



Brian Bjerke, MD

Rotator Cuff Repair with Biceps Tenotomy/Tenodesis

Post-Operative Protocol

Phase I – Maximum Protection (Weeks 0 to 6):

- Goals:
 - Reduce inflammation
 - Decrease pain
 - Postural education
 - PROM as instructed

- Restrictions/Exercise Progression:
 - Sling for 6 weeks per Dr. Bjerke's instructions
 - Patients will be placed into an UltraSling post-operative (sling with the pillow)
 - Ice and modalities to reduce pain and inflammation
 - Cervical ROM and basic deep neck flexor activation (chin tucks)
 - Instruction on proper head, neck and shoulder alignment
 - Active hand and wrist ROM
 - Passive biceps x6 weeks (AAROM; no tenotomy or tenodesis)
 - Active shoulder retraction
 - Shoulder PROM progression
 - No motion x2 weeks
 - Passive flexion 0°-90° from weeks 2-4, then full
 - External rotation 0°-30° from weeks 2-4, then full
 - Avoid internal rotation (thumb up back) until 8 weeks post-op
 - Encourage walks and low intensity cardiovascular exercises to promote healing

- Manual Intervention:
 - Soft tissue massage- global shoulder and CT junction
 - Scar tissue mobilization when incisions are healed
 - Graded GH mobilizations
 - ST mobilizations

Phase II – Progressive Stretching and Active ROM (Weeks 6 to 8):

- Goals:

- Discontinue sling as instructed
- Postural education
- Focus on posterior chain strengthening
- Begin AROM
- PROM/AAROM:
 - Flexion 150°+
 - 30°-50° ER @ 0 abduction
 - 45°-70° ER at 70-90 abduction
 -
- Exercise Progression:
 - Progress to full range of motion flexion and external rotation as tolerated
 - Use a combination of wand, pulleys, wall walks or table slides to ensure compliance.
 - Gradual introduction to internal rotation shoulder extensions (stick off back)
 - Serratus activation; ceiling punch (weight of arm) may initially need assistance
 - Scapular strengthening – prone scapular series (rows and I's)
 - Emphasize scapular strengthening under 90°
 - External rotation on side (no resistance)
 - Gentle therapist directed CR, RS and perturbations to achieve ROM goals
 - Cervical ROM as needed to maintain full mobility
 - DNF and proper postural positioning with all RC/SS exercises
 - Low to moderate cardiovascular work
 - May add elliptical but no running
- Manual Intervention:
 - Soft tissue mobilization- global shoulder and CT junction
 - Scar tissue mobilization
 - Graded GH mobilization
 - ST mobilization
 - Gentle CR/RS for ROM while respecting repaired tissue

Phase III –Strengthening Phase (Weeks 8 to 12):

- Goals:
 - 90% passive ROM, 80-90% AROM by 12 weeks
 - Larger tears and patients with poor tissue quality will progress more slowly
 - Normalize GH/ST arthro-kinematics
 - Activate RC/SS with isometric and isotonic progression
 - Continue to emphasize posterior chain strengthening but introduce anterior shoulder loading
- Exercise Progression:
 - Passive and active program pushing for full flexion and external rotation

- Continue with stick off the back progressing to internal rotation with thumb up back and sleeper stretch
- Add resistance to ceiling punch
- Sub-maximal rotator cuff isometrics (no pain)
- Advance prone series to include T's
- Add rows with weights or bands
- Supine chest-fly's providing both strength and active anterior shoulder stretch
- Supine (adding weight as tolerated) progressing to standing PNF patterns
- Seated active ER at 90/90
- Biceps and triceps PRE
- Scaption; normalize ST arthrokinematics
- 10 weeks; add quadruped or counter weight shift
 - Therapist directed RS and perturbations in quadruped – bilateral progressing to unilateral-tri pod position
- Manual Intervention:
 - STM and Joint mobilization to CT junction, GHJ and STJ as needed
 - CR/RS to gain ROM while respecting repaired tissue
 - Manual perturbations
 - PNF patterns

Phase IV – Advance Strengthening and Plyometric Drills:

PRE/PSE (Weeks 12-20)

- Full range of motion all planes – emphasize terminal stretching with cross arm, TUB, triceps, TV, sleeper and door/pec stretch
- Begin strengthening at or above 90° with prone or standing Y's, D2 flexion pattern and 90/90 as scapular control and ROM permit
 - Patient health, physical condition and goals/objective will determine if strengthening above 90° is appropriate
- Add lat pulls to gym strengthening program; very gradual progression with pressing and overhead activity
- Continue with closed chain quadruped perturbations; add open chain as strength permits
- Progress closed kinetic chain program to include push-up progression beginning with counter, knee then – gradual progression to full as appropriate
- Initiate plyometric and rebounder drills as appropriate

Return to Sports Program (Weeks 20-24):

- Continue to progress RC and scapular strengthening program as outlined
- Advance gym strengthening program
- RTS testing for interval programs (golf, tennis etc.) using microfet dynamometer
- Follow-up examination with the physician (6 months) for release to full activity

- Manual Intervention:
 - STM and Joint mobilization to CT junction, GHJ and STJ as needed
 - CR/RS to gain ROM while respecting repaired tissue
 - Manual perturbations
 - PNF patterns

*Please feel free to contact Dr. Brian Bjerke's office with any questions or concerns. Dr. Bjerke's care coordinator Andria Larson is available by phone at 952-456-7095.