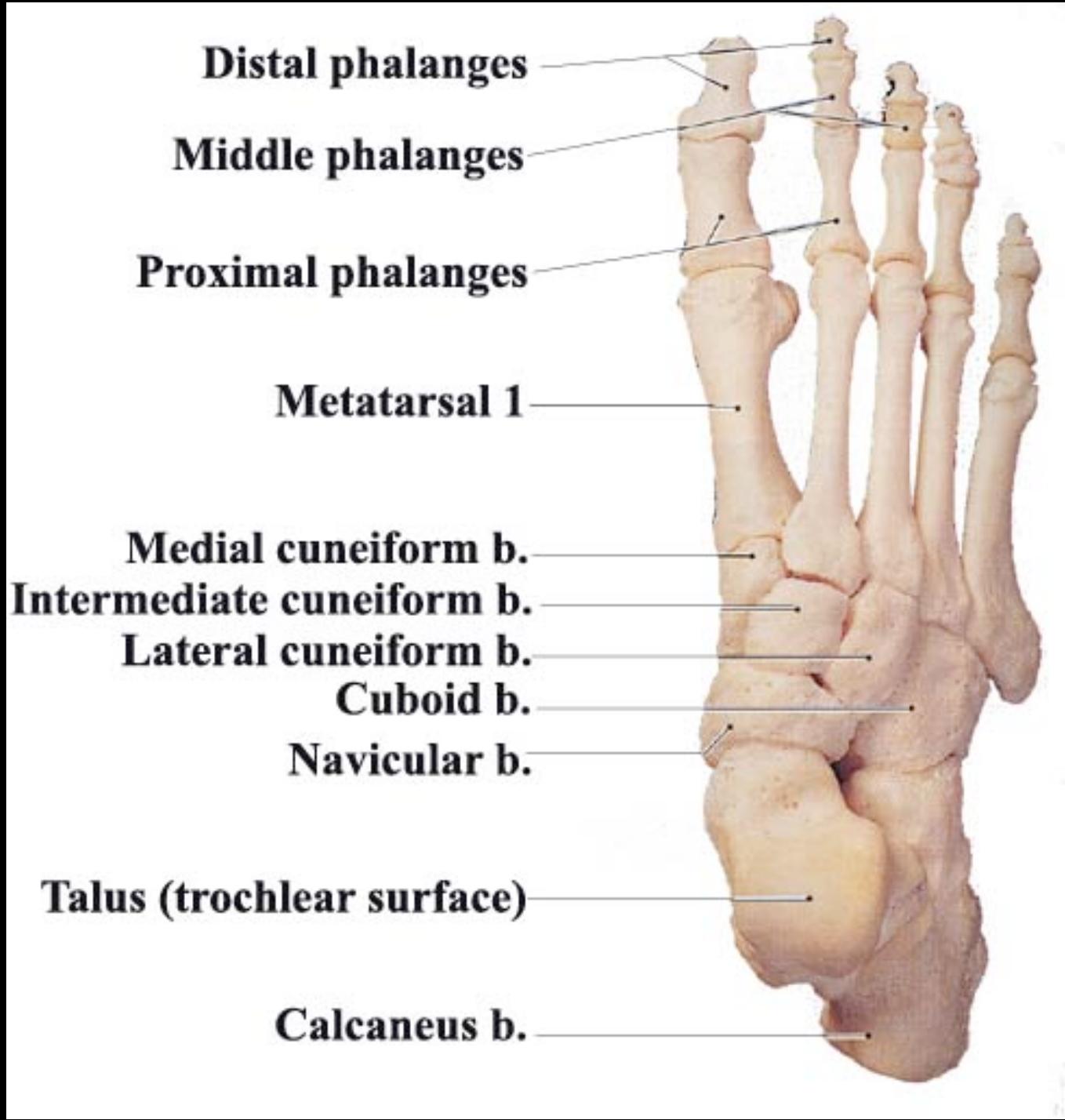


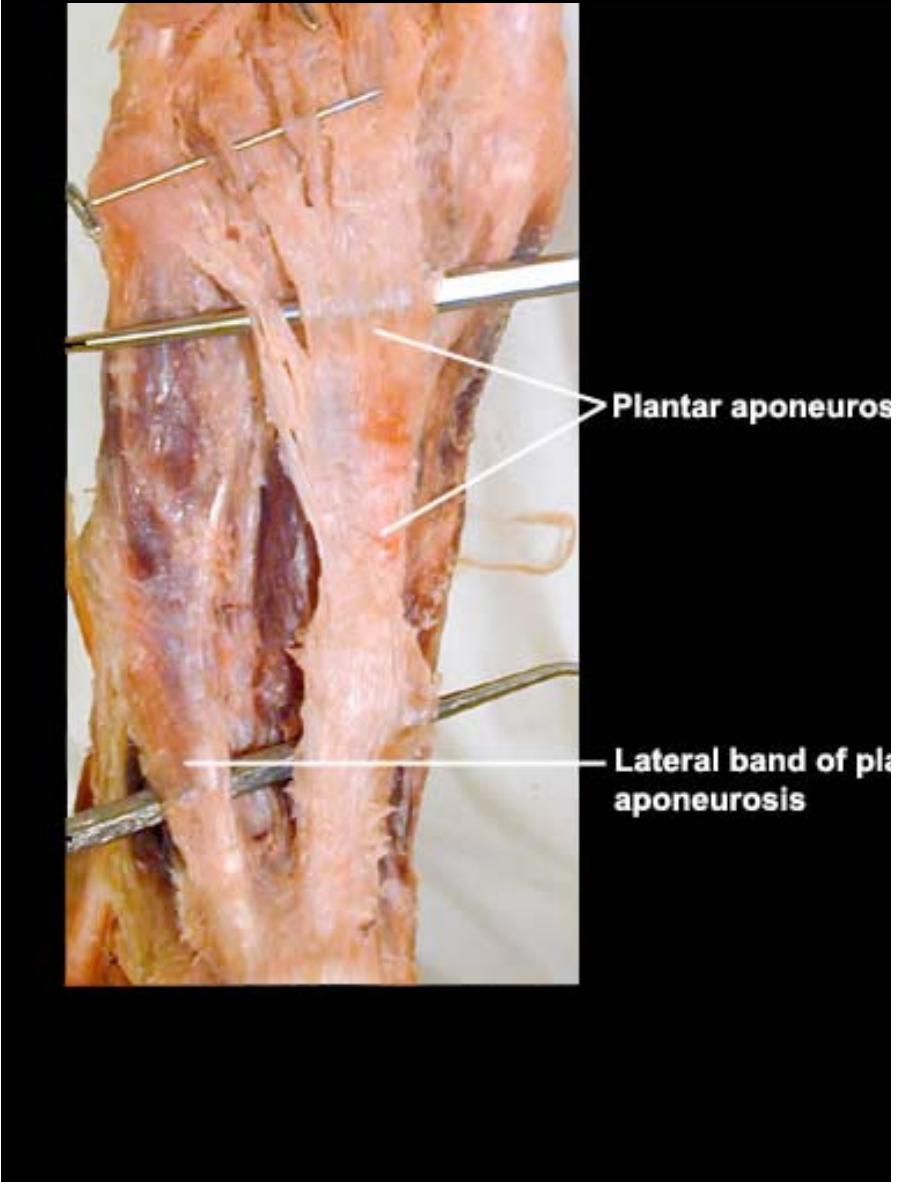
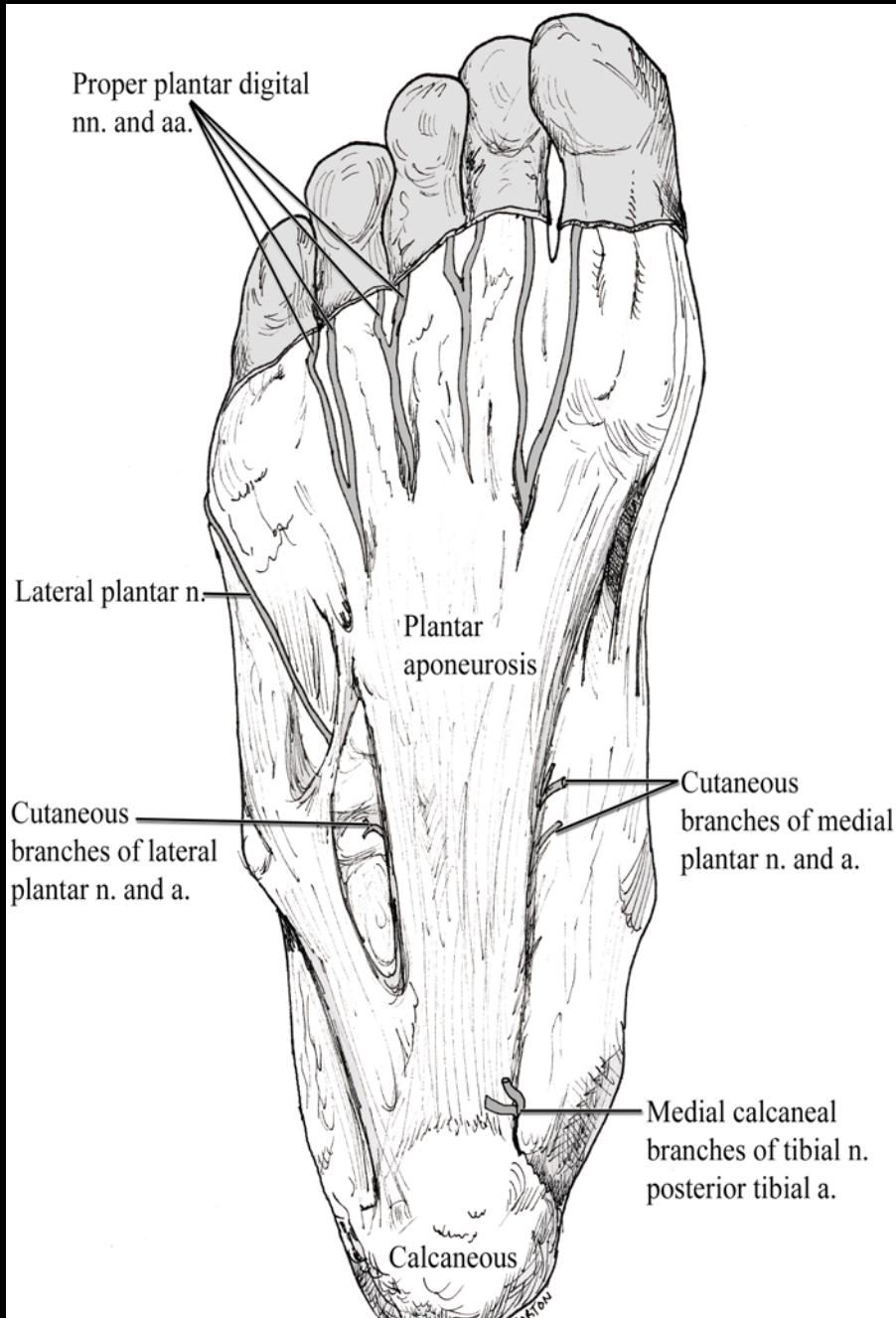
G31: Foot and Ankle



