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NONSURGICAL MULTIDIRECTIONAL SHOULDER INSTABILITY REHABILITATION PROTOCOL

The p	rogram will vary in length for each individual depending on several factors: Severity of injury.
	Acute versus chronic condition.
	ROM/strength status.
	Performance/activity demands.
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Retur	n to sport criteria:
	Absence of pain
	Full range of motion
	Little to no apprehension
	Imaging with magnetic resonance imaging (MRI) may be considered in the
	patient evaluation, depending upon individual presentation
Phase	e 1: Acute Motion Phase
Goals	
	Reestablish nonpainful ROM.
	Retard muscular atrophy.
	Decrease pain/inflammation.
Decre	ase Pain and Inflammation
	Therapeutic modalities (e.g., ice, electrotherapy).
П	Gentle joint mobilization.
Rang	e of Motion Exercises
	Pendulums
	Circumduction
	Rope and Pulley
	 Flexion
	 Abduction to 90 degrees, progress to full ROM
	L-Bar
	o Flexion
	o Abduction
	 Internal rotation with arm in scapular plane.
	 External rotation with arm in scapular plane. (progress arm to 90
	degrees of abduction as tolerated)
	Posterior capsular stretching.
	Upper extremity ergometer.

Shoulder hyperextension is contraindicated.		
Strengthening Exercises Isometrics Flexion Abduction Extension Internal rotation (multi-angles) External rotation (scapular plane) Weight shifts (closed-chain exercises).		
Criteria for Progression to Phase 2 ☐ Full ROM. ☐ Minimal pain of tenderness. ☐ "Good" MMT of internal rotation, external rotation, flexion, and abduction.		
Phase 2: Intermediate Phase		
Goals ☐ Regain and improve muscular strength. ☐ Normalize arthrokinematics. ☐ Improve neuromuscular control of shoulder complex.		
Initiate Isotonic Strengthening Flexion Abduction to 90 degrees. Side-lying external rotation to 45 degrees. Shoulder shrugs Extension Horizontal Adduction Supraspinatus Biceps Push-ups		
Initiate Eccentric (Surgical Tubing Exercises at 0° Abduction) □ Internal rotation □ External rotation		
Normalize Arthrokinematics of the Shoulder Complex ☐ Continue joint mobilization. ☐ Patient education of mechanics and activity modifications of activity/sport.		
Improve Neuromuscular Control of Shoulder Complex Initiation of PNF Rhythmic stabilization drills Continue Use of Modalities (As Needed) Ice, electrotherapy modalities.		

	ia for Progression to Phase 3				
	Full nonpainful ROM				
	No palpable tenderness.				
	Continued progression of resistive exercises.				
Phase	e 3 : Advanced Strengthening Phase				
Goals					
	Improve strength, power, and endurance.				
	Improve neuromuscular control.				
	Prepare patient/athlete for activity.				
Capsı	Capsular Stretches				
	Address joint imbalances as necessary				
Continue Use of Modalities (As Needed)					
Continue Isotonic Strengthening (Progressive Resistance Exercises)					
Continue Eccentric Strengthening					
Emphasize PNF					
Initial	Isokinetics				
	Flexion-extension				
	Abduction-adduction				
	Internal-external rotation				
	Horizontal abduction/adduction				
Initiate Plyometric Training					
	Surgical tubing				
	Wall push-ups				
	Medicine ball				
	Boxes				
Initiat	e Military Press				
Preca	ution				
	Avoid excessive stress on anterior capsule.				
Criteria for Progression to Phase 4					
	Full ROM				
	No pain or palpable tenderness.				
	Satisfactory isokinetic test.				
	Satisfactory clinical examination.				

Phase 4: Return to Activity Phase

Goals ☐ Maintain optimal level of strength, power and endurance. ☐ Progressively increase activity level to prepare patient for full functional return to activity/sport.			
Continue All Exercises as in Phase 3			
Continue Capsular Stretches			
Initiate Interval Program			
Continue Modalities (As Needed)			
Follow-up Isokinetic test. Progress interval program. Maintenance of exercise program.			

This protocol provides you with general guidelines for the nonsurgical or inseason rehabilitation of the patient with multidirectional glenohumeral instability

The frequency of visits may be determined mutually by the patient, therapist, and athletic trainer depending upon patient comfort level, progress, and understanding of the home program.

Specific changes in the program will be made by the physician as appropriate for the individual patient. Patients with persistent instability may be candidates for further evaluation and/or surgical intervention.

Questions regarding the progress of any specific patient are encouraged, and should be directed to Dr. Lervick at **952-456-7111**.

REFERENCE:

Clinical Orthopaedic Rehabilitation, 2nd edition. SB Brotzman, KE Wilk. Mosby 2003.