Altru Advanced Orthopedics Arthroscopic Superior Labral (SLAP) Repair Protocol

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 superior labral (SLAP) repair. 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.

PHASE I: Weeks 0-6

Precautions:

- No lifting of objects, no functional use of affected hand, no driving
- Minimal computer work, 15-20 minutes and no more than 2 hours total (affected arm must be in a sling)
- No extension or horizontal abduction beyond body for 4 weeks
- Protection of the biceps for 6-8 weeks (avoiding shoulder flex with elbow fully extended, no resisted supination or elbow flex)
- Limit ER to 40° in neutral for 4 weeks, avoid abduction with ER for 6 weeks
- No closed chain positions

Goals:

- Maintain integrity of the reconstruction
- Re-establish nonpainful ROM
- Decrease pain and inflammation
- Activate stabilizing muscles

Immobilization:

- Sling with pillow for 4-6 weeks
 - Sling may be removed for exercises as instructed and bathing/hygiene

Therapeutic Exercise:

0-2 Weeks:

- 1. AAROM-AROM elbow, wrist, and hand
- 2. Hand-grip exercises
- 3. PROM
 - o Flex, scaption, abduction, IR, and ER within limits
 - Pendulum exercises
- 4. AAROM
 - Flex and scaption to 60-75° by week 2
 - $\circ~$ ER/IR in scapular plane, ER to 10-15°, IR to 45°

- 5. Strengthening
 - Submaximal painfree, shoulder isometrics
 - Neutral position ER, IR, abduction, flexion, extension, adduction
 - Scapular exercises
 - Scapular retraction, protraction, depression
- 6. No isolated biceps contraction
- 7. No active ER, extension, or elevation

3-4 Weeks:

- 1. PROM/AAROM- with wand/cane or assist of opposite UE
 - Progression as tolerated by patient:
 - Flexion and scaption to 90°
 - Abduction to 75-85°
 - ER in scapular plane to 25-30°
 - IR in scapular plane to 55-60°
- 2. Strengthening
 - Rhythmic stabilization within limits above
- 3. No active ER, extension, or elevation

5-6 Weeks:

*D/C sling at 6 weeks post-op, use sling in crowds or at night as needed after 6 weeks.

- 1. PROM/AAROM
 - \circ Flexion to 150°
 - ER at 45° of abduction to 45-50°
 - Progress to light ROM at 90° of abduction
 - IR at 45° of abduction to 55-60°
 - Progress to light ROM at 90° of abduction
- 2. Begin AROM of shoulder, all planes, with good mechanics
 - Short arc flex and abduction 0-45°
 - Extension 0-45°
 - Elbow extension, elbow flex at 6 weeks (no biceps strengthening)
- 3. Begin gentle stretching exercises as needed
- 4. Strengthening:
 - PNF with manual resistance
 - Prone periscapular exercises (Y, T, W, I)
 - Band/tubing for ER/IR at 0° of abduction
 - Closed chain rhythmic stabilization, weight shifts, balance, progressing elevation as tolerated.
- 5. Walking/stationary bike with sling on
- 6. No swimming or running

Modalities:

- Cryotherapy as needed
- Electrical Stimulation as needed

Manual Therapy:

• Joint, capsule, soft tissue mobilization as needed

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

Flexion/scaption	0-150°
Abduction	0-85°
ER at 0° to 45° ABD	0-50°
IR at 0° to 45° ABD	0-60°

PHASE II: Weeks 7-12

Precautions:

- No heavy lifting of objects
- No supporting of body weight by hands and arms
- No sudden jerking motions
- Gradual initiation of biceps strengthening 7-8 weeks
- No PROM for combined abduction with ER or extension

Goals:

- Full nonpainful AROM with good scapulohumeral rhythm
- Full rotator cuff strength in neutral
- Improve neuromuscular control and proprioception
- Return to ADL activities

Therapeutic Exercise:

7-9 Weeks:

