



Arthroscopic Rotator Cuff Repair Postoperative Rehabilitation Protocol

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This protocol is meant to provide the patient and/or clinician with a guide to postoperative rehabilitation after an arthroscopic rotator cuff repair. For patients, it is not intended as a substitute for personal guidance or evaluation by your surgeon. For other clinicians, it is not intended to be a substitute for one's clinical decision making regarding the progression of a patient's post-operative course based on their physical exam/findings, individual progress, and/or the presence of postoperative complications. If a clinician requires assistance in the progression of a postoperative patient they should consult with Dr. Nelson.

Phase I – Immediate Post Surgical Phase (Weeks 1-4)

• Goals

- Maintain integrity of repair
- o Diminish pain, inflammation, and swelling
- o Prevent muscular inhibition and splinting
- o Independence with ADLs with modifications while maintaining the integrity of the repair.

Precautions

- o No active range of motion (AROM) of Shoulder
- o Maintain arm in sling at all times except bathing, dressing, and allowed exercises
- No lifting of objects
- No shoulder motion behind back
- o No excessive stretching or sudden movements
- o No supporting of body weight with operative arm
- Keep incisions clean
- o No repetitive, high frequency motions, including passive (e.g. hand-bike)

DAY 1 TO 6

- Sling with abduction pillow
- o Sleep in sling, head of bed elevated or in recliner
- o Begin 5x daily cervical range of motion on postoperative day 1
- o Begin 5x daily elbow range of motion and frequent power grips on postoperative day 1
- o Begin 5x daily scapular shrugs & squeezes on postoperative day 3
- Begin 5x daily Phase I Gliding Exercises on postoperative day 3
 - Video available at www.YouTube.com/@RaleighUpperExMD
- Cryotherapy for pain and inflammation
 - Day 1-5: as much as possible
 - After day 5: post activity, or for pain

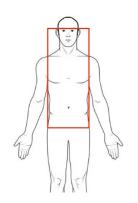
• DAY 7 TO 28:

- o Continue sling with abduction pillow
- May transition to sleeping fully supine, but must sleep with sling in place or with bolster under elbow to prevent passive shoulder extension
- o OK to begin pendulum exercises 21 days after surgery(no pendulums before this time)

Continue Phase I Gliding Exercises

Phase II – Protection Phase (Week 4-10)

- Goals
 - Facilitate continued soft tissue healing
 - o Maintain integrity of repair
 - o Gradually restore full passive ROM without overstressing healing tissue
 - o Decrease pain and inflammation
- Precautions
 - No lifting
 - No supporting of body weight by hands and arms
 - No excessive behind the back movements
 - No sudden jerking motions
 - o No ER past 90 degrees, No IR past torso, no active FE past 90 degrees
 - No high frequency or alternating cyclic motion, even if passive (e.g. hand-bikes) until
 5-6 months postoperative!
- WEEK 4-5
 - o Continue use of sling full time until end of week 4
 - At 4 weeks, OK to come out of sling while at HOME for gentle, waist level activities
 - Computer use
 - Writing
 - Eating & Drinking ("hand to mouth")
 - Hygeine & Dressing
 - No behind-the-back movements
 - Instruct patient on "catcher's box" concept (see diagram at left): not permitted to use hands outside rectangular space between beltline, face/mouth
 - Continue sling use when out of house
 - o Continue Phase I Gliding exercises to tolerance, encouraging supine position and higher degrees of flexion (past 90)
 - o Initiate progressive passive ROM until with goal at full passive ROM at 6 weeks
 - This ROM should be gentle & PAIN FREE
 - Gentle Scapular/glenohumeral joint mobilization as indicated to regain full passive ROM
 - o Continue cryotherapy as needed after therapy
 - May use heat prior to ROM exercises
 - o May use pool (aquatherapy) for light ROM exercises but must remain passive
- WEEK 6-8
 - o Discontinue sling completely at 6 weeks
 - Continue to observe all restrictions listed above for phase II
 - **Output Description Descri**
 - Video at www.Youtube.com/@RaleighUpperExMD
 - This is a supine exercise, stabilizes scapulothoracic joint, eliminates gravity at 90 degrees, engages pecs/lats/deltoid/traps, encourages and re-trains normal glenohumeral rythym without scapular substitution or trapezial over-activation
 - May begin active-assisted and progress to active as tolerated
 - Encourage frequent (5x daily) home performance
 - o Initiate gentle rotator cuff isometric exercises
 - o Initiate active ROM exercises in upright position once Phase II Motion exercises exhibit appropriate strength and rhythm
 - Shoulder flexion scapular plane



Shoulder abduction

Phase III – Intermediate phase (week 10-14)

- Goals
 - o Full AROM
 - o Maintain Full PROM
 - Dynamic Shoulder Stability
 - o Gradual restoration of shoulder strength, power, and endurance
 - o Optimize neuromuscular control
 - o Gradual return to functional activities
- Precautions
 - No heavy lifting
 - Nothing heavier than 5 lbs
 - Encourage "close to home" position (i.e., elbow flexed) for all lifting, regardless of weight
 - No sudden/explosive lifting or pushing activities
 - No sudden jerking motions
 - No high frequency or alternating cyclic motion, even if passive (e.g. hand-bikes) until 5-6 months postoperative!
- WEEK 10
 - o Continue stretching and passive ROM (as needed)
 - Dynamic stabilization exercises
 - o Initiate strengthening program, smooth controlled motion, low repetition
 - External rotation (ER)/Internal rotation (IR) with therabands/sport cord/tubing
 - ER Sidelying
 - Lateral Raises
 - Full Can in Scapular Plane
 - Avoid empty can abduction exercises at all times
 - Prone Rowing
 - Prone Horizontal Abduction
 - Prone Extension
 - Elbow Flexion & Extension
 - Patient must be able to elevate arm without shoulder or scapular hiking before initiating isotonics; if unable, continue glenohumeral joint exercises
- WEEK 12
 - o Continue all exercise listed above
 - o May gradually initiate higher-demand patient-specific functional activities
- WEEK 14
 - o Continue all exercise listed above
 - Progress to fundamental shoulder exercises
 - No high frequency or alternating cyclic motion, even if passive (e.g. hand-bikes) until
 5-6 months postoperative!

Phase IV – Advanced strengthening phase (week 16-22)

- Goals
 - Maintain full non-painful active ROM
 - o Advanced conditioning exercises for enhanced functional use of UE
 - o Continue to improve muscular strength, power, and endurance
 - Return to full functional activities
- WEEK 16
 - o Continue ROM and self-capsular stretching for ROM maintenance

- o Continue progression of strengthening
- o Advanced proprioceptive, neuromuscular activities
- WEEK 20
 - o Continue all exercises listed above
 - o Continue to perform ROM stretching, if motion is not complete
 - o Higher frequency or alternating cyclic motion (e.g. hand-bike) OK

Phase V – Return to activity phase (week 20-26)

- Goals
 - o Gradual return to strenuous work activities
 - o Gradual return to recreational activities
 - o Gradual return to sport activities

To obtain further copies of this protocol, please visit www.RaleighUpperEx.com