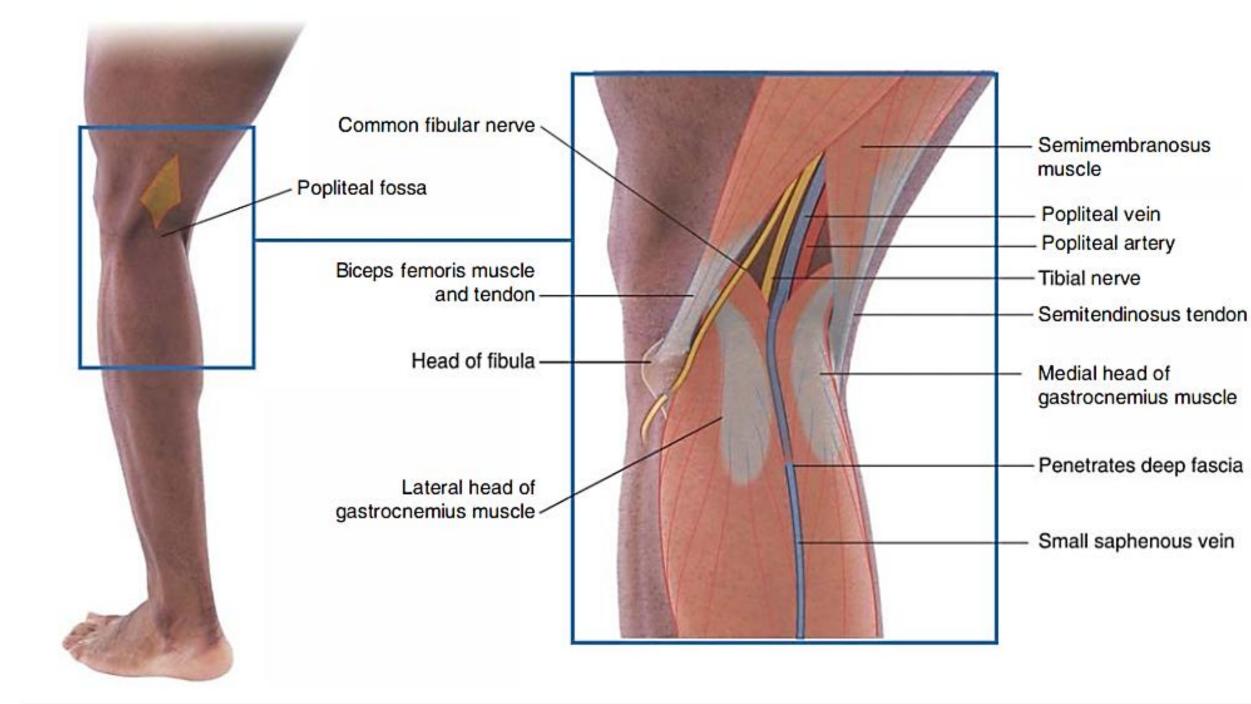
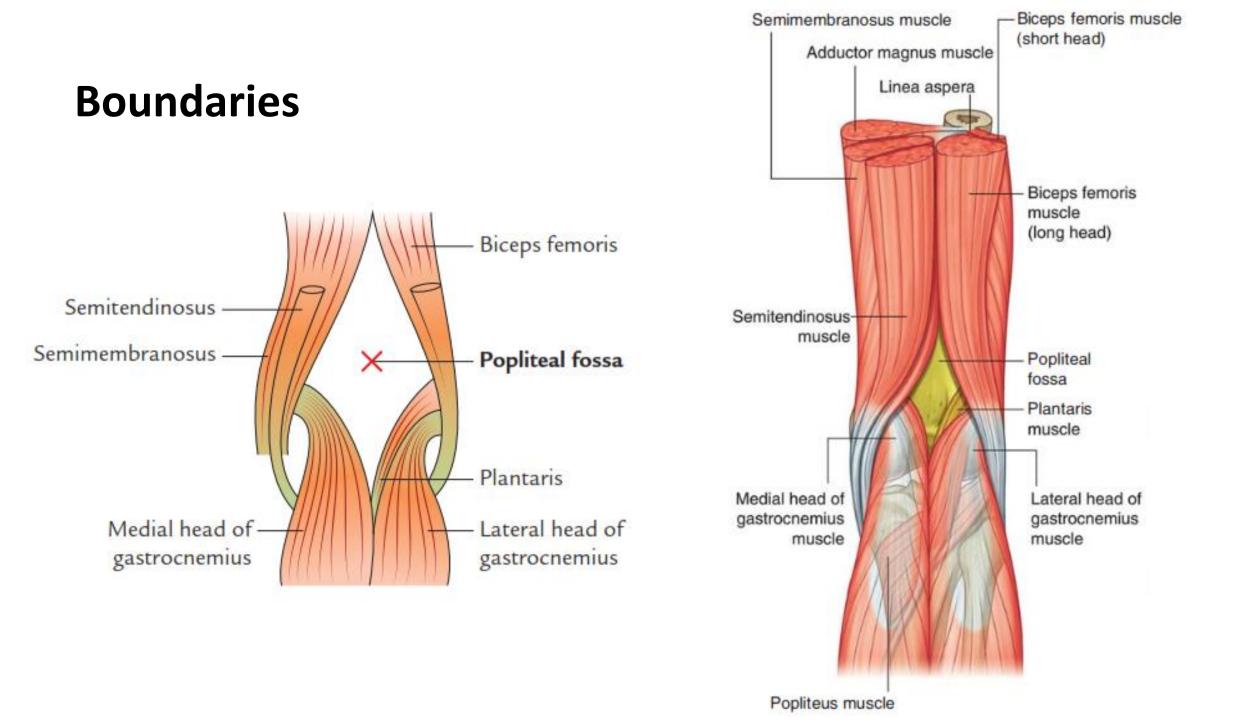
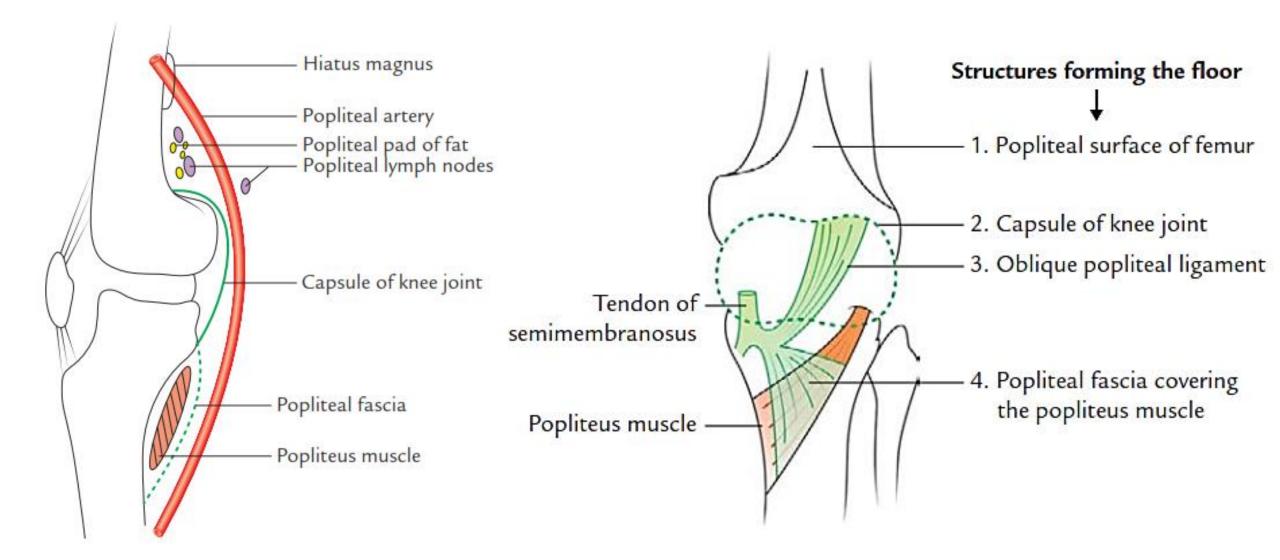
Popliteal fossa, veins of the lower limb & nerve injuries of the lower limb

