

Anterior & Lateral Fascial Compartments of the leg

Lab Session 8

Dr. Hayder Jalil Al-Assam

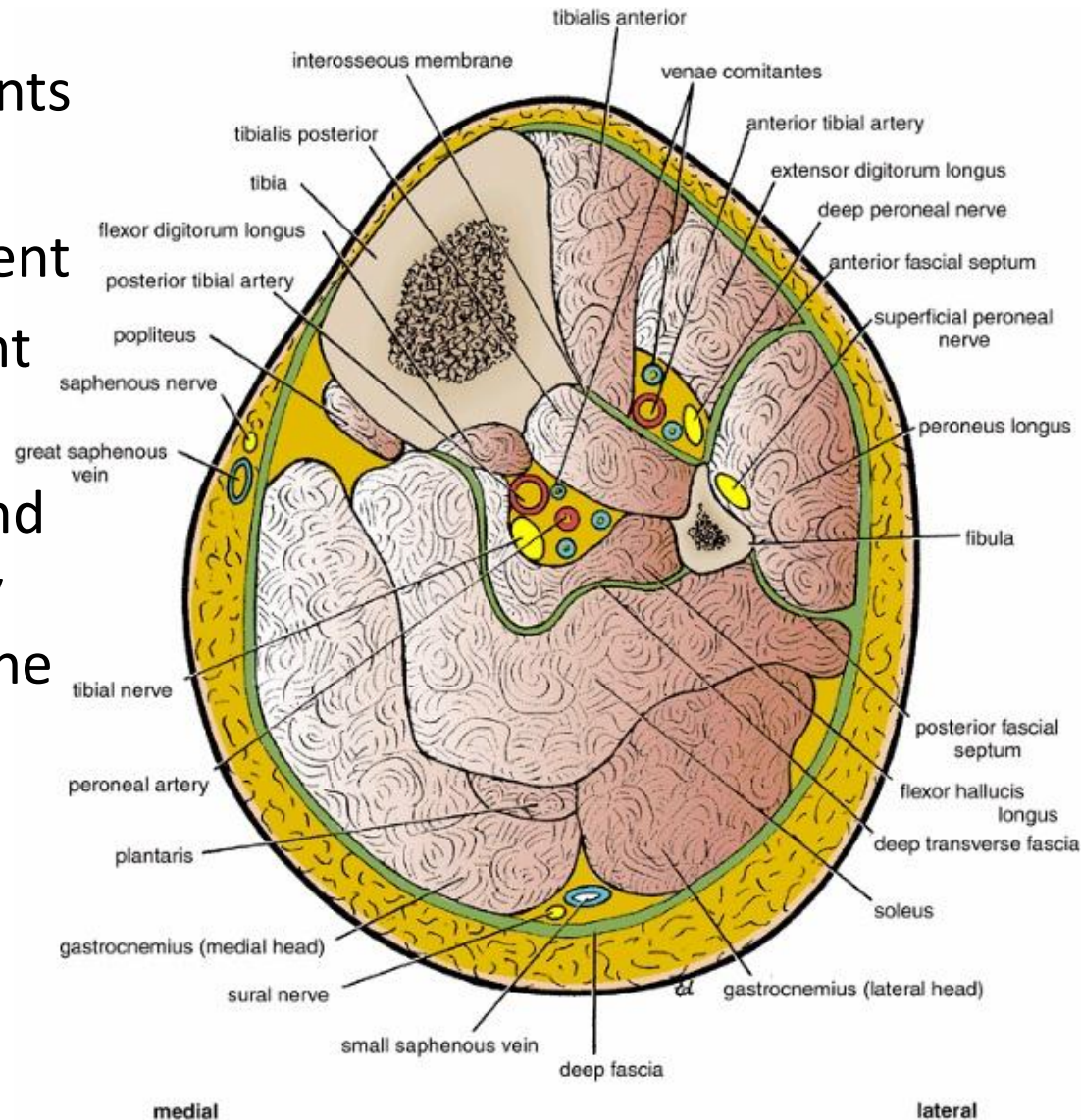
MBChB (Iraq), MRes Anatomy (UK)

Email: dr_hayder_anatomy@yahoo.com

Fascial Compartments of the leg

- There are three compartments of the leg:

1. Anterior fascial compartment
2. Lateral fascial compartment
3. Posterior fascial compartment (has deep and superficial sub-divisions by deep transverse fascia of the leg).



