## ROTATOR CUFF REPAIR (Small-Medium)

### Physical Therapy Rehabilitation Protocol

# RICHARD NICOLAY III, MD ORTHOPEDIC SURGERY | SHOULDER | ELBOW | HIP | KNEE

#### MODIFIERS: PLEASE BE AWARE OF SURICAL FACTORS THAT ALTER THE PROTOCOL

#### • Subscapularis Repair

- 0-4 Weeks: No external rotation
- 4-6 Weeks: Range of motion goals external rotation 30°, elevation 90°
- o 6-12 Weeks: Begin external rotation as tolerated

#### • Biceps tenodesis

- 0-4 Weeks: No elbow extension beyond 90°, wrist at neural
- o 4-6 Weeks: Elbow and wrist motion as tolerated, zero resistance
- o 6-12 Weeks: Slowly start progressing resisted elbow flexion

#### • Massive Tear Protocol

- o Entire protocol is delayed by 2 weeks
- o Sling immobilization phase is extended to 6 weeks

#### 0-4 WEEKS: SLING IMMOBILIZATION

- Educate the importance of the home exercise program
- No active shoulder motion
- Only passive shoulder motion
  - Discontinue exercises if painful
  - Pendulums
  - o Supine elevation in scapular plane (140 degrees)
  - o Side-lying scapular stabilization exercises
  - o External rotation to neutral
- Elbow, wrist and hand active motion
- Submaximal deltoid isometrics in neutral as range of motion improves
- No pulley or canes (active motions) until 6 weeks post-op

#### 4-6 WEEKS: DISCONTINUE SLING & ADVANCE RANGE OF MOTION

- Begin active assist range of motion (do not force, but assess for stiffness)
- Range of motion goals (in scapular plane), light stretching at end ranges
  - o Week 4
    - Elevation: 90°
    - External rotation: 5-15°
    - Internal rotation: to chest (no behind the back)
    - Abduction >60° (gentle)
  - o Week 6
    - Elevation: 120°
    - External rotation: 30-45°
    - Internal rotation: to chest (no behind the back)
    - Abduction 90° (gentle)
- Scapular mobility and stabilization exercises
- Deltoid isometrics
- Upper body ergometer
- · Core strengthening

Clinical Assistant: 847-832-6678 For More Information

Scheduling: 847-832-6677 NicolayMD.com



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#### 6-12 WEEKS: ACHIEVE FULL RANGE OF MOTION & BEGIN STRENGTHENING

- Full ROM as tolerated with passive stretching at end ranges
- Begin internal rotation as tolerated
- Advance strengthening as tolerated
  - o Isometrics, bands, light weights (1-5lbs)
  - o 2-3 sets of 8-12 per rotator cuff, deltoid, and scapular stabilizers
- Only do strengthening 3x per week to avoid rotator cuff tendonitis
- Begin eccentrically resisted motions
  - o Plyometrics (ex. Weighted ball toss)
  - o Proprioception (ex. Body blade)
- Reeducate movement patterns and functional mobility training
- Manual therapy as needed (ex. Scapular and soft tissue mobilization)
- Pool therapy if available

#### 12+ WEEKS: RETURN TO ACTIVITY AND SPORT

- Begin sport-specific rehab and conditioning at 4 months
  - Advance upper extremity plyometrics
  - o Endurance training
  - Core retraining (sport specific)
  - o Blood flow restriction
  - Criteria for return to sport
    - Independent adherence to long-term sport-specific exercise program
    - · Symptom free movement, flexibility and strength required by sport
    - Power and accuracy required by sport
  - o Educate the importance of
    - Monitoring volume of exercise
    - Muscle strength and flexibility
    - Neuromuscular patterning
- Return to throwing program at 6 months
- Throw from pitcher's mound at 9 months
- Collision sports at 9 months
- Maximal medical improvement is usually at 12 months

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