



Lisa Kaplin, DO

## **PROXIMAL HUMERUS FRACTURE NON OPERATIVE REHAB PROTOCOL**

### I. Phase I – Early Motion Phase (0 - 5 weeks)

#### A. Week 1 Early Passive Motion

1. Wear the sling at all times except to exercise
2. Hand, wrist, elbow, and cervical AROM
3. Grip and wrist strengthening
4. PROM: supine Flexion to 90° and ER (very gentle)
5. Modalities as needed for pain relief or inflammation reduction

#### B. Week 2

1. Apply hot packs 10 minutes before exercising
2. Begin pendulum (Codman) exercises with circles in and out
3. Soft tissue mobilization
4. Supine ER with a stick to 30°
  - a. Support elbow on a folded towel with shoulder in 15° ABD
5. Scapular Stabilization
  - a. Scapular clocks
  - b. Scapular retractions (no shoulder extension)

#### C. Week 3 – 5 (begin AAROM when pain diminishes and pt is less apprehensive)

1. Continue all above exercises
2. Begin gentle AAROM flexion to 140° if clinical situation is stable
  - a. Supine Cane flexion
  - b. Supine AAROM with therapist assistance or with hands clasped
3. Begin pulley for flexion to tolerance
4. Begin submaximal isometrics ER, and flex (week 3 – 4)
5. Begin flexion and ABD on slide board or table to tolerance

### II. Phase II – Active Motion Phase (Weeks 6 – 12)

#### A. Week 6 – 8 AROM

1. Establish full PROM
2. Begin AROM
  - a. Supine flexion to patient tolerance
  - b. Progress to seated (or standing) flexion with a stick
  - c. Seated flexion with elbow bent and arm close to the body
  - d. Perform ER and ABD with hands behind head
  - e. Sidelying ER (pain-free)
  - f. Serratus Punches
3. Begin Extension and IR: (PROM, AROM and Isometrics)
4. Begin multi-angle isometrics
5. Continue PROM and begin gentle patient self stretching (week 7–8)
  - a. Flexion: put hand on wall or top of door
  - b. ER: hold onto door jam and twist



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c. IR: use good arm to pull affected arm into IR B.

Week 8 - 10 Early Resisted ROM

1. Begin Theraband for IR, ER, flexion, ABD, and extension
2. Begin supine IR, ER with 1# (arm supported at 15° ABD) (pain-free)
3. Begin UBE with no resistance
4. Prone Ext and ABD (pain-free)
5. Progress to adding weight to above exercises only if pain-free
6. Biceps / Triceps strengthening with dumbbells II.

Phase III – Aggressive Stretching and Strengthening Phase (beginning week 12)

1. Isotonic strengthening with weights all directions
2. Increase theraband or use rubber tubing
3. Increase stretches on door and add prone stretches
4. Begin functional or sport activity for strength gain