



## REHABILITATION PROTOCOL

### Procedure: Anatomical Total Shoulder Arthroplasty

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The goal of the rehabilitation process is to provide greater mobility to the patient than before the surgery. In addition, stability of the shoulder is vital and essential to normal non-painful shoulder function. The key to the success of the rehabilitation following total shoulder replacement is compliance to your exercise program.

#### **PHASE I: IMMEDIATE MOTION PHASE (WEEK 0-4)**

##### GOALS:

1. Increase passive ROM
2. Decrease shoulder pain
3. Retard muscular atrophy and prevent RTC shutdown

##### EXERCISES:

1. Passive range of motion
  - a. Flexion (0°- 90°)
  - b. ER (at 30° abduction) 0°- 30°
  - c. IR (at 30° abduction) 0°- 35°
2. Pendulum exercises
3. Elbow/wrist ROM
4. Grasping exercises for hand
5. Ice & modalities
6. Isometrics (day 10)
  - a. Abductors
  - b. ER/IR
7. Electrical muscle stimulation (if needed)
8. Rope and pulley (2<sup>nd</sup> week)

#### **PHASE II: ACTIVE MOTION PHASE (WEEK 4-10)**

##### GOALS:

1. Improve shoulder strength
2. Improve range of motion
3. Decrease pain/inflammation
4. Increase functional activities

##### EXERCISES:

1. AAROM exercises with L-bar (begin week 2)
  - a. Flexion
  - b. ER

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##### Star Orthopedics & Sports Medicine

FRISCO 5550 Warren Pkwy | Suite 200 | Frisco TX | 75034  
TEL 469.850.0680  
FAX 469.850.0681  
WEB starorthopedics.com



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- c. IR
- 2. Rope and pulley
  - a. Flexion
- 3. Pendulum exercises
- 4. AROM
  - a. Seated flexion (short arc 45° - 90°)
  - b. Supine flexion
  - c. Seated abduction (0° - 90°)
- 5. Exercise tubing IR/ER (week 4)
- 6. Dumbbell biceps/ triceps
- 7. Scapulothoracic strengthening
- 8. Joint mobilization

#### **PHASE III: Strengthening Phase**

\*Initiation of this phase begins when patient exhibits:

- 1. PROM : flexion 0-160 a.  
ER 0° - 75°  
b. IR 0° - 80°

2. Strength level 3/5 for ER/IR/ABD

*\*Note: Some patients will never enter this phase*

#### GOALS:

- 1. Improve strength of shoulder musculature
- 2. Neuromuscular control of shoulder complex
- 3. Improve functional activities

#### EXERCISES:

- 1. Exercise tubing
  - a. ER
  - b. IR
- 2. Dumbbell Strengthening
  - a. Abduction
  - b. Supraspinatus
  - c. Scapulothoracic
- 3. Stretching exercises
- 4. L-bar stretches/Rope and Pulley

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