.

Only

follow if

checked

Only follow if checked

Post-op Week 0 – 4

- 1. Brace or sling (4-6 weeks); per physician instruction only
- 2. Pendulum exercises
- 3. PROM: (taken to patient tolerance)
 - a. Flexion up to 130°
 - b. ER in the scapular plane to 45°
 - c. IR in the scapular plane (week 2 3)
- 4. AROM of cervical spine, elbow, and wrist
- 5. Grip and wrist strengthening
- 6. Seated scapular retractions (no shoulder extension)
- 7. Ice and pain modalities
- 8. Supine ER with wand (week 2)



B. Week 4 – 8

- 1. Discontinue brace or sling and continue all above exercises
- 2. Pulley (flexion only)
- 3. Supine wand Flexion to 130° (assist with non-surgical arm)
- 4. Supine AAROM with therapist assistance or with hands clasped
- 5. Scapular PNF (Start with passive, progress to active then resistive)
- 6. Soft tissue and joint mobilization with appropriate precautions
- *7. Isometrics (manual submaximal): ER, IR and elbow flex (week 4 to 6)
- *8. Supine IR/ER in scapular plane (week 6)
- *9. Theraband IR, ER, and Extension to neutral (week 7 8)

II. Phase Two – Intermediate Phase (Week 8 – 14)

Goals: Establish full PROM (Week 8 to 10) Gradually increase strength Continue to decrease pain and inflammation Correct scapular compensations

Treatment:

Α.

Week 8 – 10 (begin with AROM then progress with weight)

- 1. Wand exercises for AROM
 - a. Flexion to tolerance
 - b. IR/ER to tolerance (progress to 90° shoulder ABD)
- 2. Initiate isotonic strengthening (in available ROM without compensation):
 - a. Supine flexion to tolerance
 - b. Sidelying ER
 - c. Abduction to 90 degrees
 - d. Biceps and triceps
 - e. Scapular muscles (i.e. rows with theratube)
 - f. Serratus punches
- 3. Progress to seated/standing flexion (if patient cannot elevate arm without hiking, then do more humeral head stabilization exercises and return to supine flexion progressions)
- 4. Single arm pull-downs with weight (may need assistance with scapular upward rotation to prevent hiking)
- 5. Supraspinatus (full can to 90° with proper scapulohumeral rhythm)
- 6. UBE
- 7. Prone Extension, ABD, and rowing with emphasis on scapular adduction
- 8. Supine rhythmic stabilization 2 positions (A.100 degrees flexion, 20 degrees horizontal abduction) and (B. ER/IR with 45° Abduction)
- C. Week 10 14
 - 1. Continue all above exercises
 - 2. Full AROM by 12 14 weeks
 - 3. Progress rhythmic stabilization to various positions
 - 4. PNF diagonals with isometric holds (gentle)



- 5. Bodyblade (begin in scapular plane and progress to more difficult positions) (week 12)
- 6. Advance and update home exercise program, including aerobic activities

III. Phase Three – Advanced Strengthening Phase (Week 15 – 24)

Maintain full, non-painful ROM Continue to increase strength and neuromuscular control Gradual return to functional activities

Treatment:

Goals:

- A. Week 15 20
 - 1. Continue all above exercises as needed
 - 2. Self capsular stretches
 - 3. Aggressive strengthening program
 - a. Shoulder flexion, IR, ER
 - b. Shoulder ABD to 90 degrees
 - c. Supraspinatus
 - d. Elbow flexors/extensors
 - e. Scapular strengthening
 - f. PNF patterns
 - g. Push-ups (Plus)
 - 4. Proprioceptive training related to specific goals and tasks
 - 5. General conditioning program
 - 6. Total gym
 - 7. Trunk/core stabilization

B. Week 21 – 24

- 1. Continue above exercises
- 2. Plyometric exercises
- 3. Initiate interval sport program
- 4. Determine plan for carrying through with independent home or gym exercise program

IV. Phase Four – Return to Activity Phase (Week 24 and beyond)

Goals: Gradual return to recreational and sports activities Return to full activity at **4 months**

Treatment:

A.

- Week 24 28
 - 1. Continue all strengthening exercises
 - 2. Continue all flexibility exercises
 - 3. Continue progression on interval programs
 - 4. Determine plan for carrying through with independent home or gym exercise program