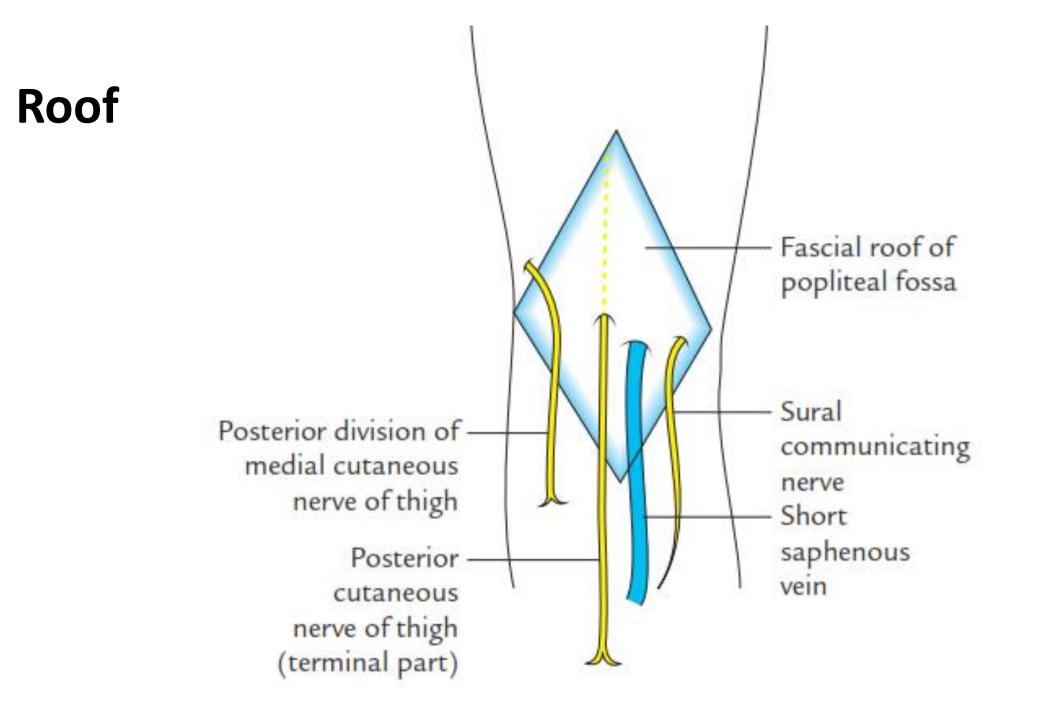






Floor

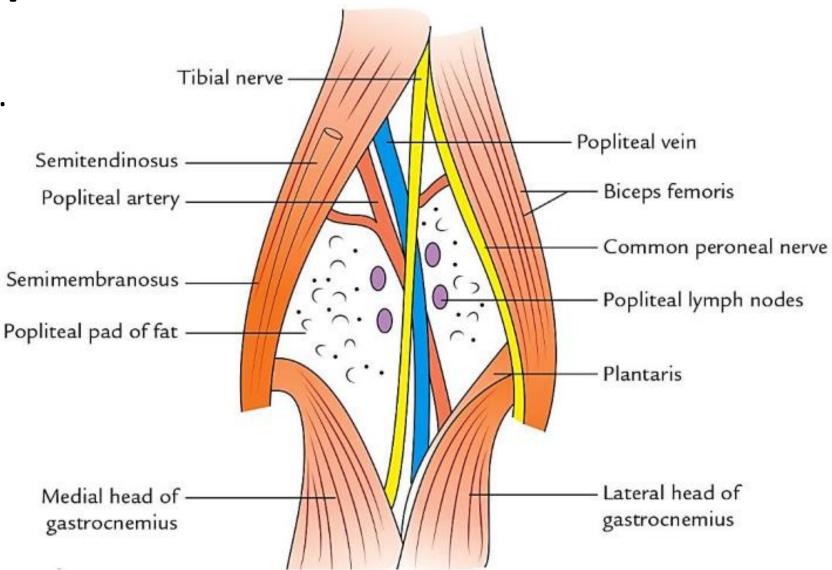


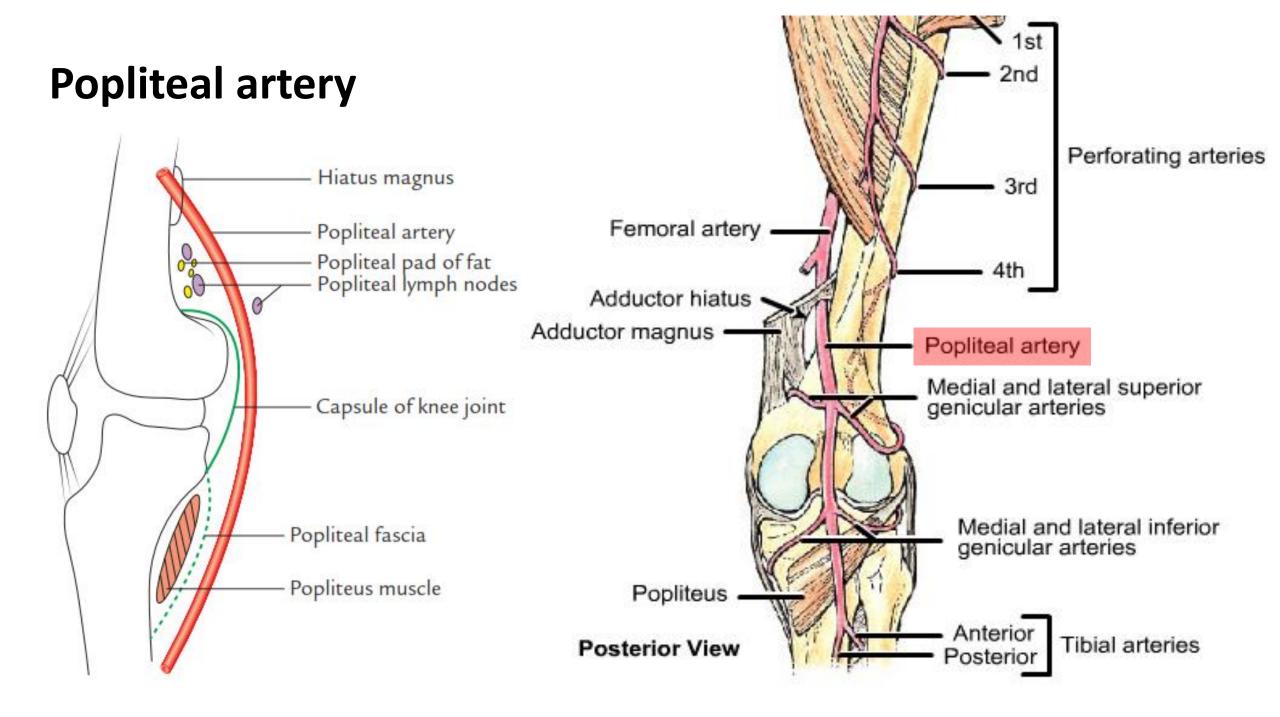


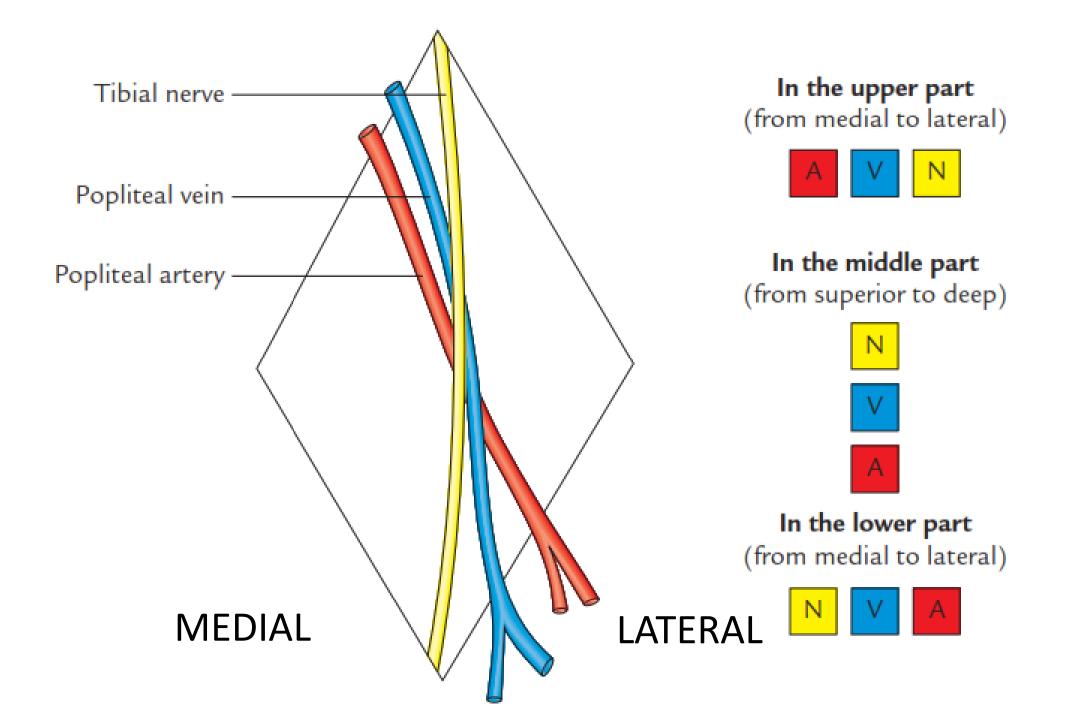
Contents of the popliteal fossa

- 1. Terminal brs. of sciatic n.
- 3. Popliteal artery
- 4. Popliteal vein.
- 5. Popliteal lymph nodes.
- 6. Popliteal pad of fat.
- 7. PCNT
- 8. Genicular branch of the