Syllabus - P



1) Plantar Aponeurosis



3) Foot Muscles - CORRECTION

3) Muscles of the foot

a) Describe the attachments, actions, and relations of the muscles of the foot (see muscle chart)

Foot Muscles

Muscle	Origin	Insertion	Action
Dorsal muscles			
Extensor dig. brev	Calcaneus bone	Digits 1-5	Extension of digits
Plantar muscles			
First layer			
Adductor hallucis	Calcaneus bone	Digit 1	Adduct, flex digit 1
Flexor dig brevis		Digits 2-5	Flex digits 2-5
Abd digit minimi		Digit 5	Abduct digit 5

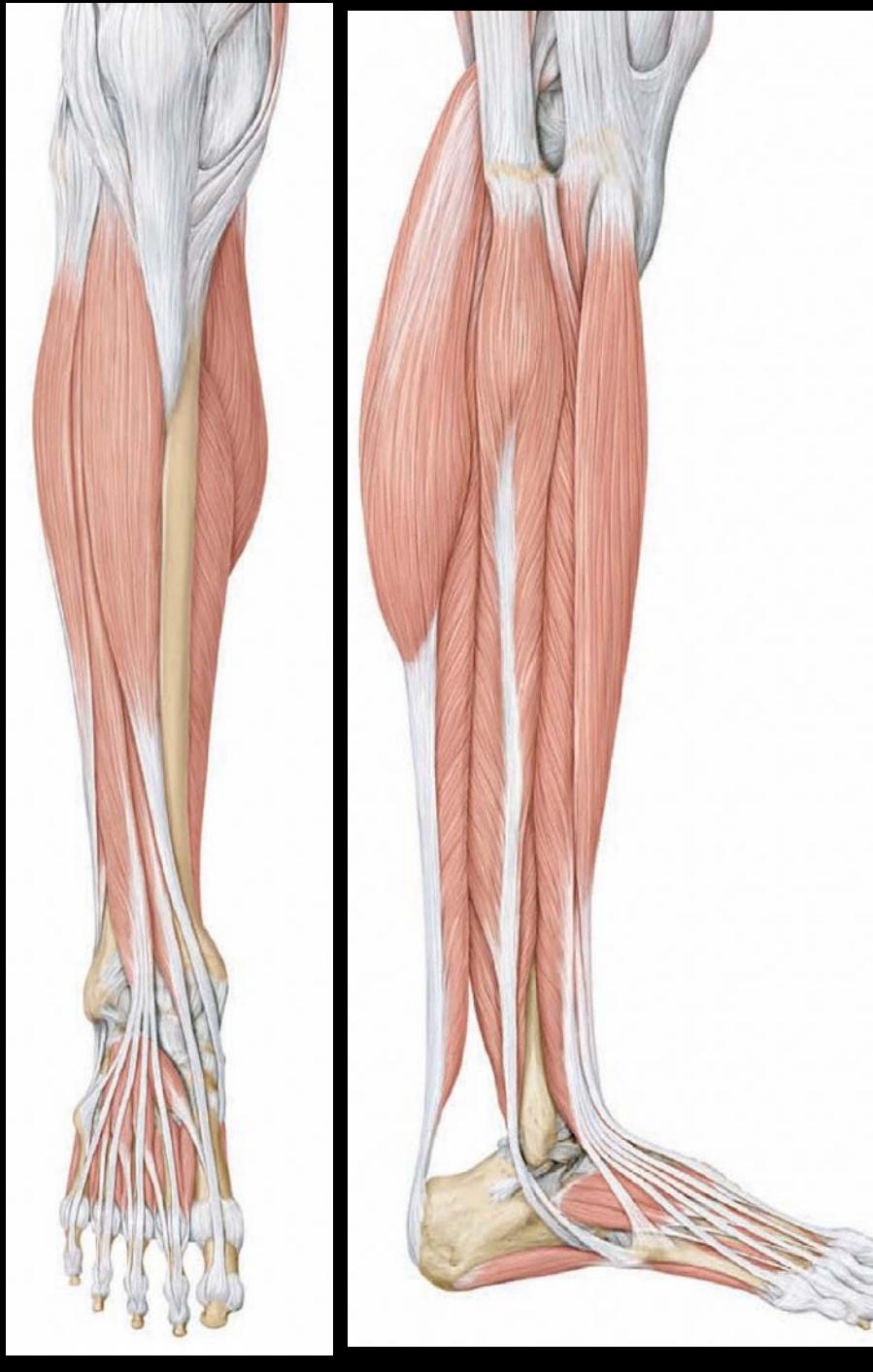
Abductor

Syllabus - P

3) Foot Muscles

Anterior leg mm.