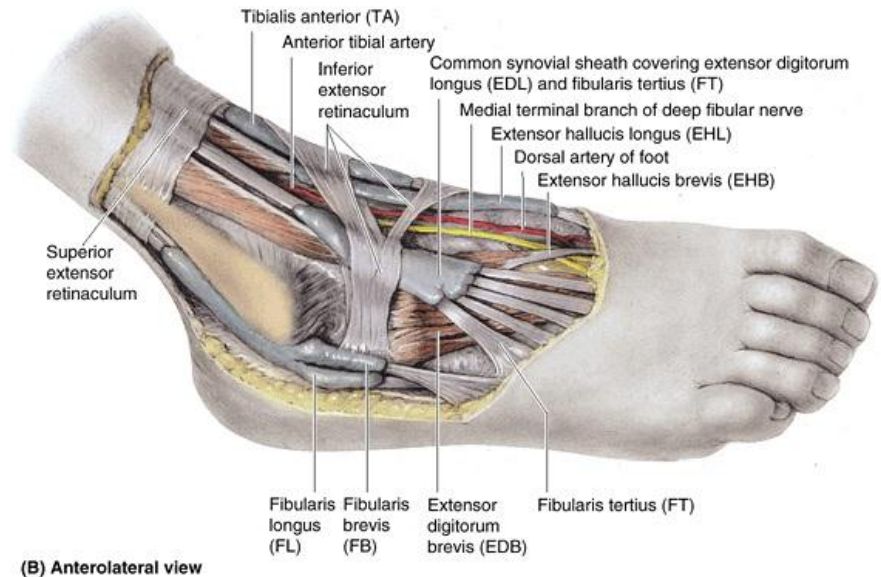
Retinacula of the ankle

1. Superior Extensor retinaculum
2. Inferior Extensor retinaculum
3. Flexor Retinaculum
4. Superior Peroneal retinaculum
5. Inferior Peroneal retinaculum