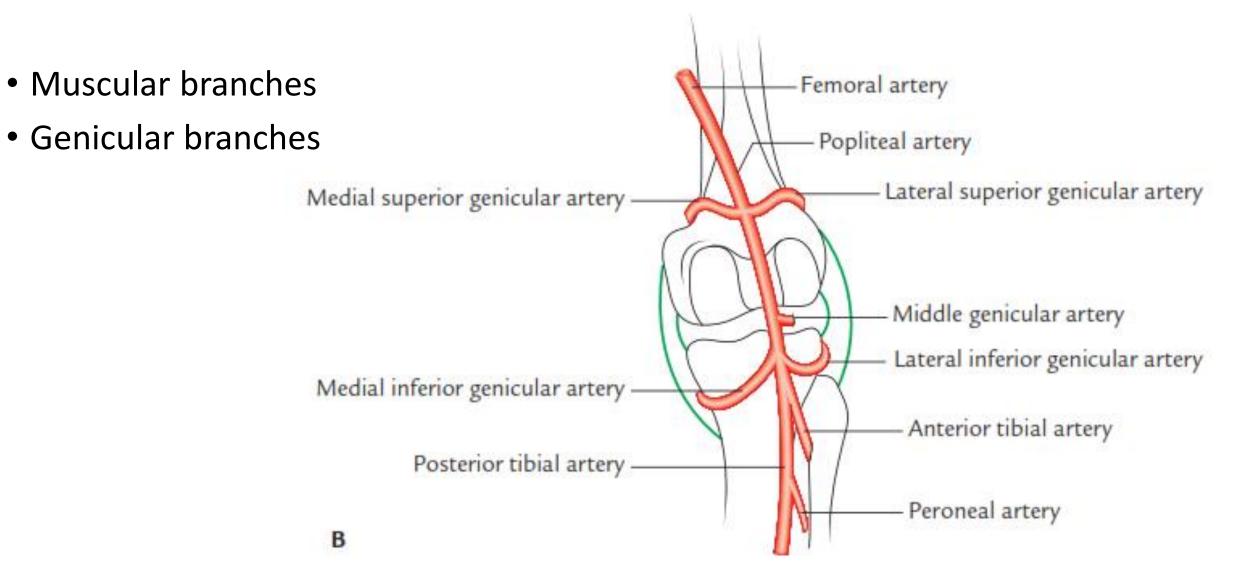
obturator nerve

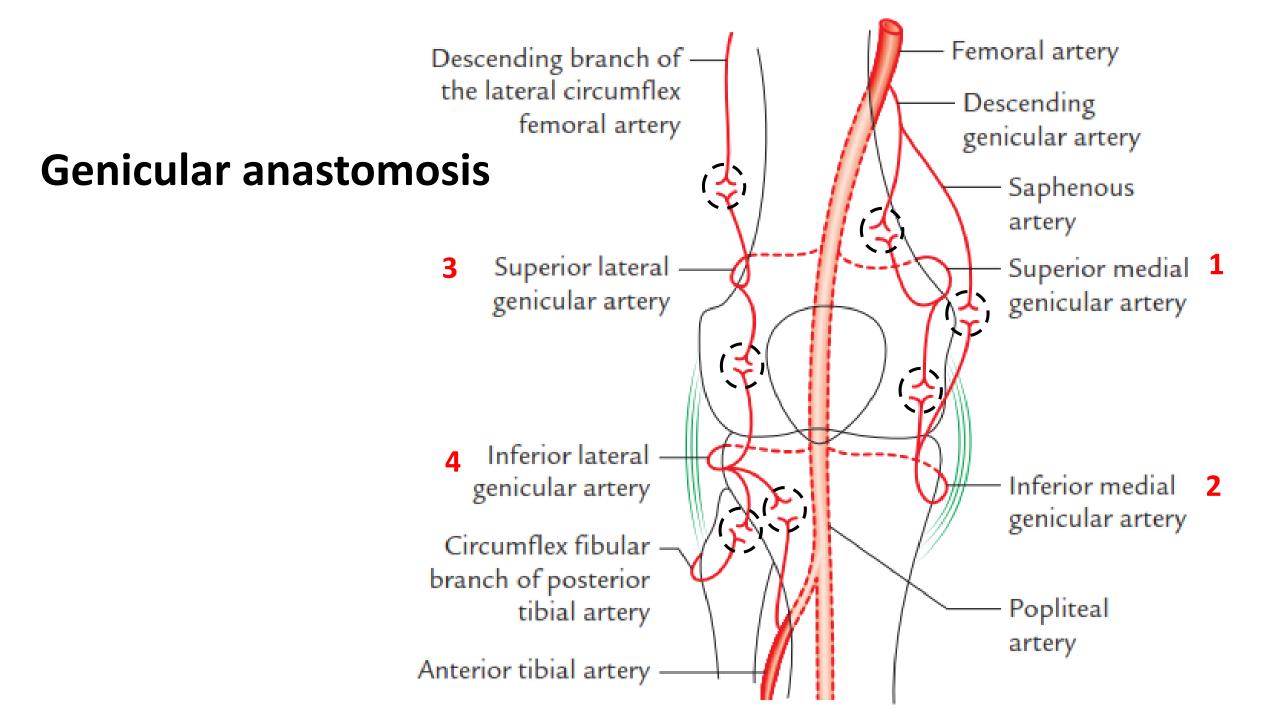


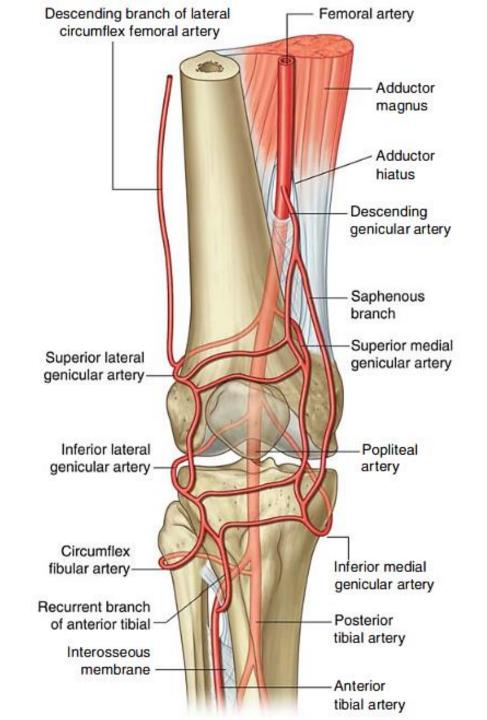




Popliteal artery

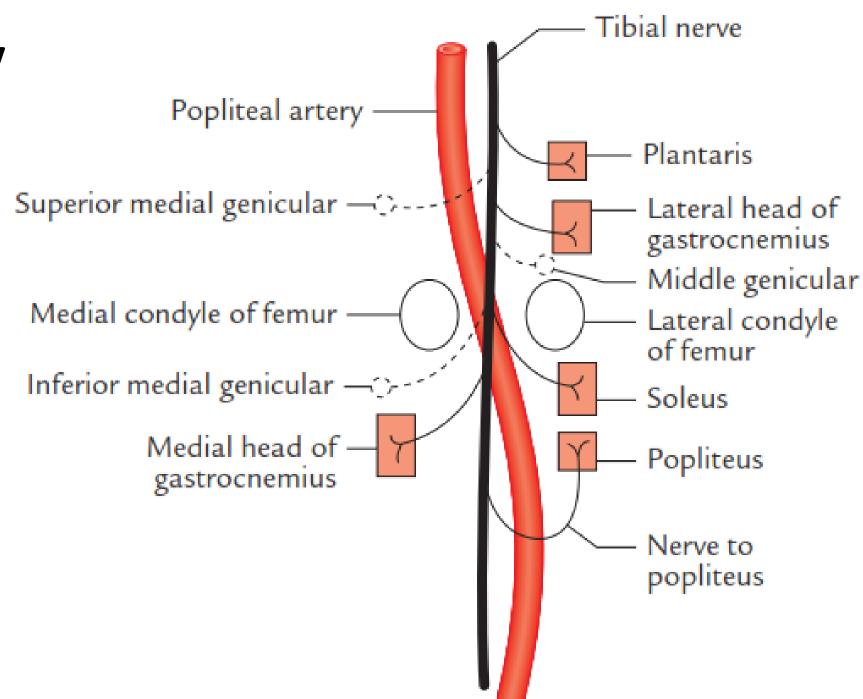




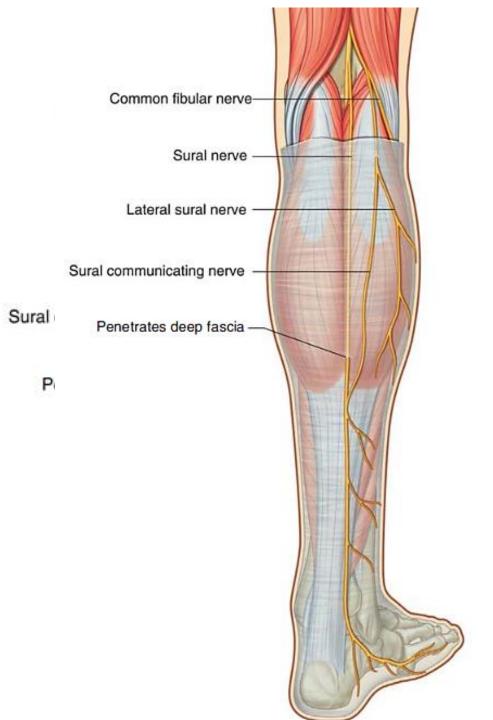


Popliteal artery Tibial nerve

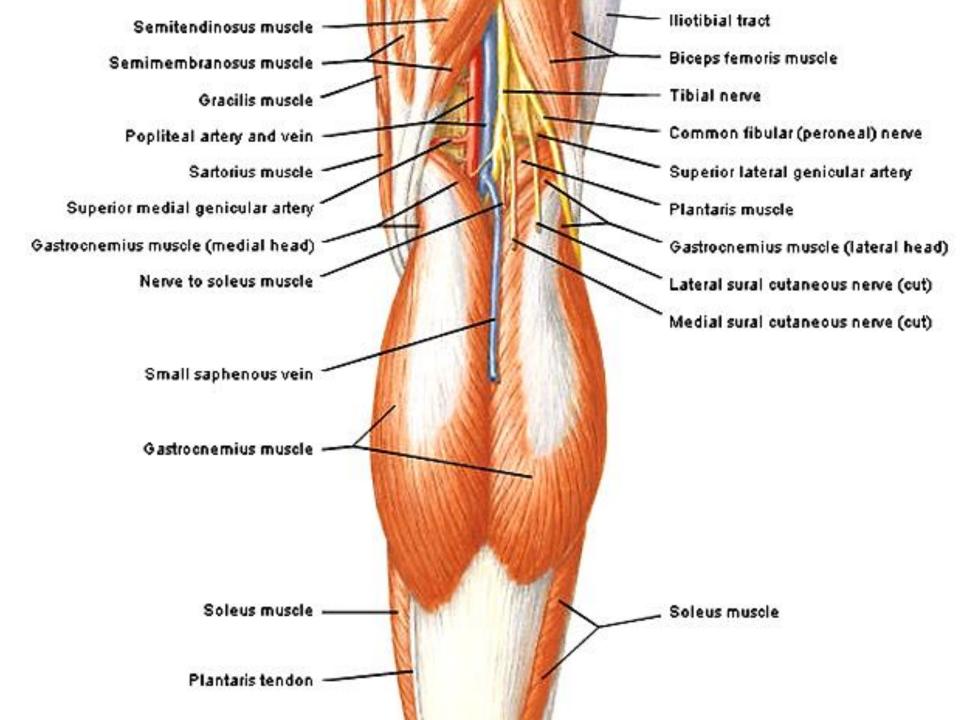
- Muscular brs.
- Genicular brs.

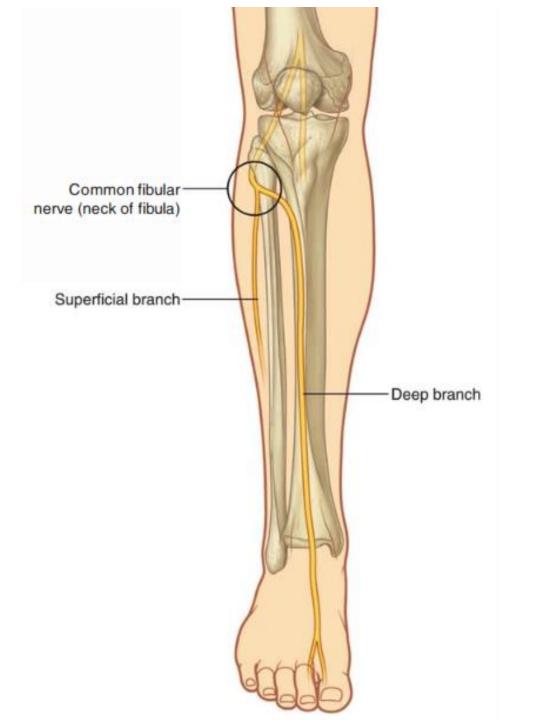


Sural nerve

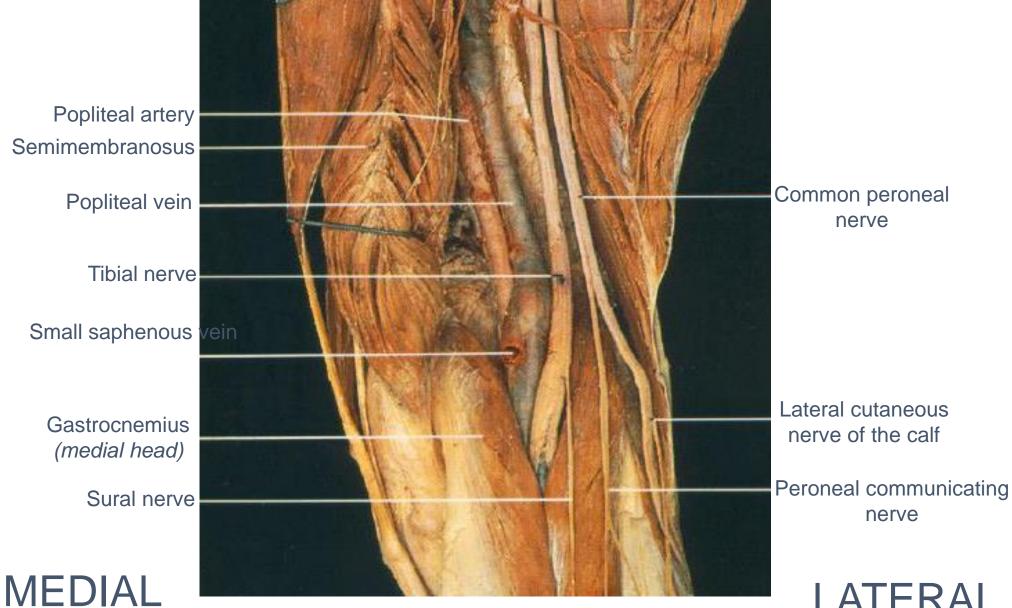


The common peroneal nerve





Right Popliteal Fossa



LATERAL

\mathcal{V} Clinical correlation

Palpation of the popliteal artery pulse

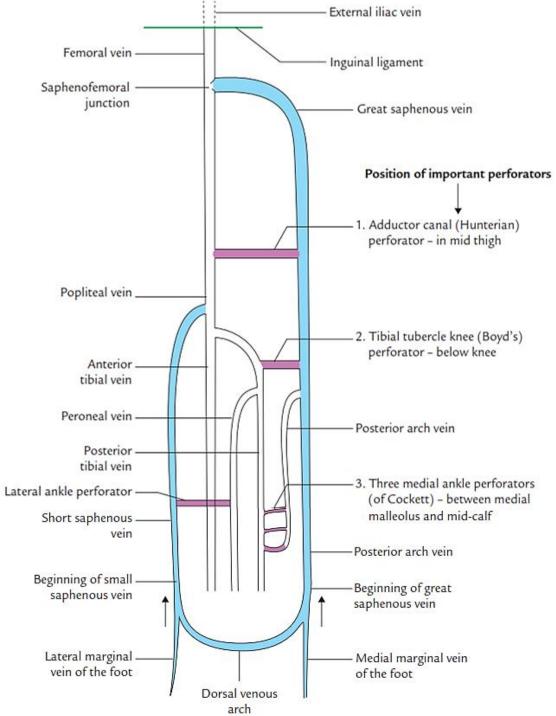