Extensor digitorum brevis

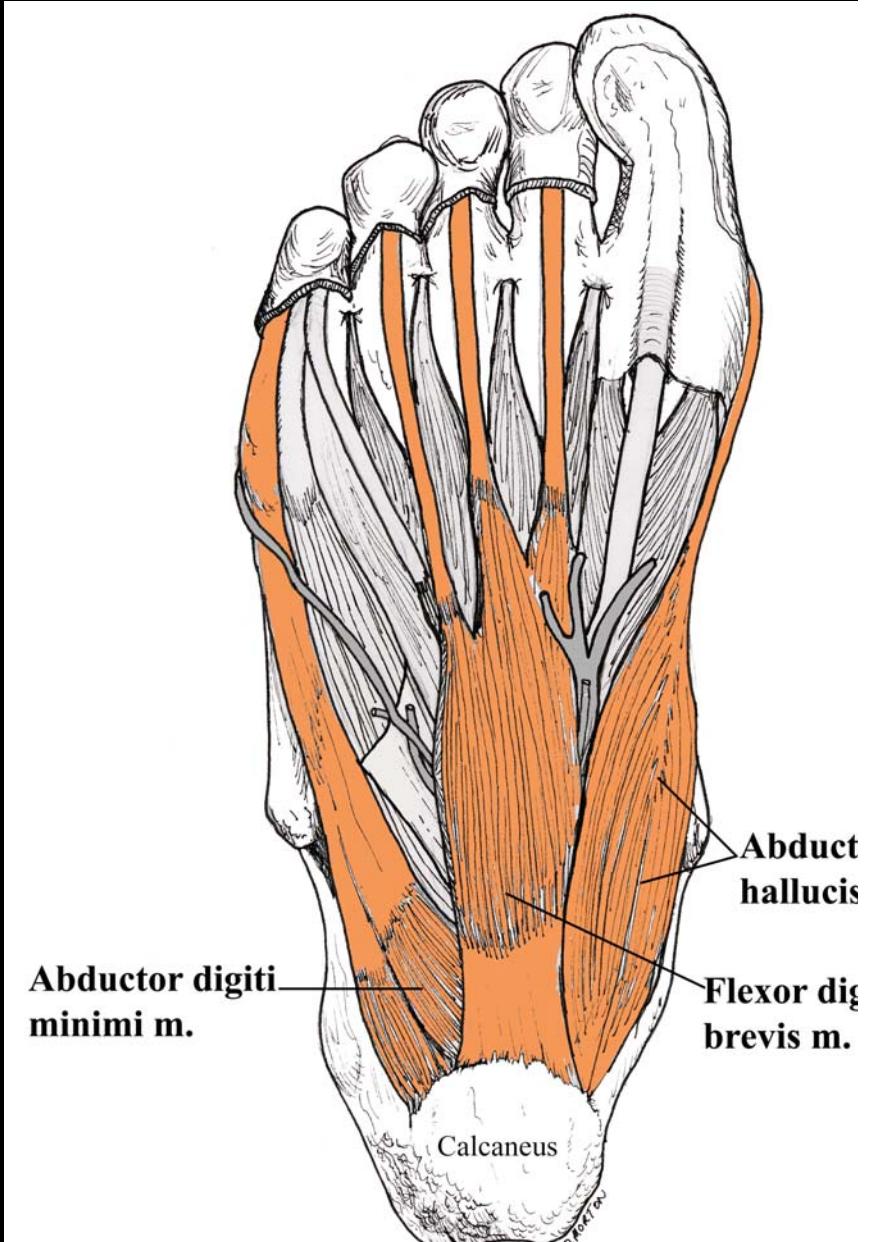


3) Foot Muscles - Layer #1

Abductor hallucis

Flexor digitorum brevis

Abductor digiti minimi



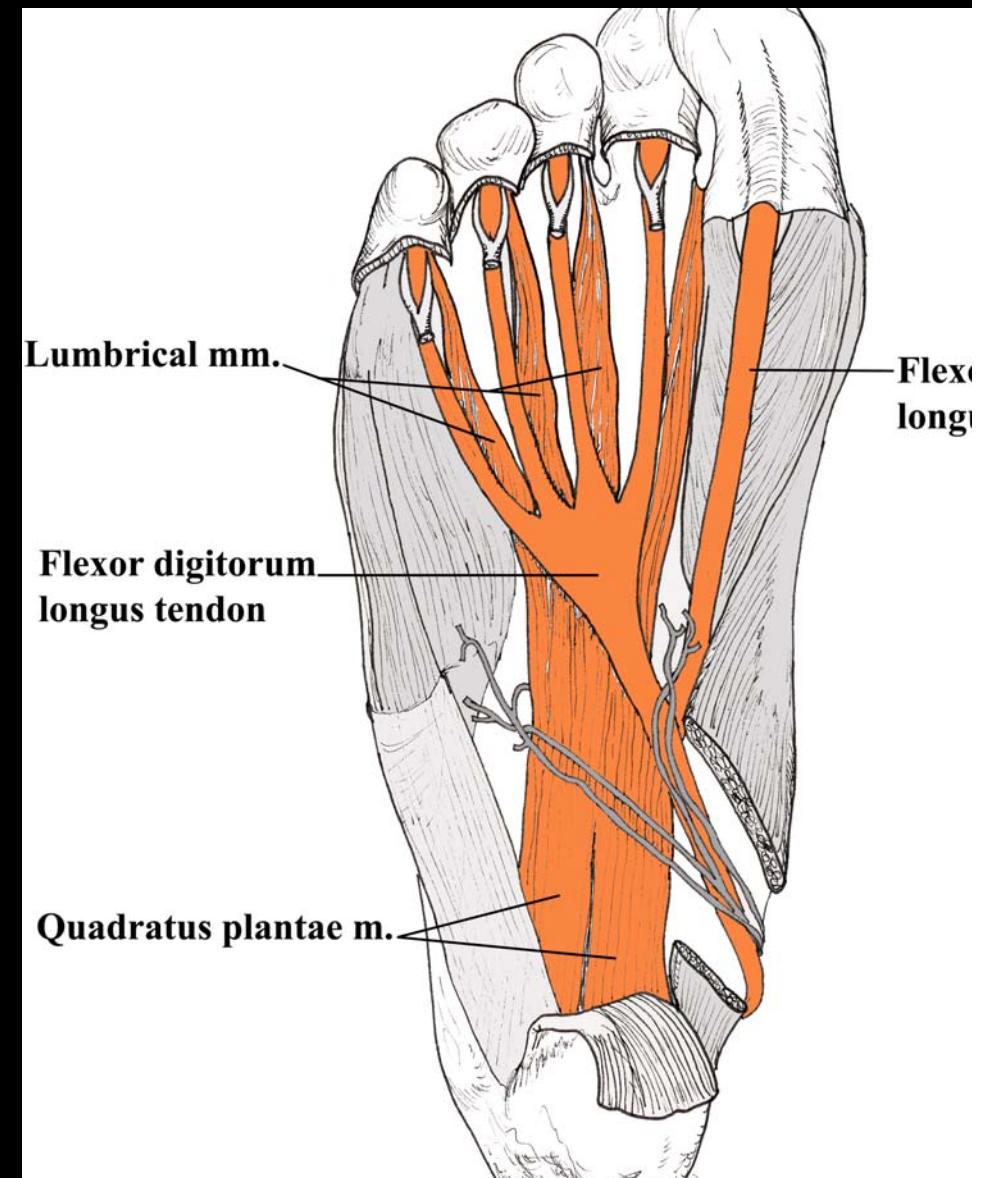
3) Foot Muscles - Layer #2

Quadratus plantae

Flex hall long tendon

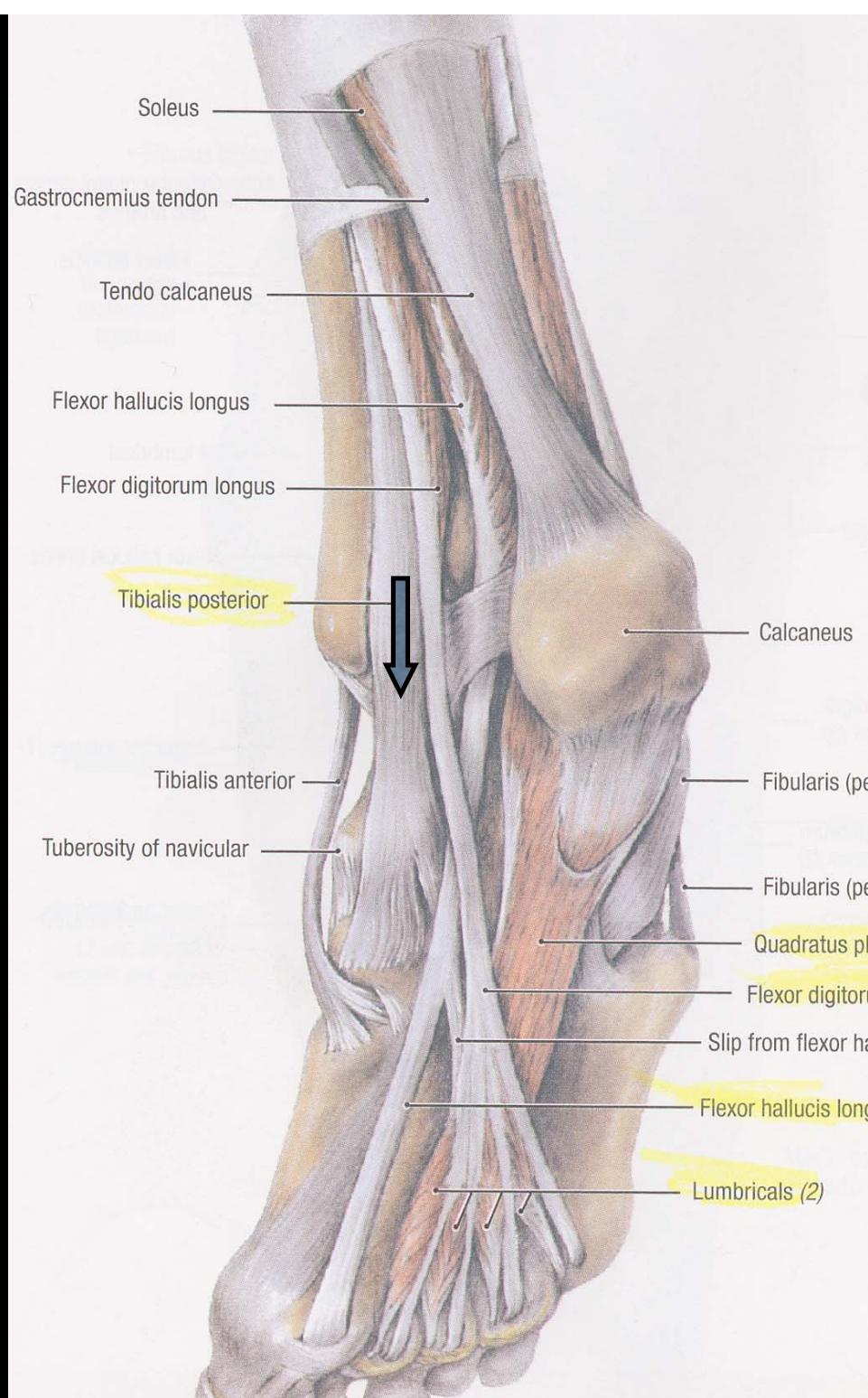
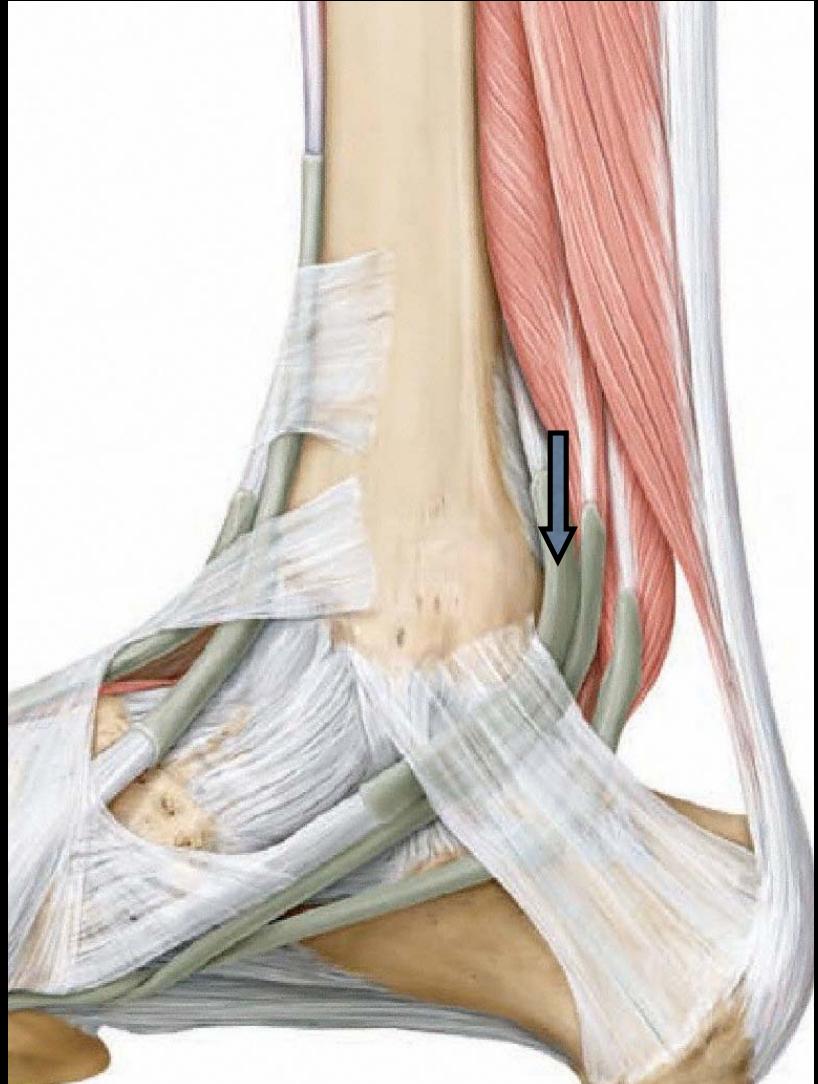
Flex digit long tendons

