



## **BRIGHAM AND WOMEN'S HOSPITAL**

A Teaching Affiliate of Harvard Medical School  
75 Francis St., Boston, Massachusetts 02115

Dr P

**Department of Rehabilitation Services**  
Physical Therapy

### **Distal Bicep Tendon Repair- Accelerated Rehabilitation Protocol**

The intent of this protocol is to provide the clinician with a guideline of the post-operative rehabilitation course for a patient that has undergone a distal biceps tendon repair. It is by no means intended to be a substitute for one's clinical decision making regarding the progression of a patient's post-operative course based on their physical exam/findings, individual progress, and/or the presence of post-operative complications. If a clinician requires assistance in the progression of a post-operative patient they should consult with the referring Surgeon.

#### **Initial Immobilization**

- Posterior splint, elbow immobilization at 90° for 5-7 days with forearm in neutral (Unless otherwise indicated by surgeon.)

#### **Hinged Elbow Brace**

- Elbow placed in a hinged ROM brace at 7 days postoperative. Brace unlocked at 30° degrees to full flexion.
- Gradually increase elbow ROM in brace (see below)

#### **Brace Range of Motion Progression**

(ROM progression may be adjusted base on Surgeon's assessment of the surgical repair.)

Week 3      Full extension to full flexion  
Week 6      Discontinue brace if adequate motor control

#### **Range of Motion Exercises**

##### **Weeks 2-3**

- Passive ROM for elbow flexion and supination (with elbow at 90°)
- Assisted ROM for elbow extension and pronation (with elbow at 90°)
- Shoulder ROM as needed based on evaluation, avoiding excessive extension.

##### **Weeks 3-4**

- Initiate active-assisted ROM elbow flexion
- Continue assisted extension and progress to passive extension ROM

##### **Week 4**

- Active ROM elbow flexion and extension

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### **Weeks 6-8**

- Continue progression as above
- May begin combined/composite motions (i.e. extension with pronation).
- If at 8 weeks post-op the patient has significant ROM deficits therapist may consider more aggressive management, after consultation with referring surgeon, to regain ROM.

### **Strengthening Program**

|                 |   |
|-----------------|---|
| <b>Week 1</b>   | Sub-maximal pain free isometrics for triceps and shoulder musculature.                                      |
| <b>Week 2</b>   | Sub-maximal pain free biceps isometrics with forearm in neutral.  |
| <b>Week 3-4</b> | Single plane active ROM elbow flexion, extension, supination, and pronation.                                |
| <b>Week 6</b>   | Progressive resisted exercise program is initiated for elbow flexion, extension, supination, and pronation. |

- Progress shoulder strengthening program
  - Weeks 12-14: May initiate light upper extremity weight training.
  - Non-athletes initiate endurance program that simulates desired work activities/requirements.

**3 Months Post-op:** Activity as tolerated is permitted.

**6 Months Post-op:** Full activity without restriction is allowed.

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