Veins of the lower limb



Classification of veins

- Superficial veins
- Perforating veins
- Deep veins



Factors help draining venous blood

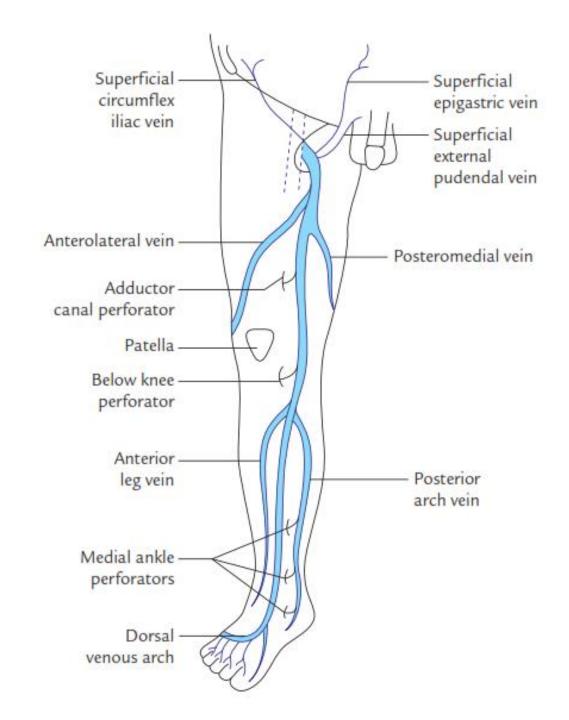
- Calf muscle contraction
- Valves in the veins
- Arterial pulsation of adjacent arteries
- Negative pressure in the thorax
- Lying in recumbent position

Long (great) saphenous vein

- Course
- Tributaries
- At leg: post. arch vein, ant. leg vein

Communicating veins with short saphenous

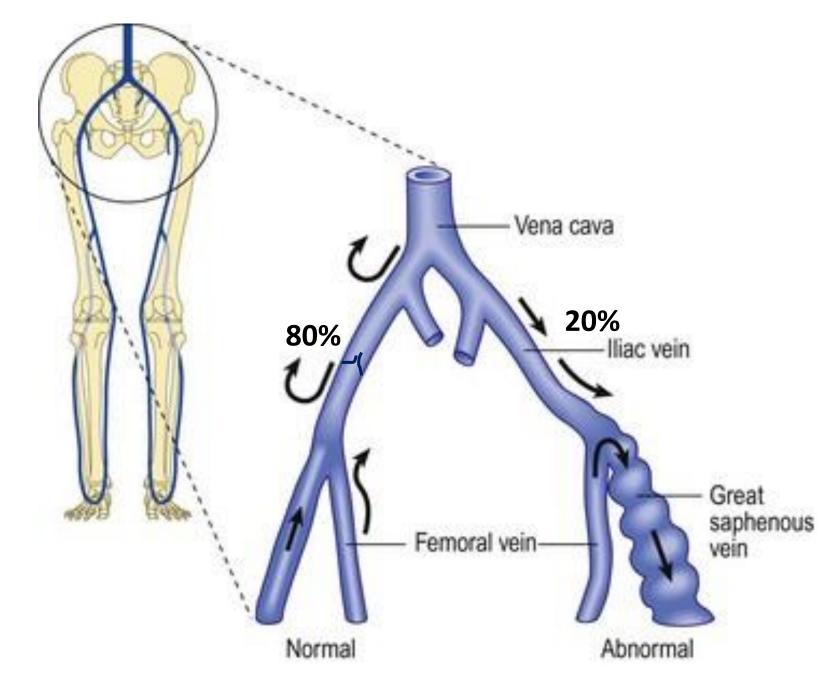
At the thigh: anterolateral & posteromedial
At saphenous hiatus: 3 superficial



