The Orthopaedic & Fracture Clinic

Pectoralis Major Tendon Repair

Post-Operative Protocol

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• Begin physical therapy two weeks post op. Tendon to tendon and muscle to tendon repair; ROM progression to full at 14 to 16 weeks. Bone to tendon repair. Goal of full ROM at 12 to 14 weeks.

Phase I – Weeks 2 to 4

- Immobilization in sling (typically 6 to 8 weeks).
- Pendulums.
- Wrist and elbow ROM.
- PROM: ER to 0° in neutral, flexion to 45°.
- Increase ER 5° a week, flex 5° to 10° a week.
- Goals:
 - 1. Decrease pain.
 - 2. Protect healing tissue.
 - 3. Minimal to no edema.

Phase II – Weeks 4 to 6

- PROM: Add abduction to 30° increase by 5° a week.
- Scapular mobility exercise.
- Submaximal pain free isometrics to begin at 5 weeks (except for IR).
- Goals:
 - 1. PROM: Flexion 75°; abduction 35°; ER 0° in 15° of abduction.

Phase III – Weeks 6 to 8

- Initiate AAROM progress to AROM as tolerated towards week 8.
- Progress PROM ER beyond 40°.
- Isometrics: Flexion, extension, abduction, ER, horizontal abduction.

- Progress scapular strengthening.
- Joint MOBS for capsular restrictions.
- Begin U/E weight bearing, weight shifts, Quadpred, triped.
- Avoid active adduction, horizontal adduction and IR.
- Goals:
 - 1. 75% full shoulder PROM without pain.
 - 2. AAROM flexion, abduction, ER, IR without scapular or upper trap substitution.

Phase IV – Weeks 8 to 14

- Gain full AROM through stretching and mobilization.
- Active flexion, abduction, adduction strengthening.
- Avoid horizontal adduction/IR/flexion.
- Progress scapular strengthening.
- Wall pushups progressing to table pushups.
- Dynamic stabilization exercises.
- Active ER, horizontal abduction not to end ranges.
- Goals:
 - 1. Full AROM.
 - 2. Increased strength/proprioception with exercises without an increase in symptoms.

Phase V – Weeks 14 to 24

- Progress scapular and rotator cuff strengthening including IR.
- Single arm pectoralis major strengthening: Therabands then progress to dumbbell bench light weight/high reps. Avoid wide grasp and end range ER/ABD.
- Pushups avoid wide hand position.
- PNF D₁ and D₂.
- U/E plyometrics wall taps, chest taps.
- Goals:
 - 1. No pain with strengthening activities.
 - 2. Tolerate high level strengthening and plyometrics.

Phase VI – 6 to 9 months

- Discourage 1 rep max bench.
- Prepare for return to sport.
 - One arm hop test as outcome measure for return to sport.