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## Pectoralis Major Repair Guideline

Individual patient circumstances may affect the guideline (tear configuration, fixation used, associated procedures, etc.)

Phase	Goals	Precautions/Restrictions	Treatment
Weeks 0-6	<ul> <li>Protect surgical site</li> <li>Reduce muscle atrophy</li> <li>Reduce swelling</li> <li>Decrease pain and inflammation</li> <li>Passive motion @ 6 weeks <ul> <li>Flexion to 90°</li> <li>External rotation to 30°</li> <li>Abduction to 45°</li> </ul> </li> </ul>	<ul> <li>Sling use at all times</li> <li>Avoid contraction of pectoralis major muscle action</li> <li>May initiate PROM at week 2 <ul> <li>Abduction to 30°</li> <li>Flexion to 45°</li> <li>ER at side to 5°</li> <li>May progress 5-10° per week</li> </ul> </li> <li>Avoid combined ER and abduction</li> </ul>	<ul> <li>PRICE <ul> <li>Cryotherapy: 5-7 times per day</li> </ul> </li> <li>Elbow, neck, and wrist AROM</li> <li>Ball squeezes</li> <li>Initiate PROM @ week 2</li> <li>Initiate shoulder/scapular isometrics @ week 4</li> <li>Initiate BFR; if applicable</li> <li>Cardio: Walking and stationary bike, no treadmil</li> </ul>
Weeks 6-12	<ul> <li>Progress shoulder ROM in all planes by 12 weeks         <ul> <li>Full ER in abduction</li> <li>Flexion 135</li> <li>Abduction 120</li> </ul> </li> <li>Progress shoulder strength</li> <li>Shoulder external rotation strength within 80% limb symmetry</li> </ul>	<ul> <li>Wean from sling per physician</li> <li>Limit external rotation to 45° in abducted positions</li> <li>Limit shoulder extension to 20°</li> <li>Avoid horizontal abduction</li> <li>Avoid repair site pain with strengthening</li> <li>Avoid running and jumping</li> </ul>	<ul> <li>ROM: transition from PROM -&gt; AAROM -&gt; AROM as tolerated within restrictions</li> <li>Begin submaximal isometrics to pectoralis major in shortened positions</li> <li>Shoulder ER, abduction, and extension strengthening</li> <li>Side lying shoulder flexion</li> <li>Scapular strengthening</li> <li>Core strengthening</li> <li>Cardio: Walking, stationary bike, no treadmill/swimming</li> </ul>
Week 12-20	<ul> <li>Shoulder ROM full in all planes</li> <li>Upper extremity strength within 20% LSI</li> </ul>	<ul> <li>Loaded horizontal abduction slowly</li> <li>May initiate jogging when shoulder strength is normal</li> </ul>	<ul> <li>Continue PRE with shoulder exercises</li> <li>Multi-plane shoulder strengthening with increase velocity of movement</li> <li>Initiate pectoralis strengthening with isotonics in short range</li> <li>Core and lower body strengthening</li> <li>Cardio: Walking, stationary bike, stair master</li> </ul>
Weeks 20+	<ul> <li>Shoulder ROM full in all planes</li> <li>Upper extremity strength ≥ 100% LSI in all planes</li> <li>Progression through overhead athlete program</li> <li>Improve capacity for sport-specific demands</li> </ul>	<ul> <li>See OH athlete program for progressions based on tolerance</li> <li>Avoid soreness lasting &gt; 24 hours</li> <li>Return to sport dependent upon sport and discussion with surgeon near 5-7 months</li> </ul>	<ul> <li>Continue with PRE</li> <li>Progress with velocity based strengthening <ul> <li>Shoulder plyometrics</li> </ul> </li> <li>Initiate overhead athlete program</li> <li>Sport-specific strengthening or activity</li> </ul>

This guideline is not meant to be prescriptive but a recommendation to the rehabilitation process. Progress may vary based on specifics of injury and procedure.