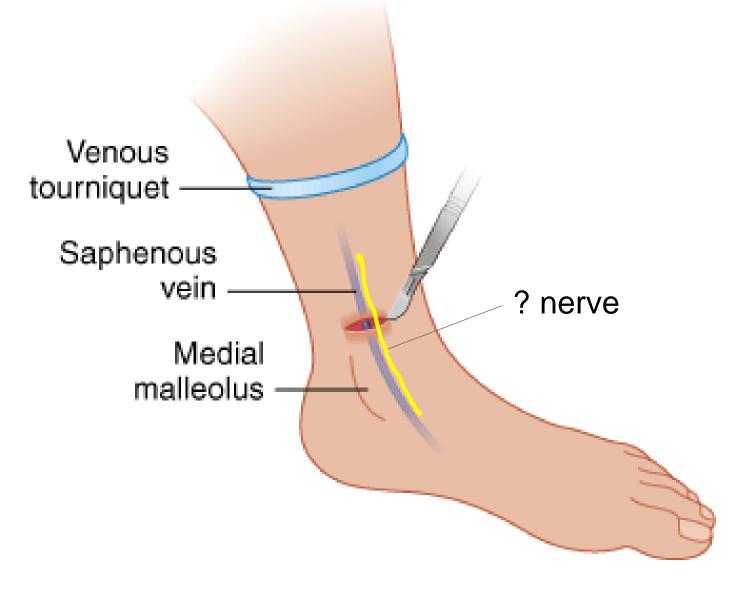
10-20 valves

Saphinofemoral junction

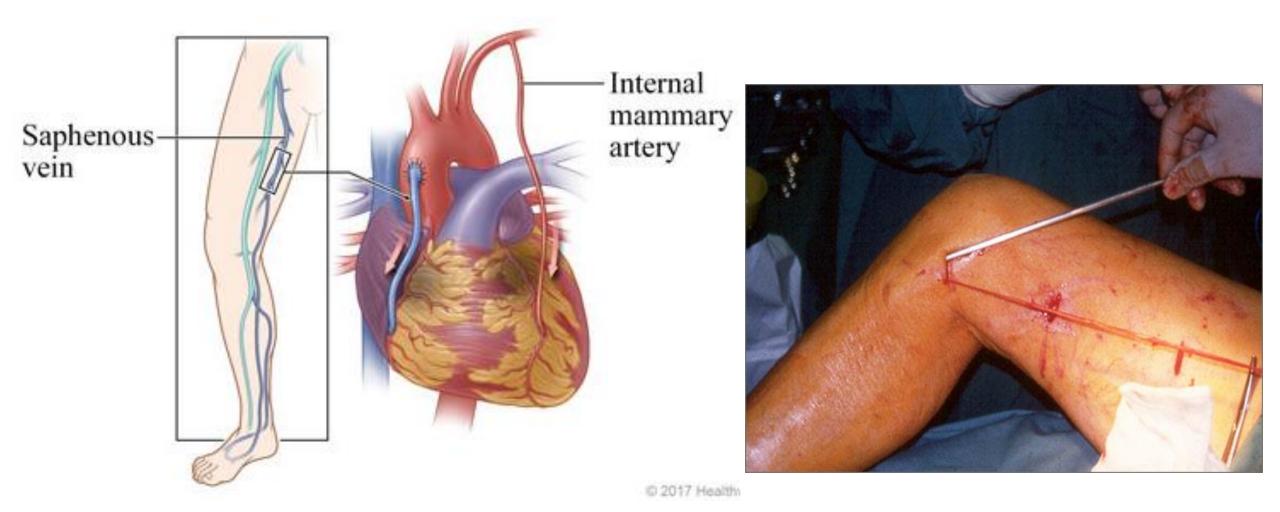
80% external iliac vein valve



Great saphenous venesection



Coronary artery bypass graft (CABG)



