



Postoperative Rehabilitation Protocol for Posterior Labral Repair

*Patient will wear an abduction pillow sling for 6 weeks postoperatively

*Unless otherwise specified, do not begin PT until patient has been seen for 2-week postoperative visit

Postoperative weeks 0-4

- Goals
 - o Increase PROM
 - o Control pain with modalities PRN
- Precautions
 - Wear sling at all times except during physical therapy and home exercises
 - o Keep arm in front of body when out of sling. Do **not** reach the arm behind the back
- Range of Motion
 - Flexion to 60°
 - Extension to neutral (0°)
 - Abduction to 90°
 - External rotator to 45°
 - Internal rotator to neutral with arm at side (0°)
- Strengthening
 - Scapular strengthening exercises (shrugs, protraction, retraction, depression, etc.)
 - Shoulder sub-maximal (pain free) isometrics with sling in all directions: flexion, extension, abduction, adduction, internal rotation, and external rotation.
 - Cervical ROM (chin tucks)
 - Wrist and hand exercises with light resistance, if appropriate
- Home instructions
 - Continue to write or type with operative hand while in sling
 - No lifting with operative shoulder
 - o Do not support bodyweight with operative shoulder
 - Do not reach the operative arm behind the back

Postoperative weeks 4-6

- Goals
 - o Increase PROM
 - o Begin AAROM
 - o Begin shoulder strengthening exercises
 - Modalities PRN
- Precautions
 - Continue to wear sling daily except during home exercises and physical therapy. May discontinue sling use at night while sleeping but avoid internal rotation
 - o Do not reach behind the back
- Range of Motion
 - o Passive ROM with pulleys or other assistive device
 - Flexion to 90°

- Abduction to full as tolerated
- Extension to 30°
- ER to 45° with the arm abduction to 90°
- ER to full as tolerated with arm at side
- IR to 30° with arm abduction to 90°
- AAROM with wand or other assistive device (standing or supine)
 - Wall-walks in flexion and abduction
- Strengthening
 - Continue scapular strengthening exercises
 - o Continue isometrics in all directions
 - o Begin light Theraband exercises for ER strengthening with elbow at the side
- Home Instructions
 - O No lifting, pulling, or pushing greater than 2lbs
 - o No overhead work or repetitive motions with the shoulder

Postoperative weeks 6-8

- Goals
 - Advance ROM
 - o Advance strengthening exercises with resistance
 - Begin neuromuscular control exercises
- Precautions
 - Discontinue sling at 6 weeks post-op
 - Limit IR to 45° until 12 weeks post-op
- Range of Motion
 - Advance AROM to full as tolerated (except IR)
 - Limit IR to 45° with both the arm at side and abducted to 90°
 - Regain normal glenohumeral-scapular 2:1 motion
- Strengthening
 - o Advance shoulder strengthening exercises to include UBE and wall push-ups
 - Isotonic rotator cuff strengthening (progress resistance as tolerated up to 6-8lbs.)
 - Standing flexion, extension, abduction, and scaption with thumb down with dumbbells or Therabands
 - Standing IR and ER with Theraband with arm abducted 25° at side (with pillow or towel)
 - Advance scapular strengthening exercises
 - Begin neuromuscular control exercises
 - D1 and D2 PNF patterns with no more than 3lbs
- Home instructions
 - o No lifting, pulling, or pushing greater than 5lbs
 - No overhead work or repetitive motions with the shoulder

Postoperative weeks 8-10

- Goals
 - Advance to full ROM (except for IR)
 - Advance shoulder strengthening exercises
 - Advance neuromuscular control exercises
- Precautions
 - Limit IR to 45° until 12 weeks post-op
- Range of Motion

- Full active ROM as tolerated (except IR)
 - Limit IR to 45° with both the arm at side and abducted to 90°

Strengthening

- Continue scapular strengthening and isotonic rotator cuff strengthening exercises until full ROM is restored
- Continue dumbbell exercises
 - Prone scaption with thumb up and thumb down
 - Prone horizontal abduction with thumb up and thumb down
 - Prone extension
- Continue neuromuscular exercises
 - Supine dynamic/rhythmic stabilization in 90° flexion and 90° abduction with manual resistance
 - Body blade or other perturbation device in 90° flexion and 90° abduction
- o Isokinetic strengthening with 60° block:
 - Speeds of 180°, 150°, 120°, 90°, and 60°/second (8-10 reps at each speed)
- Home Instructions
 - No lifting, pulling, or pushing greater than 7lbs
 - No overhead work or repetitive motions with the shoulder

Postoperative weeks 10-12

- Goals
 - o Advance to full ROM in all directions at 12 weeks post-op
 - Advance strengthening exercises and begin traditional weight training with machines and free weights
- Precautions
 - o Limit IR to 45° until 12 weeks post-op
- Range of Motion
 - Advance IR to full at 12 weeks post-op
 - o Continue to advance full ROM in all other directions as needed
- Strengthening
 - Advance rotator cuff strengthening exercises with weights 8-10lbs in all directions
 - o Advance neuromuscular control exercises in D1 and D2 patterns with manual resistance
 - Standing dynamic/rhythmic stabilization in 90° flexion and 90° abduction with ball against wall and manual resistance
 - o Continue isokinetic strengthening above, advancing to 15 reps at each speed
 - For throwing athletes: begin thrower specific strengthening program (Thrower's 10 program)
- Home Instructions
 - No lifting, pulling, or pushing greater than 10lbs
 - o No overhead work or repetitive motions with the shoulder

Postoperative weeks 12-14

- Goals
 - Restore and maintain full ROM in all directions
 - Advance strengthening and neuromuscular control
- Strengthening
 - Continue therapeutic exercises above
 - o Rotator cuff strengthening exercises with eccentric manual resistance
 - Advance PNF D1 and D2 pattern exercises with manual resistance

- o Advance isokinetic strengthening to full ROM
- o Begin traditional weight training with machines
 - Progress to free weight use as tolerated
- Throwing athletes continue thrower's 10 exercises
- Home Instructions
 - No lifting, pulling, or pushing greater than 15lbs. Progress as tolerated (3-5lbs per week)
 - Start progression to overhead work

Thrower's Progression Beyond 14 Weeks:

Postoperative weeks 14-16

- Throwing Progression
 - Light tennis ball tossing at 60% velocity for 20-30 feet max
 - Focus on throwing mechanics: wind up, early cocking, late cocking, acceleration, and follow through
- Strengthening
 - Continue weight training progression and therapeutic exercises above
 - o Begin isokinetic exercises at higher speeds (240°, 270°, 300°, 330°, 360°/ second)

Postoperative weeks 16-24

For throwing athletes: perform isokinetic testing below (if available). If passes test, begin interval throwing program. Re-test monthly until passed

- Isokinetic Testing Protocol
 - o Patient is seated
 - Test uninvolved shoulder first
 - Position: shoulder in scapular plane at 90° abduction and 30° flexion, with dynamometer at 0° tilt and 90° rotation
 - Use 3 sub-max reps and 3 max reps for warm up
 - Do 6 reps at 60°/second, then 12 reps at 300°/second (allowing at least one minute of rest between test speeds)
- Scores equal to or greater that the following are considered passing:
 - ER/IR unilateral ratio: 70%
 - o ER bilateral ratio: 98%
 - o IR bilateral ratio: 105%
 - o ER peak torque/BW ratio: 18%
- Return to Sport Criteria
 - Pass strength test
 - Completed throwing program
 - No pain with activity
 - Surgeon clearance has been obtained
 - No less than 5 months post-op for return to contact sports