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<u>Proximal Humeral Fracture Post-Surgical Rehabilitation Protocol</u> (OPEN REDUCTION / INTERNAL FIXATION)

General Principles:

- 1. Bony healing occurs usually within 6 to 8 weeks in adults
- 2. Return to normal function and motion may require 4 months 6 months

Overall Goals:

- 1. Increase ROM while protecting the fracture site
- 2. Control pain and swelling (with exercise and modalities)
- 3. Perform frequent gentle exercise to prevent adhesion formation

	IMMOBILIZER	RANGE OF MOTION	EXERCISES
PHASE I 0-4 weeks	Wear the sling at all times except to exercise	Week 1-2 Early Gentle Passive Motion 1. Hand, wrist, elbow, and cervical AROM 2. PROM: ER to 30° and flexion to 90° week 1-2 and 120 week 2-3. 3. Modalities as needed for pain relief or inflammation reduction Week 3 Active Assisted ROM 1. Begin gentle AAROM flexion to 140° 2. Supine ER with a stick to 40° a. Keep arm in plane of scapula Week 3 – 4 AAROM and Isometrics	Week 3 Active Assisted ROM 1. Apply hot packs 10 minutes before exercising 2. Begin pendulum (Codman) exercises 3. Begin pulley for flexion and abduction 4. Scapular Stabilization a. S/L scapular clocks b. Seated scapular retractions Week 3 - 4 AAROM and Isometrics 1. Continue all exercises 2. Begin S/L assisted forward elevation 3. Begin submaximal isometrics IR, ER, Flex, Ext, and ABD 4. Begin flexion and ABD on slide board or table
PHASE II 4-12 weeks		Week 4-6 AROM 1. Establish full PROM 2. Begin AROM	 Week 4-6 AROM Begin AROM Supine flexion with and without stick Progress to sitting (or standing) flexion with a stick Sitting flexion with elbow bent and arm close to the body Raise arm over head with hands clasped Perform ER and ABD with hands behind head



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ORTHOPEDIC SURGERY & SPORTS MEDICINE	 Eccentric pulleys Side lying ER Prone Ext and ABD Serratus Punches Continue PROM and begin patient self stretching (week 6) Wall Walking Doorway ER stretch S/L post. Capsule stretch Begin multi-angle isometrics Week 8 Early Resisted ROM Begin Theraband for IR, ER, flexion, ABD, and extension Begin supine IR, ER with 1# (with arm supported at 15° ABD) Begin UBE no resistance Progress to adding weight to above exercises only if pain-free Biceps / Triceps strengthening with dumbbells
PHASE III 12 weeks	 Isotonic strengthening with weights all directions Increase theraband or use rubber tubing Increase stretches on door and add prone stretches Begin functional or sport activity for strength gain