REHABILITATION GUIDELINES FOR ANTERIOR SHOULDER RECONSTRUCTION WITH BANKART REPAIR Dr. Carson

The rehabilitation guidelines are presented in a criterion based progression. 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, and rehab compliance and injury severity. Specific time frames, restrictions and precautions may also be given to protect healing tissues and the surgical repair/reconstruction.

<u>LIFE-LONG PRECAUTION:</u> No weighted hyperextension or hyperabduction (ie: bench press beyond neutral)

PHASE I (Begin 3-5 days post-op through 3 weeks) DOS:

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APPOINTMENTS	Meet with the Physician:
	Begin Physical Therapy 3-5 days post-op
REHAB GOALS	1. Protection of the post-surgical shoulder.
	2. Activation of the stabilizing muscles of the
	gleno-humeral and scapulo-thoracic joints.
	3. Full PROM/AAROM for shoulder flex/ext, abd/add,
	ER to neutral and IR.
PRECAUTIONS	1. Sling immobilization required for soft tissue healing for
	3-4 weeks. Remove sling during the 4 th week in safe
	environments.
	2. Hypersensitivity in axillary nerve distribution is a
	common occurrence.
	3. No external rotation with abduction for 6 weeks to
	Protect repaired tissues.
SUGGESTED	Begin week 3, sub-maximal shoulder isometrics for
THERAPEUTIC	IR/ER, flex/ext, & abd/add.
EXERCISES	 PROM/AAROM for shoulder flex/ext, abd/add, ER to
	neutral and IR, progressing to AROM at week 5
	Hand gripping.
	• Elbow, forearm, and wrist AROM.
	Desensitization techniques for axillary nerve
	distribution.
	Postural exercises.
CARDIOVASCULAR	Walking, stationary bike—sling on.
FITNESS	(Avoid running and jumping due to the distractive forces that
	can occur at landing)(NO TREADMILL)
	can occar at fanding)(110 TRE/IDMEL)
PROGRESSION	1. Full AROM in all cardinal planes, Except ER, only to
CRITERIA	neutral

2. 5/5 IR/ER strength at 0° abduction.
3. Negative apprehension and impingement signs.

PHASE II (Begin at 6 weeks post-op) Begin Date:

APPOINTMENTS	Physician Appointment:
	Physical therapy 1x per 1-2 weeks.
PHASE II GOALS	1. Full AROM in all cardinal planes.
	2. Progress ER range of motion gradually to prevent over
	stressing the repaired anterior tissues of the shoulder.
	3. Strengthen shoulder and scapular stabilizers in protected
	positions (0°-45° abduction.)
	4. Begin proprioceptive and dynamic neuromuscular control retraining.
PRECAUTIONS	Avoid passive and forceful movements into external
	rotation, extension and horizontal abduction.
SUGGESTED	AA/AROM in all cardinal planes-assessing scapular
THERAPEUTIC	rhythm.
EXERCISE	 Gentle shoulder mobilizations as needed.
	Rotator cuff strengthening in non-provocative
	positions (0°-45° abduction)
	Scapular strengthening and dynamic neuromuscular
	control.
	Cervical spine and scapular ROM.
	Postural exercises.
	Core strengthening.
CARDIOVASCULAR	Walking, stationary bike, stairmaster. No swimming or
FITNESS	treadmill. (Avoid running and jumping until athlete has full
	rotator cuff strength in a neutral position due to the distractive
DD C CD FIGGE CT	forces that can occur at landing)
PROGRESSION	1. Full AROM—Progress ER past neutral
CRITERIA	2. Negative apprehension and impingement signs.
	3. 5/5 IR/ER strength at 45° abduction.

