Altru Advanced Orthopedics

Arthroscopic Anterior Capsulorrhaphy/Bankart Repair Protocols

The intent of this protocol is to provide the therapist with a guideline for the post-op rehab of a patient who has had an arthroscopic anterior capsulorrhaphy/Bankart repair for shoulder instability. It is not intended to be a substitute for appropriate clinical decision making regarding the progression of a patient's rehab. The actual therapy plan of care must be based on the mechanism of injury, surgical approach, physical exam and findings, individual progress, any post-op complications, and/or co-morbidities. If a therapist needs assistance or has questions regarding the progression of a patient post surgically they should consult the referring surgeon.

- If associated **biceps tenodesis** follow biceps precautions:
 - No passive or active abduction or 90/90 ER until 4 weeks
 - No resisted elbow flexion and forearm supination for 6 weeks
 - o Gradual progression of AROM to strengthening after 6 weeks post-op

PHASE I: Weeks 0-3

Precautions:

- No ER past 30° for 6 weeks.
- Avoid abduction and ER activity to avoid anterior inferior capsule stress
- No lifting with operative shoulder

Goals:

- Maintain ROM of uninvolved joints
- Decrease pain and inflammation
- 90° of flexion by 4 weeks

Immobilization:

- Sling for 4-6 weeks post-op
- Exceptions: dressing, showering, exercises as instructed by PT, occasional keyboard work

- 1. PROM
 - Flexion: Progress 30°/week, to a max of 90° by 4 weeks
 - Scaption to 30-60°
 - ER/IR with arm in neutral to 20° abduction
 - ER to 5-10°
 - IR to 45°
 - Pendulum: emphasize passive motion
- 2. AAROM (start at 2 weeks post-op)

- Flexion: progress 30°/week, to a max of 90° by 4 weeks
- No active ER, extension, abduction, or scaption
- 3. AROM: Initiate when scapular control is good
 - Flexion up to 90° by 4 weeks
 - Maintain full AROM of elbow, wrist, hand
 - Small movement PNF of scapula
- 4. Isometrics: submaximal, neutral position ER, abduction, flexion, extension
 - IR and adduction begin at 6 weeks
 - Working up to 30 reps as tolerated
- 5. By week 2-3: pain free scapular motion, with emphasis on thoracic extension to facilitate scapular retraction and depression
- 6. Axially loaded exercises such as ball rolls on table

Modalities:

- Cryotherapy PRN
- NMES PRN

Goals to Achieve for ROM by 3-4 weeks post-op:

Flexion	0-90°
Scaption	0-60°
Abduction	0-45°
ER at 0° to 20° of ABD	0-10°
IR at 0° to 20° of ABD	0-45°

PHASE II: 4-6 Weeks

Precautions:

- No ER past 30° for 6 weeks
- No lifting with operative shoulder

Goals:

- Maintain ROM of uninvolved joints
- Gradually restore full PROM of shoulder
- Gradually increase strength

Immobilization:

D/C sling at 4 weeks post-op

- 2. PROM
 - Progress flexion to 140-150°

- Progress ER up to 30° by 6 weeks in neutral to 45° of abduction
- 3. AAROM/AROM
 - Progress flexion to 150° with good scapular control
 - Progress ER up to 30° by 6 weeks
- 4. Strengthening
 - Isometrics: submaximal, neutral position IR and adduction begin at 6 weeks
 - Working up to 30 reps as tolerated
 - Short arc flex and abduction 0-45°
 - Start supine or reclined and progress to seated and standing
 - Extension: 0-45°
 - Bicep/tricep isometrics, progress to isotonic
 - IR/ER from sling position to neutral
 - Begin with light Therabands/tubing
- 5. Closed chain rhythmic stabilization, weight shifts, balance devices, push-ups, etc.
 - Progress elevation as tolerated in recommended ROM

Modalities:

- Cryotherapy PRN
- NMES PRN

Goals to Achieve for ROM by 5-6 weeks post-op:

Flexion	0-150°
Scaption	As tolerated
Abduction	As tolerated
ER at 0° to 45° of ABD	0-30°
IR at 0° to 45° of ABD	As tolerated
Extension	0-45°

PHASE III: Weeks 7-9

Precautions:

• Avoid strengthening activities that place stress on anterior shoulder in abducted position with ER (no push-ups, pec flys, bench-press ext.)

