# Rehabilitation Following Open/Arthroscopic Biceps Tenodesis

**Precautions:** No heavy object lifting overhead

No jerking movements

Do not use affected shoulder in sitting or rising

No isolated biceps for 8 weeks

# I. Immediate Motion Phase (0-2 weeks)

Goals: Re-establish non-painful ROM

Retard muscular atrophy

Re-establish dynamic stabilization Decrease pain/inflammation

## Week One

### Range of Motion:

- Pendulums
- Rope and pulley (non-painful arc of motion)
- L-bar exercises (Elevation in scapular plane and ER/IR beginning at 30 degrees abduction and progressing to 45 degrees abduction

## Strengthening exercises:

- · Isometrics-flexion, abduction, ER, IR
- Rhythmic stabilization exercises (ER/IR and extension)

#### Decrease pain/inflammation:

Ice, NSAIDS, modalities

#### **Week Two**

- · Continue all Rom exercises
- May initiate heat prior to exercise
- Initiate ER/IR with L-bar at 45 degrees abduction
- Progress elevation to ~145 flexion
- Progress isometrics
- Initiate ER/IR tubing at 0 degrees abduction

## II. Immediate Phase (Week 3-6)

Goals: Regain and improve muscular strength

Normalize arthrokinematics

Improve neuromuscular control of the shoulder complex

Diminish pain

Criteria to progress to Phase II:

Full ROM

Minimal pain and tenderness Good MMT or IR, ER, flexion



## Week 3-4:

#### Exercises:

- Initiate isotonic program (no weight)
- Shoulder elevation
- Prone rowing
- Prone horizontal abduction
- Sidelying ER
- Shoulder abduction to 90 degrees
- Shoulder extension to neutral
- After one week, provided patient has no pain and proper form, initiate exercise with 1 pound weight
- Normalize arthrokinematics of shoulder complex
  Options I have BOM
  - Continue L-bar ROM
- Elevation in scapular plane
- ER/IR at 90 degrees abduction
  - Joint mobilization: Inferior, posterior and anterior glides

#### Decrease pain and inflammation:

- · Continue use of modalities, ice as needed
- May use heat prior to exercise program

## Week 4-5: Progress to fundamental shoulder exercise program

## III. Dynamic Strengthening Phase (Week 6-12)

Goals: Improve strength/power/endurance Improve neuromuscular control Prepare athlete to return to sport

Criteria to progress to Phase III

Full non-painful TOM No pain or tenderness

Strength 70% compared to contralateral side

## Week 6-8

#### Exercises:

- Continue isotonic program fundamental shoulder
- Progress strengthening exercises
- Continue neuromuscular control exercises for scapular muscles
- Continue endurance exercises

## Week 10-12

- Continue all exercises
- Initiate plyometric activities (2 hand chest pass, side to side throws, soccer throws) (wk 12)
- Initiate isolated biceps isometrics (week 8)
- Initiate light biceps curls (couple weights) (week 10-12)



## IV. Return to Activity Phase (14-22)

Goals: Progressively increase activities to prepare for full functional return

Criteria to progress to Phase IV

Full ROM

No pain or tenderness

Satisfactory muscular strength

Satisfactory clinical exam

## Exercises:

- Continue ROM and strengthening program
- Continue self capsular stretches as needed
- Continue fundamental shoulder exercise program
- Initiate biceps isotonics
- Initiate one hand plyometric drills (wall dribbles, baseball throws, shovel throws)
- Continue or initiate interval sports program
- Gradually return to overhead activities i.e. sports