Lumbricals



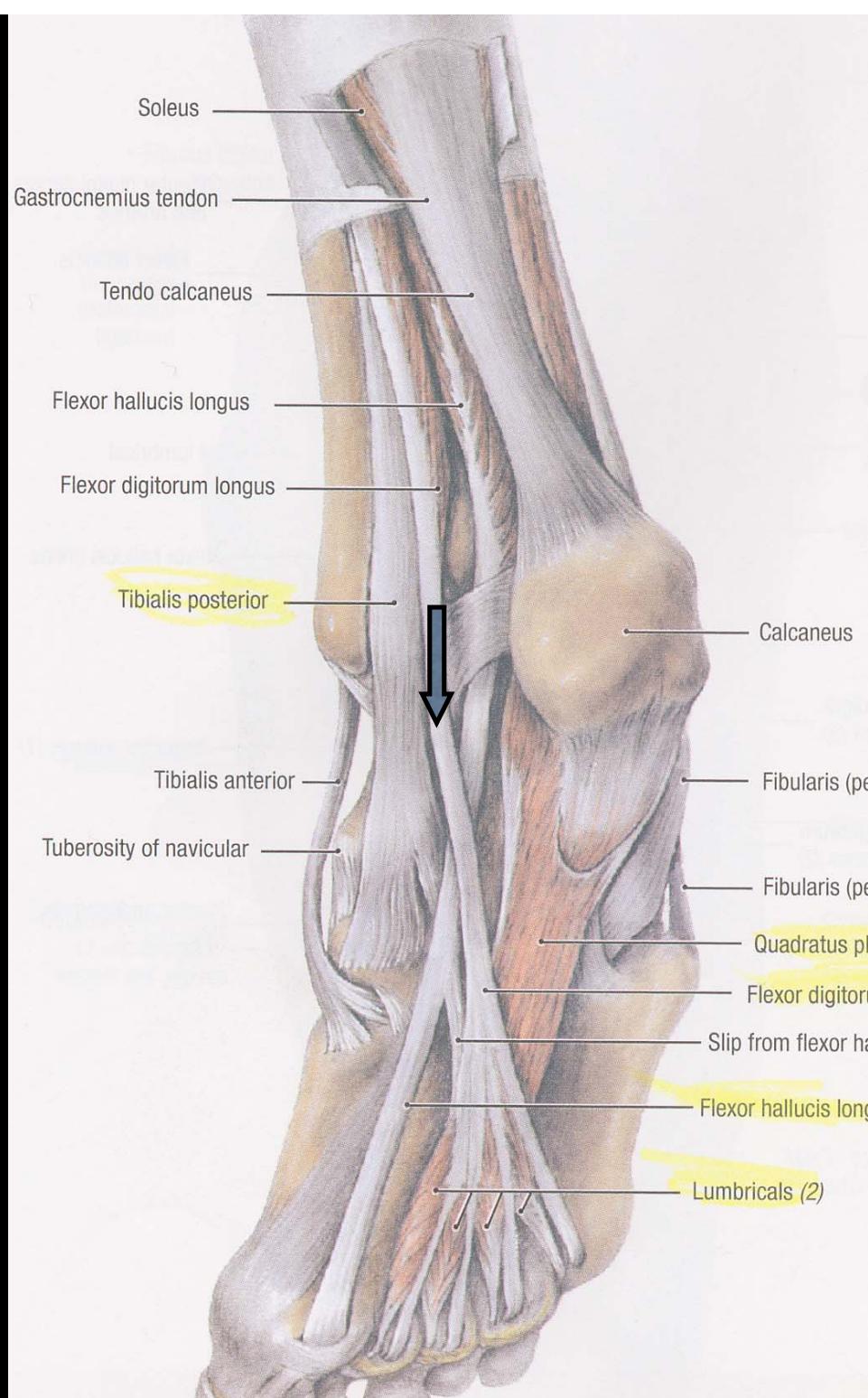
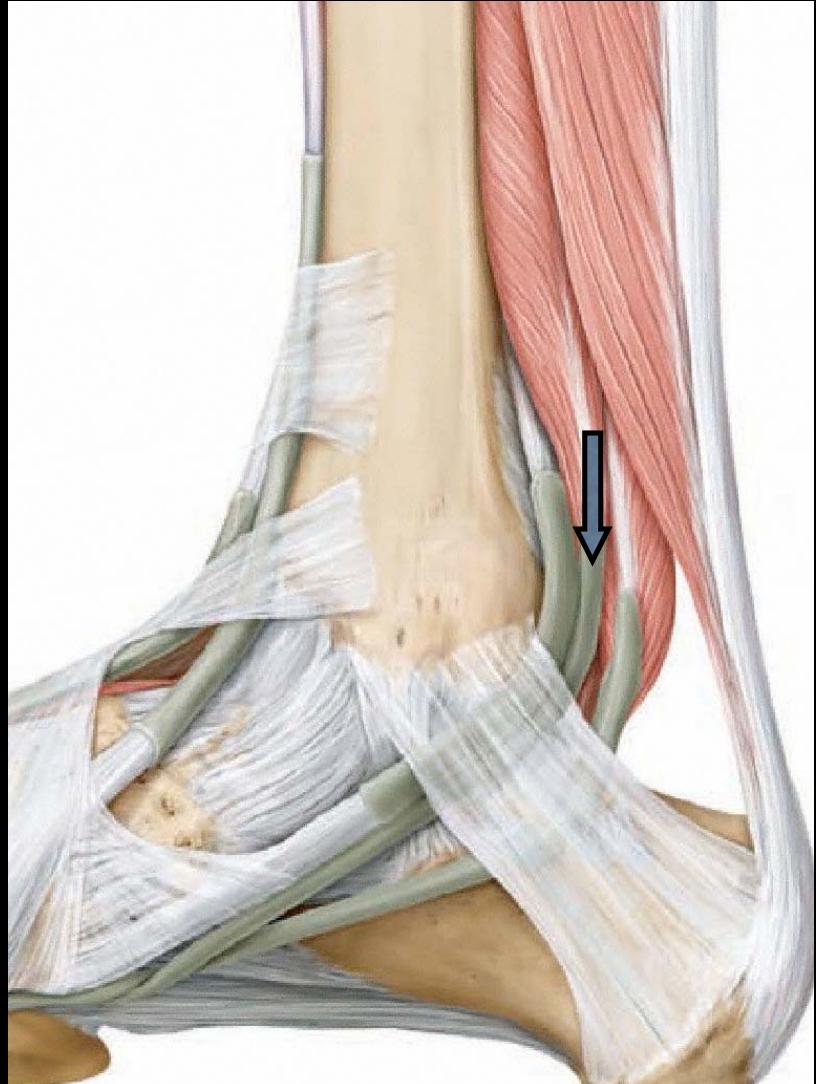
3) Foot Muscles

