

Post-operative Rotator Cuff Repair Protocol <u>Therapist Instructions</u> Delayed Therapy

Introduction

The MOON Shoulder Group is a collection of shoulder experts who study the best methods to treat patients with rotator cuff tears. Your Patient is part of a study evaluating the effect of timing of post-operative therapy after rotator cuff repair.

- This patient is to begin therapy 6 weeks after surgery.
- The patient should work with the therapist 1-3x/week until released by the surgeon.
- Your patient has received a home therapy exercise guide. THESE BEGIN SIX WEEKS AFTER SURGERY. You should review this home exercise program with the patient.

Do not add or skip any part of this program.

If you have concerns, please contact your surgeon.

General Instructions

Modalities	Level-1 evidence supports the use of cryotherapy. Patients are
	encouraged to use cryotherapy after surgery.
Sling Use	A sling with a small pillow is to be worn for six weeks after surgery. The
	sling may be removed for showering and activities as directed. The sling
	should be worn when the patient is in an uncontrolled environment:
	sleeping, around children, pets and crowds during these six weeks.
Activity	Showering: 48 Hours
Restrictions	 Deskwork: When comfortable with sling
	Driving: Not until sling is off at 6 weeks
	 Using arm for Activities of Daily Living (no weight): 6 weeks
	Using arm to reach overhead: 12 weeks
	 Using arm to reach behind back: 12 weeks
	 Using arm to carry objects: 12 weeks
	Pushing/Pulling: 12 weeks
	 Sport/Heavy Activity: When finished with therapy program
Exercise	Therapy is to begin 6 weeks after surgery. Exercises should be performed
Program	once per day at home or with a therapist. The exercise program is divided
	into four time-dependent phases. Do not advance into the next phase
	until the appropriate time after surgery.
Questions/	If you have questions or concerns, please contact the patient's surgeon.
Concerns	



Phase 1

Passive Motion (6-10 Weeks after Surgery)

Passive range of motion is to begin 6 weeks after surgery. Passive range of motion requires the therapist or an assistant at home to put the arm through a comfortable range of motion while the patient is supine. Motions include forward elevation, external rotation, and abduction – all within a comfortable range. *These exercises are done with each therapy visit, three times each week*.

In addition, pendulum exercises can be initiated during this time. *These can be done at home, twice each day.*



PASSIVE RANGE OF MOTION

The patient lies supine and relaxes. The therapist will move the arm. The patient should relax and should not contract any muscles while the therapist moves the arm. *This should be done at each therapy visit, three times each week.*

PENDULUM EXERCISES

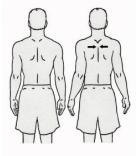
Use torso to move arm by rocking body weight. Go in clockwise direction then counter clockwise. Pendulum exercises can be done twice each day.



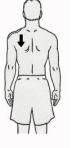


Scapula Exercises (6-18 Weeks after Surgery)

Scapula exercises begin after 6 weeks. Scapula exercises should include elevation with shrugs, depression, retraction and protraction. These are done out of the sling until strengthening exercises begin, 18 weeks after surgery. *These exercises can be done daily*.









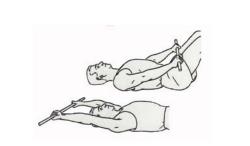
SCAPULA EXERCISES These can be done daily.



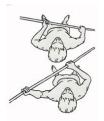
Phase 2

Active Assisted Motion (10 Weeks after Surgery)

This second phase of therapy begins with active assisted range of motion and starts 10 weeks after surgery. The patient lies supine and uses the unaffected arm (or a stick or cane) to move the postoperative arm into forward elevation, external rotation, and abduction. *These can be done daily.*



SUPINE ACTIVE ASSISTED FORWARD ELEVATION Using a stick or cane, the normal arm will move the affected arm over the head.



SUPINE ACTIVE ASSISTED EXTERNAL ROTATION Keep the affected arm tucked close to the body. Bend the elbow to 90 degrees so the hand is pointed to the ceiling. Using a cane, the healthy arm moves the affected arm in external rotation.

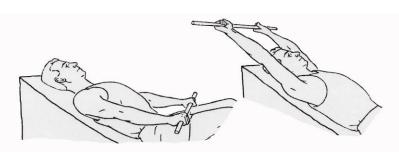


SUPINE ACTIVE ASSISTED ABDUCTION While keeping the elbow of the affected arm straight, the unaffected arm will move the affected arm out to the side of the body as high as is comfortable.



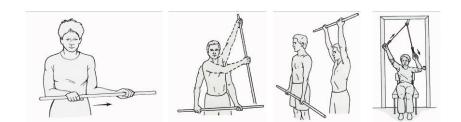
Active Assisted Motion (11-14 Weeks after Surgery)

Eleven weeks after surgery the patient's back is propped up approximately 45 degrees and uses the unaffected arm to move the postoperative arm (or a cane or stick) into forward elevation, external rotation, and abduction. After twelve weeks, the patient can do these exercises while upright. *These exercises can be done daily*.



45 DEGREE ACTIVE ASSISTED RANGE OF MOTION

While propped on a pillow at 45 degrees and using a stick or cane, the normal arm will move the affected arm over the head. The arm is moved in forward elevation, abduction, and external rotation. This begins 11 weeks after surgery and is done daily.



