

Orthopedic Surgery, Sports Medicine & Arthroscopy Specialists

Jonathan Watson, MD REHABILITATION PROTOCOL- Rotator cuff repair

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.

Special attention must be given to impairments that caused the initial problem. For example, if the patient is s/p partial medial meniscectomy and they have a varus alignment, post-operative rehabilitation should include correcting muscle imbalances or postures that create medial compartment stress.

INDIVIDUAL CONSIDERATIONS: S/p

PHASE 1- Surgery to 4 weeks

REHAB GOALS	1. Reduce pain and inflammation
	2. Maintain integrity of repair
PRECAUTIONS	 Sling immobilization for 6 weeks. Can remove for bathing & exercises ROM/precautions: 90 elevation in scapular plane for weeks 3-4. No active ROM. Subscapularis repair- full: no ER past neutral for 6 weeks, partial: no ER past 20 degrees for 6 weeks Cryocuff 3-5 times per day for 20 minutes and ice after every therapy session once splint removed
RANGE OF	Active forearm, wrist, hand ROM
MOTION	Passive elbow flexion/extension
EXERCISES	Week 3- supported codman exercises Week 3- Reserve floring and dusting in second and are EB/IB in
	 Week 3- Passive flexion, abduction in scapular plane, ER/IR in scapular plane
SUGGESTED	 As above
THERAPEUTIC	 Gripping
EXERCISES	 Scapular PNF, scapular retraction & clocks with bent elbow
CARDIOVASCULAR	
EXERCISE	
PROGRESSION	 Minimal/no pain
CRITERIA	 Wound healing

0	Passive scapular elevation to 90, Passive ER/IR in scapular plane to
	45

PHASE 2- 5-10weeks

REHAB GOALS	1. Protection of repair
	2. Gradual restoration of ROM
	3. Minimize pain and swelling
PRECAUTIONS	 Sling immobilization for 6 weeks, can remove for bathing & exercise. No active ROM for 6 weeks. Subscapularis repair- full: no ER past neutral for 6 weeks, partial: no ER past 20 degrees for 6 weeks Cryocuff 3-5 times per day for 20 minutes and ice after every therapy session
RANGE OF	Continue phase 1 exercises
MOTION	Progress from passive to active assist ROM in flexion supine
EXERCISES	Gentle scapular /GH joint mobilizations
EXERCISES	Ok to begin active ROM elbow flexion/extension & forearm
	supination/pronation
SUGGESTED	Continue phase 1 exercises
	Prone rows to neutral
THERAPEUTIC	 Manual scapular resistive exercises side lying, active punches
EXERCISES	Week 7-rotator cuff isometrics, active shoulder flexion scapular
	plane, abduction
	 Non-weight bearing UE core stability exercises
	Begin light LE exercises without weight or gripping in operative
	arm
CARDIOVASCULAR	Stationary bike
EXERCISE	
PROGRESSION	No swelling or pain
CRITERIA	 Full, active ROM of shoulder
S	Normal/minimal deficit in scapulohumeral rhythm

PHASE 3-11-14 weeks postop

DELLAD COALC	Cup desalles up about all au abus math
REHAB GOALS	 Gradually restore shoulder strength
	 Normalize scapulothoracic kinematics
	 Maintain/progress to full ROM
PRECAUTIONS	 No lifting >5 lbs
	 Continue ice post-therapy
RANGE OF	 Continue exercises from phase 2.
MOTION	 Mobilzations/modalities as needed
EXERCISES	

SUGGESTED THERAPEUTIC EXERCISES	 Continue exercises from phase 2 Week 12- strengthening: ER/IR theraband, ER sidelying, lateral raises (no shoulder/scapular hiking), scaption full can, prone rows, prone horizontal abduction, prone extension, elbow flexion/extension Week 12- Initiate Light Lower extremity sport/work specific drills
CARDIOVASCULAR EXERCISE	Stationary bike increasing resistance, elliptical, stairmaster, treadmill walking
PROGRESSION CRITERIA	 Pain free ROM Normal scapulohumeral rhythm No pain with ADLs No pain with strengthening exercises No evidence of repair failure

PHASE 4-15-23 weeks postop

REHAB GOALS PRECAUTIONS	 Full shoulder strength Advance muscular endurance Gradual return to activity Post-activity soreness should resolve within 24 hours Avoid post activity swelling
RANGE OF MOTION EXERCISES	 Continue with flexibility exercises from previous phase LE and core flexibility
SUGGESTED THERAPEUTIC EXERCISES	 Continue phase 3 activities, progress with weight/resistance
CARDIOVASCULAR EXERCISE	Continue from phase 3, walk/run progression
PROGRESSION CRITERIA- RETURN TO WORK/SPORT	 Full passive, active GH ROM No pain or swelling Strength 85% of contralateral

PHASE 5-24+ weeks postop

REHAB GOALS	 Full shoulder strength and ROM
-------------	--

	 Return to sport/work
PRECAUTIONS	Post-activity soreness should resolve within 24 hours
	Avoid post activity swelling
RANGE OF	 Continue with flexibility exercises from previous phase
MOTION	 LE and core flexibility
EXERCISES	
SUGGESTED	 Continue phase 4 activities, progress with weight/resistance
THERAPEUTIC	 Ok to return to gym for UE exercises, begin with <50% of
	presurgical weight and progress as tolerated
EXERCISES	 Sport/work specific activities ok to start
	 Throwers- begin throwing progression
CARDIOVASCULAR	Progress to baseline
EXERCISE	
	Full passing active CH DOM
PROGRESSION	Full passive, active GH ROM
CRITERIA- RETURN	No pain or swelling Strength 20% of controlled and with retaining of retire 70%.
TO WORK/SPORT	Strength 90% of contralateral with rotator cuff ratio 70% Throwers completion of throwing program
	Throwers-completion of throwing program Completion of apart (work specific program)
	 Completion of sport/work specific program