

# **Reverse Total Shoulder Arthroplasty**

## **General Principles:**

- 1. This is a protocol for individuals with a reverse total arthroplasty
- 2. Issue home pulley for early self-Passive flexion stretching (Plane of scapula)
- 3. Prosthesis is **NOT designed to improve ER!**! Most pts will NEVER achieve full active ER (some patients will reach 0 deg of active ER)
- 4. Do not progress past 30 deg passive ER unless active ER reaches 30 deg
- 5. Return to normal function and motion may require 6 or more months
- 6. No Extension until 8 weeks post-op (Protect subscapularis)
- 7. Begin Active ER early up to ROM limits
- 8. Avoid stretching IR while in abduction (in later stages can allow IR behind back)
- 9. **No Joint Mobilizations** secondary to constrained prosthesis
- 10. NO DRY NEEDELING
- 11. Patient is not allowed to use Reverse total shoulder to push themselves out of a chair: NO SHOULDER EXTENSION

\*\*Sling: Wear sling for 3 weeks including sleep (three weeks from date of surgery the sling should be completely discontinued) – No Restrictions in ROM after 3 weeks

Overall Goals:

- 1. Maintain joint stability during ROM and stretching exercises
- 2. Control pain and swelling (with exercise and modalities)
- 3. Maximize function by Improving strength and motion
- 4. PROM seated 130 degrees flexion and 30 degrees ER by 6 weeks post op
- I. Phase One Immediate Motion Phase (Week 0-6)

Goals: Increase Passive ROM

Decrease shoulder pain

Reduce muscular atrophy

- 1. <u>ADL BOX</u>: Patient can use arm to eat, read, wash face, brush teeth, etc. in front of body (anterior to plane of scapula) without pain
- 2. AAROM
  - a. Pulley for flexion (immediately, but under guidance from therapist)
  - b. ER 0 to  $20^{\circ}$  (at  $30^{\circ}$  of ABD)
- 3. AROM (3 weeks from Date of Surgery)
  - a. Supine Forward Flexion with cane (full available range)
  - b. Flexion on slide board or table to tolerance
  - c. Seated Shoulder Scaption (full available range)
- 4. Begin hand, wrist, and elbow AROM/PROM immediately
- 5. Passive Stretching (1-5 weeks from Date of Surgery)
  - a. Shoulder Passive Flexion  $0 130^{\circ}$
  - b. Shoulder Passive ER  $0-20^{\circ}$  (at  $30^{\circ}$  of ABD)
- 6. Pendulum exercises (1-5 weeks from Date of Surgery )
- Cervical AROM
- 8. Grip and wrist strengthening
- 9. Scapular Stabilization



- a. S/L scapular clocks
- b. Seated scapular retractions
- 10. Submaximal Manual Isometrics (4 weeks from Date of Surgery)
  - a. ER, Flex, and ABD
- 11. UBE no resistance (week 4 from Date of Surgery)
- 12. Modalities such as Cryotherapy or Electrical Stimulation as needed
- II. Phase Two Active Motion Phase (Week 6-12)

### Goals: PROM 130 degrees flexion and 30 degrees ER at 6 weeks post op

**Increase functional activities** 

**Increase ROM** 

**Increase shoulder strength** 

Decrease pain and inflammation

- 1. Continue previous Passive stretching and AAROM exercises
- 2. Pendulum exercises as needed
- 3. AAROM
  - a. Continue Pulley for flexion
  - b. Active Supine Forward Flexion
  - c. Cane exercises (**Progress "gatching"/semi-recumbent position at 45 degrees**) shoulder Flex, ER to patient tolerance
    - a. "gatching" is finding the critical point in their vertical angulation where they can still have some gravity resistance and work their forward elevation.
- 5. AROM
  - a. Semi-recumbent and Standing flexion ("gatching" at multiple levels per pt tolerance)
  - b. Serratus punches supine
  - c. S/L ER
- 5. Theraband ER / IR (6 weeks from Date of Surgery)
- 6. Biceps and triceps strengthening (light dumbbells)
- 7. Scapulothoracic strengthening
  - a. Rhythmic stabilization
  - b. Scapular PNF resisted
- 8. Aerobic conditioning (i.e. upright bike)

#### III. Phase III – Strengthening Phase (begins at 10 – 12 weeks from Date of Surgery)

## \*Criteria for progressing to phase III: (SOME PATIENTS WILL NEVER ENTER THIS PHASE)\*

**PROM:** Flexion to about 130°, ER to about 40° (if active ER is available), IR to about 50°

- 1. Continue to progress all elements from phase II
- 2. Dumbbell strengthening: add weight to all AROM exercises
- 3. Wall push-ups
- 4. PNF D2 progress from isometric holds to manual resisted
- 5. Continue aerobic conditioning
- 6. Begin functional progression for activity specific tasks
- 7. Refer to physician regarding return to work/high levels of function