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SUBSCAP ROTATOR CUFF REPAIR
POST OPERATIVE PROTOCOL

	Time Frame (Weeks)	Guidelines	Goals
PHASE I	0 to 6	**SLING:** Ultrasling x 4-6 weeks; larger repairs ultrasling x 6 weeks, then regular sling x 2 weeks **ROM:** No shoulder x 2 weeks; ROM as instructed by MD, no ER past neutral x 6 weeks **EXERCISE PROGRESSION** • Ice and modalities to reduce pain and inflammation • Cervical ROM, basic deep neck flexor activation (chin tucks) • Instruct on proper head neck and shoulder (HNS) alignment. • Active hand and wrist range of motion. • PROM biceps x 6 wks (AAROM for no release or tenodesis) • Active shoulder retraction; PROM ◊ Flexion—refer to MD instructions ◊ External rotation: 0° x 6 weeks ◊ Internal rotation: No IR x 8 weeks post-op • Walks, low intensity cardio exercise to promote healing. **MANUAL INTERVENTION** • STM – global shoulder and CT junction. • Scar tissue mobilization when incisions are healed. • Graded GH mobilizations. • ST mobilizations.	• Reduce inflammation • Decrease pain • Postural education • PROM as instructed
PHASE II	6 to 8	**EXERCISE PROGRESSION** • Progress to full ROM flexion and external rotation as tolerated (Use combination of wand, pulleys, wall walks or table slides to ensure compliance) *very gradual with ER • Serratus activation; Ceiling punch (weight of arm) many initially need assistance. • Scapular strengthening – prone scapular series (rows and I's). Emphasize scapular strengthening under 90°. • External rotation on side (no resistance). • Gentle therapist directed CR, RS and perturbations to achieve ROM goals. • Cervical ROM as needed to maintain full mobility. • DNF and proper HNS alignment with all RC/SS exercises. • Low/moderate cardio exercise; Elliptical OK, no running **MANUAL INTERVENTION** • STM – global shoulder and CT junction. • Scar tissue mobilization. • Graded GH mobilizations. • ST mobilizations. • Gentle CR/RS to gain ROM while respecting repaired tissue.	• Discontinue sling except as instructed with large/massive tears. • Postural education. • Focus on posterior chain strengthening. • PROM/AAROM: ◊ Flexion 150°+ ◊ 30°-50° ER @ 0° abduction ◊ 45°-70° ER @ 70°-90° abduction

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PHASE III	8 to 12	**EXERCISE PROGRESSION** • Passive and active program pushing for full flexion and external rotation. • Gradual internal rotation using shoulder extensions (stick off back) • Add resistance to ceiling punch. • Sub-maximal rotator cuff isometrics (no pain). • **Noonan**– no subscap isometric until 10-12 weeks • **Genuario**—okay with subscap iso unless it states chronic retracted or anterior capsule recon • May begin isolated subscap strengthening at 10-12 weeks • Advance prone series to include T's. • Add rows with weights or bands. • Supine chest-flys providing both strength and active anterior shoulder stretch. • Supine (adding weight as tolerated) progressing to standing PNF patterns. • Seated active ER at 90/90. • Biceps and triceps PRE. • Scaption; normalize ST arthrokinematics. • **10 weeks:** add quadruped or counter weight shift. Therapist directed RS and perturbations in quadruped – bilateral progressing to unilateral-tri pod position. **MANUAL INTERVENTION** • STM and Joint mobilization to CT junction, GHJ and STJ as needed. • CR/RS to gain ROM while respecting repaired tissue. • Manual perturbations. • PNF patterns.	• 90% passive ROM, 80-90% AROM by 12 weeks. Larger tears and patients with poor tissue quality will progress more slowly. • Normalize GH/ST arthrokinematics. • Activate RC/SS with isometric and isotonic progression. • Continue to emphasize posterior chain strengthening but introduce anterior shoulder loading.
PHASE IV	12 to 20	**EXERCISE PROGRESSION** • Full range of motion all planes – emphasize terminal stretching with cross arm, TUB, triceps, TV, sleeper, IR strap stretch, and door/pec stretch. • Continue gradual progression of subscap strengthening • Begin strengthening at or above 90° with prone or standing Y's, D2 flexion pattern and 90/90 as scapular control and ROM permit. Patient health, physical condition and goals/ objectives will determine if strengthening above 90° is appropriate. • Add lat pulls to gym strengthening program; very gradual progression with pressing and overhead activity. • Continue with closed chain quadruped perturbations; add open chain as strength permits. • Progress closed kinetic chain program to include push-up progression beginning with counter, knee then – gradual progression to full as appropriate. • Initiate plyometric and rebounder drills as appropriate.	• Begin RTS progression. • Evaluation with physician for clearance to full activity.
	20 to 24	**RETURN TO PLAY** • Continue to progress RC and scapular strengthening program as outlined. • Advance gym strengthening program. • RTS testing for interval programs (golf, tennis etc.). Microfet testing as appropriate. • Follow-up examination with the physician (6 months) for release to full activity.	