



## Geoffrey S. Van Thiel, MD/MBA

www.VanThielMD.com

gvanthiel@rockfordortho.com

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### Total Shoulder Arthroplasty/Hemiarthroplasty

#### Phase I (1 – 7 days)

- Wound: Leave dressing in place until first post-operative visit.
- Edema: Edema control interventions
- Sling: Ultrasling worn continuously except in therapy or during exercise sessions
- ROM:
  - Shoulder Pendulums
  - AROM: Forearm, wrist and hand
- Strengthening
  - Parascapular Strengthening and Scapular Stabilization
  - Grip Strengthening
- Modalities: prn for pain and inflammation

#### Phase II (1 – 6 weeks)

- Wound: Monitor site / Scar management techniques. Leave dressing in place until first post operative visit.
- Edema and modalities: Edema control continued
- Sling: Ultrasling worn continuously except in therapy or during exercise sessions
- ROM
  - PROM to AAROM to AROM as tolerated with the following exceptions:
    - No active IR/backwards extension for 6 weeks. The subscapularis tendon is taken down for the surgery and then repaired afterwards. It takes about 4-6 weeks for it to grown back into the humerus and regenerate a blood and nerve supply.
  - AROM: Forearm, wrist and hand
- Goals:
  - ROM goals: Week 1: 90° FF/20° ER at side; ABD max 75° without rotation
  - ROM goals: Week 2: 120° FF/40° ER at side; ABD max 75° without rotation
- Strengthening
  - Continue parascapular strengthening and grip strengthening.

#### Phase III (6 – 12 weeks)

- Sling: Discontinue sling at 6 weeks.
- ROM:
  - Begin AAROM to AROM for internal rotation and backwards extension as tolerated
  - PROM: Therapist to begin passive stretching in Flex and Scaption only at 6 weeks.
  - Includes pulley and table stretches. No passive ER.
  - AROM: Begin progressing ER gradually to 60 degrees at 6 wks. Active Flex and Scaption of 140 – 150 deg. achieved by 10 weeks.

- Strengthening:
  - Begin light resisted ER/FF/ABD: isometrics and bands, concentric motions only
  - No resisted internal rotation/backwards extension until 12 weeks post-op
  - Isometrics for Flex, Scaption, and ER at 6 weeks. Begin gentle progressive resisted strengthening for Flex, Scaption, and ER at 8 weeks.
- Modalities: prn for pain and inflammation

#### **Phase IV (s/p 12 weeks +)**

- Strengthening
  - Progress RTC/Parascapular strengthening to return to ADL's or work activity
  - Begin Resisted IR and Extension
- ROM: unrestricted
- Mobs: Glenohumeral joint mobilizations

1) Wilk KE, Reinold MM, Andrews, JR. Total Shoulder Replacement Post-Operative Rehabilitation Program. Winchester MA: Advanced Continuing Education Institute, 2004.