- **Superior Extensor Retinaculum**

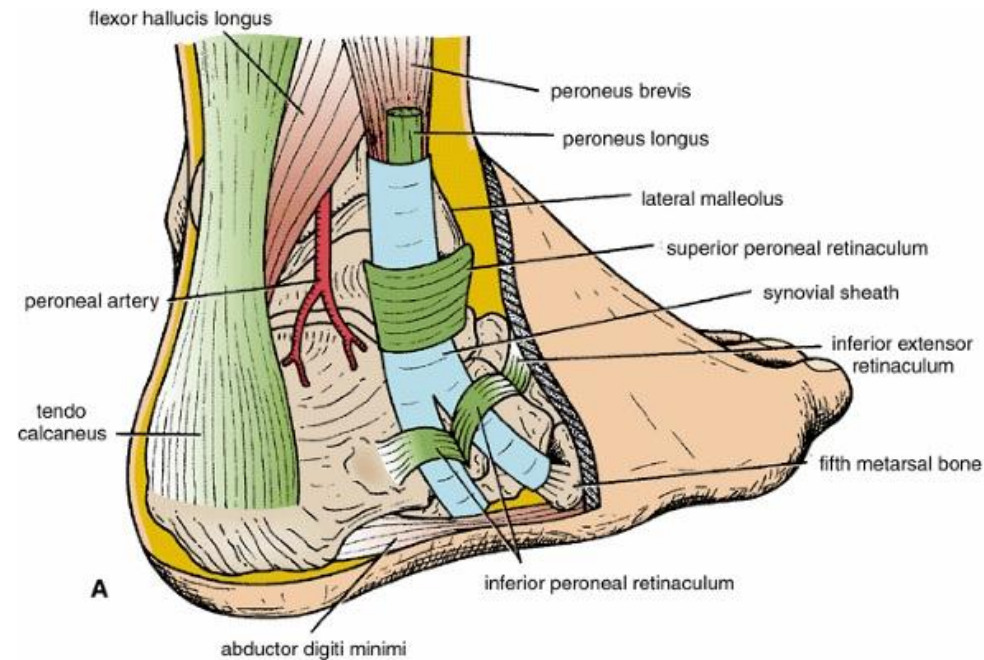


- **Inferior Extensor Retinaculum**

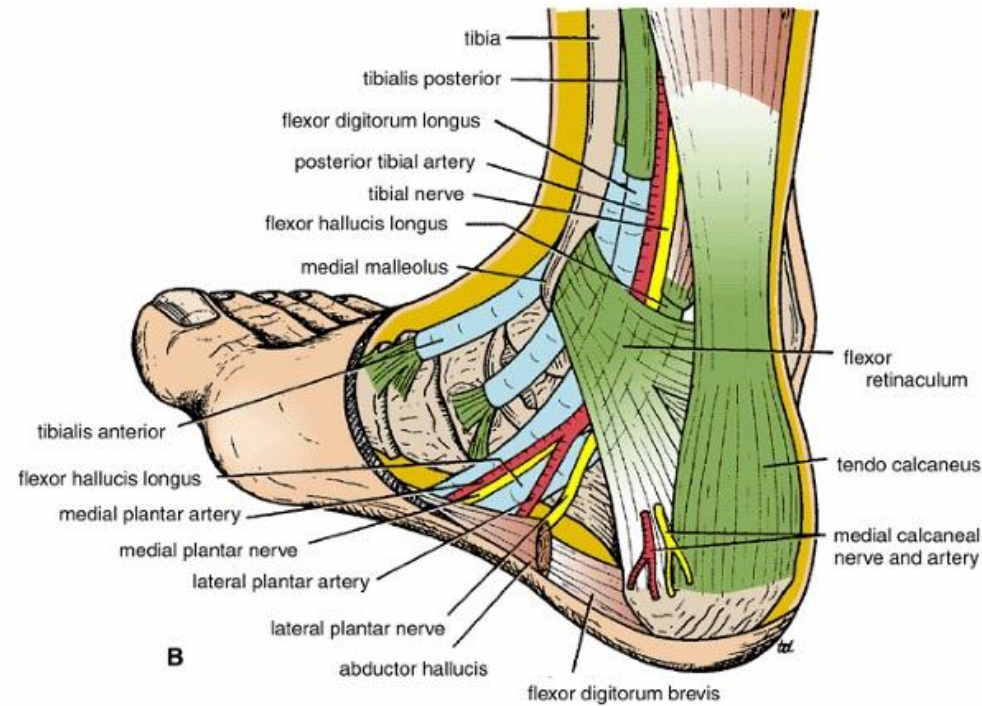