Short (small) saphenous 1 1 Great saphenous vein

Popliteal vein

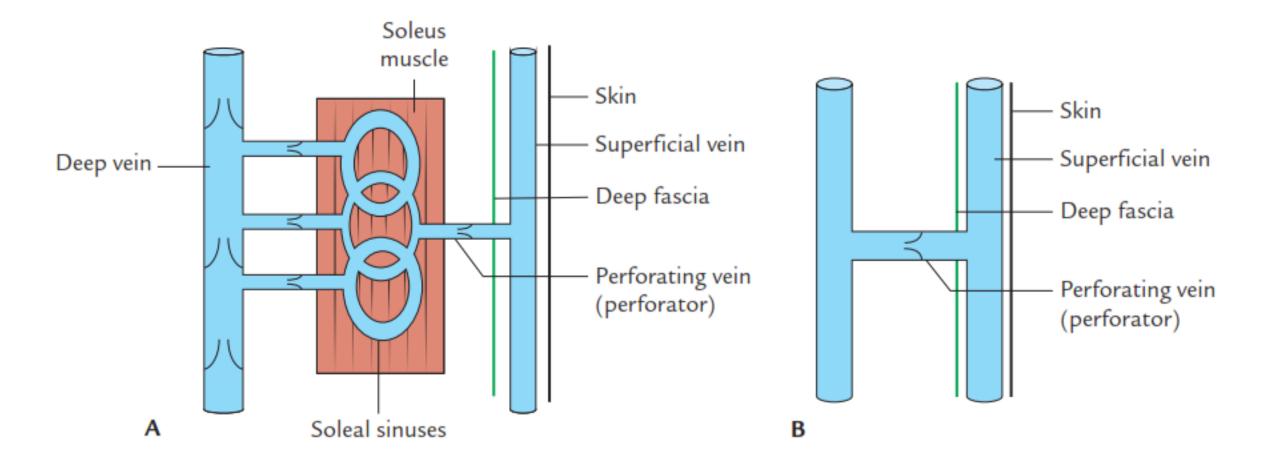
saphenous vein

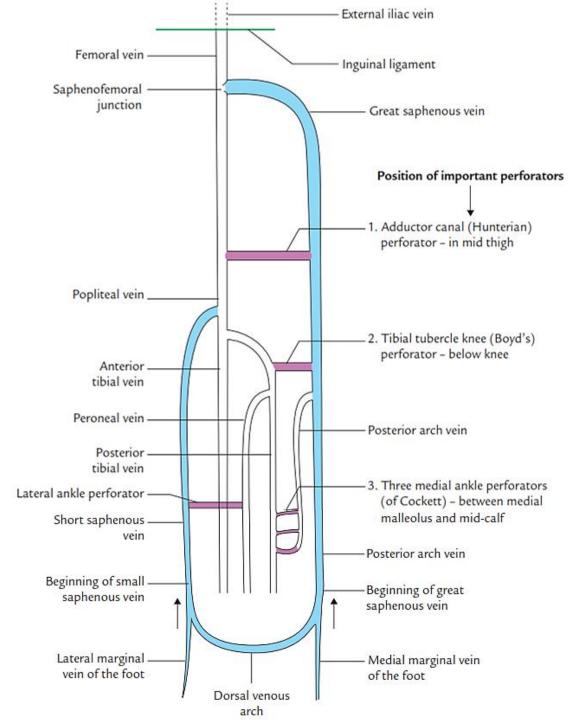
Lateral ankle

perforator

Short

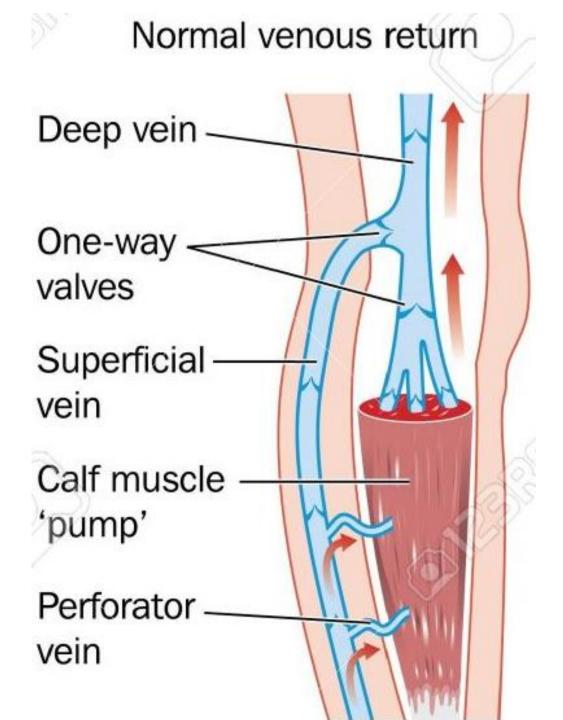
Perforating veins





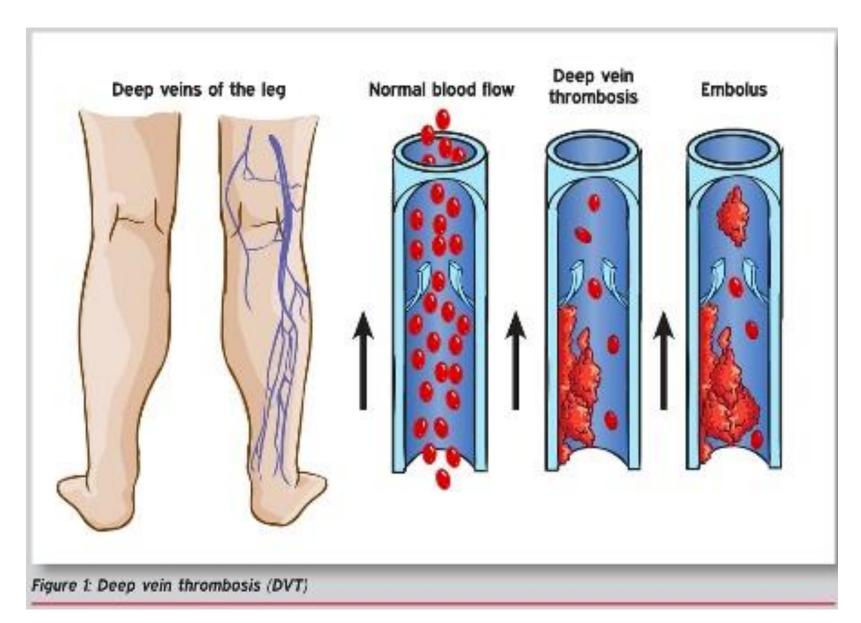
Peripheral (second) heart

• Calf pump





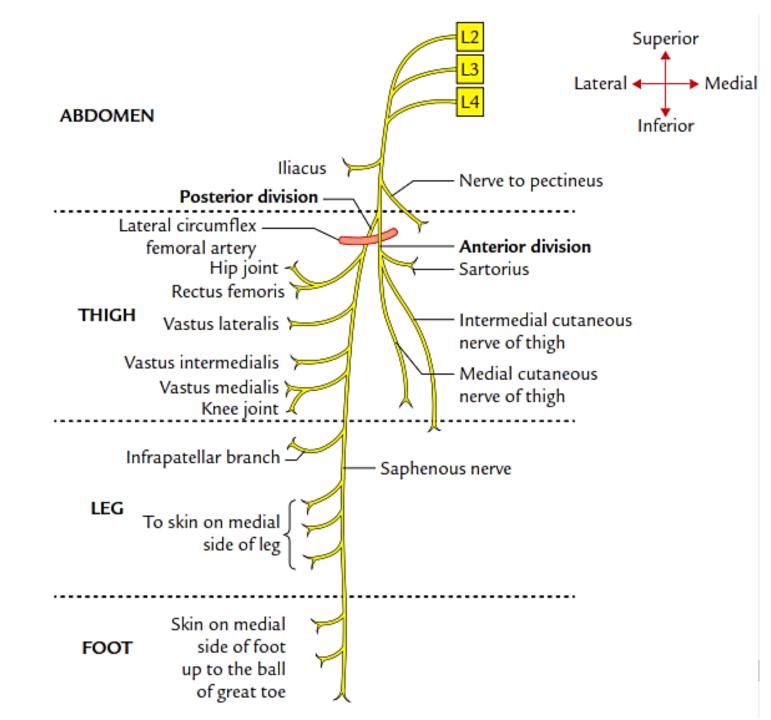
Deep venous thrombosis



Lower limb Nerve injuries

