

Orthopedic Surgery, Sports Medicine & Arthroscopy Specialists

Jonathan Watson, MD REHABILITATION PROTOCOL-Nonoperative ankle sprain

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 (~0-1 weeks)

REHAB GOALS	1. Minimize swelling & pain
	2. Normalize gait
PRECAUTIONS	 RICE- Rest, ice, compression, elevation
	2. Lace up brace
RANGE OF	 Soft tissue mobilizations/techniques as tolerated
MOTION	 Non wt bearing dorsiflexion stretch w/UE assist. Syndesmotic
	sprains- axial traction to hindfoot during stretch
EXERCISES	
SUGGESTED	 As above
THERAPEUTIC	 Core, contralateral LE & UE strengthening as tolerated
	 Inversion/eversion/DF/PF isometrics, progress to isotonics with
EXERCISES	elastic band
	 Balance/proprioception- seated wobble board, progress to
	standing
	 Wall sits, partial squats, hip & knee exercises as tolerated
CARDIOVASCULAR	Stationary bike, swimming (limit kicking)
EXERCISE	
PROGRESSION	Symmetrical & pain free gait on even surface
	Full active ROM
CRITERIA	 Full & symmetrical unilateral heel raise
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PHASE 2 (Lateral- ~1-3 weeks, syndesmotic ~2-4 weeks)

REHAB GOALS	1. Restore normal knee flexion
	2. Minimize pain and swelling
PRECAUTIONS	1. Lace-up/Velcro brace
	2. Ice as needed after activity

RANGE OF MOTION EXERCISES	 Continue phase 1 exercises Modalities as needed Lateral sprains- standing calf stretches
SUGGESTED THERAPEUTIC EXERCISES	 Continue phase 1 exercises Bilateral standing toe raises, ankle isotonics Leg press, machine based hip/quad/hamstring strengthening, squats, lunges, lateral lunges, step ups Balance/proprioception- progress to single leg, involve UE activities, perturbations, etc Agility- light intensity ladders, start A/P, progress diagonal, lateral Star excursion balance test Plyometrics- pool jumping Sport specific- fielding/catching/passing, ground based stick work
CARDIOVASCULAR	Continue phase 1
EXERCISE	elliptical, treadmill walking, pool running
PROGRESSION CRITERIA	 Minimal/no effusion Symmetric gait No pain/instability

PHASE 3 (Lateral ~3-6 weeks, syndesmotic 4-6 weeks)

REHAB GOALS	 Progress strengthening
	 Minimize pain, inflammation
PRECAUTIONS	o Ice after activity
RANGE OF	 Continue exercises from phase 2.
MOTION	 Mobilizations/soft tissue technique as needed
EXERCISES	 Ankle stretching in closed chain
SUGGESTED	Continue exercises from phase 2
THERAPEUTIC	 LE strengthening- progress with weight/resistance
	 Balance/neuromuscular- Progress to unilateral, unstable,
EXERCISES	perturbations, etc
	 Agility- full speed ladders, cones, unilateral jumps to foam
	pad/BOSU
	 Plyometrics- box jumps, bounding, hurdle drills, split jumps,
	directional jumps
	 Sport specific- lateral slide board, skate sprints
CARDIOVASCULAR	Continue phase 2, start walk/run progression
EXERCISE	
PROGRESSION	o Pain free sprints

CRITERIA	 Unilateral hopping 90%
	 Full passive ROM

PHASE 4 (~weeks 7+)

REHAB GOALS	 No pain with sport activities Improvement of strength, endurance, neuromuscular control Return to sport/work
PRECAUTIONS	Post-activity soreness should resolve within 24 hours Avoid post activity swelling
RANGE OF MOTION EXERCISES	 Continue with flexibility exercises from previous phase
SUGGESTED THERAPEUTIC EXERCISES	 Continue phase 3 activities. Progress with resistance/load. Sport specific/agility- Increase speed/directional component as tolerated Balance neuromuscular- continue to progress to single leg, unstable surface, dynamic activities etc
CARDIOVASCULAR EXERCISE	Progress to baseline
PROGRESSION CRITERIA- RETURN TO SPORT	 No pain or instability Symmetrical ROM Symmetric gait for sprints & agility Unilateral hop/jump 90% contralateral Completion of sport/work specific program Physician clearance