“Tom” - Tibialis posterior



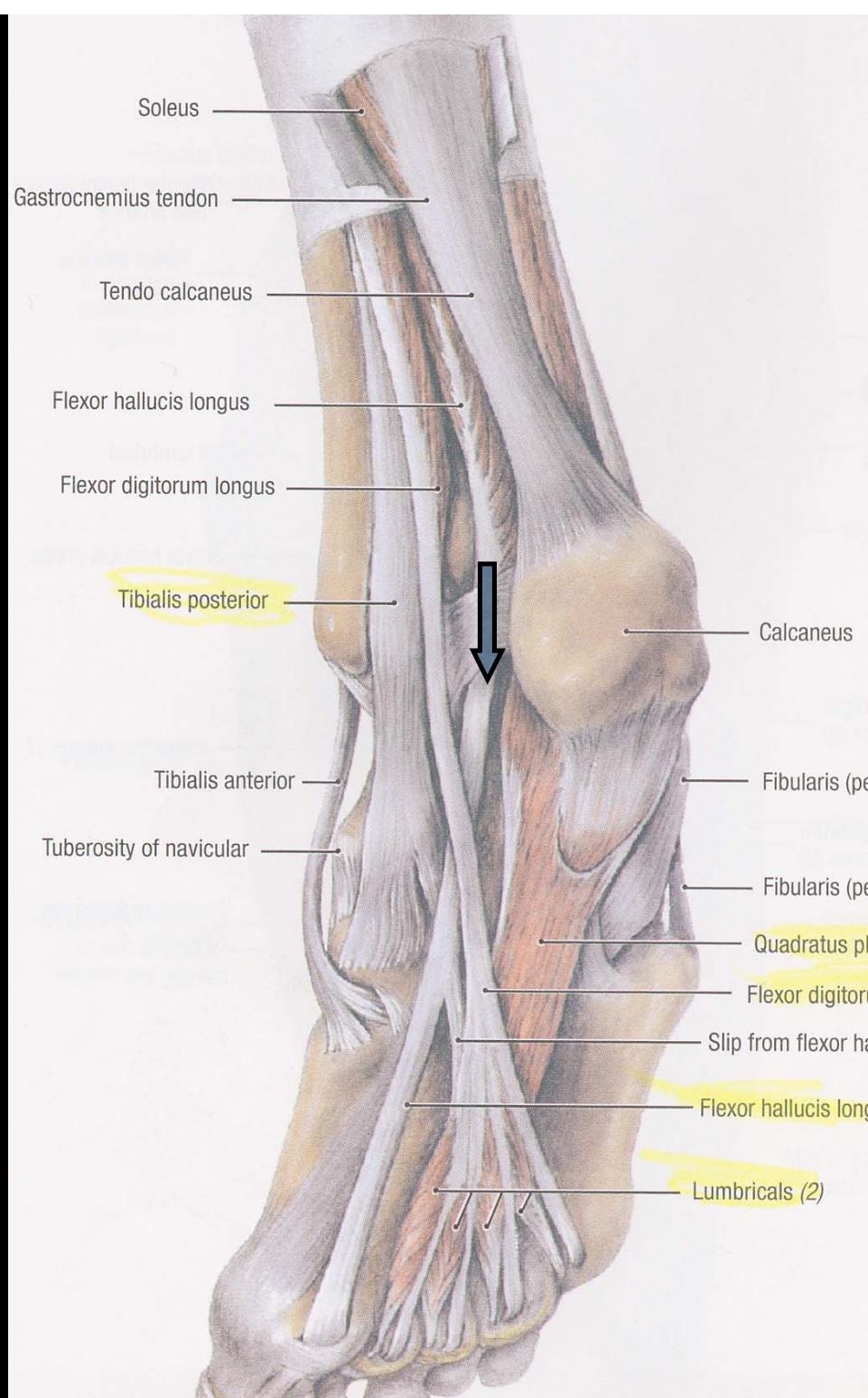
3) Foot Muscles

“Dick” - Flex Digitorum longus



3) Foot Muscles

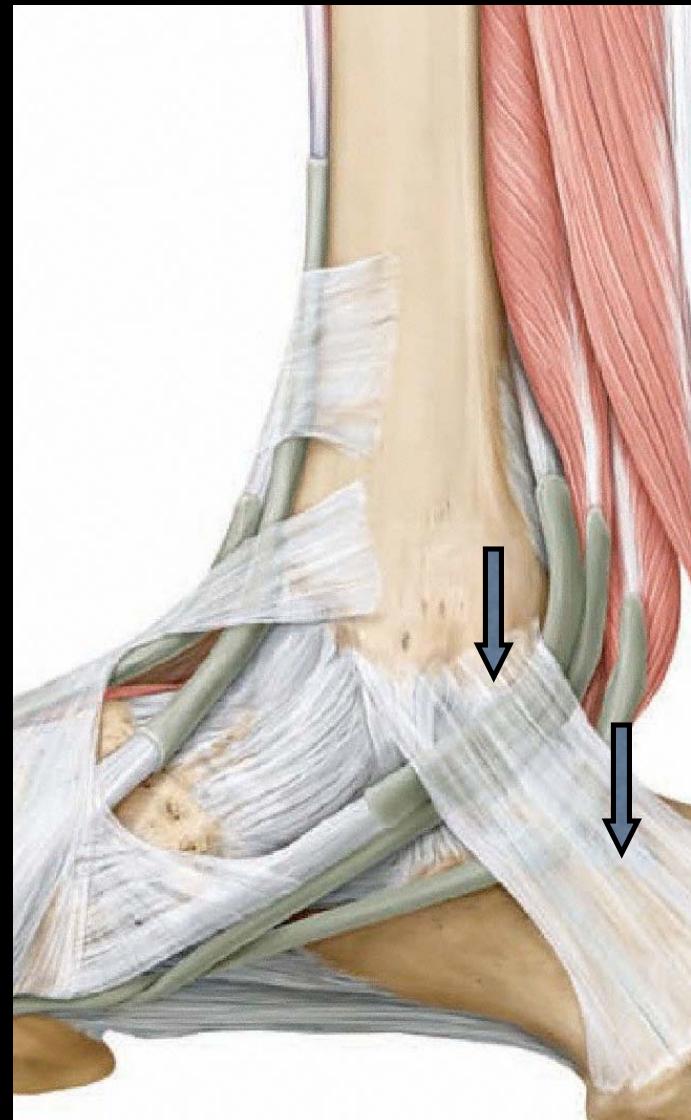
“Harry” - Flex Hallucis longus



3) Foot Muscles

Flexor retinaculum

Tarsal tunnel

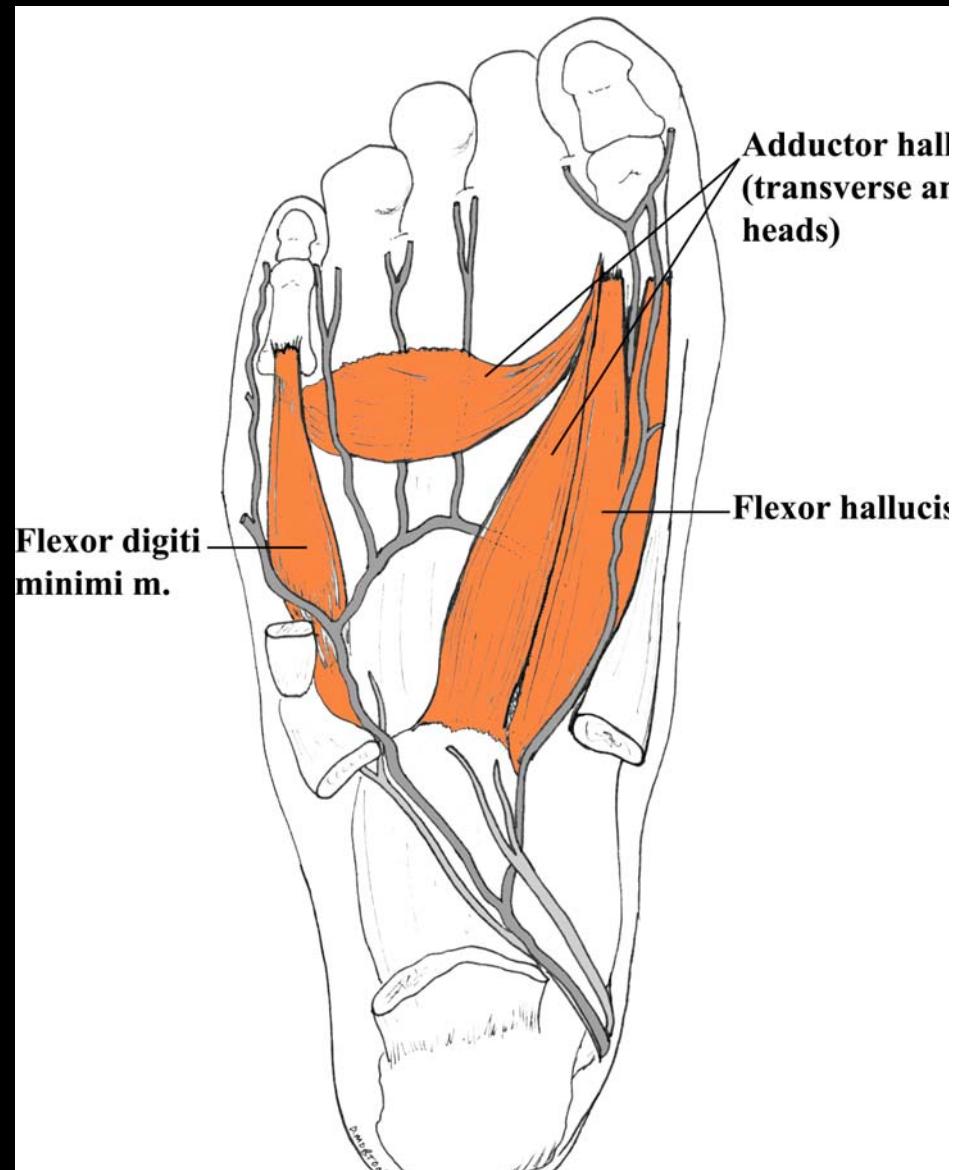