- **Superior Peroneal Retinaculum**

- **Inferior Peroneal Retinaculum**

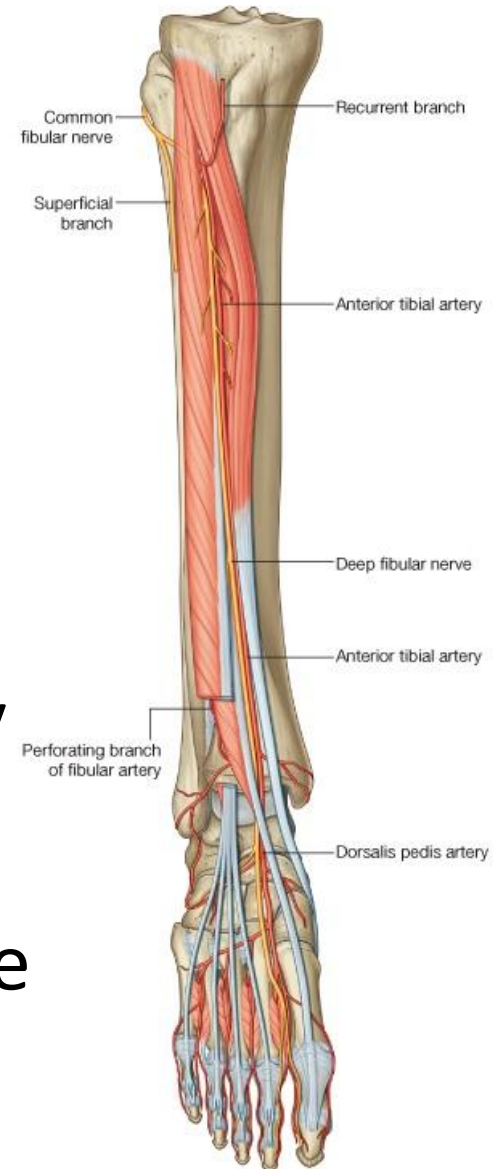


