Rehabilitation Protocol
Proximal Humerus Fractures: Nonoperative Treatment

Outpatient Physiotherapy Phase 1: (Weeks 2-4)

ROM
- Cervical, elbow and wrist ROM
- Pendulum exercises
- Instruct in home program

Strengthening
- No cuff strengthening
- Begin and instruct in program of postural correction
- May begin scapular retraction and depression
- Grip strengthening

Sling
- Arm in sling at all times except for exercises and bathing; Includes sling at night (sleeping in recliner chair optimal); Discontinue sling between 2-4 weeks

Outpatient Physiotherapy Phase 2: (Weeks 5-8)

ROM
- Begin self-assisted forward elevation to 90° and progress in 20° increments per week
  - May use pulleys
- Begin self-assisted ER with progressive return to full in 20° increments per week
- IR in scapular plane as tolerated (No IR behind back)
- No cross body adduction
- Grade I-II scapulothoracic and glenohumeral mobilizations

Strength
- No cuff strengthening
- Continue scapular retraction and depression
- Lower extremity aerobic conditioning

Other
- Modalities to decrease pain and inflammation
- Cryotherapy as necessary

Outpatient Physiotherapy Phase 3: (Weeks 9-12)

ROM
- Progressive return to full forward elevation and external rotation
- May begin posterior capsular stretching program
- May begin IR behind back
- Grade III-IV glenohumeral and scapulothoracic mobilizations
- Begin anterior chest wall stretches (pectoralis minor)

Strength
- Instruct in home program and begin submaximal isometrics in flexion, abduction, IR, ER and extension
- Add progressive isotonics with low resistance, high repetitions as tolerated
- Emphasize anterior deltoid strength and scapular stabilization
Emphasize upper trapezius, serratus anterior force couple rehabilitation to create stable scapular base
• Assess for and correct compensatory movement patterns
• UBE with low resistance
• Continue aerobic conditioning

**Outpatient Physiotherapy Phase 4: (> Week 12)**

**ROM**
• Progressive return to full motion in all planes
• Emphasize posterior capsule stretching
• Maintenance home flexibility program

**Strength**
• Continue rotator cuff and scapular strengthening program
  • Progressive increase in resistance as strength improves
• Continue UBE with progressive resistance as tolerated
• Recreation/vocation specific rehabilitation
• Maintenance aerobic conditioning home program