3) Foot Muscles - Layer #3

Adductor hallucis

Flexor hallucis

Flexor digiti minimi



3) Foot Muscles - Layer #4

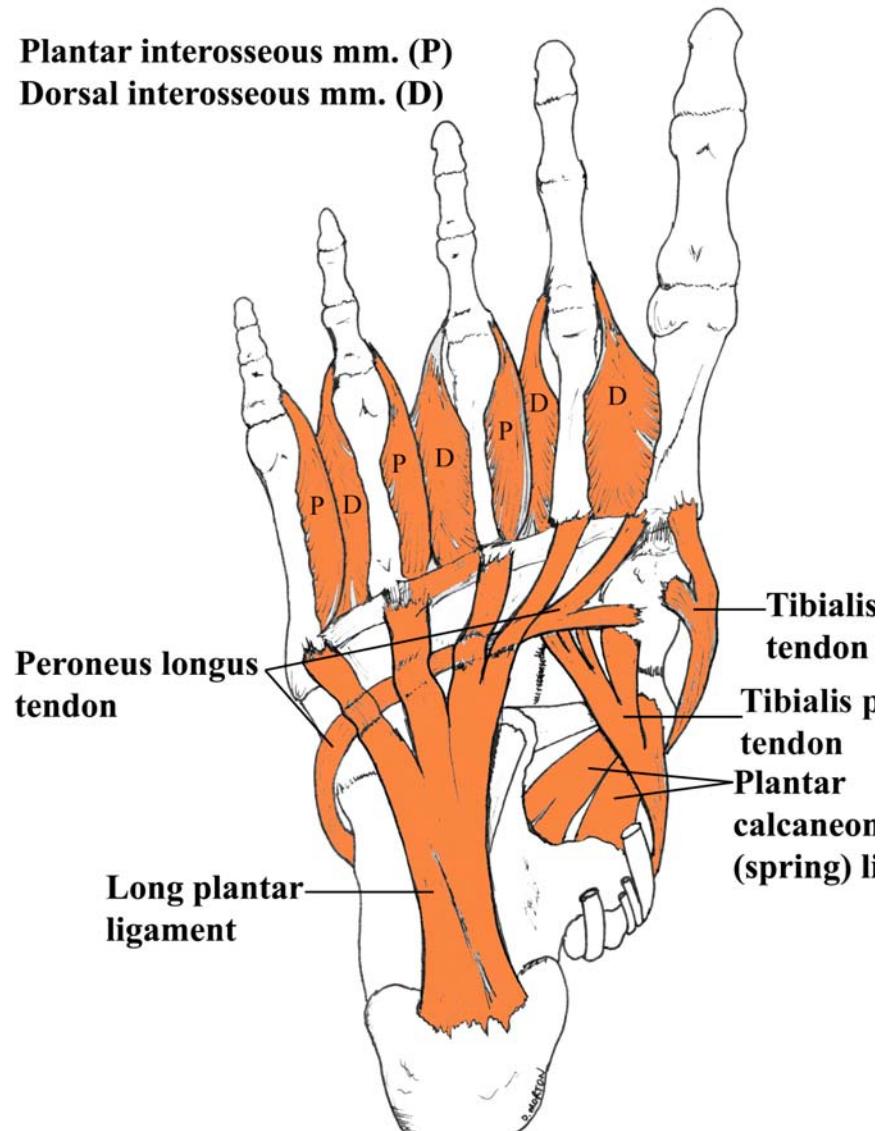
Plant interosseous (PAD)

Dorsal interosseous (DAB)

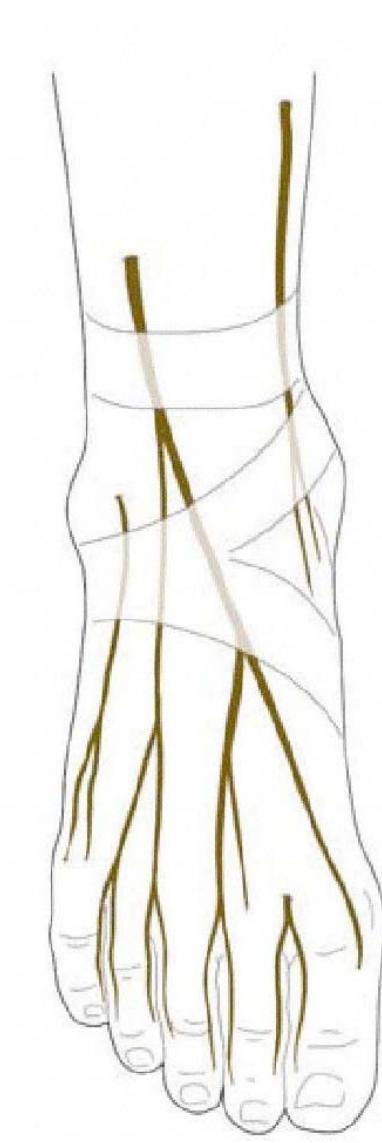
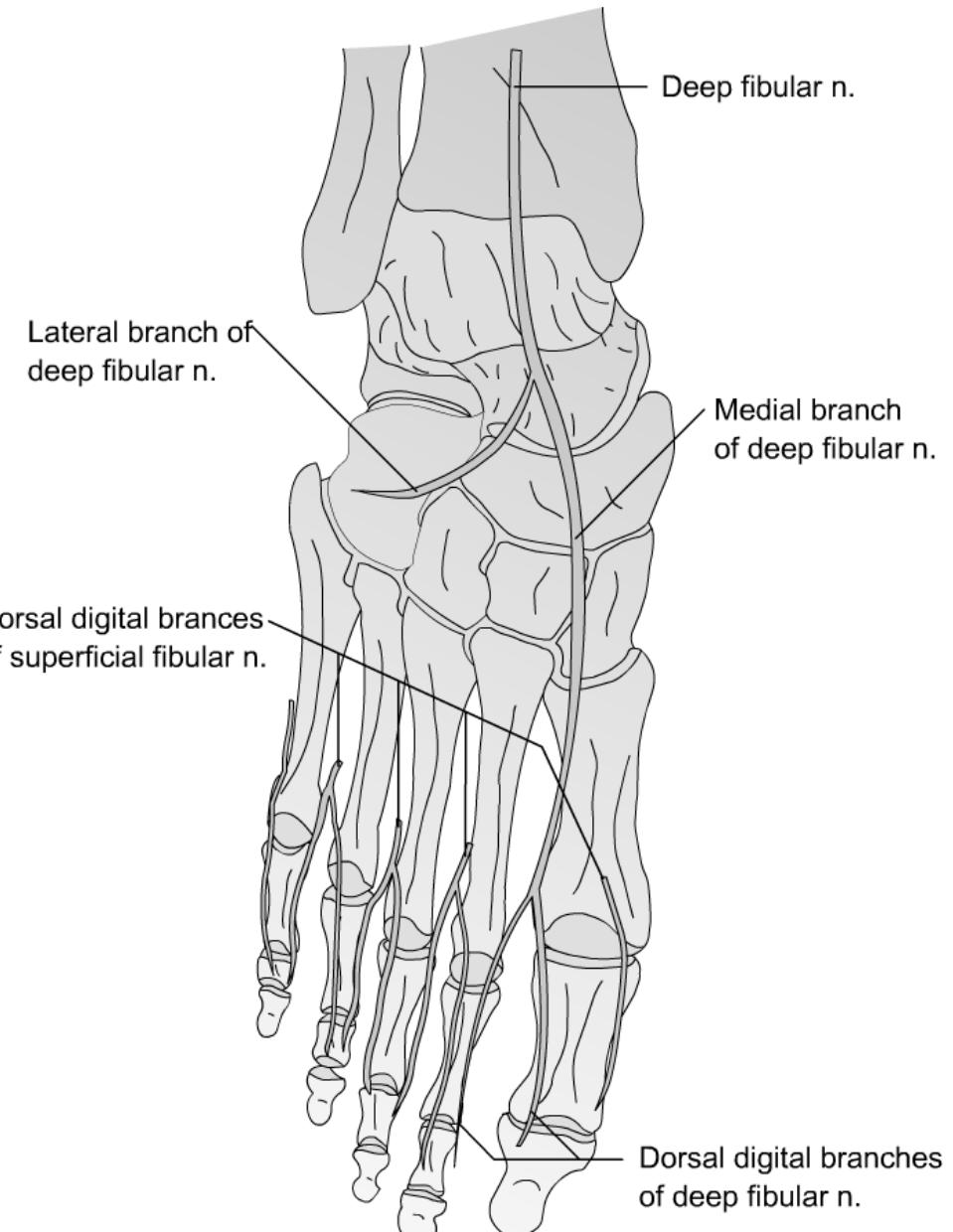
Peroneus longus tendon