- 1. Continue with exercises in phase I as needed
- 2. Progress PROM/AAROM/AROM all directions, as tolerated
 - Flexion, scaption, abduction to 180°
 - ER at 90° abduction to 90-95°
 - IR at 90° abduction to 70-75°
 - Extension to tolerance
- 3. Strengthening:
 - Initiate an isotonic rotator cuff, periscapular, and shoulder strengthening program
 - Continue PNF strengthening
 - Initiate Thrower's Ten Program
 - UBE at 7 weeks
 - Beginning level plyoball below shoulder height bilat-bilat progressing to single hand, wall dribble, Rebounder toss

10-12 Weeks:

- 1. Continue stretching exercises
 - Sleeper posterior capsule stretch for IR deficit
 - IR 85° in 90° of abduction
 - Progress ROM for functional demands (overhead athlete/worker)
 - ER at 90° of abduction: 110-115° for throwers (weeks 10-12)
- 2. Strengthening:
 - Continue all strengthening exercises
 - Progress isotonic strengthening
 - Progress ER to thrower's motion
 - Rhythmic Stabilization: closed chain with hand on a ball progressing to open chain in multiple planes of movement
 - Plyometrics: below shoulder height
 - Wall dribble- 2-1 hands, ER wall dribble, Rebounder
- 3. Jog at 12 weeks

Modalities:

- Cryotherapy as needed
- NMES as needed

Manual Therapy:

• Joint, capsule, soft tissue mobilization as needed

Criteria to enter PHASE III:

- Full nonpainful AROM
- Good stability
- Strength grade good or better
- No pain or tenderness

PHASE III: Weeks 13-20

Precautions:

- Caution with butterfly strokes, and other stressful strokes when swimming
- 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

Goals:

- Establish and maintain full PROM and AROM
- Improve muscle strength, power, and endurance
- Gradually initiate functional activities

Therapeutic Exercise:

13-16 Weeks:

- 1. Continue stretching exercises
 - Capsular stretches
 - Maintain thrower's motion
- 2. Strengthening:
 - Initiate biceps and supination resisted exercises
 - Continue all strengthening exercises
 - Thrower's Ten or fundamental exercises
 - Endurance training
 - Progress plyometric program
 - Progress closed chain activities for proprioception, neuromuscular re-ed
- 3. Light swimming-half speed, half golf swings, throwing, racquet swings- ground strokes

17-20 Weeks:

- 1. Continue all stretching exercises
- 2. Continue to progress all strengthening exercises
- 3. Continue Thrower's program
- 4. Continue plyometric program
- 5. May initiate interval sport program (throwing, racquet swings, golf swings, swimming etc) as well as work specific activities

Modalities:

- Cryotherapy as needed
- NMES as needed

Manual Therapy:

• Joint, capsule, soft tissue mobilization as needed

Criteria to enter PHASE IV:

- Full nonpainful AROM
- Good stability
- Strength 75-80% of contralateral side
- No pain or tenderness

PHASE IV: Weeks 20-26

Precautions:

- Caution with butterfly strokes, and other stressful strokes when swimming
- 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

Goals:

- Maintain shoulder mobility
- Enhance muscle strength, power, and endurance

Progress functional activities

Therapeutic Exercise:

- 1. Continue flexibility exercises
- 2. Continue to progress isotonic strengthening program Scapular and RTC core exercises
- 3. Progress plyometric strengthening
- 4. Progress interval sport/work programs

Criteria to enter PHASE V:

- Full functional AROM
- Good shoulder stability
- Strength 75-80% or better of contralateral side
- No pain or tenderness

PHASE IV: Weeks 27-6 months

Precautions:

- Caution with butterfly strokes, and other stressful strokes when swimming
- 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

Goals:

- Maintain shoulder mobility, stability, and strength
- Gradual return to sport and work activities

Therapeutic Exercise:

- 1. Gradually progress sport and work activities to unrestricted participation Including contact and collision sports
- 2. Continue stretching and strengthening program