

## REHABILITATION PROTOCOL FOR SMALL TO MEDIUM ROTATOR CUFF TEARS

### Physiotherapy Guidelines

The following is intended to guide the patient through the postoperative rehabilitation process. Each patient may still require individual modification of their program depending on the extent of the original injury, type of surgery performed, pain level, degree of stiffness and strength. Please use this as a prescription for Physiotherapy.

**Patient Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date of Surgery:** \_\_\_\_\_

**Surgeon:** French / LeBlanc / Sabo \_\_\_\_\_

**FULL THICKNESS**

**PARTIAL**

**BURSAL**

**ARTICULAR**

**Tendons Involved:** Supraspinatus      Infraspinatus      Subscapularis      Teres Minor

**Size of Tear:** \_\_\_\_\_ cm

**Biceps:** Tenotomy      Tenodesis      N/A

### IMMOBILIZATION/MOVEMENT RESTRICTIONS

<b>Wear Sling/Immobilizer</b>	_____ weeks
<b>Additional Restriction of Range of Motion Required?</b>	<input type="checkbox"/> No <input type="checkbox"/> Yes: _____
<b>Protection of Biceps Tendon Required?</b>	<input type="checkbox"/> No <input type="checkbox"/> Yes: No active contraction of biceps for 4-6 weeks, no strengthening of elbow flexion for 12 weeks

### Precautions/Dosages

- If not otherwise stated, keep your arm in immobilizer/sling for 2 weeks and perform exercises as outlined below
- Do not lift/push/pull any objects with your operated extremity
- Do not support your body weight with involved arm for bed mobility
- Range of motion exercises should be performed 3 times per day when allowed
- Range of motion and strength exercises should be slowly increased in a manner that is neither forceful or painful
- Use ice x 20 minutes every 2 hours to help control pain and swelling

## 0 – 2 Weeks

Come out of immobilizer/sling for exercises only.

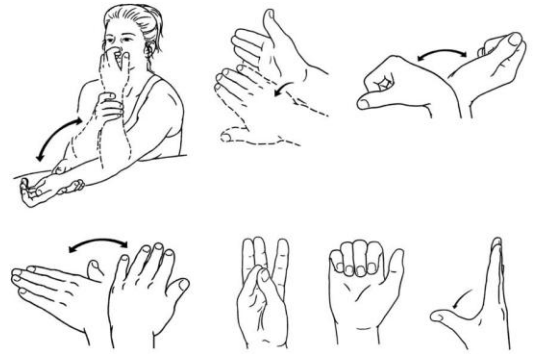
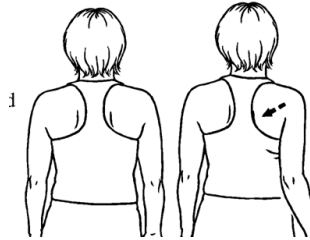
### Manual Therapy:

- Use of ice is recommended after exercise
- Gentle massage around the shoulder girdle: trigger points to supraspinatus, infraspinatus, & biceps belly

**Elbow, Wrist, Hand:** full active range of motion with arm at your side; perform passive elbow flexion only if biceps tenodesis performed

### Scapular Setting & Posture

- Elevation
- Depression
- Protraction
- Retraction



## 2 – 4 Weeks

Begin active-assisted shoulder range of motion as tolerated.

**Pendular Exercises:** arm hanging or supported depending on comfort; pain-free range



**Active-Assisted Shoulder Range of Motion in Supine:** These are movements performed with the assistance of a stick or your non-operative arm as tolerated. **Do not force any of these movements.**

#### a) Internal Rotation

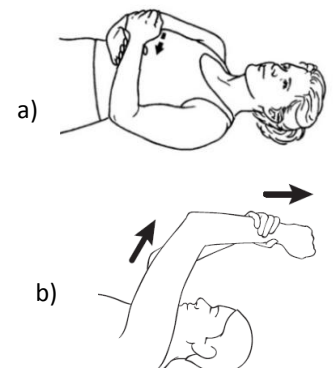
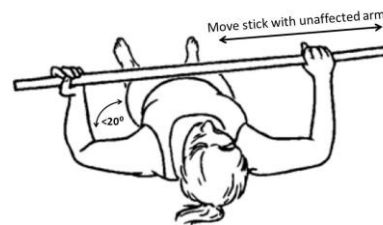
- Arm supported on towel
- Arm positioned at 20-30° abduction