Tibialis anterior tendon

Tibialis posterior tendon



4) Lumbosacral plexus - Foot



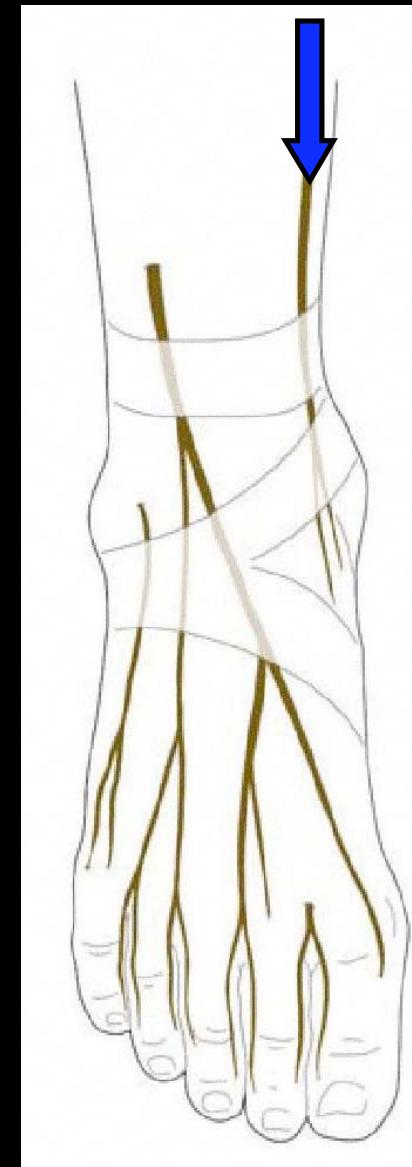
4) Lumbosacral plexus - Foot

Saphenous n. (femoral)

Superficial peroneal n.

Deep peroneal n.

Lateral sural n.



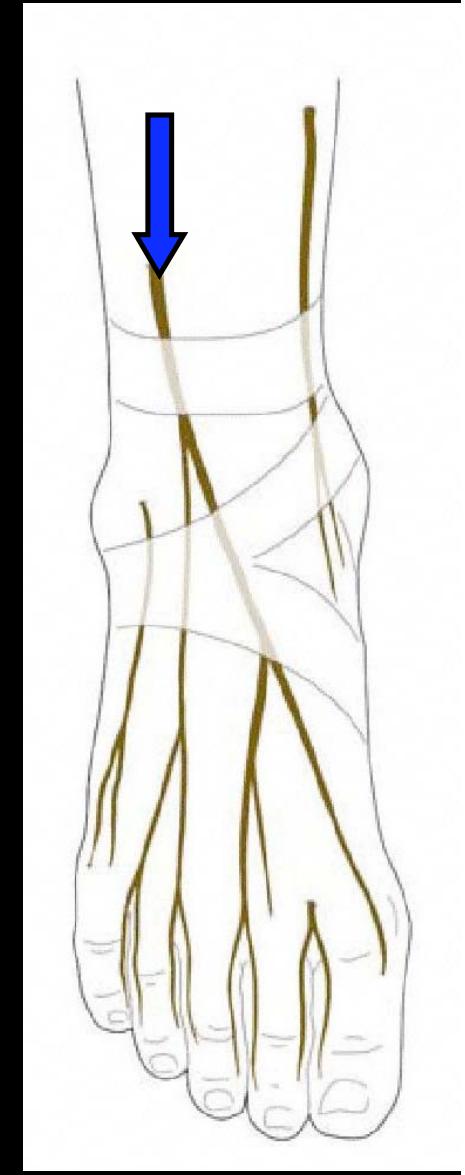
4) Lumbosacral plexus - Foot

Saphenous n. (femoral)

Superficial peroneal n.

Deep peroneal n.

Lateral sural n.



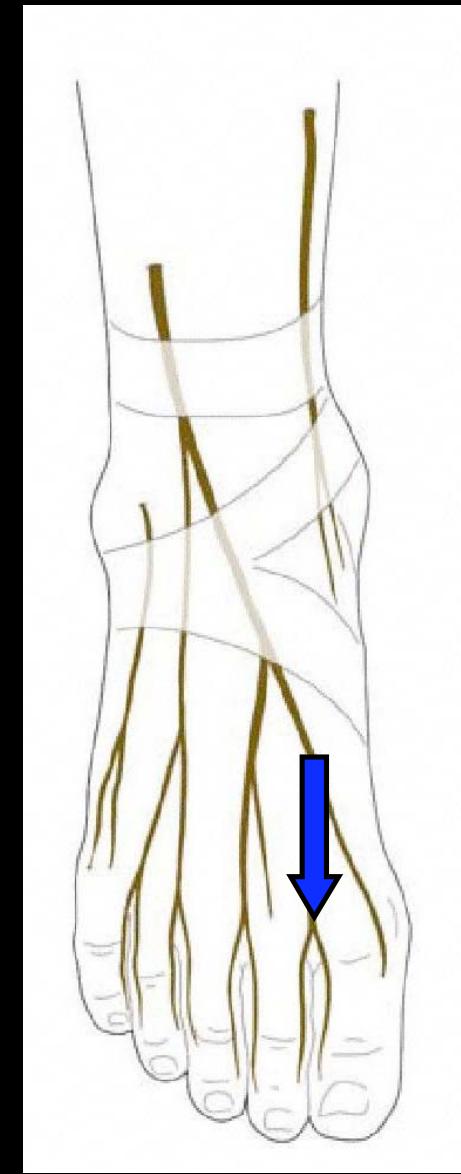
4) Lumbosacral plexus - Foot

Saphenous n. (femoral)

Superficial peroneal n.

Deep peroneal n.

Lateral sural n.



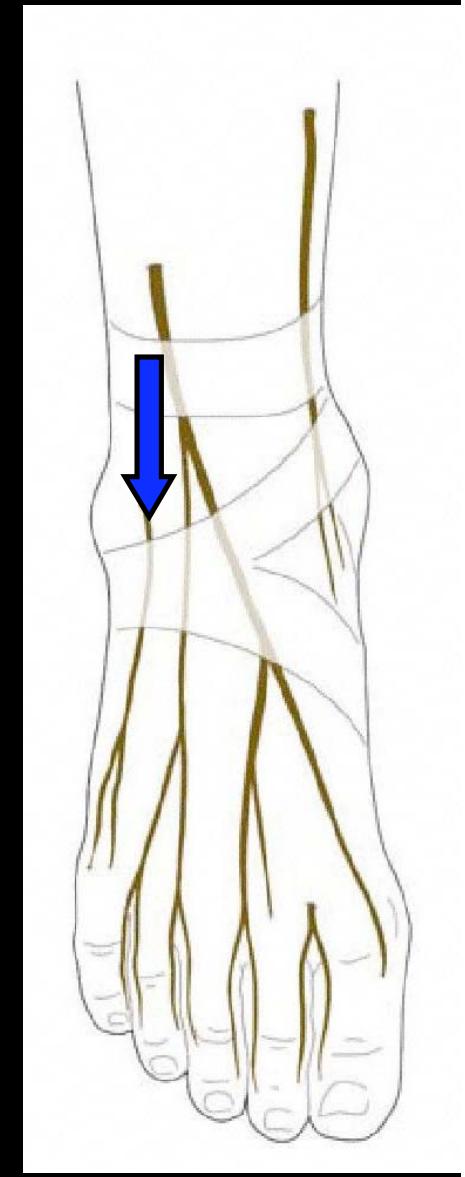
4) Lumbosacral plexus - Foot

Saphenous n. (femoral)