- **Flexor Retinaculum**



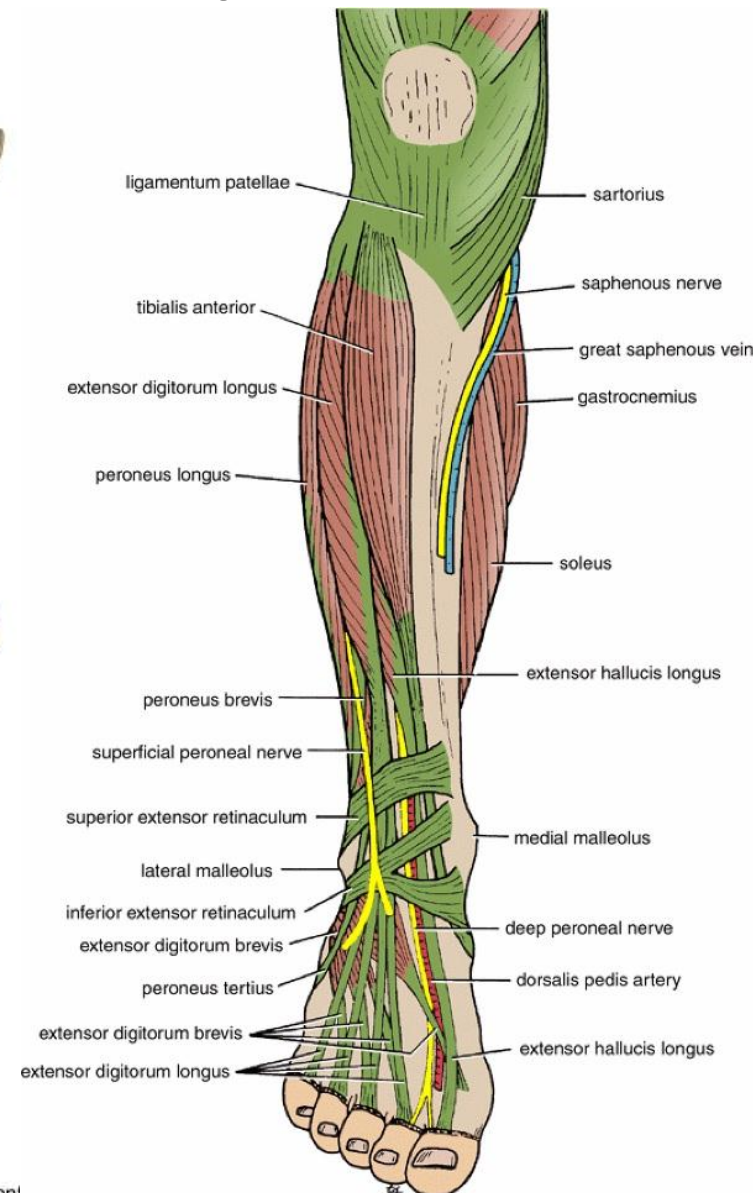
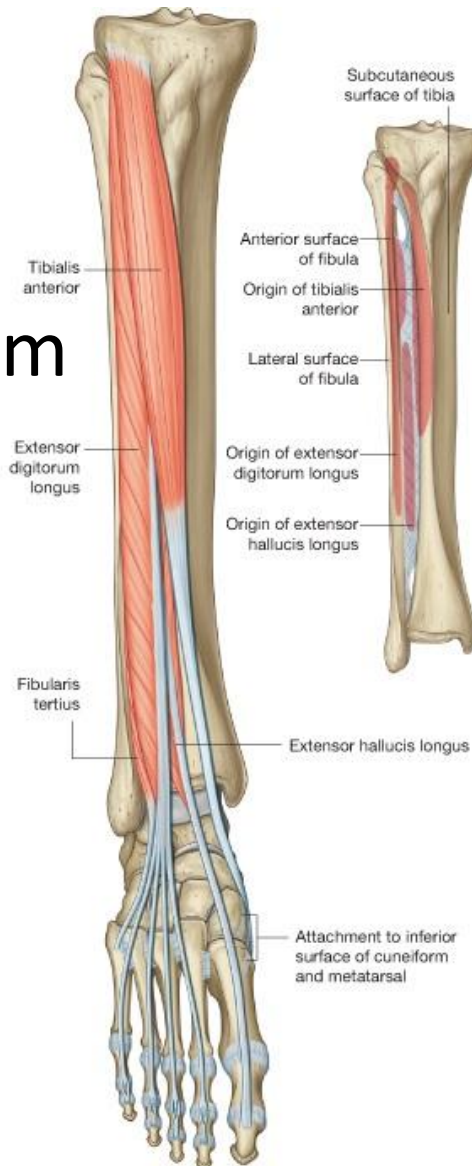
Anterior Fascial Compartment