#### b) External Rotation (limit motion to 0°)

- Arm supported on towel
- Arm Positioned at 20-30° abduction

#### c) Flexion

- Elbow supported on towel to avoid dropping into extension
- Start with elbow flexed to shorten lever arm
- Patient can use arm cradle technique (a) but if experiencing any biceps compression keep arm in neutral (b)
- **Up to maximum of 90-120° as tolerated**

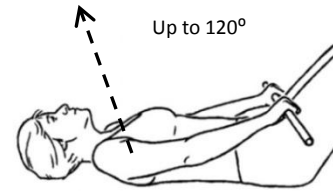


## 4 – 6 Weeks

Gradually progress active-assisted range of motion; never force these movements & always address impairments in scapular control. Complete exercises 3x/day, up to 20 reps, or as pain allows.

### Active-Assisted Shoulder Flexion in Supine:

- Gradually progress range of motion as tolerated up to 120°
- Progress to long lever arm (elbow straight)



### Active-Assisted Internal Rotation in Supine:

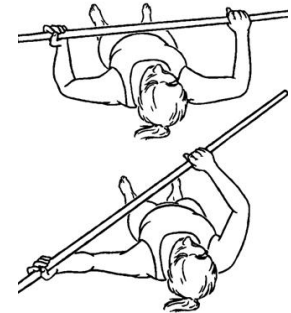
- Progress to arm at 45° abduction with towel supporting arm
- Progress to full range of motion as tolerated

### Active-Assisted External Rotation in Supine:

- Progress to arm at 45° abduction with towel supporting arm
- Progress to full range of motion as tolerated

### Proprioceptive Shoulder Exercises

- Start below 70° flexion
- Example: ball rolling on table top

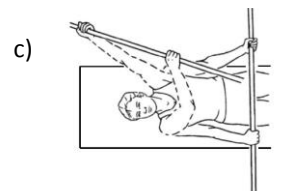


## 6 – 10 Weeks

Goal: full, pain-free active range of motion with scapular control by 10-12 weeks post-operatively.

### Range of Motion Exercises:

- Gradually transition towards full active range of motion with emphasis on scapular control; start in lower ranges of elevation without sustained holding. Avoid aggravation of biceps pain.
- May progress to more advanced stretches with longer duration holds i.e. slide arm forward on table top (a) & child's pose stretch (b)
- Gradually progress internal/external rotation in greater degrees of abduction
- May begin supine active-assisted abduction (c) but do not create impingement pain or force the motion
- Consider hydrotherapy in pool to improve shoulder range of motion if incision is adequately healed. Do not perform any swimming motions at this stage!



### Proprioceptive Shoulder Exercises

- Gradually progress into greater ranges of flexion as pain, scapular control, & shoulder AROM permit.
- Example: ball on wall



## 10 – 12 + Weeks

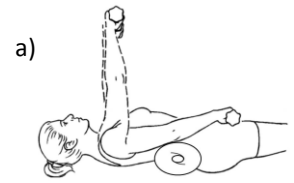
Gradually begin resisted strengthening exercises once range of motion goals are met & patient demonstrates good scapulohumeral & scapulothoracic control.

### Strengthening Exercises:

- All resisted exercises are below shoulder height for the first 10 weeks
- Work within a pain-free range of motion to avoid compression of the rotator cuff
- Resistance should be applied with a light weight or Theraband (yellow or red/orange)
- Perform 1x/day until it is clear there is no aggravation of tendons or joint; maximum 2x/day.
- First 12 weeks: gradually build endurance repetitions to be in the 1/2 kg to 1kg range

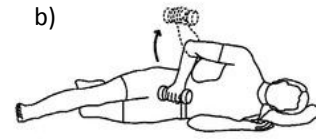
a) Supine Flexion

- Arm supported on towel to prevent dropping into extension



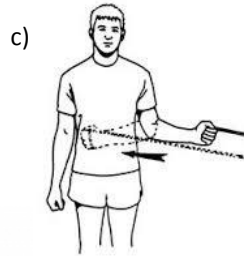
b) Side Lying External Rotation

- Arm supported on towel in 0° abduction
- May require support of forearm on pillow or books
- Initially perform to neutral & progress as tolerated



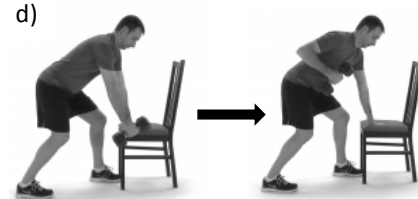
c) Internal Rotation

- Start supine with arm supported in 0° abduction ; avoid dropping into extension
- Progress to standing with arm at 0° abduction to pull from 0-20°