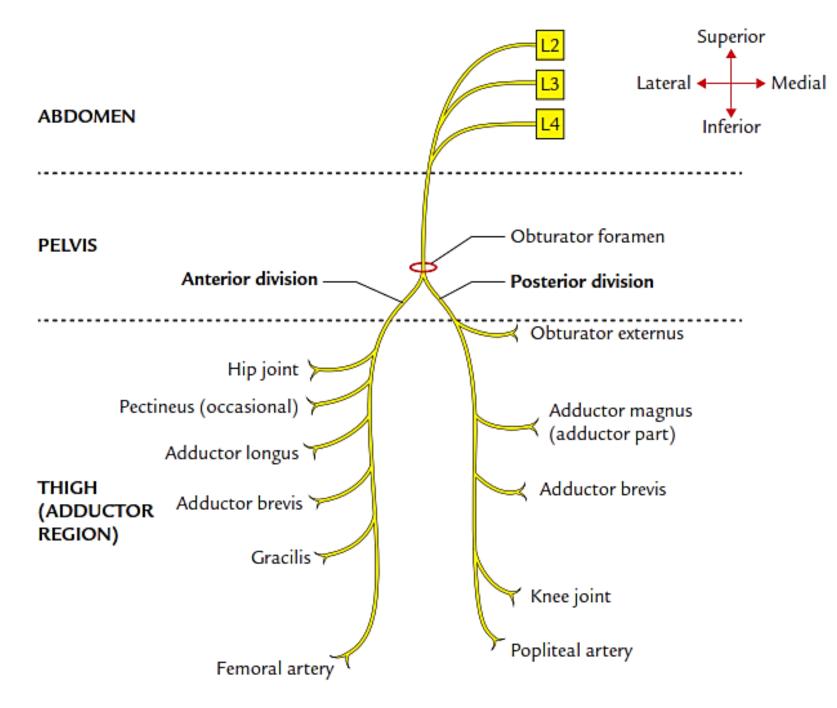


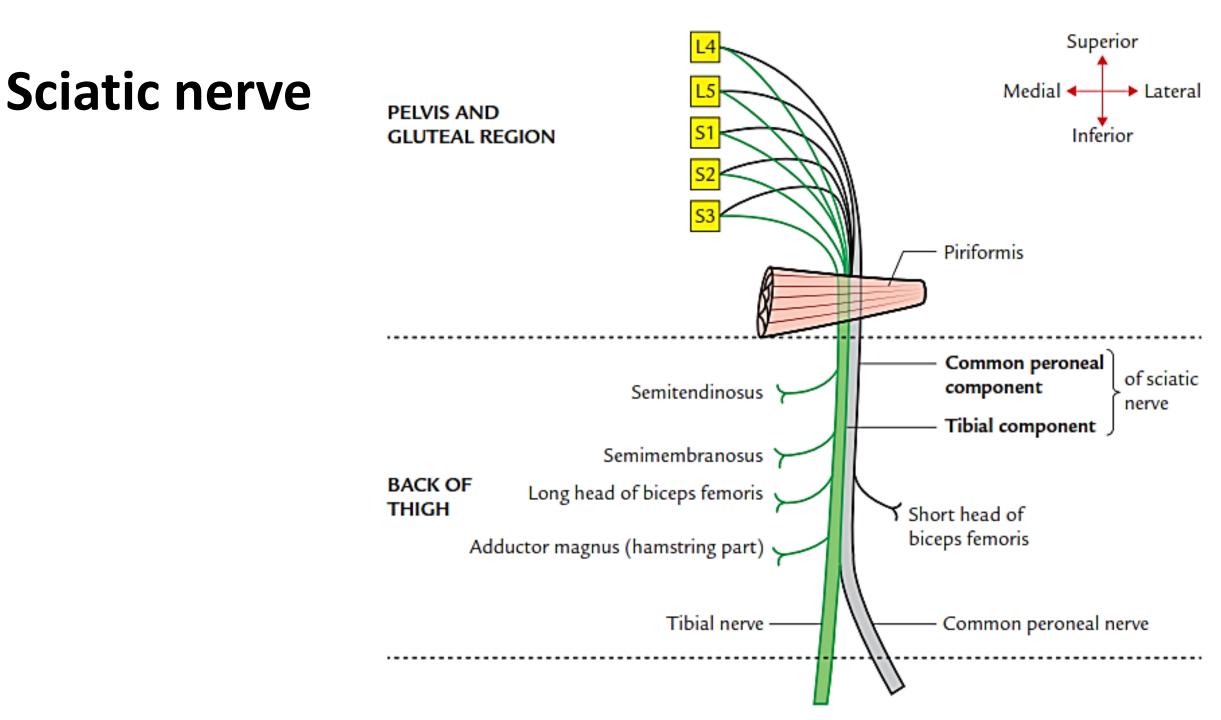
Femoral nerve



Quadriceps muscle atrophy

Obturator nerve

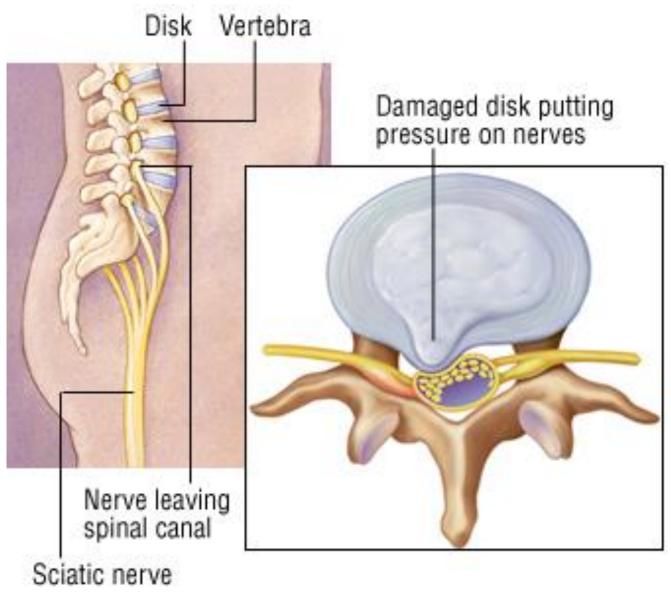




Disc prolapse & sciatica

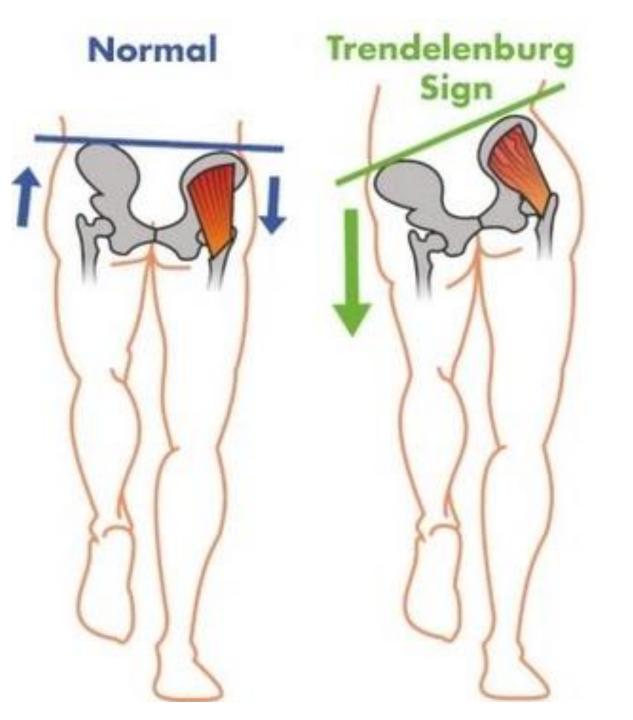
• L5-S1

• L4-L5

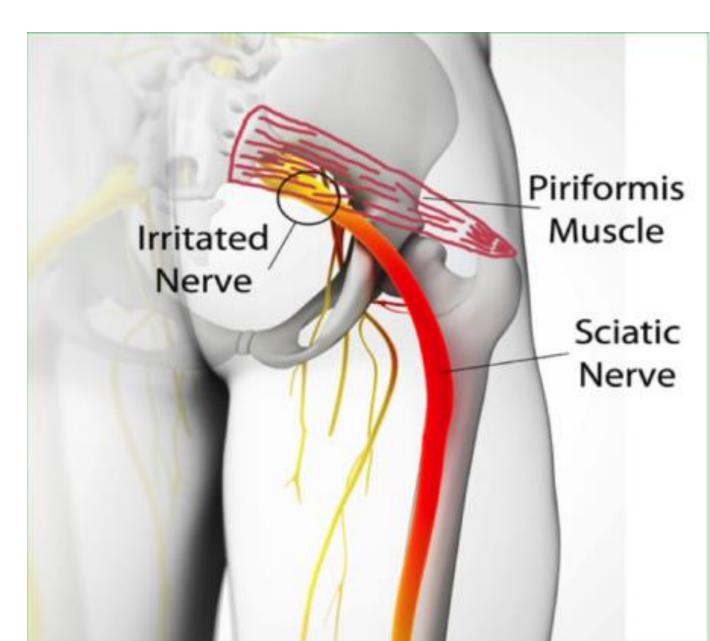


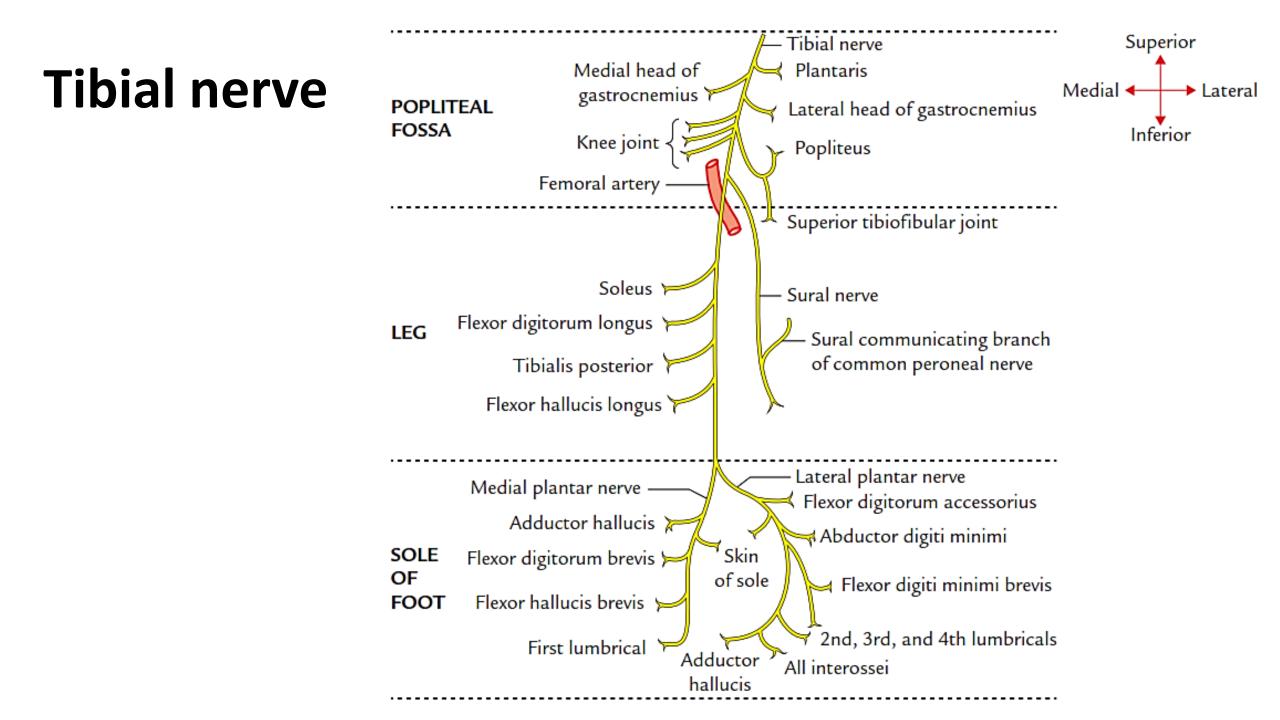
Hip abductors

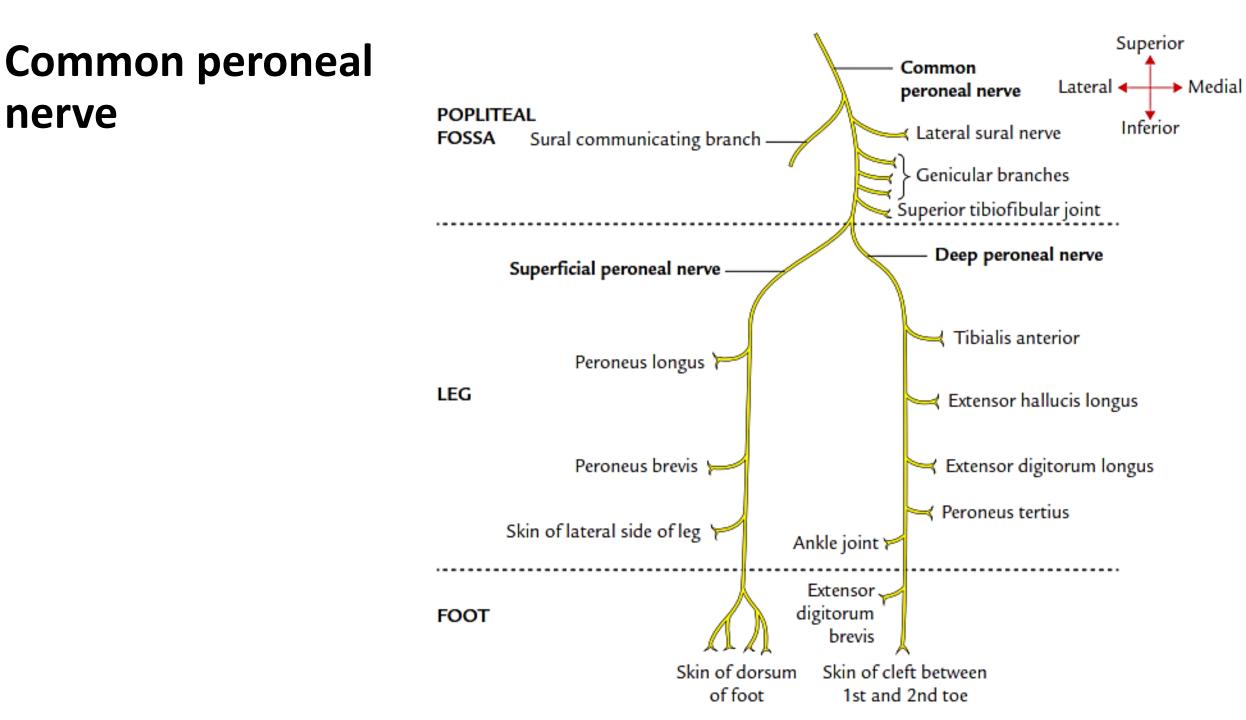
- Sup. Gluteal nerve injury
- Trendelenburg sign

