



**Kai Mithoefer, MD**

840 Winter Street, Waltham, MA 02451  
125 Parker Hill Avenue, Boston, MA 02120  
40 Allied Drive, Dedham, MA 02026  
800 West Cummings Drive, Woburn, MA 01801  
Phone 617.264.1100, Fax 617.264.1101  
[www.bostonjointpreservation.com](http://www.bostonjointpreservation.com)

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**Post-Operative Rehabilitation Protocol**  
**Pectoralis Major Repair**

**Phase I - Protect Repair**

**Weeks 0 – 2**

**Goals**

Pain control

Protect repair

- Shoulder sling/immobilizer for 6 weeks
- Elbow / wrist / hand AROM exercises, shoulder in neutral position
- Stationary bicycle, with shoulder sling on

**Weeks 2 – 4**

**Goals**

Pain control

Protect repair

- Continue shoulder sling/immobilizer for 6 weeks
- Continue previous exercises
- Pendulum shoulder exercises

## **Phase II – Range of Motion**

### **Weeks 4 – 6**

#### **Goals**

Supine PROM flexion to 90°

Protect repair

- Continue shoulder sling/immobilizer for 6 weeks
- Continue previous exercises
- PROM and supine AAROM forward flexion up to 90°, with arm in adduction
- Shoulder shrugs, scapular retraction, no resistance

## Weeks 6 – 8 Goals

AROM flexion to 120°, abduction to 90°

- Discontinue sling / immobilizer
- Continue previous exercises
- AAROM
  - Flexion > 90°
  - Abduction and external rotation to tolerance
  - Internal rotation and extension, arm behind back
- Submaximal isometrics
- Treadmill walking
- Elliptical trainer without arm motion component, lower extremity only

## Phase III – Early strengthening

### Weeks 8 – 12

#### Goals

Full AROM

- Continue previous exercises
- AROM, AAROM through full motion
- Light theraband exercises for external rotation, abduction, extension
- Biceps / tricep PRE
- Prone scapular retraction exercises, no weights
- Standing wall push-ups, no elbow flexion >90°
- Elliptical trainer, upper and lower extremities

### Months 3 – 4

#### Goals

Begin light strengthening

- Continue previous exercises
- Full ROM
- Light theraband exercises - add internal rotation, adduction, flexion
- Push-up progression – wall → table → chair, no elbow flexion >90°
- **Very light** resistive weight training, no pect flies, bench press or pull downs
  - No elbow flexion >90°
  - Seated rows
  - Single arm pulleys/cables for internal rotation, forward elevation, adduction
  - Rotator cuff and periscapular
- Treadmill running
- Ball toss with arm at side, light weight

## **Phase IV – Advanced strengthening**

### **Months 4 – 6**

#### **Goals**

Maintain pain free full ROM

Advance strengthening

Gradual return to functional activities

- Continue previous exercises with increasing resistance
- Overhead ball toss
- Full running program
- Swimming
- Weight training with increasing resistance
  - No bench press
  - May start pull downs and pect flies with light resistance only

## **Phase V – Return to full activity**

### **Months 6+**

#### **Goals**

Maintain painfree full ROM

Gradual return to recreational sports and/or strenuous work activities

- Full activities as tolerated
- Continue previous exercises with increasing weight / resistance
- May perform bench press, light weight and high repetition
  - Advance weight as tolerated
  - Recommend indefinitely avoiding high weight, low repetition