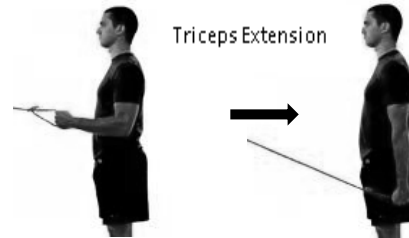
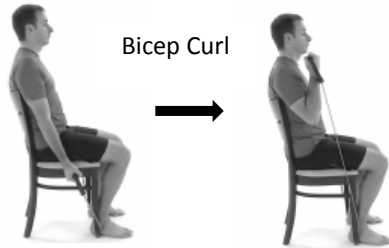
d) Bent Over Rows

- Start at neutral & progress to 30° abduction
- Do not go past level of body



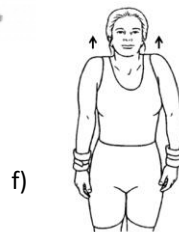
e) Bicep Curl & Triceps Extension

- Start with theraband (seated or standing)



f) Shoulder Shrugs

- Add weight as tolerated



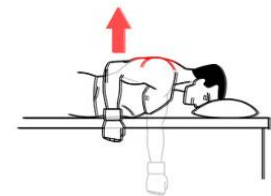
## 12 Weeks Onwards

### Principles of Progression:

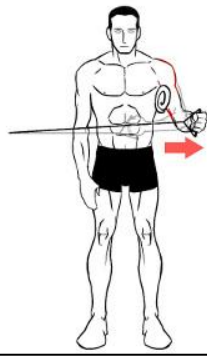
- Strengthen further into range as pain and range of motion allow. Never load the tendon into end range if shoulder is stiff.
- Be mindful of tendon biology and patient requirements. Each patient has different functional requirements, tendon quality, and healing potential.

### Advanced Strengthening Exercises:

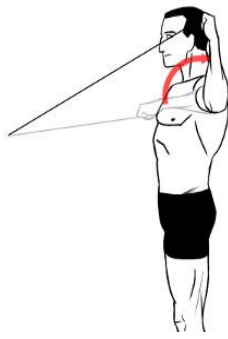
- Prone horizontal extension drills. Start with arms at neutral & elbows bent; gradually progress towards 90° abduction.
- Progressions of Standing External (ER) & Internal Rotation (IR) strength with theraband towards 90° abduction.



**NOTE:** Only progress to these abducted positions if the cuff is strong in neutral, patient has adequate range of motion, and demonstrates good quality of movement with scapular control. Do not progress into end range of abduction & external rotation if there is any compression pain in the cuff – only do a partial arc of movement.



30° abduction & ER



90° abduction & ER



30° abduction & IR



90° abduction & IR

## 14 Weeks Onwards

Weight bearing drills may be started.

- Begin with push ups on the wall, then progress to knees. Perform with caution as weight bearing may aggravate compression of the rotator cuff.
- **Activities, such as yoga, are not recommended in the first 12 weeks** unless they are performed in a modified fashion to avoid stressing the end range of motion or weight bearing of the glenohumeral joint.
- **Progress all exercises into functional positions** for sport and occupation.
- Strength work should be done 1x/day and focus on endurance. **Starting at 6 months onwards, patient may return to gym programs and start with low load hypertrophy drills.**
- **No heavy weights are to be used, especially in overhead positions.** It is rare to exceed 4kg.
- **Generally, it is not recommended to perform incline bench press, military press, dips, or chin-ups.**
- Unless advised otherwise by surgeon or physiotherapist, patients are encouraged to **continue with stretches & strength work for 6-12 months post-operatively** in order to achieve realistic functional capacity.

## Other Topics

**Driving:** Minimum 6 weeks no driving. Patients should be discouraged from driving until they are weaned from any prescription medications and they are comfortable in active motion below shoulder height. Initial efforts to restart driving should be performed in low risk settings (i.e. empty parking lot, residential side streets, etc.)

**Return to Work:** Patients should discuss this with their surgeon as each person has specific needs and will progress through the protocol differently.

**Feedback/Concerns:** If the patient is struggling to progress along the protocol, has an injury or there are other concerns, please do not hesitate to send a report or have the patient contact their surgeon.