$\frac{PHASE~III~(Begin~when~criterion~progression~from~phase~II~has~been~met{\sim}10\text{-}11}{weeks)}$

Begin Date:

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APPOINTMENTS	Physician Appointment:
	Physical Therapy 1x every 2-3 weeks.
PHAES III GOALS	1. Full AROM in all cardinal planes with normal scapulo-
	humeral movement.
	2. 5/5 rotator cuff strength at 90° abduction in the scapular
	plane.
	3. 5/5 peri-scapular strength.
PRECAUTIONS	1. All exercises and activities to remain non-provocative
	and low to medium velocity.
	2. Avoid activities where there is a higher risk for falling
	or outside forces to be applied to the arm.
	3. No swimming, throwing or sports.
SUGGESTED	Motion
THERAPEUTIC	Posterior glides if posterior capsule tightness is present. More
EXERCISE	aggressive ROM if limitations are still present.
	r
	Strength and Stabilization
	Flexion in prone, abd in prone, full can ex, D1 and D2
	diagonals in standing.
	TB/cable column/dumbbell (light resistance/high rep) IR/ER
	in 90° abduction and rowing.
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	Balance board in push-up position (with RS), prone swiss ball
	walk-outs, rapid alternating movements in supine D2
	diagonal. CKC stabilization with narrow base of support.
CARDIOVASCULAR	Walking, biking, stairmaster and running (if they have met PII
FITNESS	criteria). NO SWIMMING.
PROGRESSION	Patient may progress to Phase IV if they have met the above
CRITERIA	stated goals and have no apprehension or impingement signs.

PHASE IV (Begin when goals and criteria from phase III are met, ~15 weeks)

Begin Date:

APPOINTMENTS	Physician Appointment:
	Physical Therapy 1x every 3 weeks.
PHASE IV GOALS	1. Pt to demonstrate stability with higher velocity
	movements and change of direction movements.
	2. 5/5 rotator cuff strength with multiple repetition testing
	at 90° abduction in the scapular plane.
	3. Full multi-plane AROM.
PRECAUTIONS	1. Progress gradually into provocative exercises by
	beginning with low velocity, known movement
	patterns.
	LIFE-LONG PRECAUTION: No weighted
	hyperextension/hyperabduction ie. No Bench Press
SUGGESTED	<u>Motion</u>
THERAPEUTIC	Posterior glides if posterior capsule tightness is present.
EXERCISE	
	Strength and Stabilization
	Dumbbell and medicine ball exercises that incorporate trunk
	rotation and control with rotator cuff strengthening at 90°
	abduction. Begin working towards more functional activities
	by emphasizing core and hip strength and control with
	shoulder exercises.
	TB/cable column/dumbbell IR/ER in 90° abduction and
	rowing.
	Higher velocity strengthening and control, such as the inertial,
	plyometrics, rapid theraband drills. Plyometrics should start
	with 2 hands below shoulder ht and progress to overhead, then
	back to below shoulder with on hand, progressing again to
CARDIOVASCULAR	overhead.
FITNESS	Walking, biking, stairmaster and running (if they have met PII criteria). NO SWIMMING.
PROGRESSION	,
CRITERIA	Patient may progress to Phase V if they have met the above
CKITEKIA	stated goals and have no apprehension or impingement signs.

PHASE V (Begin when goals and criteria from phase IV are met, ~20 wks)

Begin Date:

APPOINTMENTS	Physician Appointment:
	Physical therapy 1x every 3 weeks.
PHASE V GOALS	 Pt to demonstrate stability with higher velocity movements and change of direction movements that replicate sport specific patterns (including swimming, throwing, etc). No apprehension or instability with high velocity overhead movements. Improve core and hip strength and mobility to eliminate any compensatory stresses to the shoulder. Work capacity cardiovascular endurance for specific
DD T G	sport or work demands.
PRECAUTIONS	1. Progress gradually into sport specific movement
	patterns. <u>LIFE-LONG PRECAUTION:</u> No weighted
	hyperextension/hyperabduction ie. No Bench Press
SUGGESTED	Motion
THERAPEUTIC	Posterior glides if posterior capsule tightness is present.
EXERCISE	
	Strength and Stabilization Dumbbell and medicine ball exercises that incorporate trunk rotation and control with rotator cuff strengthening at 90° abduction and higher velocities. Begin working towards more sport specific activities. Initiate throwing program, overhead racquet program or return to swimming program depending on the athlete's sport.
CARDIOVASCULAR	High velocity strengthening and dynamic control, such as the inertial, plyometrics, rapid thera-band drills. Design to use sport specific energy systems.
FITNESS	
PROGRESSION	Patient may return to sport after receiving clearance from the
CRITERIA	Orthopedic Surgeon and the Physical Therapist/Athletic Trainer.

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