

REHABILITATION PROTOCOL FOR NON-OPERATIVE ROTATOR CUFF

Physiotherapy Guidelines

This is a guideline to help you progress your shoulder rehabilitation so that you can achieve a functional shoulder. A physiotherapist who is experienced with shoulder rehabilitation should be consulted; keep in mind each patient requires individual modification of the program depending on the extent of the original injury, pain level, degree of stiffness, and strength. Please use this as a prescription for Physiotherapy.

Patient Name: _____

Date: _____

Surgeon: French / LeBlanc / Sabo _____

Diagnosis: _____

After initial assessment of the patient:

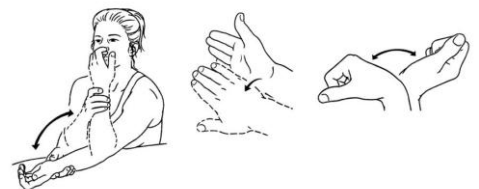
- Start at Step 1 if the patient is highly symptomatic.
- Start at Step 2 if the patient is less symptomatic and demonstrates good scapular control.

Step 1:

Goals: manage pain & swelling, introduce gentle active-assisted shoulder movements, maintain mobility of elbow/wrist/hand, teach postural & scapular control exercises.

Manual Therapy:

- It is recommended to apply ice to shoulder after exercise
- Gentle massage around the shoulder girdle, including trigger points to supraspinatus, infraspinatus, & biceps belly



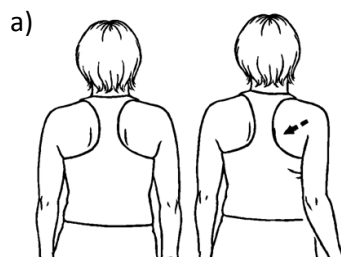
Elbow, Wrist, Hand: full active range of motion as tolerated



Scapular Activation/Setting: postural education & scapular elevation, depression, protraction, retraction (a)

Pendular Exercises: arm hanging or supported depending on comfort; pain-free range (b)

DOSAGE: Perform range of motion exercises approximately 3x/day for 10-20 reps with 5s holds, as pain allows. Progress based upon pain response.

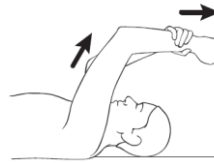


Active-Assisted Shoulder Range of Motion: These are movements performed with the assistance of a stick or your unaffected arm as tolerated. **Goal is to achieve full pain-free range of motion.**

a) Supine Flexion

- Elbow supported on towel
- Start with elbow bent & progress to straight elbow as tolerated

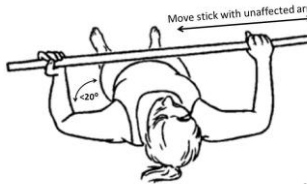
a)



b) Internal Rotation in Supine

- Arm supported on towel
- Arm positioned at 0- 20° abduction

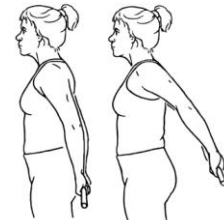
b) & c)



c) External Rotation in Supine

- Arm supported on towel
- Arm Positioned at 0-20° abduction

d)



d) Extension in Standing

- Arm supported or hanging based upon comfort

Step 2:

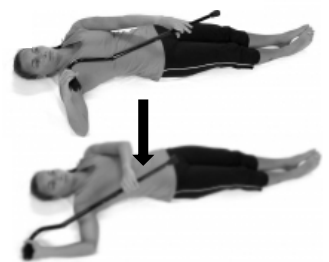
Goal: gradually transition to full, pain-free active range of motion with good scapular control. Continue manual therapy interventions as appropriate.

Active Assisted Shoulder Range of Motion:

- Progress supine external & internal rotation to 90° abduction as tolerated (a)

Consider hydrotherapy in pool as an alternative to improve shoulder range of motion. Avoid any true swimming strokes at this stage!

a)



Active Range of Motion:

- Gradually transition to full pain-free range of motion without assist
- Be cautious with horizontal flexion/hand behind back if restricted due to biceps pain; treat & allow to settle before stretching into aggravating positions.

