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Ankle Fracture – Operative (Early Weightbearing)

Phase	Restriction and	Physiotherapy	Rehabilitation		
	Precaution	intervention	Goals		
Post-Operative					
IMMEDIATE POST-OP (0-3 WEEKS)	 NWB, in post operative splint. Elevation of affected side in supine <i>"Toes above the Nose".</i> Do not get foot wet. 	 AROM of hip and knee Strengthening of hips, knees and core while maintaining NWB status. Education RE: use of gait aid, mobility, transfers, and stairs while maintaining WB status. 	 Protect repair. Promote incision healing. Control pain and swelling. Minimize loss of hip and knee ROM and strength. Minimize loss of core strength. 		
Criteria to Progress:					
- Follow-up appointme	nt with surgeon. Staples/sutu	ires removed. Adequate pain	control (< 5/10).		
INTERMEDIATE POST-OP (3-6 WEEKS)	 Gradual progression of WBAT in the cast boot. Cast boot on at all times except when working on ankle and foot exercises. Avoid post-exercise pain and swelling. 	 Commence ankle and toe AROM. Foot intrinsic strengthening. Submaximal 4-way ankle isometrics (light static contractions of the muscles). Continue with LE and core strengthening with cast boot on, WBAT. Proprioception (joint position sense). Scar mobilization once incision is fully healed. 	 Protect repair. Control pain and swelling. Improve proprioception. Minimize loss of hip, knee and ankle ROM and strength. Minimize loss of core strength. Increase scar mobility. Independence with home exercise program – to be performed daily. 		
Criteria to Progress: - Adequate pain contro - Minimal swelling (< 1 LATE POST-OP (6-12 WEEKS)	l (<3/10). cm difference w/ figure 8 me - Gradually wean out of the cast boot and	asurement). - Begin open and closed chain strengthening for the ankle.	- Normalize gait. - Restore proprioception.		

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	transition into a regular shoe. - WBAT. - Avoid post-exercise pain and swelling.	 Begin ankle stretching. Foot and ankle mobilizations as appropriate. Proprioception (joint position sense). Gait retraining +/- a gait aid as needed. Bilateral and unilateral balance exercises. Core, hip and knee strengthening exercises. Stationary cycling and other aerobic machines as tolerated. Swimming/pool jogging 	- Restore full ankle ROM - Begin controlled ankle strengthening.
Criteria to Progress: - No post-exercise pain - Normalized gait patte - Adeauate ioint positio	-	when incision healed	1
TRANSITIONAL RETURN TO SPORT (12 -20 WEEKS)	- Avoid post-exercise pain and swelling.	 Core, hip and knee strengthening exercises. Progress balance and proprioception exercises. Single leg progressions. Forward and lateral lunges Elliptical. Stair climber. Hop tests. Beginner level plyometrics. 	 Progress ankle and Ll strengthening. Normalize functional movements.
- Ankle ROM equal to u	ith 30 minutes of fast paced	walking.	
RETURN TO SPORT (20+ WEEKS)		 Interval walk/jog Return to running program Agility and plyometrics 	 Continue strengthening and proprioceptive exercises Initiate sport specific training Progress to full return



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AAROM – Active assisted range of motion AROM – Active range of motion ROM – Range of motion PROM – Passive range of motion WB – Weight bearing WBAT – Weight bearing as tolerated LSI – Limb symmetry index

Standing calf raise progressions: REPS

- Bilateral standing heel raises (25% body weight on affected side)
- Bilateral standing heel raises (50% body weight on both sides)
- Bilateral standing heel raises (75% body weight on affected side)
- Bilateral standing heel raise → Unilateral lowering.
- Unilateral standing heel raises

Beginner level plyometrics:

- 3x15 bilateral standing heel raises → Rebounding bilateral heel raises
- 3x15 unilateral heel raises → Rebounding unilateral heel raises

Good performance/tolerance with rebounding \rightarrow Bilateral hopping in place \rightarrow Unilateral hopping in place

Single leg progressions/variations:

- Single leg press
 - Sliding board lunges (all directions)
- Step ups +/- march
- Lateral step ups
- Step downs
- Single leg wall slides
- Single leg squats