

Orthopedic Surgery, Sports Medicine & Arthroscopy Specialists

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REHABILITATION PROTOCOL- Rotator cuff repair & biceps tenodesis

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

1. Reduce pain and inflammation **REHAB GOALS** 2. Maintain integrity of repair Sling immobilization for 6 weeks. Can remove for bathing & exercises 1. PRECAUTIONS 2. ROM/precautions: 90 elevation in scapular plane for weeks 3-4. No active ROM for 6 weeks. Extension to 0 and ER to 45 for 4 weeks. Subscapularis repair- full: no ER past neutral for 6 weeks, partial: no ER past 20 degrees for 6 weeks 3. No resistive biceps exercise for 3 months 4. Cryocuff 3-5 times per day for 20 minutes and ice after every therapy session once splint removed Active wrist, hand ROM RANGE OF 0 Passive elbow flexion/extension MOTION Week 3- supported codman exercises 0 EXERCISES Week 3- Passive flexion, abduction in scapular plane, ER/IR in scapular plane SUGGESTED As above 0 Gripping THERAPEUTIC Scapular PNF, scapular retraction & clocks with bent elbow 0 **EXERCISES** CARDIOVASCULAR EXERCISE

PHASE 1- Surgery to 4 weeks

SKYLINE ORTHOPEDICS

PROGRESSION	0	Minimal/no pain
CRITERIA	0	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	1. Sling immobilization for 6 weeks, can remove for bathing & exercise.	
	2. 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	
	No resistive biceps exercises for 3 months	
	4. Cryocuff 3-5 times per day for 20 minutes and ice after every therapy	
	session	
RANGE OF	 Continue phase 1 exercises 	
ΜΟΤΙΟΝ	 Progress from passive to active assist ROM in flexion supine 	
	 Gentle scapular /GH joint mobilizations 	
EXERCISES	 Ok to begin active ROM elbow flexion/extension & forearm 	
	supination/pronation	
SUGGESTED	 Continue phase 1 exercises 	
THERAPEUTIC	 Prone rows to neutral 	
EXERCISES	 Manual scapular resistive exercises side lying, active punches 	
LALICISES	• 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 	
	 Normal/minimal deficit in scapulohumeral rhythm 	

PHASE 3-11-14 weeks postop

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 EXERCISES	 Mobilzations/modalities as needed
SUGGESTED	• Continue exercises from phase 2
THERAPEUTIC	 Week 12- strengthening: ER/IR theraband, ER sidelying, lateral raises (no shoulder/scapular hiking) scaption full cap, prone rows.
EXERCISES	prone horizontal abduction, prone extension, elbow
	flexion/extension
	 Week 12- Initiate Light Lower extremity sport/work specific drills
CARDIOVASCULAR	Stationary bike increasing resistance, elliptical, stairmaster,
EXERCISE	treadmill walking
PROGRESSION	 Pain free ROM
CRITERIA	 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

SKYLINE ORTHOPEDICS

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	
SUCCESTED	\sim Continue phase 1 activities progress with weight/resistance
JUGGESTED	\circ Ok to return to gvm for LIE exercises begin with <50% of
THERAPEUTIC	presurgical weight and progress as tolerated
EXERCISES	 Sport/work specific activities ok to start
	 Throwers- begin throwing progression
CARDIOVASCULAR	Progress to baseline
EXERCISE	
PROGRESSION	 Full passive, active GH ROM
CRITERIA- RETURN	 No pain or swelling
	\circ Strength 90% of contralateral with rotator cuff ratio 70%
	 Throwers-completion of throwing program
	 Completion of sport/work specific program