Total Shoulder Arthroplasty (Traditional)

Postoperative Rehabilitation Protocol

General Considerations

Surgical Overview

Total Shoulder Arthroplasty (TSA) withtraditional **subscapularis tenotomy** requires **protecting the tendon** to ensure proper healing. **Early mobilization is encouraged** with appropriate precautions.

Primary Goals

- Protect the **subscapularis tendon** during recovery.
- Minimize pain and swelling.
- Gradually restore range of motion (ROM) and strength.

Precautions

- Avoid internal rotation (IR) and extension for the first 6 weeks.
- No lifting heavier than 5 lbs until cleared by the physician.

Phase I: Immediate Post-Operative Protection (Weeks 0–6)

Key Focus and Precautions

- Full-time sling use, including during sleep.
- No active internal rotation (IR) or extension beyond neutral.

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Interventions

- Pain Management: Cryotherapy and proper positioning.
- Hand/Wrist/Elbow Active Range of Motion (AROM): Gentle mobility exercises.
- Scapular Exercises: Gentle scapular retraction and elevation.
- Passive Range of Motion (PROM) Performed by Therapist:
 - Forward elevation: 0°-90°.
 - o External rotation (ER): 0°-20°.

Criteria to Progress

- Pain and swelling are controlled.
- PROM: Forward elevation ≥90°, ER ≥20°.

Phase II: Active-Assisted Range of Motion (Weeks 6–12)

Key Focus and Precautions

- Initiate Active-Assisted Range of Motion (AAROM) while avoiding IR and extension.
- No lifting >5 lbs.

Interventions

- **AAROM:** Supine forward elevation and ER with gentle assistance.
- **Strengthening:** Begin **isometric deltoid exercises** (flexion, abduction) without resistance.

Criteria to Progress

- AAROM without compensations.
- PROM: Forward elevation ≥120°, ER ≥30°.



Phase III: Active Range of Motion and Strengthening (Weeks 12–16)

Key Focus and Precautions

- Gradually increase Active Range of Motion (AROM) while protecting the subscapularis tendon.
- Avoid overhead activities until 16 weeks.

Interventions

- AROM Progression: Forward flexion, abduction, and ER to full ROM.
- Strengthening: Light resistance training for deltoid and scapular stabilizers.
- Functional Movements: Begin light functional tasks such as dressing and lifting small objects.

Criteria to Progress

- Full AROM without pain.
- Strength ≥4/5 in deltoid and scapular stabilizers.

Phase IV: Strengthening and Functional Progression (Weeks 16–24)

Key Focus and Precautions

- Strengthen the shoulder muscles for functional activities.
- Avoid high-stress overhead motions.

Interventions

• Strengthening: Progressive resistance exercises with light weights.



• Functional Training: Start activities such as lifting and carrying light bags.

Criteria to Progress

- Full pain-free ROM.
- Strength sufficient for ADLs (activities of daily living).

Phase V: Advanced Strengthening and Return to Activity (Weeks 24–36+)

Key Focus and Precautions

- Return to higher-level activities.
- Gradual return to overhead motions once strength and stability are achieved.

Interventions

- Advanced Strengthening: Continue progressive resistance training for deltoid and scapular muscles.
- Sports-Specific Training: Light activities such as golf, swimming, and gentle lifting.

Criteria for Full Return

- Pain-free function in ADLs and recreational activities.
- Shoulder strength ≥85% of the contralateral side.

Key Notes for Progression

- Patient Education:
 - Gentle use of the shoulder is encouraged for daily tasks.

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- o Avoid **lifting** or **overhead activity** until cleared by the physician.
- Criteria for Advancement:
 - o Strength ≥4/5
 - o AROM ≥90% of the contralateral side
 - o Pain-free function
- Red Flags:
 - Increased pain
 - o Swelling
 - o Difficulty with **ROM**
 - o These should prompt **immediate reassessment** by the healthcare provider.

Final Considerations

- Follow all precautions to ensure a smooth recovery.
- Gradual strengthening and controlled movement will maximize surgical success.
- Reach out to your healthcare provider if you experience concerns or setbacks.

How to Use This Guide

- Adhere to the outlined progression phases.
- Monitor pain and ROM improvements.
- Communicate any concerns to your surgeon or therapist.

Additional Recovery Tips

- Avoid sudden movements or jerking motions in the early weeks.
- Use pain and function as a guide for progression.
- Stay consistent with exercises to optimize recovery.