Lower Limb Exertional Compartment Syndrome

Table 2: Differential Diagnoses of Exercise-Associated Leg Pain $^{19,\,20}$

Diagnosis	Distinguishing History	Physical exam	Key Diagnostic Testing
Popliteal Artery Entrapment Syndrome (PAES)	 Insidious severe leg and foot claudication Lower extremity numbness, paresthesias, discoloration to pallor, and thermal changes 	 Calf hypertrophy Pedal pulse aberrations with dorsiflexion / plantar flexion 	Vascular studies: ABI, duplex ultrasonography, MR angiography
Peripheral Arterial Disease (PAD)	 Exercise induced Resolution quickly following (<5 mins) 	 Decreased pulsations Trophic changes Decreased cap refill 	Vascular studies
Medial Tibial Stress Syndrome (MTSS)	 Pain located over inner, distal 2/3s of tibia absence of other findings (feelings of fullness, paresthesias, etc) 	 Tenderness to palpation along posteromedial tibia Localized edema 	MRI, bone scan
Stress Fracture	Focal painPersistent during rest	 Localized tibial pain with palpation Worsened with hopping 	XR, MRI, Bone scan
Fascial Hernia	 Palpable muscle herniations Absence of other symptoms 	• Visible defects, +/- tenderness	MRI, ultrasound
MSK disorder (strain, tendon injury, etc)	Localized painAggravates with stretching	Often reproducible with targeted physical exam maneuvers	MRI, ultrasound
Nerve entrapment/ mononeuropathy/ polyneuropathy	Paresthesias or sensory deficitsLack of control	Objective sensory changesWeakness	EMG/NCS