

Orthopedic Surgery, Sports Medicine & Arthroscopy Specialists

Jonathan Watson, MD REHABILITATION PROTOCOL- Ankle Arthroscopy, microfracture

The rehabilitation guidelines are presented in a criterion based progression program. General time frames are given for reference to the average, but 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. It should not be a substitute for one's clinical decision making regarding the progression of a patient's post-operative course based on their physical exam findings, individual progress, and/or the presence of post-operative complications. The therapist should consult the referring physician with any questions or concerns.

Special attention must be given to impairments that caused the initial problem. For example, if the patient is s/p partial medial meniscectomy and they have a varus alignment, post-operative rehabilitation should include correcting muscle imbalances or postures that create medial compartment stress.

INDIVIDUAL CONSIDERATIONS: S/p

PHASE 1- Surgery to 2 weeks

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REHAB GOALS	1. Protection of the post-surgical repair
	2. Safe crutch walking
	3. Eliminate effusion/swelling
PRECAUTIONS	1. Crutches and non-weight bearing for 4 weeks, partial weight bearing
	after week 4, advance to full weight bearing at week 6
	2. Cryocuff 3-5 times per day for 20 minutes and ice after every therapy
	session
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RANGE OF	Passive hamstring, hip flexor, piroformis stretches
MOTION	 Passive plantar flexion
	 Hamstring & calf stretches
EXERCISES	
SUGGESTED	Seated leg raises
THERAPEUTIC	o 4 way SLRs
	 Gait training with crutches
EXERCISES	 Non wt bearing upper extremity strengthening
CARDIOVASCULAR	Upper body circuit training or UBE.
EXERCISE	
PROGRESSION	Minimal pain & swelling
CRITERIA	 SLR without extensor lag

	 Wound healing
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PHASE 2-3-6weeks

REHAB GOALS	1. Protection of the post-surgical repair
	2. Restore range of motion
	3. Begin ankle proprioception/stability
	4. Minimize pain and swelling
PRECAUTIONS	 Crutches and non-weight bearing as tolerated with brace locked in extension until week 4. After week 4 advance to partial weight bearing, gradually add ~10% weight bearing per day until full weightbearing at week 6. Avoid impact activities Cryocuff 3-5 times per day for 20 minutes and ice after every therapy session
RANGE OF MOTION EXERCISES	 Continue phase 1 activities Scar/soft tissue mobilizations as needed Begin moderate Achilles passive stretches Anterior tib, posterior tib, plantar fascia stretches
SUGGESTED THERAPEUTIC EXERCISES	 Continue phase 1 activities LE- lunges, knee extension/flexion open chain, progress strengthening UE, core- strengthening as tolerated Week 4-Ankle pumps, bent knee & straight knee calf raises Weight shifts when weight bearing Balance/proprioceptive- seated biodex balance system (if available), wobble boards, slide boards
CARDIOVASCULAR	Upper body circuit training (seated), core strengthening or UBE
EXERCISE	Week 4- stationary bike no/low resistance
PROGRESSION	At least 4/5 ankle strength
CRITERIA	o No effusion
	Full range of motion
	Acceptable balance for functional exercise

PHASE 3-7-10 weeks postop

REHAB GOALS	Maintain full ROM
	 Improve gait
	 Progress functional activities, balance, proprioception
PRECAUTIONS	 No impact activities or plyometrics
	 Continue ice post exercise

RANGE OF MOTION EXERCISES	 Continue exercises from phase 2. Passive soleus stretching
SUGGESTED THERAPEUTIC EXERCISES	 Continue phase 2 exercises Ball squats within painless ROM Balance/proprioceptive: BOSU ball, BAPS board, progress as tolerated to unilateral, unstable, etc Seated calf raises, toe curls with towels, step ups, medicine ball tosses on operative leg Resisted gait training
CARDIOVASCULAR EXERCISE	Continue phase 2 activities Pool walking
PROGRESSION CRITERIA	 Normal gait on all surfaces without assistive device Able to perform ADLs without problem Full, painless range of motion

PHASE 4-11-14 weeks postop

REHAB GOALS	Improve muscle strength & endurance
	Improve proprioception & balance
PRECAUTIONS	Post-activity soreness should resolve within 24 hours
	Avoid post activity swelling
	Continue ice post activity
RANGE OF	Continue with flexibility exercises
MOTION	
EXERCISES	
EXERCISES	
SUGGESTED	 Progress phase 3 activities with resistance/weight
THERAPEUTIC	 Standing & seated calf raises without weight
EXERCISES	 Balance/proprioception- cont to progress unstable surfaces, etc
EXERCISES	 Ball squat, sumo squat, ankle rocking against resistance
CARDIOVASCULAR	Continue phase 3 activities
EXERCISE	Elliptical
EXERCISE	Walking (can begin jogging on Alter-G treadmill if available)
PROGRESSION	 Full range of motion
CRITERIA	No pain with ADLs
CITICINA	 Able to walk 30 min without pain

PHASE 5-14-24 weeks

REHAB GOALS	Progress functional activity & strengthening Improve endurance
PRECAUTIONS	Post-activity soreness should resolve within 24 hours Avoid post activity swelling
RANGE OF MOTION EXERCISES	Continue with flexibility exercises
SUGGESTED THERAPEUTIC EXERCISES	 Progress strengthening from phase 4 Add weight to calf raises Agility- ladder drills LE- add dynamic lunges Progress balance/proprioception from phase 4 Progress plyometrics and agility training
CARDIOVASCULAR EXERCISE	 Continue to progress from phase 4. Week 20-ok to begin jogging
PROGRESSION CRITERIA	 No pain or swelling with activity Full ROM Able to perform bilateral jumps without pain

PHASE 6-25+ weeks

REHAB GOALS	Progress functional activity & strengthening
	Improve endurance
	Return to sport/work
PRECAUTIONS	Post-activity soreness should resolve within 24 hours
	Avoid post activity swelling
RANGE OF	Continue with flexibility exercises
MOTION	
EXERCISES	
EXERCISES	
SUGGESTED	 Progress strengthening from phase 5
THERAPEUTIC	 Agility- zig zag cutting, diagonals, figure 8s, back pedaling,
EXERCISES	carioca, lateral shuffles
EXERCISES	 LE- progress to power/Olympic lifts
	 Progress balance/proprioception from phase 5
	 Progress plyometrics from bilateral to unilateral, ladder drill with
	hurdles
	Trampoline drills
	 Sport specific drills

CARDIOVASCULAR	 Continue to progress from phase 4.
EXERCISE	 Jog/run progression
PROGRESSION	 No pain or swelling with sport/work specific activity
CRITERIA- RETURN	 Full pain free ROM
	 Ankle/LE- strength 90% of contralateral
TO SPORT	 Runner/sprinter- no perceived difference in ankle after
	appropriate distances