Goals:

- Patient will have full AROM with good scapulohumeral rhythm
- Continue with stretching as needed
- Independent with ADLs
- Progress strength and endurance

- 1. ROM
 - Gradually progress PROM AROM to full

- ER should be within 10-15° of opposite side (may not achieve full AROM)
- 2. Stretching
 - Posterior capsule stretches
 - Sleeper posterior capsular stretch for IR deficit
 - Pec stretching
- 3. Strengthening
 - Gradually progress IR and ER isotonic strengthening
 - PNF strengthening
 - UBE at 7 weeks- low resistance at a comfortable pace
 - May allow beginning level plyoball below shoulder height at 5-10 weeks, 2-1 hands
- 4. Advance closed chain activities as tolerated

Modalities:

- Cryotherapy PRN
- NMES PRN

PHASE IV: Weeks 10-14

Precautions:

- Avoid strengthening activities that place stress on anterior shoulder in abducted position with ER (no push-ups, pec flys, bench-press, lat pull bringing bar behind head, etc.)
- Avoid stressing the anterior capsule with aggressive overhead strengthening
- Avoid contact sports/activities

Goals:

- Full nonpainful AROM
- Improve muscle strength and endurance
- Gradually progress activities towards full functional activities

- 1. ROM
 - Shoulder flexion to 160-180°
 - Shoulder ER 80-90° in 90° of abduction
 - ½ of normal side by 12 weeks post op
 - Unless dominant arm in a throwing athlete, then more ER is allowed
 - Shoulder IR 75-85° in 90° of abduction
- 2. Stretching:
 - Sleeper posterior capsular stretch for IR deficit
 - ER stretch at 10 weeks
- 3. Initiate strength exercise for abduction, supraspinatus
- 4. In front of body, below shoulder height, in 0° ER:
 - Light medicine ball

- Wall dribble 2 hands to 1 hand
- ER wall dribble
- 5. Rhythmic stabilization closed chain with hand on ball progressing to open chain activities in multiple planes of movement
- 6. Jog at 12 weeks

PHASE V: Weeks 15-18

Precautions:

- Avoid strengthening activities that place stress on anterior shoulder in abducted position with ER
 - No pec/dumbbell flys bringing arm past neutral extension at the shoulder
 - No bench-press with bringing the bar down to your chest
 - No lat pull downs bringing bar behind head
- Avoid stressing the anterior capsule with aggressive overhead strengthening
- No throwing or overhead athletic activities until 16 weeks post-op

Goals:

- Maintain full nonpainful AROM
- Improve strength, endurance, and power
- Progress toward return to work activities, recreational activities, sport activities

Therapeutic Exercise:

- 1. ROM
 - Continue stretching exercises to maintain full ROM/flexibility
- 2. Progress strengthening
 - Free weights (limit depth of bench press to elbows not moving back past trunk, avoid behind neck presses and pull downs)
 - Plyometric strengthening: weighted ball Rebounder throws
 - Closed Chain Activities: table push-ups, quadruped rhythmic stabilization, steps on block
- 3. Recreational and Sport Activities:
 - Ball toss
 - Gentle swimming program
 - Racquet swings
 - Half golf swings

PHASE VI: 18 WEEKS - 6 Months

Precautions:

- Avoid strengthening activities that place stress on anterior shoulder in abducted position with ER
 - No pec/dumbbell flys bringing arm past neutral extension at the shoulder
 - No bench-press with bringing the bar down to your chest
 - No lat pull downs bringing bar behind head

- Avoid stressing the anterior capsule with aggressive overhead strengthening
- Caution with throwing or overhead athletic activities

Goals:

- Maintain shoulder mobility
- Improve strength, endurance and power
- Gradual return to work activities, recreational activities, sport activities

Therapeutic Exercise:

- 1. ROM
 - Continue stretching/flexibility exercises
- Strengthening
 - Isokinetics ER/IR (90/90 positioning)
 - Free weights
 - Progress scapular and RTC core exercises
 - Sport/work specific activities
- Recreational/Sport Activities
 - Begin interval throwing program
 - Racquet and club swings
 - Begin contact and collision sports

PHASE VII: 6+ Months

Precautions:

- Use caution with strengthening activities that place stress on anterior shoulder in abducted position with ER
 - Avoid pec/dumbbell flys bringing arm past neutral extension at the shoulder
 - Avoid bench-press with bringing the bar down to your chest
 - Avoid lat pull downs bringing bar behind head
 - Avoid lateral raise machine and standing lateral deltoid raises
 - Avoid dips and triceps press overhead
 - Avoid pullovers

Goals:

- Return to full function
- Return to all work activities, recreational activities, sport activities
- Maintain strength, mobility, and stability

Therapeutic Exercise:

- 1. Strength:
 - Unlimited weight lifting with exceptions (listed above)
- 2. Contact and collision sports if cleared by your surgeon

Criteria to return to recreational and sport activities:

- Surgeon permission
- Pain free shoulder function without instability
- Adequate ROM for activity
- Full strength vs opposite UE