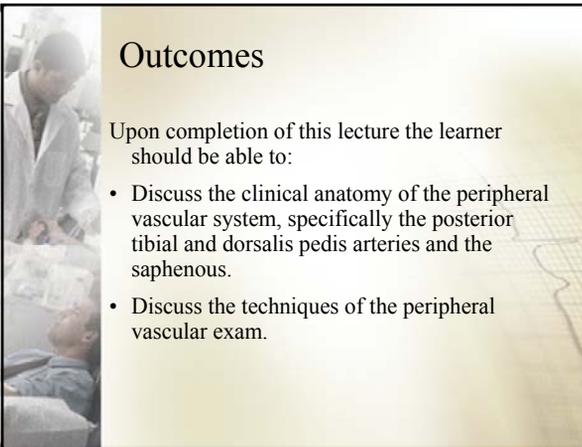


**EMC 340 Introduction to
Clinical Medicine**

32 Peripheral Vascular

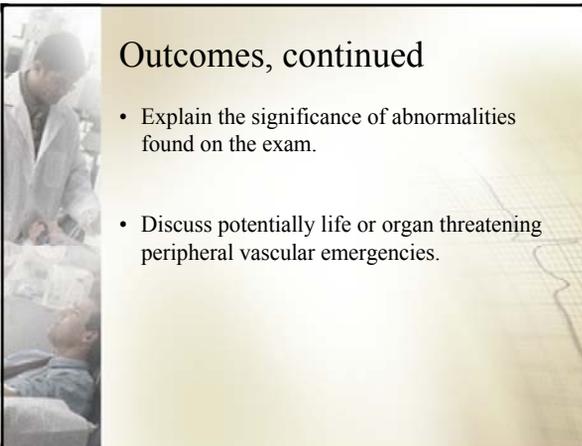
David Trigg, MD



Outcomes

Upon completion of this lecture the learner should be able to:

- Discuss the clinical anatomy of the peripheral vascular system, specifically the posterior tibial and dorsalis pedis arteries and the saphenous.
- Discuss the techniques of the peripheral vascular exam.



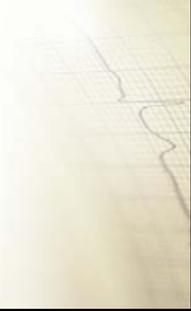
Outcomes, continued

- Explain the significance of abnormalities found on the exam.
- Discuss potentially life or organ threatening peripheral vascular emergencies.



Peripheral Vascular System

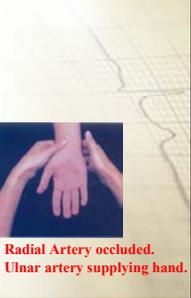
- Anatomy
 - Radial artery
 - Ulnar artery
 - Femoral nerve, artery, vein
 - Popliteal artery
 - Posterior tibial artery
 - Dorsalis pedis artery
 - Saphenous vein (great)





Techniques of Examination

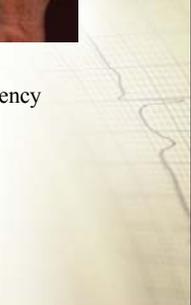
- Distal pulses
 - Posterior tibial artery
 - Dorsalis pedis artery
- Allen test
 - 
 - Radial & Ulnar Artery Occluded**
 - Radial Artery occluded. Ulnar artery supplying hand.**





Abnormalities

- Raynaud's disease
- Peripheral vascular disease
 - Chronic arterial insufficiency
 - devitalized ulcers
 - Chronic venous
 - red, weeping ulcers





Acute Arterial Occlusion

- History
 - Atrial fibrillation
- Physical Exam
 - Pulseless
 - Painful
 - Pallor
 - Paresthesias
 - Paralysis
 - Cold

Candidate for immediate vascular intervention



Venous Occlusion

Deep Vein Thrombosis

- History
 - Risk factors
- Physical Exam
 - Not pulseless
 - Tender calf on palpation and on dorsiflexion
 - Rubor; no pallor
 - Not cold; warm



Summary

We have discussed:

- Clinical anatomy and the techniques of the peripheral vascular exam.
- The typical history and physical findings of acute arterial occlusion and venous occlusion.
- A potentially organ-threatening peripheral vascular emergency.
- A potentially life-threatening peripheral vascular emergency.
