

(Anterior Capsule Repair, Bankart Repair)

The following post-operative shoulder anterior stabilization guidelines were developed by Hospital for Special Surgery Rehabilitation and are categorized into five phases with the ultimate goal for returning the overhead athlete to full competition. They can be used for patients undergoing a variety of anterior stabilization procedures with attention given to exact location of repair and any concomitant procedures. It is important that full range of motion is restored while respecting soft tissue healing. Classification and progression are both criteria-based and time based due to the healing constraints of the human body. The first phase is focused on soft tissue healing and maintenance of pain-free ROM. Phases two and three are focused on building foundational strength and stability which will allow the athlete to progress to phase four which includes plyometric exercises. With the completion of phase four the athlete will be able to start the final phase which includes interval sports programs. Cardiovascular endurance, hip and core strengthening should be addressed through the rehabilitation process. The clinician should use their skilled judgement and decision making as the athlete advances as all progression may not be linear.



Phase 1: Recovery (Week 1)

PRECAUTIONS	 Sling for 3 weeks Avoid stress on anterior shoulder joint If combined with bicep tenodesis, no bicep strengthening for 8 weeks No forced stretching Avoid painful activities
ASSESSMENT	 Quick Disabilities of Arm, Shoulder & Hand (Quick DASH) American Shoulder and Elbow Surgeons Shoulder Score (ASES) Numeric Pain Rating Scale (NPRS) PROM Palpation Static scapular assessment (Kibbler Grading) Cervical mobility
TREATMENT RECOMMENDATIONS	 Gripping and hand AROM Postural awareness Wrist AROM: flexion/extension/pronation/supination Range of Motion: Week 1: external rotation (ER) to neutral, elevation in scapular plane 60°
CRITERIA FOR ADVANCEMENT	 Decreasing discomfort at rest
EMPHASIZE	Protection of repairReduction of tissue irritabilityPrevention of muscle atrophy



Phase 2: Intermediate (Weeks 2-5)

PRECAUTIONS	 Sling for 3 weeks Monitor for shoulder stiffness No forced PROM Avoid undue stress to anterior shoulder joint 		
ASSESSMENT	 Quick DASH ASES NPRS PROM Palpation Static/dynamic scapular assessment (Kibbler grading) Cervical mobility Scapular static assessment 		
	ROM Goals - DO NOT FORCE BUT ASSESS FOR STIFFNESS		
TREATMENT	Week 2-3	 Elevation in scapular plane: 90° ER in scapular plane: 5°-10° Internal rotation (IR) in scapular plane: 30°-45° 	
	Week 4	 Elevation in scapular plane: 90°-100° ER in scapular plane: 15°-20° IR in scapular plane: 50°-60° 	
	Week 5-6	 Elevation in scapular plane: 120°-145° ER in scapular plane: 40°-60° IR in scapular plane: 50°-60° 	
	Abduction	• 0°-90° first 6 weeks (gentle motion)	
RECOMMENDATIONS -	Exercises		
	Week 2	Scapular Isometrics Elbow AROM Shoulder AAROM	
	Week 3	RC Isometrics Rhythmic stabilization ER/IR with PT	
	Week 4	Continue RC Isometrics • Elastic band row	
	Week 5-6	RC Isotonics if arthroscopic; if open start week 6 Scapular strengthening Prone row, prone extension	
		(continued)	

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Phase 2: Intermediate (Weeks 2-5) (continued)

CRITERIA FOR	
ADVANCEMEN	Т

- No pain at rest
- 120° shoulder elevation PROM; 45° ER in scapular plane
- Tolerance of scapular and RC exercises without discomfort

EMPHASIZE

- Reduction of tissue irritability
- Activation of rotator cuff (RC) and scapular stabilizers



Phase 3: Advanced (Weeks 6-15)

PRECAUTIONS	 No forced PROM Avoid undue stress to anterior shoulder joint 		
	No painful ac	tivities	
ASSESSMENT	 Quick DASH ASES NPRS PROM AROM Palpation Static/dynamic scapular assessment (Kibbler grading) Cervical mobility Scapular static/dynamic assessment Grip strength 		
_	ROM Goals		
	Week 6-7	 Initiate light and <u>PAIN FREE</u> ER at 90° shoulder abduction Progress to 30° 	
	Week 7-9	 Flexion 160°-180° ER at 90° abduction: 75°-90° IR at 90° abduction: 70°-75° 	
	Week 9-12	Shoulder Flexion 180°ER at 90° abduction: 100°-115°	
	Flexibility	Shoulder: Posterior shoulder stretch at PT discretion	
TREATMENT RECOMMENDATIONS	 Exercises Progress above Throwers Ten Advanced Throwers Ten Scapular stabilization Closed chain quadruped double arm protraction Prone "T, I" and progress to "Y" and "W" as ROM allows End range stabilization using exercise blade/perturbations Shoulder endurance exercise UE ergometry (if ROM allows) Core strenghth/kinetic linking Weeks 10-16 90°/90° ER/IR strengthening 		

(continued)

Phase 3: Advanced (Weeks 6-15) (continued)

CRIT	ERIA	FOR
ADV	ANCE	MENT

- Full shoulder AROM
- ADVANCEMENT 4/5 strength below shoulder height

EMPHASIZE

- Full P/AROM
- Restoration of scapular and RC muscle balance and endurance



Phase 4: Pylometric (Weeks 16-19)

PRECAUTIONS	 No painful activities
ASSESSMENT	 Quick DASH ASES NPRS PROM AROM Palpation Static/dynamic scapular assessment (Kibbler grading) Cervical mobility Elbow PROM/AROM Scapular static/dynamic assessment Shoulder MMT Grip Strength
TREATMENT RECOMMENDATIONS	 Continue shoulder RC and scapular stabilization exercises Continue and progress all Advanced Thrower's Ten exercises Initiate pylometrics as tolerated Pylometric progression (over 4 week period) Double hand chest pass Double hand overhead soccer pass Double hand chops Single hand IR at 0° abduction Eccentric catch Single hand 90/90 IR Endurance progression Double hand overhead wall taps Single arm 90/90 wall taps Single arm 12 o'clock to 3 o'clock wall taps Exercise blade in multiple sessions Exercise blade in multiple se
CRITERIA FOR ADVANCEMENT	 Full shoulder AROM Symptom free progression through pylometrics and endurance program
EMPHASIZE	Shoulder flexibility, strength and endurancePain free plyometrics



Phase 5: Return to Performance Progression (5 months+)

PRECAUTIONS	All progressions should be pain-freeMonitor for loss of strength and flexibility
ASSESSMENT	 Quick DASH ASES NPRS PROM AROM Palpation Static/dynamic scapular assessment (Kibbler grading) Cervical mobility Scapular static/dynamic assessment Shoulder MMT Grip Strength
TREATMENT RECOMMENDATIONS	 Initiate interval sports programs at 5 months Continue with all upper and lower extremity flexibility exercises Continue with advanced shoulder and scapular strengthening exercises Gradually progress sports activities Monitor workload
CRITERIA FOR RETURN TO PARTICIPATION	 Symptom free progression through interval sports program Independent with all arm care exercises
EMPHASIZE	■ Return to sports activity



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