

## **GUIDELINES FOR BICEPS TENODESIS REHABILITATION**

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Each case can be very different depending on the goals of the patient, the age of the patient, quality of the tissue. the size of the repair, type of repair, etc. We follow these basic guidelines. Any physician-indicated precautions override these guidelines.

### **Week 1-4**

- ◆ Sling 3 weeks
  - No active upper extremity open chain rotation or abduction. Flexion, as tolerated, up to 60°
  - Sleep in sling for 3 weeks
  - Exercises emphasize standing scapular motion, retraction, depression and scapular PNF with arm in a sling
  - Use complementary trunk movement to facilitate scapular motion (flex and rotate away from involved side for protraction, extend and square or rotate toward involved side for retraction)
  - Closed Kinetic Chain rotator cuff and scapular exercises such as weight-shifting, wobble boards, and gentle stabilization
  - Towel slides on a table as tolerated
  - Passive and Active-Assisted ROM – with arm at trunk; external rotation is permitted from internal positioning to 0° external rotation
  - Active elbow flexion permitted to 90° however, NO biceps loading for 8 weeks.
- ◆ After 3 weeks:
  - PROM, AAROM, progress to AROM
  - Continue CKC rotator cuff stabilization and scapular exercises, increasing arm elevation up to 90° and gradually increase external rotation in neutral
  - Add tolerable arm motion to standing scapular motion exercises
  - Facilitate active arm elevation through axial loading of the glenohumeral joint (patient pushes on a table or wall as he/she elevates in the desired plane)
- ◆ At 4 weeks, initiation of gentle mobilizations and capsular stretching, if indicated
  - These can become more aggressive at 6-8 weeks

### **Week 4-8**

- ◆ Exercises should progress toward functional activities as ROM and strength improve
- ◆ Open chain rotator cuff strengthening when there is good scapular control and begin at < 90° elevation
  - We prefer rotator cuff loading that is consistent with function, including scapular and trunk motion, rather than isolated exercise
  - These include punches at various (tolerable) heights and planes, and adding arm elevation, rotation and extension of the lever arm to the complementary scapular exercises

### **Week 8**

- You may begin gentle loading of the biceps with daily activities. Begin with nothing more than 1 pound and progress as tolerated. This should not be painful.

## EXAMPLE EXERCISES FOR FUNCTIONAL SHOULDER REHABILITATION

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### **SCAPULAR CONTROL**

When: Beginning of therapeutic exercise through the end of rehabilitation, may begin without glenohumeral motion or arm elevation, introduction of glenohumeral motion and arm elevation once indicated and scapular control increases

Goals: Facilitate scapular motion and scapular re-education, strengthen scapular musculature in functional movement patterns

Sample Exercises: Trunk diagonals, sternal lifts, shoulder dumps (incorporates glenohumeral elevation and external rotation), tubing fencing, dumbbell or tubing punch/pull, modified dumbbell "cleans"

### **CLOSED KINETIC CHAIN**

When: Begin at the onset of therapeutic exercise and continue throughout the program

Goals: Stimulate pain-free co-contractions of the rotator cuff, scapular musculature independently and in coordination; promote glenohumeral compression and dynamic stabilization

Sample Exercises: Weight-shifting on a fixed hand, ball stabilization in appropriate plane and degree of elevation, various levels of push-ups, scapular PNF with UE fixed at 12/6 o'clock and 3/9 o'clock

### **AXIALLY LOADED EXERCISES**

When: Glenohumeral translation or scapulohumeral coordination is determined to be the limiting factor in increasing AROM

Goals: Increase active arm elevation with appropriate rotator cuff and scapular stabilizer co-contractions, facilitation of weakest components of AROM to achieve appropriate, pain-free ROM, transition to active, open kinetic chain arm elevation

Sample Exercises: Table slides, ball rolling, wall slides, Pro-Fitter™ (Fitter International, Calgary, Alberta, Canada)

### **INTEGRATED EXERCISES**

When: After scapular control and AROM is at or approaching normal

Goals: Integrated strengthening of scapular, rotator cuff and trunk musculature