

Orthopedic Surgery, Sports Medicine & Arthroscopy Specialists

Jonathan Watson, MD

REHABILITATION PROTOCOL- Shoulder arthroscopic capsular release

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 2 weeks (PT 5 times per week for this time period)

REHAB GOALS	1. Minimize pain and inflammation
	2. Attain range of motion achieved in the operating room
	3. Minimize contracture
PRECAUTIONS	1. Sling use until nerve block wears off (if applicable)
	2. Cryocuff 3-5 times per day for 20 minutes and ice after every therapy
	session once splint removed
RANGE OF	 Scapular plane elevation in neutral, IR/ER in plane of scapula,
MOTION	abduction. Slow, consistent movements
	 Pendulum exercises
EXERCISES	 Supine elevation using opposite arm, ER/IR with cane/stick
	 Supine T towel- towels along base of head, spine to promote
	thoracic extension
	 CPM can be used in plane of scapula IR/ER
SUGGESTED	 As above
THERAPEUTIC EXERCISES	 Gentle shaking of extremity, joint mobilizations, massage
	 Gripping, wrist extension/flexion, forearm pronation/supination,
	elbow flexion/extension initially without resistance
	 Postural retraining
	 Scapular mobility side lying with UE supported in plane of scapula
CARDIOVASCULAR	Stationary bike at one week. Avoid excessive perspiration in surgical

EXERCISE	wounds	
PROGRESSION	 No pain at rest Controlled pain and inflammation 	
CRITERIA	 Achievement of postmanipulation ROM (full ROM) 	

PHASE 2- 2-6weeks

REHAB GOALS	1. Control pain & inflammation	
	2. Achieve/maintain full ROM	
	3. Home exercise compliance	
	4. Active ROM in scapular plane to shoulder level	
PRECAUTIONS	1. Avoid overhead activities	
	2. Cryocuff 3-5 times per day for 20 minutes and ice after every therapy	
	session	
RANGE OF	 Continue phase 1 exercises 	
MOTION	 Progress to grade 2 mobilizations 	
	 Forward flexion, IR/ER at 0, 45 and 90 deg abduction 	
EXERCISES	 PNF techniques 	
	 Pendulums 	
	 Pulleys when ~130 deg flexion & good control 	
	 Increase supine ROM, adding ER/IR at 90 deg abduction 	
	 Abd/ER with hands behind head 	
SUGGESTED	 Continue phase 1 exercises 	
THERAPEUTIC	 Core strengthening (avoid planks) 	
EXERCISES	 Lower extremity- squats (no weight), knee extension/flexion, side 	
	lying hip abduction, crab walks	
	 Upper extremity- biceps, triceps, scapular retraction/protraction, periscapular muscles 	
	 Submaximal rotator cuff isometrics, progress to isotonics (ER side 	
	lying) if pain free	
	 Closed chain UE physioball stabilization below shoulder height 	
	• Rhythmic stabilization exercises supine plane of scapula arm	
	shoulder height	
	 Scapular plane elevation (full can) 	
CARDIOVASCULAR	Stationary bike, hydrotherapy (when wounds healed), elliptical (arms	
EXERCISE	below shoulder), upper body ergometry	
PROGRESSION	 No resting/night pain 	
	o Full ROM	
CRITERIA	 Normal scapulohumeral rhythm 	

PHASE 3- 7-10 weeks postop

REHAB GOALS	0	Control pain/inflammation
	0	Normalize scapular elevation above shoulder height
	0	Full ROM
	0	Avoid impingement and pain with strengthening
PRECAUTIONS	0	Continue post PT ice
	0	Avoid overhead weight bearing exercise
RANGE OF	0	Continue exercises from phase 2.
MOTION	0	Progress stretches to include: pec stretches, inferior capsule,
		sleeper stretch, posterior capsule, cane forward flexion, towel
EXERCISES		IR stretch, horizontal abd/ER behind head
	0	Incorporate LE/core flexibility
SUGGESTED	0	Continue exercises from phase 2
THERAPEUTIC	0	Core- quadruped position (alternating arm lifts, leg lifts),
EXERCISES		bridging, trunk rotation
	0	LE- squats, knee extension/flexion, side lying hip abduction,
		dead lifts, monster walks, lunges
	0	UE- Progress resistance/weight from previous phase if no pain
	0	Progress rotator cuff strengthening from side lying to standing
		II IIO Palli UE physioball progress from bilateral to single arm at shoulder
	0	beight wall pushing
	0	Plyometrics- incorporate hall tossing
	0	PNE diagonal natterns
	0	Scapular plane elevation no/light resistance
		Stationary bike, walk/run progression, elliptical (use arms to
		tolerance). Swimming-modified breast stroke. Rowing-can
EXERCISE		incorporate to tolerance
PROGRESSION	0	No pain with ADLs
	0	Flexibility able to meet demands of sport
	0	Strength 85% of contralateral
	0	Normal scapulohumeral rhythm

PHASE 4-11+ weeks postop

REHAB GOALS	 Full, pain free ROM Normal rotator cuff ratio 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 and
MOTION	progress

EXERCISES	
SUGGESTED	 Progress phase 3 activities with resistance/weight
THERAPEUTIC	 Advance rotator cuff strengthening to ER/IR at 90 deg abduction
EVEDCISES	standing
LALINCISLS	 Incorporate sport/work specific exercises
CARDIOVASCULAR	Progress to baseline
EXERCISE	
PROGRESSION	 Full pain free ROM
CRITERIA- RETURN	 Normal scapulohumeral rhythm
	 90% rotator cuff strength compared to contralateral
TO SPORT/WORK	 Completion of plyometrics and sport/work specific exercises