UPRIGHT ACTIVE ASSISTED RANGE OF MOTION

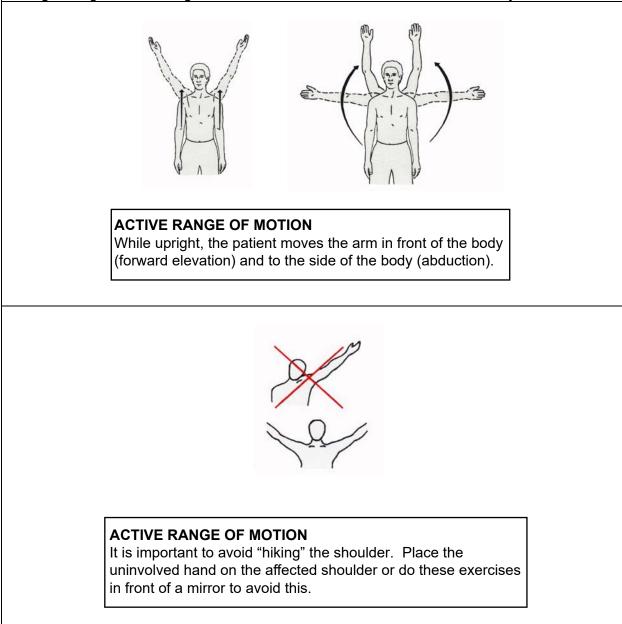
Twelve weeks after surgery using a stick or cane, the normal arm will move the affected arm in external rotation, abduction and forward elevation while upright. Sitting in a chair while using pulleys is allowed at this time as well. *These exercises should be done daily.*



Phase 3

Active Motion (14-18 Weeks after Surgery)

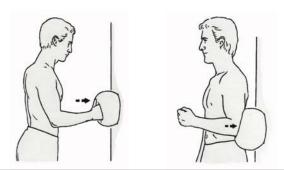
While continuing to work on active assisted range of motion, the patient now begins active range of motion in forward elevation, external rotation and abduction. In addition, isometric strengthening exercises begin at this time. *These exercises can be done daily*.





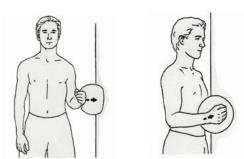
Isometric Exercise (14-18 Weeks after Surgery)

Beginning 14 weeks after surgery the patient can begin isometric exercises. Using a pillow or folded towel the patient pushes against the wall without moving the shoulder



ISOMETRIC PUSH AND PULL

With a pillow against the wall, and the arm tucked close to the body, create pressure with the fist for forward push, and with the elbow to push backward. *Hold the position for 15 seconds then rest for 30 seconds. Repeat this 10-15 times. This can be done daily.*



ISOMETRIC EXTERNAL AND INTERNAL ROTATION

With a pillow against a wall, and the arm tucked close to the body, create pressure with the back of the hand for external rotation and with the palm of the hand for internal rotation. Hold the position for15 seconds then rest for 30 seconds. Repeat this 10-15 times. This can be done daily.



Phase 4:

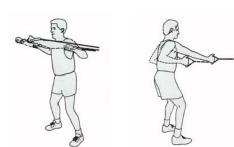
Resisted Exercises (18-22 Weeks after Surgery)

After 18 weeks, the patient can begin strengthening with resisted exercise using elastic bands and/or hand weights. *Resisted exercises should be done 3 days per week. Each exercise should be performed as 10-15 repetitions followed by 2 minutes of rest, and repeated 3-4 times.*



ROTATOR CUFF STRENGTHENING

With the arm tucked close to the body, use rubber tubing to provide resistance to internal rotation of the arm. Turn around to use the tubing to provide resistance to external rotation of the arm. Alternatively, you may lie on your side and use small hand weights to provide external rotation resistance. *Do 10-15 repetitions, for 3-4 sets, for 3 days/week.*



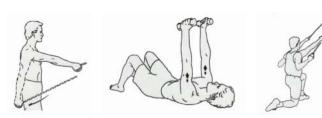
DELTOID STRENGTHENING With the arm tucked close to the body, use rubber tubing to provide resistance to forward punches. Turn around to use the tubing to provide resistance to pulling the arm. Do 10-15 repetitions, for 3-4 sets, for 3 days/ week.



DO NOT DO FULL-CAN OR EMPTY-CAN EXERCISES! These place too much stress on the rotator cuff.

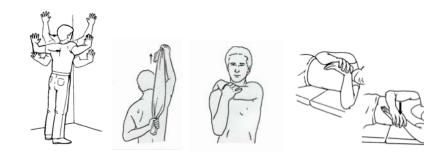


Resisted Exercises (18-22 Weeks after Surgery) These exercises include scapula strengthening and light stretching.



RESISTED SCAPULA STRENGTHENING

Scapula strengthening exercises include locked elbow extension to work the trapezius, press-up plus - reaching toward the ceiling to work the serratus. Rows may be done kneeling with elastic bands, and upright with a hand weight. *Like other strengthening exercises, each exercise should be performed as 10-15 repetitions, followed by 2 minutes of rest, and repeated as 3-4 sets.* Strengthening exercises should be done 3 days each week.



SHOULDER STRETCHING

Stretching should be done daily. Hold each stretch for 15 seconds, rest for 15 seconds, and repeat 5 times. The corner stretch will stretch the anterior shoulder. The towel stretch, cross - body stretch, and the sleeper stretch will stretch the posterior shoulder. Begin with gentle stretching. After 22 weeks, aggressive stretching may be used if needed.