- **Muscles:** The tibialis anterior, extensor digitorum longus, peroneus tertius, and extensor hallucis longus
- **Blood supply:** Anterior tibial artery
- **Nerve supply:** Deep peroneal nerve

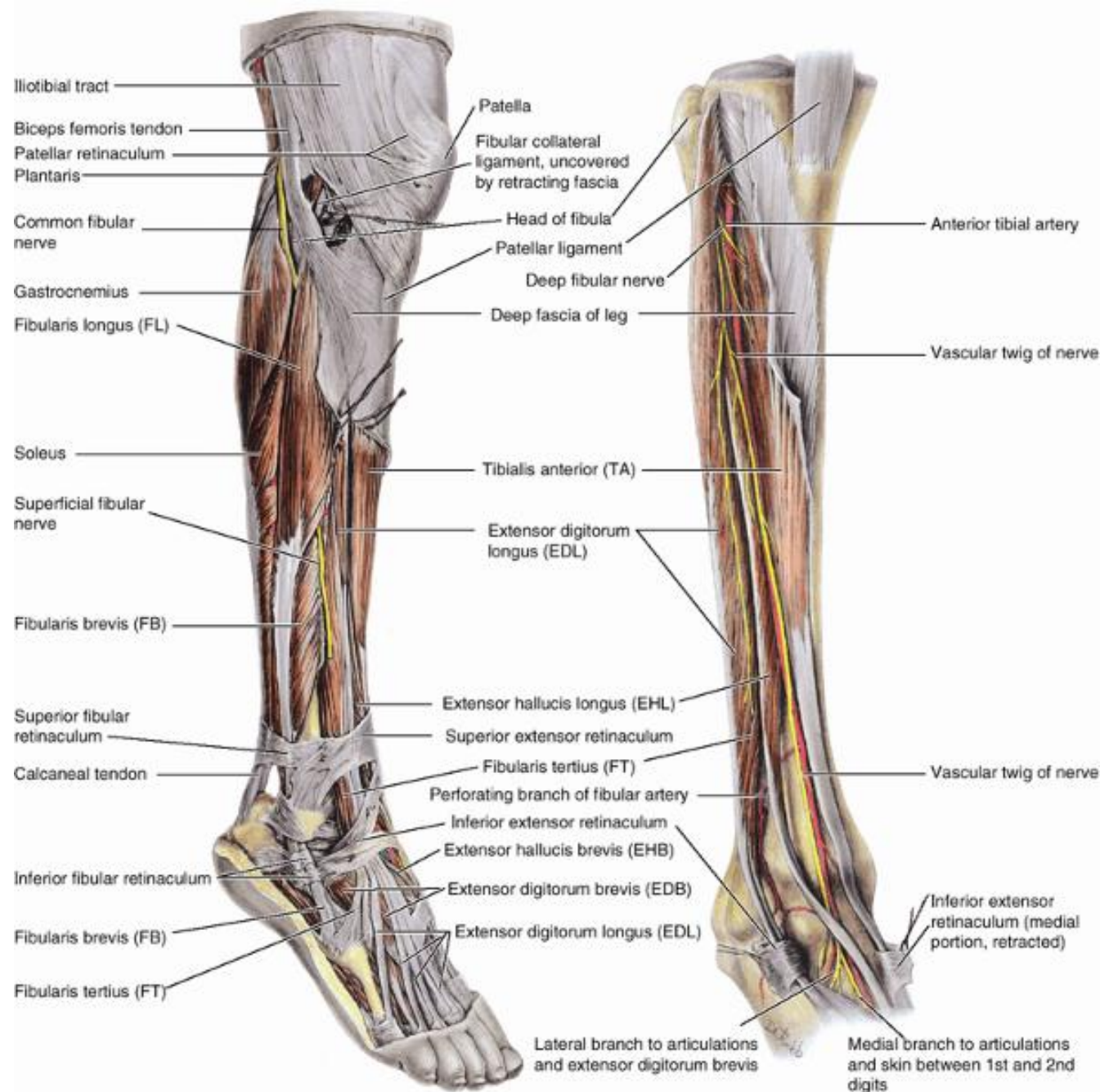


Muscles of the Anterior Compartment

- Tibialis Anterior
- Extensor digitorum longus
- Peroneus tertius
- Extensor hallucis longus



