

Orthopedic Surgery, Sports Medicine & Arthroscopy Specialists

# Jonathan Watson, MD <a href="https://example.com/red/en/">REHABILITATION PROTOCOL- Nonoperative Adductor/hip strain</a>

The rehabilitation guidelines are presented in a criterion based progression program. Individual patients will progress at different rates depending on their age, associated injuries, pre-injury health status, rehab compliance, tissue quality and injury severity. Specific time frames, restrictions, and precautions may also be given to protect healing tissues and the surgical repair/reconstruction. The therapist should consult the referring physician with any questions or concerns.

#### INDIVIDUAL CONSIDERATIONS

#### PHASE 1 (~0-4 weeks)

REHAB GOALS	1. Minimize swelling & pain
	2. Normalize gait
PRECAUTIONS	<ol> <li>Crutches as needed if painful weight bearing</li> </ol>
	2. Ice as needed for pain
RANGE OF	<ul> <li>Soft tissue mobilizations/techniques as tolerated</li> </ul>
MOTION	<ul> <li>Passive ROM in pain free arcs</li> </ul>
EXERCISES	
SUGGESTED	o As above
THERAPEUTIC	<ul> <li>UE, core, trunk stability as pain tolerates</li> </ul>
	<ul> <li>Contralateral LE strengthening as tolerated</li> </ul>
EXERCISES	<ul> <li>Submax isometric adduction knees bent, progress knees straight, if</li> </ul>
	pain free progress side lying adduction
	<ul> <li>Balance/proprioceptive- double/single leg balance</li> </ul>
	<ul> <li>Non wt bearing hip progressive resistance exercises w/o weight in</li> </ul>
	antigravity position (except abduction) pain free
	<ul> <li>Sport specific- hockey stick handling while standing</li> </ul>
CARDIOVASCULAR	Stationary bike (low resistance, if pain tolerates)
EXERCISE	
	Pain free massive DOM
PROGRESSION	Pain free passive ROM     Minimal graphing.
CRITERIA	Minimal swelling
	Concentric adduction against gravity without pain
	<ul> <li>Normal gait</li> </ul>

#### PHASE 2 (~5-8 weeks)

REHAB GOALS	1. Progress strengthening, balance

	2. Obtain/maintain full ROM
	3. Minimize pain and swelling
PRECAUTIONS	Compression shorts as needed     Ice as needed after activity
RANGE OF MOTION EXERCISES	<ul> <li>Continue phase 1 exercises</li> <li>Gentle passive ROM of adductor &amp; hip flexors</li> </ul>
SUGGESTED THERAPEUTIC EXERCISES	<ul> <li>Continue phase 1 exercises</li> <li>Concentric adduction w/ weight against gravity, adduction standing cable column/theraband, seated adduction machine</li> <li>Balance/proprioception- single leg stance, balance board tosses</li> <li>Agility- quick steps, tic tock</li> <li>Lateral band walks, sumo squats, balance board squats, leg press, sliding board in frontal plane, lunges, unweighted split jumps</li> <li>Plyometrics- lateral shuffles</li> <li>Sport specific – skater strides</li> </ul>
CARDIOVASCULAR	Continue phase 1
EXERCISE	Elliptical, stairmaster, swimming, treadmill long stride walking
	Forward/backward running- begin half speed, progress slowly as pain
	tolerates
PROGRESSION CRITERIA	<ul> <li>Passive ROM equal to contralateral</li> <li>75% adductor strength compared to abductors</li> </ul>

## **PHASE 3 (~9-12 weeks)**

REHAB GOALS	<ul><li>Progress strengthening &amp; LE drills</li><li>Minimize pain, inflammation</li></ul>
PRECAUTIONS	
RANGE OF MOTION EXERCISES	<ul> <li>Continue exercises from phase 2.</li> <li>Mobilizations/soft tissue technique as needed</li> </ul>
SUGGESTED THERAPEUTIC EXERCISES	<ul> <li>Continue exercises from phase 2</li> <li>Adductors- eccentric lengthened strengthening, ring squeezes, slide board side to side, standing resisted stride lengths on cable column</li> <li>Multi plane lunges</li> <li>Quick kick w/theraband, perturbation training</li> <li>Plyometrics- side to side bounding</li> </ul>

	<ul> <li>Sport specific- on ice kneeling adductor pull togethers</li> </ul>
CARDIOVASCULAR	Continue phase 2
EXERCISE	
PROGRESSION	o Full pain free active & passive ROM
CRITERIA	<ul> <li>No pain/swelling</li> </ul>
CHITEHIN	<ul> <li>Adductor strength equal to contralateral &amp; at least 90% of</li> </ul>
	abductor strength on involved side

### **PHASE 4 (~12+ weeks)**

REHAB GOALS	<ul> <li>No pain with sport activities</li> </ul>
KETINE GONES	<ul> <li>Improvement of strength, endurance, neuromuscular control</li> </ul>
	Return to sport/work
PRECAUTIONS	Post-activity soreness should resolve within 24 hours
TRECACTIONS	Avoid post activity swelling
RANGE OF	Continue with flexibility exercises from previous phase
MOTION	
EXERCISES	
LALICISES	
SUGGESTED	<ul> <li>Continue phase 3 activities. Progress with resistance/load.</li> </ul>
THERAPEUTIC	<ul> <li>Squats, dead lifts, cleans, snatches, split squats</li> </ul>
	<ul> <li>Sport specific- ice single limb stance</li> </ul>
EXERCISES	<ul> <li>Timed slide board slides</li> </ul>
	<ul> <li>Plyometrics- box jumps</li> </ul>
	<ul> <li>Sport specific drills when no pain/difficulty with activities of this</li> </ul>
	phase
CARDIOVASCULAR	Progress to baseline. Progress running
EXERCISE	
PROGRESSION	Full painless active & passive ROM
CRITERIA- RETURN	<ul> <li>Symmetrical strength</li> </ul>
	<ul> <li>No pain/discomfort after activity</li> </ul>
TO SPORT	<ul> <li>Completion of sport specific program</li> </ul>
	o Physician clearance