

Reverse Total Shoulder Arthroplasty

Delto-pectoral Interval Approach

Precautions: Avoid IR, adduction, and extension (tucking in a shirt or performing bathroom/personal hygiene is particularly dangerous during post-op phase) – "always be able to see your elbow"

- ☐ For 12 weeks:
 - o No IR or motion behind the back (IR/add/ext)
 - o No extension beyond neutral (towel behind elbow while supine)

Phase I (1 – 5 days post-op)

- Bed mobility & transfer training without UE
- Modalities: prn for pain and inflammation
- Sling: Ultrasling worn continuously except in therapy or during exercise sessions
- Soft tissue mobilization for cervical, cuff, and periscapular
- ROM:
 - Pendulums 4 ways
 - o AROM of forearm, wrist, hand, and cervical
- Soft tissue mobilization for cervical, cuff, and periscapular

Phase II (5 days – 4 weeks post-op)

- Wound care: Monitor site / scar management techniques
- Modalities: prn for pain and inflammation
- Sling:
 - o Dr. Trenhaile: At 2 weeks, gradually wean from sling
 - Ultrasling worn continuously except in therapy or during exercise sessions
- PROM:
 - o Dr. Trenhaile, at 2 weeks post-op:
 - Flex/abd to 90*
 - ER to 30*
 - Dr. Whitehurst: no PROM until 4 weeks post-op

Phase III (4 weeks - 10 weeks post-op)

- Sling:
 - o Dr. Trenhaile: At 2 weeks, gradually wean from sling
 - Until 4 weeks post-op, Ultrasling worn continuously, except in therapy or during exercise sessions. Remove abduction pillow at 4 weeks.
 - Until 6 weeks post-op, Sling must continue to be worn outdoors or in public settings and when sleeping

Initiation Date: 6-7-04 Revised Date: 9-9-14, 3-30-17, 8-19-22, 2-25-25

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- ROM: At 4 weeks post-op, progress with PROM, progressing to AAROM, and then AROM
 - o PROM:
 - Gradually progress flexion and scaption to 120 degrees, ER to 30-45 degrees, IR in scapular plane only, abduction to 90 degrees
 - Continue to follow dislocation precautions
 - At 8 weeks: Stretch horizontal adduction, lats, triceps. Grade I-II
 GH joint and scapular thoracic joint mobilizations
 - AAROM:
 - May begin and progress to AROM depending on stability and movement pattern quality for progression to AROM.
 - Begin flexion and scaption supine providing greater scapular stability, then progress to seated and standing position
 - IR, ER, and scapular retraction must be performed with UE in a protected position in the scapular plane where the patient is able to see their elbow at all times (avoiding adduction and extended position with IR)
 - At 8 weeks begin to used involved UE for eating, dressing
- Strengthening:
 - Until 12 weeks, NO resisted IR
 - May begin gentle pain-free sub-max isometrics for the deltoid and periscapular musculature with the humerus in a protected position in scapular plane
 - Strengthening of elbow, wrist, and hand
 - 4 weeks: periscapular muscle activation, deltoid activation
 - 7-8 weeks: rhythmic stabilization, progress deltoid and scapular strength/endurance

Phase IV (10+ weeks post-op)

- ROM:
 - At 10 weeks,
 - Continue to progress as above
 - Until 12 weeks, follow dislocation precautions
 - At 12 weeks,
 - Gradually progress ROM as tolerated
- Strengthening: Do not begin until appropriate AAROM/AROM control is achieved
 At 10 weeks.

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- PNF D1/D2
- Begin gradual light resistance for flexion, abduction, and ER. Extension to neutral
- Until 12 weeks, No resistance for IR
- o At 12 weeks,
 - May begin resisted IR with isometrics gradually progressing resistance with light bands and weights
 - Advance strengthening as tolerated for rotator cuff, deltoid, and scapular stabilizers
 - May begin closed-chain exercises and eccentric strengthening
- Goals at 16 weeks:
 - Continue to progress with ultimate goal of 80≤140 degrees of elevation
 and 30 degrees of ER, ≤ 50 degrees IR in scapular plane or back pocket
 - Functional level: Goal is for patient to be able to complete light household work within 10-15# lifting limit with bilateral UEs

Adapted From:

- 1) Romeo A. Reverse total shoulder (reverse ball and socket) protocol. Midwest Orthopedics at RUSH. Chicago, 2008.
- 2) Beacon Orthopedics & Sports Medicine protocol
- Brigham and Women's Hospital protocol; https://www.brighamandwomens.org/assets/BWH/patients-andfamilies/rehabilitation-services/pdfs/shoulder-reverse-total-shoulder-arthroplastyprotocol.pdf
- 4) https://www.massgeneral.org/assets/mgh/pdf/orthopaedics/sports-medicine/physical-therapy/rehabilitation-protocol-for-reverse-shoulder-arthroplasty.pdf
- 5) http://watsonorthopaedics.com/home/rehab-protocols/shoulder/reverse-total-shoulder-replacement-rehab/
- 6) Consultation with Dr. Scott Trenahile, MD, Ortholllinois.

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