Blood & Nerve Supply

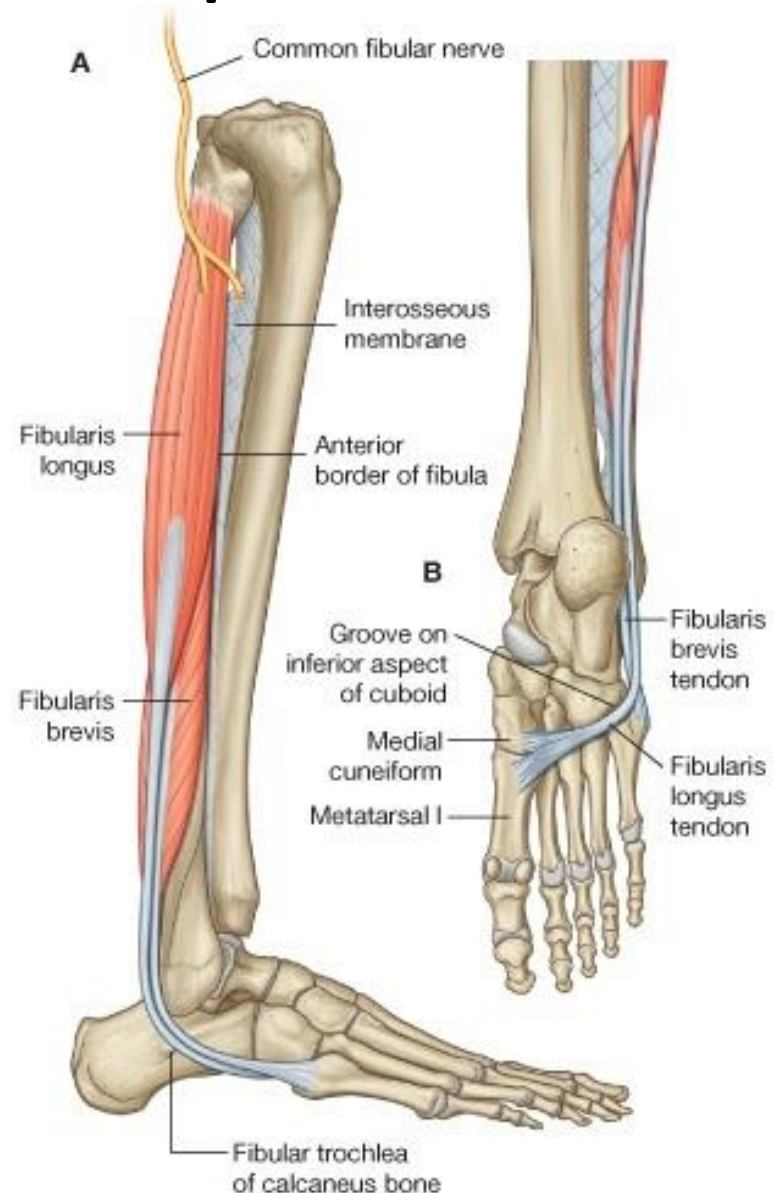


(A) Anterolateral view

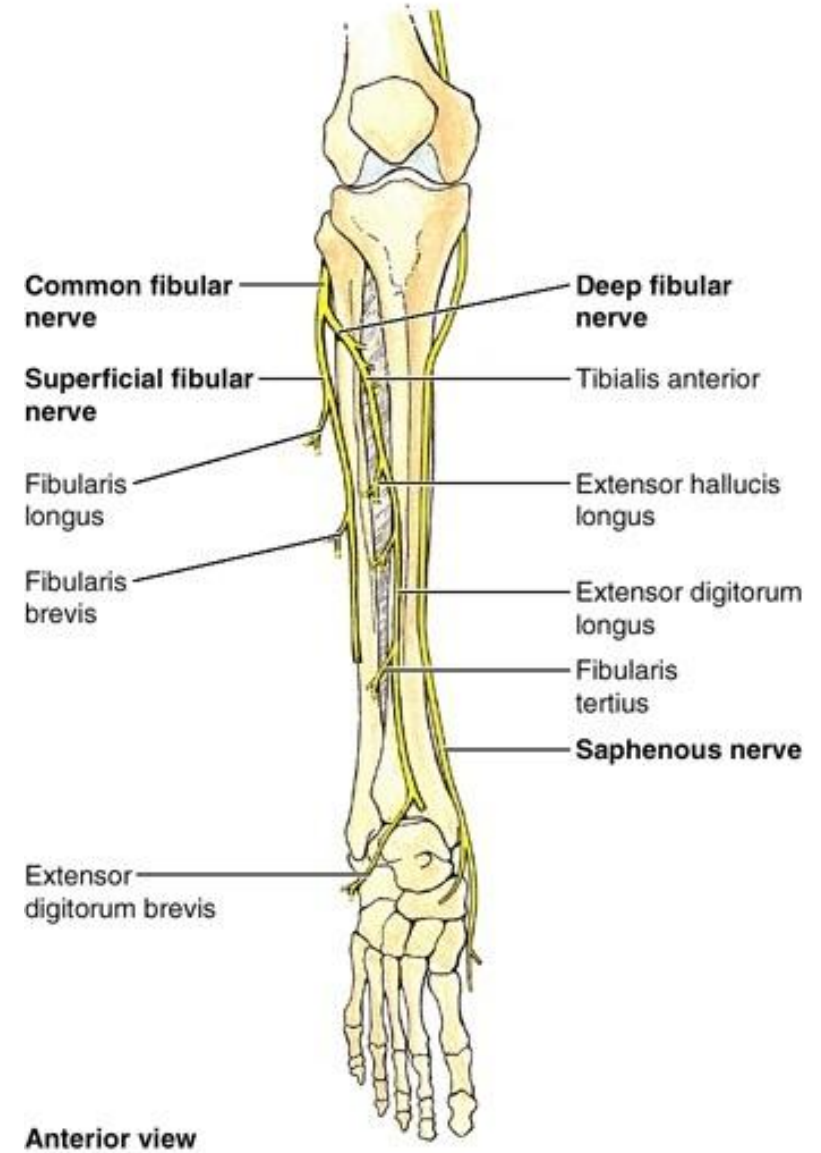
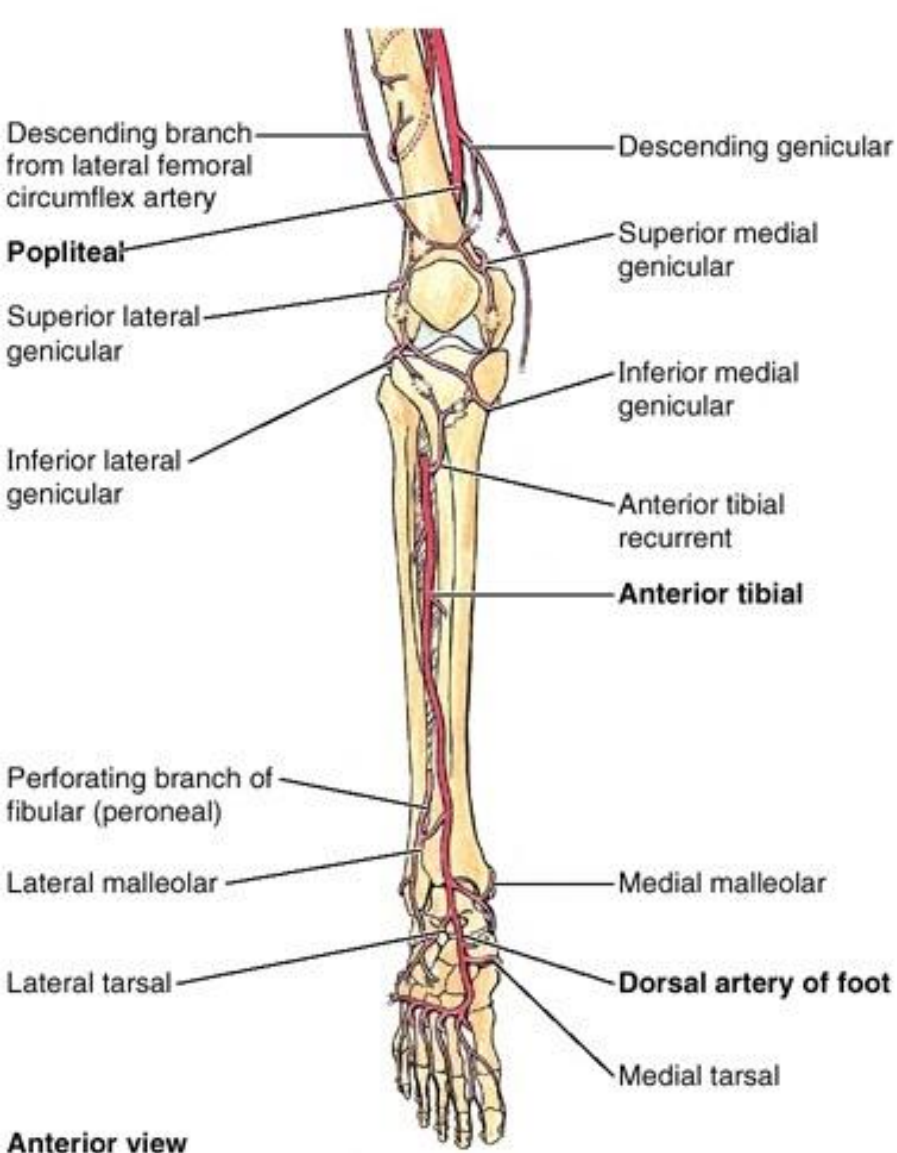
(B) Anterior oblique view

Lateral Fascial Compartment

- **Muscles:** Peroneus longus & peroneus brevis
- **Blood supply:** Branches from the peroneal artery
- **Nerve supply:** Superficial peroneal nerve.



Arterial & nerve Supply



Compartment Syndrome

It is an Increase intra-compartmental pressure leading to compromised blood supply to the muscles – death of muscle cells. (treatment is simple fasciotomy)



Thank You