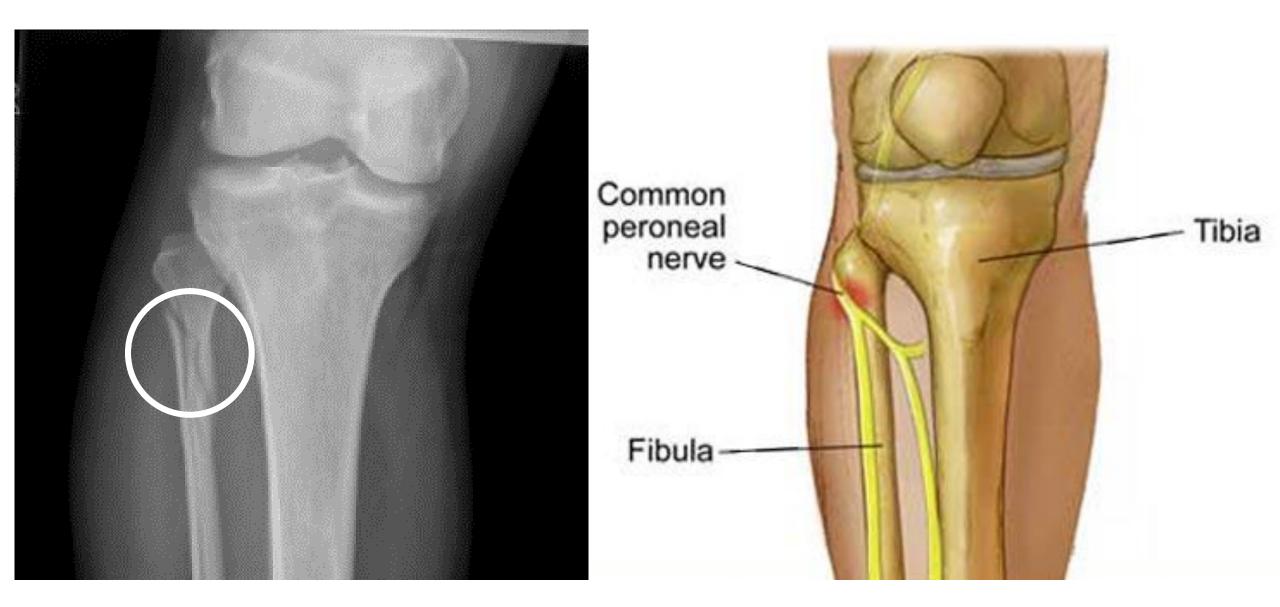


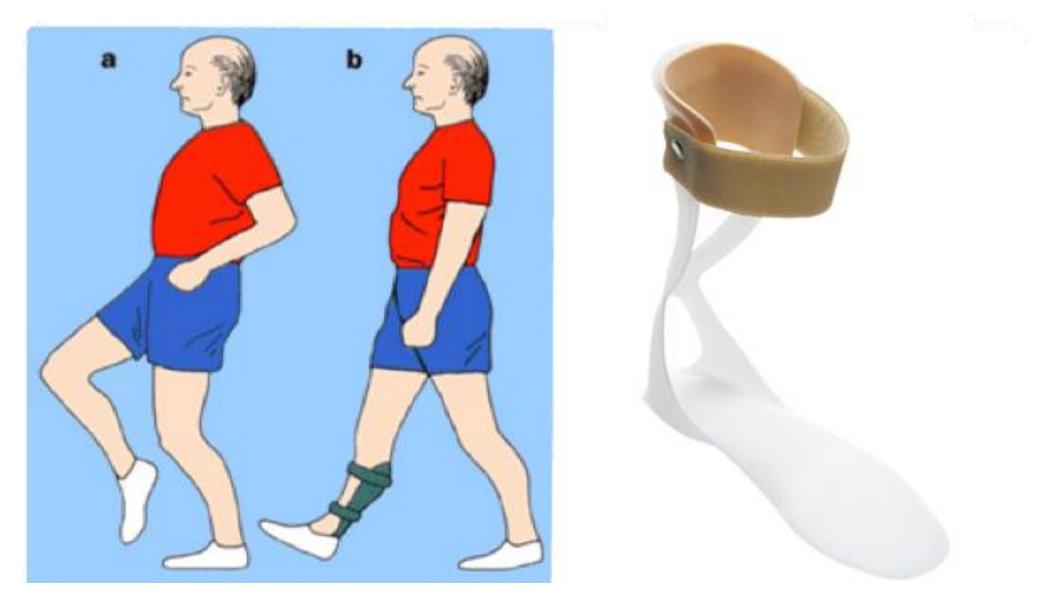
Piriformis syndrome





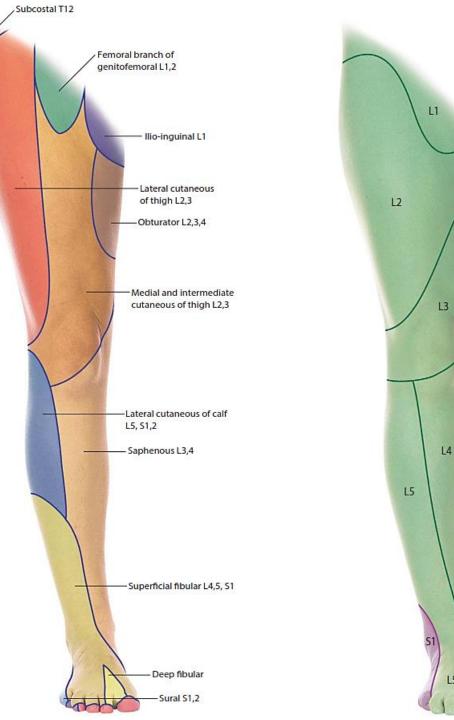






Foot drop

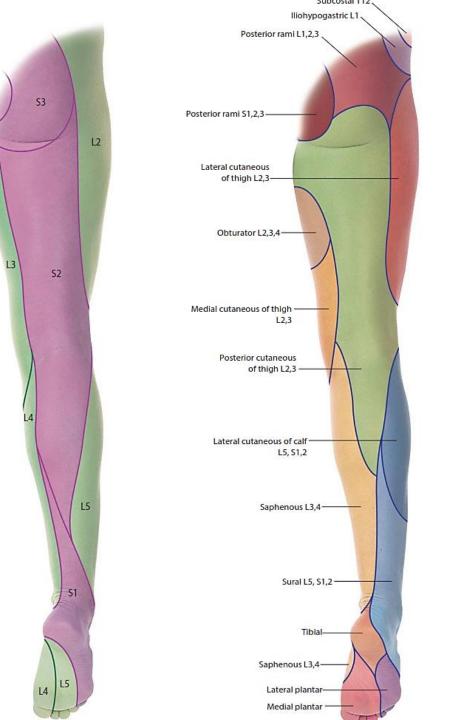
Dermatomes



L4

L5

L4



S4

Myotomes

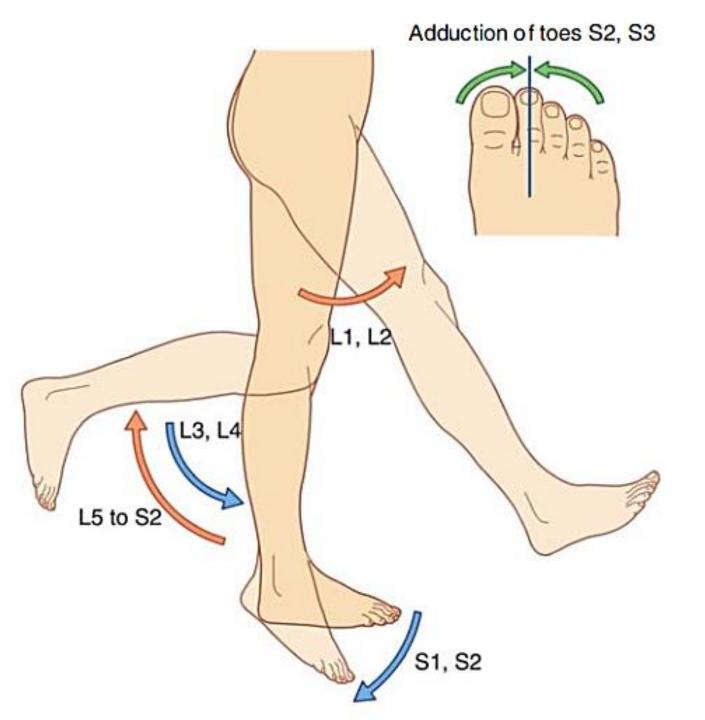
Hip flexion L1, L2

Knee extension L3, L4

Knee flexion L5, S1, S2

Ankle planter flexion S1, S2

Toes adduction S2, S3



Ankle jerk

S1, S2 spinal levels

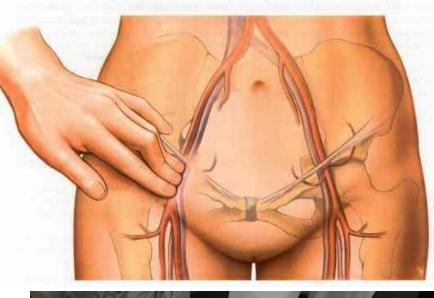


Knee jerk (patellar reflex)

L3, L4 spinal levels



Lower limb pulses









thank you