Proprioceptive Exercises:

- Start below shoulder height with focus on good scapular control
- Examples: ball rolling on table top, incline ball rolling, ABC's on wall



Step 3:

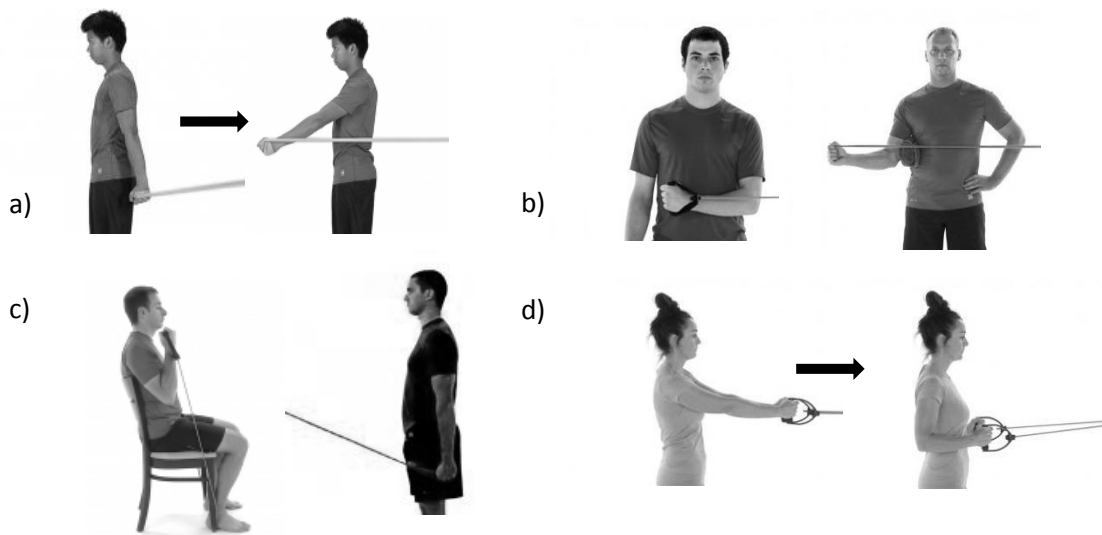
Goal: Introduce basic strength exercises for rotator cuff & scapulothoracic musculature. Continue manual therapy interventions as appropriate.

Strengthening Exercises:

- **Start slowly once full pain-free ROM achieved**
- Begin with resisted exercises **below shoulder height** in **neutral abduction** with focus on maintaining **good scapular control & stability** during movements
- Resistance should be applied with a light weight or Theraband (yellow or red/orange). It is rare to exceed greater than 2kg of resistance in the first 12 weeks.
- Perform 1x/day until it is clear there is no aggravation to the tendon or joint; may progress up to 2x/day as tolerated.

Examples of Early Stage Strengthening Exercises:

- Supine or Standing Flexion (range of motion as tolerated below shoulder height)
- Internal Rotation & External Rotation (shoulder in neutral/0° abduction)
- Biceps & Triceps
- Standing Row



Step 4:

Goals: Gradually introduce advanced strengthening exercises & focus on incorporating more functional & activity-specific movement patterns/positions. Continue to work on scapular control. Provide manual therapy interventions as appropriate.

Advanced Strengthening & Proprioceptive Exercises:

- If patient is able to maintain proper scapular control and the rotator cuff is strong and pain-free in neutral, may progress strengthening into greater ranges of abduction. Never load the tendon into end range if shoulder is stiff.
- Always be mindful of tendon biology and patient requirements. **Each patient has different functional requirements, tendon quality, and healing potential.**
- **Introduce weight bearing exercises as tolerated, always ensuring proper scapular control is maintained and the quality of movement is good.** If returning to yoga, consider modifying poses to avoid stressing joint at end range.
- **Consider returning to gym program with physiotherapy recommendations** for exercises to modify/avoid (i.e. heavy overhead weights, bench press, dips, military press, chin-ups)
- Gradually progress exercises into positions that are functional and specific to the patient’s occupational, recreational, and sporting demands.

Examples of Advanced Phase Strengthening & Proprioceptive Exercises:

- a) External & Internal Rotation at various degrees of abduction (i.e. 30°, 45°, 90°)
- b) Bent Over Rows (progress to greater degrees of abduction)
- c) PNF Patterns
- d) Push Ups (start on wall & progress to knees)
- e) Plank (start from knees & elbows)
- f) Wall Ball Toss

