Lower Extremity

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Goals

1. To teach *clinically relevant* gross anatomy
2. To make it easier to understand gross anatomy
3. To introduce a clinical lexicon
Organization

1. 4 presentations to the entire class
   1. Lower extremity/thorax
   2. Abdomen/pelvis/perineum
   3. Upper extremity/back
   4. Head and neck

2. Optional review session before each examination
Examinations

1. 4 radiologic unknowns on each examination

2. Radiographs used for the exams are displayed in the lab

3. Each examination unknown is labeled in PowerPoint
Learning Objectives:
Identify all objects indicated by arrows on the radiological images in this presentation

The same images are on the viewboxes in the lab
PLEASE

Do not touch films with gloves, pens, sharp instruments, etc.
Radiographic Anatomy Of The Foot
Oblique Foot

- Metatarsals
- Lateral Cuneiform
- Cuboid
- Navicular
- Talus
Metatarsals

Cuboid

Talus

Calcaneus

Lateral cuneiform

Lateral Foot
Fell from ladder

Fracture calcaneus
Angiographic Anatomy of the Lower Extremity
Anterior Thigh

- External iliac artery
- Inguinal ligament
- Common femoral artery
- Profunda femoris artery
- Superficial femoral artery
Posterior Knee

- Popliteal artery
- Anterior tibial artery
- Peroneal artery
- Posterior tibial artery

LAT

MEDIAL
Anterior Knee

Anterior tibial artery
Anterior Ankle

Medial

Anterior tibial artery

Dorsalis pedis artery
AP Knee

Superficial femoral artery

Popliteal artery

Anterior tibial artery

Posterior tibial artery

Peroneal artery

LATERAL
Lateral Ankle

Posterior Tibial Artery

Anterior Tibial Artery

Dorsalis Pedis Artery
66YO smoker, claudication

Marked narrowing of the SFA with extensive collaterals which will reconstitute the popliteal a
Following angioplasty
MR Anatomy of the Knee
Left Knee From Above

Lateral Meniscus

Medial Meniscus

Anterior Cruciate

Posterior Cruciate

LAT

ANT
Knee MR, Medial

- Medial femoral condyle
- Medial condyle of tibia
- Medial meniscus
- Anterior horn
- Post horn
- Gastrocnemius
32 YO man, knee pain

Ruptured posterior cruciate ligament
Femur

Tibia

Anterior cruciate ligament
Quad-riceps tendon

Patella
tendon

Lateral femoral condyle

Lateral meniscus

Ant horn

Post horn

Lateral condyle of the tibia
Lower Extremity

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