

# SPECTRUM MEDICAL

Surgical Date: \_\_\_\_\_

Rehab Start Date: \_\_\_\_\_

Large RTC Repair Protocol

## ARTHROSCOPIC ASSISTED MINI-OPEN REPAIR LARGE TO MASSIVE TEARS (GREATER THAN 4 CM)

### Phase I: Immediate Post-Surgical Phase (Day 1-10)

**GOALS:** Maintain Integrity of the Repair

Gradually Increase Passive Range of Motion Diminish Pain and Inflammation

Prevent Muscular Inhibition

#### **DAY ONE TO SIX:**

- Sling or Slight Abduction Brace "Physician Decision
- Pendulum Exercises
- Active Assisted ROM Exercise (L-Bar)
  - ER/IR in Scapular Plane
- Passive ROM
- Flexion to tolerance
  - ER/IR in Scapular Plane (Gentle ROM)
- Elbow/Hand Gripping & ROM Exercises
- Submaximal Gentle Isometrics
  - Flexion
  - Abduction
  - External Rotation
  - Internal Rotation
  - Elbow Flexors
- Cryotherapy for Pain and Inflammation → Ice 15-20 minutes every hour
- Sleeping → Sleep in Sling or Brace

#### **DAY SEVEN TO TEN:**

- Continue Use of Brace or Sling
- Pendulum Exercises (Flexion, Circles, etc)
- Progress Passive ROM to Tolerance
  - Flexion to at least 90 degrees
  - ER in Scapular Plane to 35 degrees
  - IR in Scapular Plane to 35 degrees
- Continue Elbow/Hand ROM & Gripping Exercises
- Continue Sub-maximal Isometrics
  - Flexion with Bent Elbow
  - Extension with Bent Elbow
  - Abduction with Bent Elbow
  - ER/IR with Arm in Scapular Plane
  - Elbow Flexion
- Continue Use of Ice for Pain Control → Use Ice at least 6-7 times daily
- Sleeping → Continue Sleeping in Brace until Physician Instructs

#### **Precautions:**

1. Maintain Arm in Brace, Remove Only for Exercise
2. No Lifting of Objects
3. No Excessive Shoulder Extension
4. No Excessive or Aggressive Stretching or Sudden Movements
5. No Supporting of Body Weight by Hands
6. Keep Incision Clean & Dry

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## Phase II: Protection Phase (Day 11 -Week 6)

### **GOALS:** Allow Healing of Soft Tissue

Do Not Overstress Healing Tissue

Gradually Restore Full Passive ROM (Week 4-5) Re-Establish Dynamic Shoulder Stability

Decrease Pain & Inflammation

### **DAY 11 -14:**

- Continue Use of Brace
- Passive Range of Motion to Tolerance
  - Flexion 0 - Approx. 125 degrees
  - ER at 90 degrees abduction to at least 45 degrees
  - IR at 90 degrees abduction to at least 45 degrees
- Active Assisted ROM to Tolerance
  - ER/IR in Scapular Plane
  - ER/IR at 90 degrees Abduction
- Dynamic Stabilization Drills
  - Rhythmic Stabilization Drills
    - ER/IR in Scapular Plane
    - Flexion/Extension at 100 degrees Flexion
- Continue All Isometric Contractions
- Continue Use of Cryotherapy as needed
- Continue All Precautions

### **WEEK 3-4:**

- Initiate AAROM Flexion in Supine (Therapist supports arm during motion)
- Continue all exercises listed above
- Initiate ER/IR strengthening using exercise tubing at 0 degrees of abduction
- Progress Passive ROM till approx. Full ROM at Week 4-5
- Initiate Prone Rowing to Neutral arm Position
- Initiate Isotonic Elbow Flexion
- Continue use of ice as needed
- May use heat prior to ROM exercises
- May use pool for light ROM exercises
- Continue Use of Brace during Sleeping Until End of Week 4
- Discontinue Use of Brace at End of Week 4

### **WEEK 5-6:**

- May use heat prior to exercises
- Continue AAROM and Stretching exercises
- Initiate Active ROM Exercises
  - Shoulder Flexion Scapular Plane
  - Shoulder Abduction
- Progress Isotonic Strengthening Exercise Program
  - ER Tubing
  - Sidelying IR
  - Prone Rowing
  - Prone Horizontal Abduction
  - Biceps Curls

Taken from HEALTHSOUTH Corporation Rehabilitation Protocol

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## PRECAUTIONS:

1. No Lifting
2. No excessive behind the back movements
3. No Supporting of Body Weight by Hands & Arms
4. No Sudden Jerking Motions

### PHASE III: INTERMEDIATE PHASE (WEEK 7-14)

**GOALS:** Full Active ROM (Week 10-12)  
Maintain Full Passive ROM  
Dynamic Shoulder Stability  
Gradual Restoration of Shoulder Strength & Power  
Gradual Return to Functional Activities

#### WEEK 7:

- Continue Stretching & PROM (as needed to maintain full ROM)
- Continue Dynamic Stabilization Drills
- Progress Strengthening Program
  - ER/IR Tubing
  - ER Sidelying
  - Lateral Raises' (Active ROM Only)
  - Full Can in Scapular Plane' (Active ROM Only)
  - Prone Rowing
  - Prone Horizontal Abduction
  - Elbow Flexion
  - Elbow Extension

\*Patient must be able to elevate arm without shoulder or scapular hiking before initiating isotonic; if unable, continue glenohumeral joint exercises.

#### WEEK 10:

- Continue all exercise listed above
- If physician permits, may initiate Light functional activities

#### WEEK 14:

- Continue all exercise listed above
- Progress to Fundamental Shoulder Exercises

### PHASE IV: ADVANCED STRENGTHENING PHASE (WEEK 15-22)

**GOALS:** Maintain Full Non-Painful ROM  
Enhance Functional Use of UE  
Improve Muscular Strengthen & Power  
Gradual Return to Functional Activities

#### WEEK 15:

- Continue ROM & Stretching to maintain full ROM
- Self Capsular Stretches
- Progress Shoulder Strengthening Exercises
- Fundamental Shoulder Exercises

#### WEEK 20:

- Continue all exercises listed above - Continue to Perform ROM Stretching, if motion is not complete

### PHASE V: RETURN TO ACTIVITY PHASE-(WEEK 23-30)

**GOALS:** Gradual Return to Strenuous Work Activities or Recreational Sport Activities

#### WEEK 23:

- Continue Fundamental Shoulder Exercise Program (at least 4 times weekly)
- Continue Stretching, if motion is tight

#### Week 26:

- May initiate interval sport program (i.e., golf, etc)