

Orthopedic Surgery, Sports Medicine & Arthroscopy Specialists

Jonathan Watson, MD REHABILITATION PROTOCOL- Total Shoulder Arthroplasty

The rehabilitation guidelines are presented in a criterion based progression program. General time frames are given for reference to the average, but individual patients will progress at different rates depending on their age, associated injuries, pre-injury health status, rehab compliance, tissue quality and injury severity. Specific time frames, restrictions, and precautions may also be given to protect healing tissues and the surgical repair/reconstruction. It should not be a substitute for one's clinical decision making regarding the progression of a patient's post-operative course based on their physical exam findings, individual progress, and/or the presence of post-operative complications. The therapist should consult the referring physician with any questions or concerns.

Shoulder precautions- Pillow or towel behind elbow while lying supine. No shoulder extension, excessive IR or ER. No supporting of body weight by hand on affected side. Maintain for 6-8 weeks postop.

INDIVIDUAL CONSIDERATIONS: S/p

PHASE 1- Surgery to 3 weeks

REHAB GOALS	1. Protection of the post-surgical repair
	2. Emphasize importance of sling usage
	3. Minimize swelling & pain
PRECAUTIONS	 Sling immobilization for 4-6 weeks, use at all times except bathing & ROM exercises Cryocuff 3-5 times per day for 20 minutes and ice after every therapy session once splint removed No lifting or carrying objects, no supporting of body weight with involved extremity No active ROM
RANGE OF MOTION EXERCISES	 Active & passive wrist, hand ROM, ball squeeze, gripping Gentle supine passive forward flexion Gentle ER <20 in scapular plane Passive IR to chest Pendulums
SUGGESTED THERAPEUTIC EXERCISES	 As above Sub max pain free periscapular isometrics in scapular plane Week 2- LE and core strengthening with sling on at all times
CARDIOVASCULAR EXERCISE	None
PROGRESSION CRITERIA	Tolerates PROMForward flexion/elevation 90

o PROM ER 45 in plane of scapula
 PROM IR 70 in plane of scapula at 30 deg abduction
 If has not achieved above do not forcefully stretch

PHASE 2- 4-6weeks

REHAB GOALS	1. Protection of the post-surgical repair
	2. Prevent contracture of hand/wrist/elbow
	3. Minimize pain and swelling
PRECAUTIONS	1. Sling immobilization for 4-6 weeks, use at all times except bathing &
	ROM exercises
	2. Cryocuff 3-5 times per day for 20 minutes and ice after every therapy
	session once splint removed
	3. No lifting or carrying objects.
RANGE OF	 Continue phase 1 exercises
MOTION	 AAROM pulleys (flexion & scapular elevation) if >90 PROM
EXERCISES	 Ok to begin active ROM in plane of scapular pain free ROM
EXERCISES	Assisted horizontal adduction
	ER in scapular plane to tolerance
	Glenohumeral/scapular mobilizations as needed
SUGGESTED	 Continue phase 1 exercises
THERAPEUTIC	Glenohumeral & scapulothoracic rhythmic stabilization
EXERCISES	 Gentle resisted elbow, wrist, hand exercises
	Stationary bike at week 3 while wearing sling at all times
CARDIOVASCULAR	Stationary bike at week 5 willie wearing siling at all tillies
EXERCISE	
PROGRESSION	 Tolerates PROM, AAROM, isometrics
CRITERIA	 PROM 140 forward flexion & elevation in scapular plane
CHITCHIN	o PROM 60 ER in plane of scapula
	 PROM 70 IR in plane of scapula at 30 abduction
	 Active elevation to 100 with good mechanics

PHASE 3-7-12 weeks postop

REHAB GOALS	 Protect surgical repair
	 Gradual restoration of ROM
PRECAUTIONS	 Discontinue sling use
	 No lifting heavier than cup of coffee, no supporting of body weight
	with involved extremity
RANGE OF	 Continue exercises from phase 2.
MOTION	 PROM as needed
	 Progress PROM, AROM
EXERCISES	 Assisted IR behind back
	 Resisted IR/ER in scapular plane

	Gentle GH & ST mobilizations
SUGGESTED	 Continue exercises from phase 2
THERAPEUTIC	 Supine active elevation with light weight
	 Resisted flexion, elevation in plane of scapula, extension
EXERCISES	 Week 9-progress ER & IR strengthening
CARDIOVASCULAR	Stationary bike increasing resistance
EXERCISE	
PROGRESSION	 Tolerates light strengthening
CRITERIA	 At least 140 AROM forward flexion/elevation supine, 60 ER plane of scapula supine,
CITIEIU	70 IR plane of scapula supine in 30 abduction
	 Able to actively elevate shoulder to at least 120

PHASE 4- 12+weeks postop

REHAB GOALS	 Enhance functional use Enhance mechanics, strength, endurance
PRECAUTIONS	No sudden lifting or pushing Avoid anterior shoulder stress (ABER)
RANGE OF MOTION EXERCISES	 Continue with flexibility exercises from previous phase Mobilizations as needed
SUGGESTED THERAPEUTIC EXERCISES	 Continue phase 3 activities. Progress with resistance/load. 4 months- Return to recreational hobbies, sports
CARDIOVASCULAR EXERCISE	Continue from phase 3, add stairmaster, elliptical (noupper body).
PROGRESSION CRITERIA	 Non painful AROM Maximized functional use, strength, endurance Patient returned to advanced functional activities