

Hemiarthroplasty Protocol after Proximal Humerus Fracture

Recommendations

- Wear sling for 4 6 weeks.
- No driving until 6 weeks post-op.
- Encourage PROM at home daily by family member for the first 4 6 weeks.
- Have patient ice shoulder 3 4 times daily in supported abduction to facilitate circulation and decrease pain.
- No shoulder extension for 4 weeks to protect the anterior deltoid.
- Return to work to be determined on an individual basis by the physician.

Post-Op Protocol

0 - 4 Weeks

- Instruct family member in proper PROM techniques and ROM limitations (Have them perform a supervised demonstration!).
- Emphasize proper posture when sitting and standing.
- PROM limits dictated by physician. If no dictation/communication available at time of initial visit then restrict ROM to 90° FE, 45° Abd, and 20° ER. No shoulder extension.
- 1. Supine passive external rotation with wand. Make sure patient keeps elbow supported and flexed to 90°.
- 2. Soft tissue massage once incision has healed.
- 3. AROM of elbow, wrist and hand with arm supported.

2 - 4 Weeks

- 1. Sidelying scapular retraction/protraction initiated
- 2. Sidelying "scapular clocks"
- 3. PNF scapular patterns for anterior elevation/posterior depression emphasized for future active exercises
- 4. May begin gentle thoracic mobilization

4 - 6 Weeks

- Wean from sling (night time) after 4 weeks, discontinue completely by 6 weeks.
- At 4 weeks may begin to progress ROM and by 6 weeks ROM will be to tolerance. Consult MD earlier if patient not achieving MD imposed ROM limits with ease Developed in conjunction with the physicians at OrthoCarolina

- 1. Progress to self-assist PROM including UBE (avoid extremes of extension), pulleys, etc.
- 2. Begin gentle manual resistance for scapular protraction/retraction and elevation/depression.
- 3. Gentle sub-maximal isometrics all planes.
- 4. Gentle open kinetic chain rhythmic stabilization progression in supine.
- 5. Begin gentle closed kinetic chain (CKC) balance and stabilization progressions.

6 - 8 Weeks

• Begin AAROM within pain-free ROM.

- 1. Self-assist forward elevation with wand with slow progression from supine to standing position.
- 2. Begin general cardiovascular training (as appropriate) including walking, stationary cycling, etc. Can begin earlier depending on fitness level and ambition of patient.

8 - 10 Weeks

• Begin AROM within pain-free ROM.

- 1. Begin AROM with emphasis on rotator cuff exercises (without resistance) including standing forward elevation (≤ 90°) and side lying internal and external rotation. Progress to prone horizontal abduction (thumbs up) at 100° and 90° of abduction, prone external rotation in 90/90° position, and prone extension, all within pain-free ROM.
- 2. Initiate scapulothoracic strengthening exercises including supine ceiling punches and seated rows. Progress to prone horizontal abduction (thumbs up) at 150° and 90° of abduction (last 20° of available range only).

10 - 12 Weeks

• AROM WFL by 12 weeks.

- 1. Progress self-stretching exercises including door frame hang for forward elevation, corner stretch for abduction/external rotation, etc.
- 2. Begin upper extremity endurance training on UBE as appropriate.

12 - 14 Weeks

• Begin RROM within pain-free ROM.

• Initiate gentle internal rotation stretching behind back.

- 1. Begin PRE's with hand weights, theraband, etc. as tolerated, focusing on rotator cuff and scapulothoracic strengthening within pain-free ROM.
- 2. Begin isokinetic internal and external rotation (0° abduction -> scapular plane -> 90/90° position progression).
- 3. Progress CKC exercises including seated press-ups, step-ups, BAPS board, treadmill and push-ups with a plus (wall to floor progression).
- 4. Initiate manual resistive exercises including PNF techniques.
- 5. Begin work-specific activities as appropriate.

14 - 16 Weeks

• Emphasize concepts of frequency, duration and intensity of training.

1. Progress PRE's as tolerated.

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Begin low-level plyometric progression including 2-hand plyoback ball toss, ball dribbling, etc. Initiate sport-specific activities including interval golf program, racquet strokes, etc.
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