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## **SLAP Lesion Repair Protocol**

This rehabilitation protocol has been developed for the patient following a SLAP (Superior Labrum Anterior Posterior) repair. It is extremely important to protect the biceps/labral complex for 6 weeks post-operatively to allow appropriate healing. This protocol has been divided into phases. Each phase may vary slightly based on the individual patient and special circumstances. The **overall goals** of the surgical procedure and rehabilitation are to:

- Control pain and inflammation
- Regain normal upper extremity strength and endurance
- Regain normal shoulder range of motion
- Achieve the level of function based on the orthopedic and patient goals

Early passive range of motion with noted limitations is highly beneficial to enhance circulation within the joint to promote healing. The physical therapy should be initiated within the first week following surgery. The supervised rehabilitation program is to be supplemented by a home fitness program where the patient performs the given exercises at home or at a gym facility.

**Important post-operative signs** to monitor include:

- Swelling of the shoulder and surrounding soft tissue
- Abnormal pain response, hypersensitive-an increase in night pain
- Severe range of motion limitations
- Weakness in the upper extremity musculature

**Return to activity** requires both time and clinical evaluation. To safely and most efficiently return to normal or high level functional activity, the patient requires adequate strength, flexibility, and endurance. Functional evaluation including strength and range of motion testing is one method of evaluating a patient's readiness to return to activity. Return to intense activities following a SLAP repair requires both a strenuous strengthening and range of motion program along with a period of time to allow for tissue healing. Symptoms such as pain, swelling, or instability should be closely monitored by the patient.

**Dr. Matthew Crawford**  
**Phase 1: Week 1-3**  
**SLAP Repair**

<b>WEEK</b>	<b>EXERCISE</b>	<b>GOAL</b>
1-3	<p><b>ROM</b></p> <p>Passive range of motion Flexion/Elevation</p> <p>Passive range of motion-scapular plane External Rotation</p> <p>Internal Rotation</p> <p>Pendulum exercises Rope/Pulley (flex, abd, scaption) Wand exercises-all planes within limitations Posterior capsule stretch Manual stretching and Grade I-II joint mobs</p> <p><b>STRENGTH</b></p> <p>Initiate submaximal isometrics-<b>NO</b> elbow flexion Initiate scapular stabilizer strengthening Initiate UBE without resistance</p> <p><b>BRACE</b></p> <p>Sling for 3 weeks or as noted by Dr. Crawford Brace removed for exercises above</p> <p><b>MODALITIES</b></p> <p>E-stim as needed Ice 15-20 minutes</p>	<p>Gradual</p> <p>0-60<sup>0</sup> wk1 0-75<sup>0</sup> wk 2 0-90<sup>0</sup> wk 3</p> <p>0-15<sup>0</sup> wk 1 0-30<sup>0</sup> wk 2-3 as tolerated</p>

**GOALS OF PHASE:**

- Promote healing of tissue
- Control pain and inflammation
- Gradual increase in ROM
- Independent in HEP
- Initiate muscle contraction

**Dr. Matthew Crawford**  
**Phase 2: Week 3-6**  
**SLAP Repair**

<b>WEEK</b>	<b>EXERCISE</b>	<b>GOAL</b>
3-6	<p>ROM</p> <p>Passive range of motion  Flexion/Elevation</p> <p>Passive range of motion-scapular plane  External Rotation  Internal Rotation</p> <p>Pendulum exercise  Posterior capsule stretch  Rope/Pulley (flex, abd, scaption)  Wand exercise-all planes within limitations  Manual stretching and Grade II-III to reach goals</p>	<p>Gradual</p> <p>0-145<sup>0</sup></p> <p>0-50<sup>0</sup> wk 6  FROM wk 6</p>

**STRENGTH**

- Continue isometric activities as in Phase I
- Initiate supine rhythmic stabilization at 90<sup>0</sup> flexion
- Initiate IR/ER at neutral with tubing
- Initiate forward flexion, scaption, empty can
- Initiate side lying ER and tricep strengthening
- Push-up progression
- Prone abduction with external rotation
- Shoulder shrugs with resistance
- Supine punches with resistance
- Shoulder retraction with resistance
- Initiate UBE for endurance
- Prone rows
- Initiate **light** biceps curls at week 3

**MODALITIES**

Ice 15-20 minutes

**GOALS OF PHASE:**

- Control pain and inflammation
- Enhance upper extremity strength
- Gradual increase in ROM

**Dr. Matthew Crawford**  
**Phase 3: Week 6-12**  
**SLAP Repair**

<b>WEEK</b>	<b>EXERCISE</b>	<b>GOAL</b>
6-12	<b>ROM</b> Continue all ROM activities from Phase 2 10-12 wks Posterior capsule stretching Towel stretching Rope/Pulley activities Wand exercises Manual stretching and Grade III-IV mobs	Full ROM
	<b>STRENGTH</b> Continue all strengthening from previous phases increasing resistance and repetition Initiate plyotoss chest pass Initiate PNF patterns with theraband Initiate IR/ER exercises at 90 <sup>0</sup> abduction Initiate isokinetic IR/ER at neutral at wk 10-12	
	<b>MODALITIES</b> Ice 15-20 minutes	

**GOALS OF PHASE:**

- Minimize pain and swelling
- Reach full ROM
- Improve upper extremity strength and endurance
- Enhance neuromuscular control
- Normalize arthrokinematics

**Dr. Matthew Crawford**  
**Phase 4: Week 12-24**  
**SLAP Repair**

**WEEK**

**EXERCISE**

12-24

**ROM**

Continue with all ROM activities from previous phases  
Posterior capsule stretching  
Towel stretching  
Grade III-IV joint mobs as needed for full ROM

**STRENGTH**

Progress strengthening program with increase in resistance and high speed repetition  
Progress with eccentric strengthening of posterior cuff and scapular musculature  
Initiate single arm plyotoss  
Progress rhythmic stabilization activities to include standing PNF patterns with tubing  
UBE for strength and endurance  
Initiate military press, bench press, lat pulldown  
Initiate sport specific drills and functional activities  
Initiate interval throwing program week 16  
Initiate light plyometric program week 12-16  
Progress isokinetics to 90<sup>0</sup> of abduction at high speeds

**MODALITIES**

Ice 15-20 minutes

**GOALS OF PHASE:**

- Full ROM
- Maximize upper extremity strength and endurance
- Maximize neuromuscular control
- Initiate sports specific training/functional training