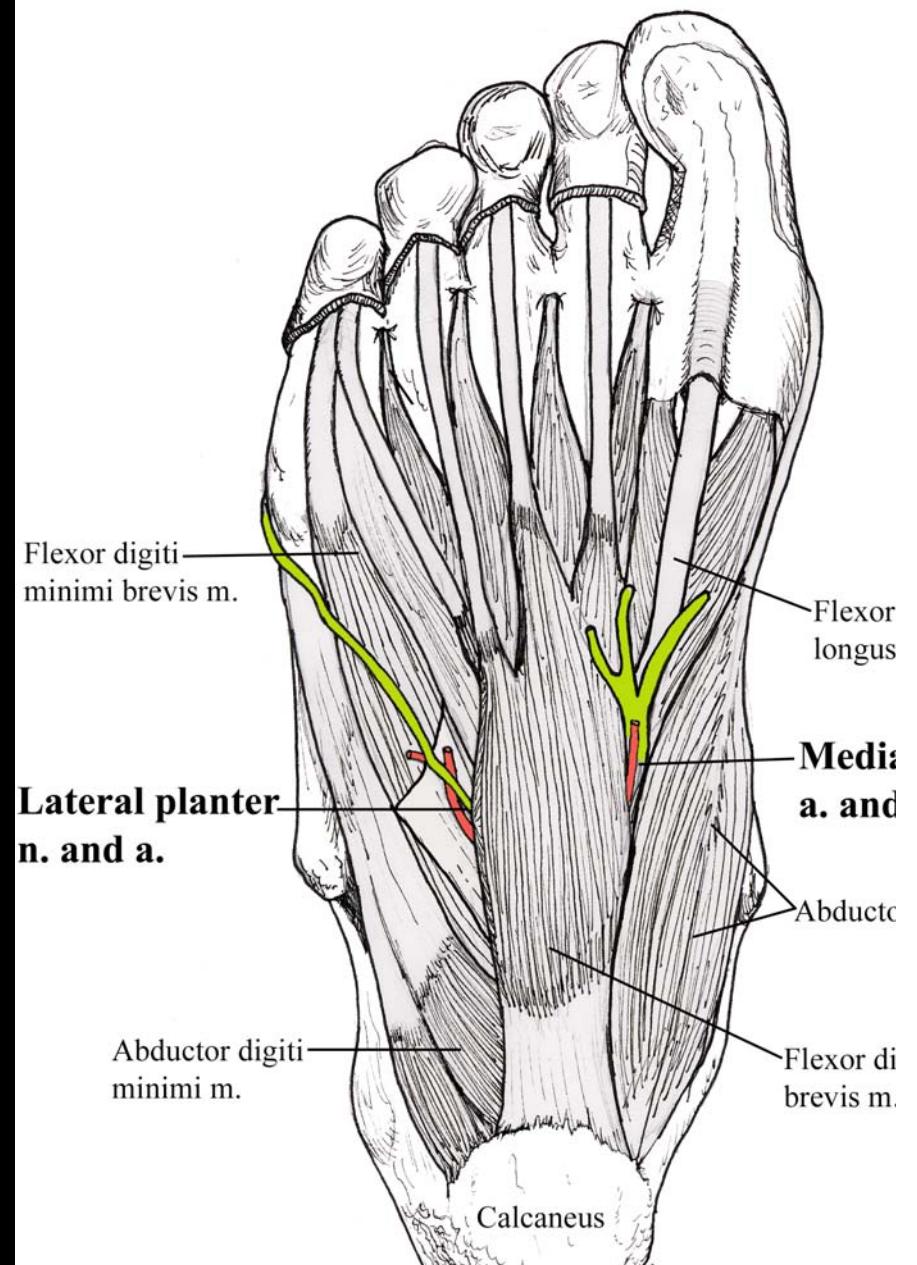
Superficial peroneal n.

Deep peroneal n.

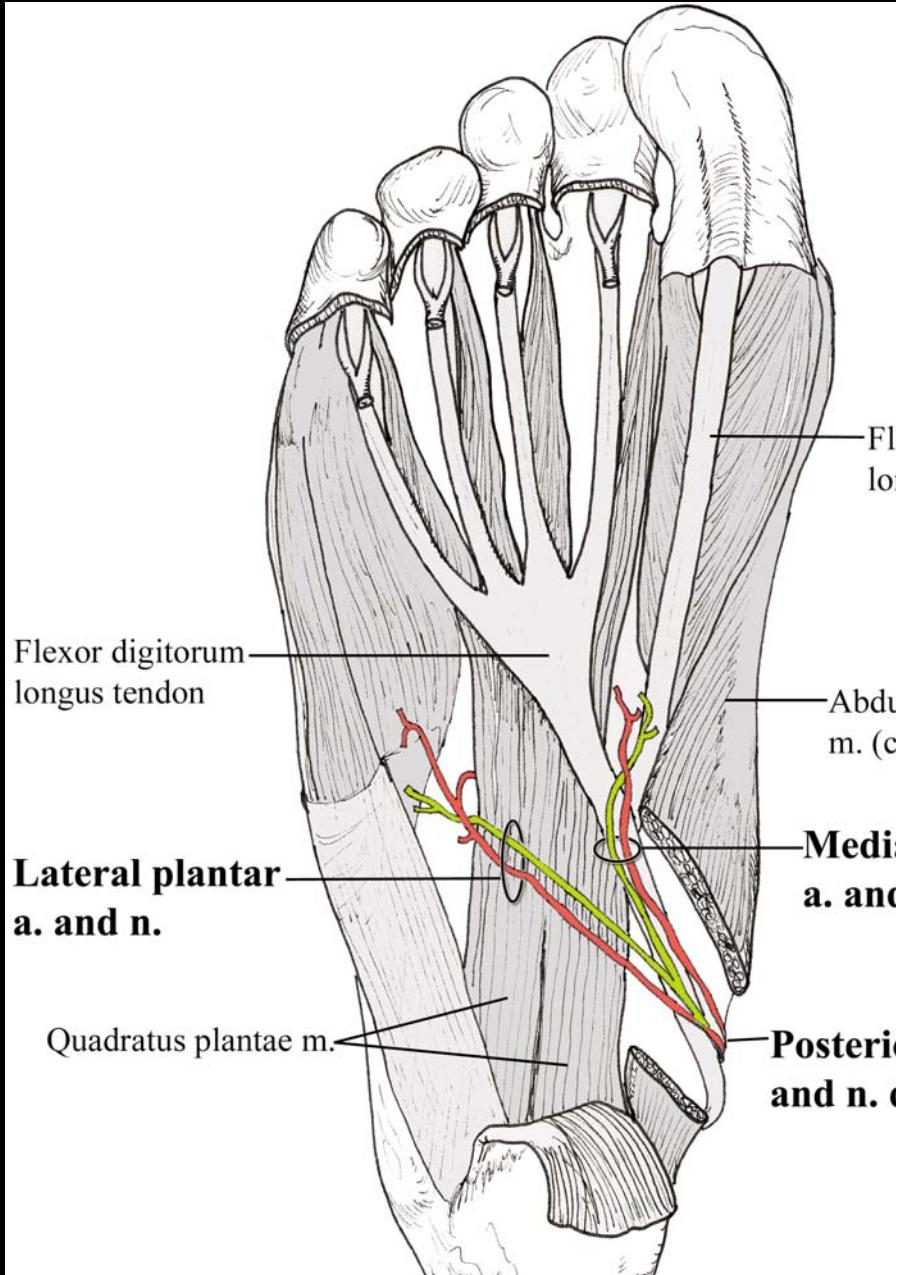
Lateral sural n.



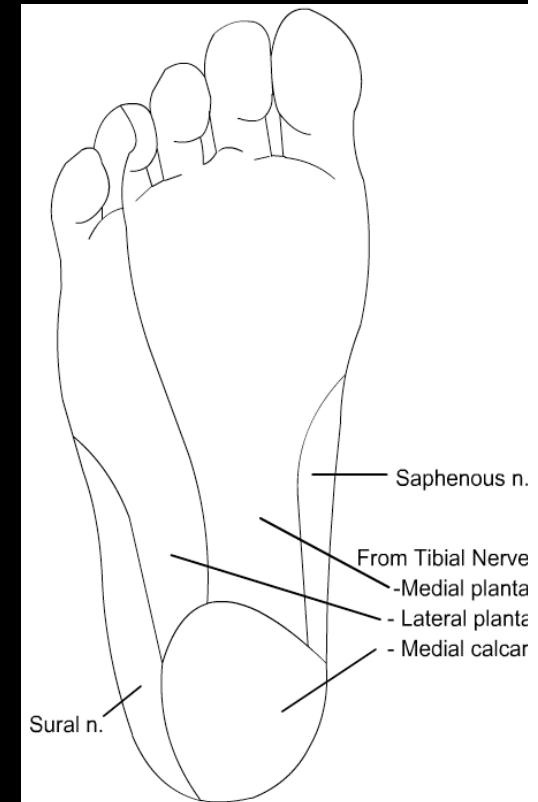
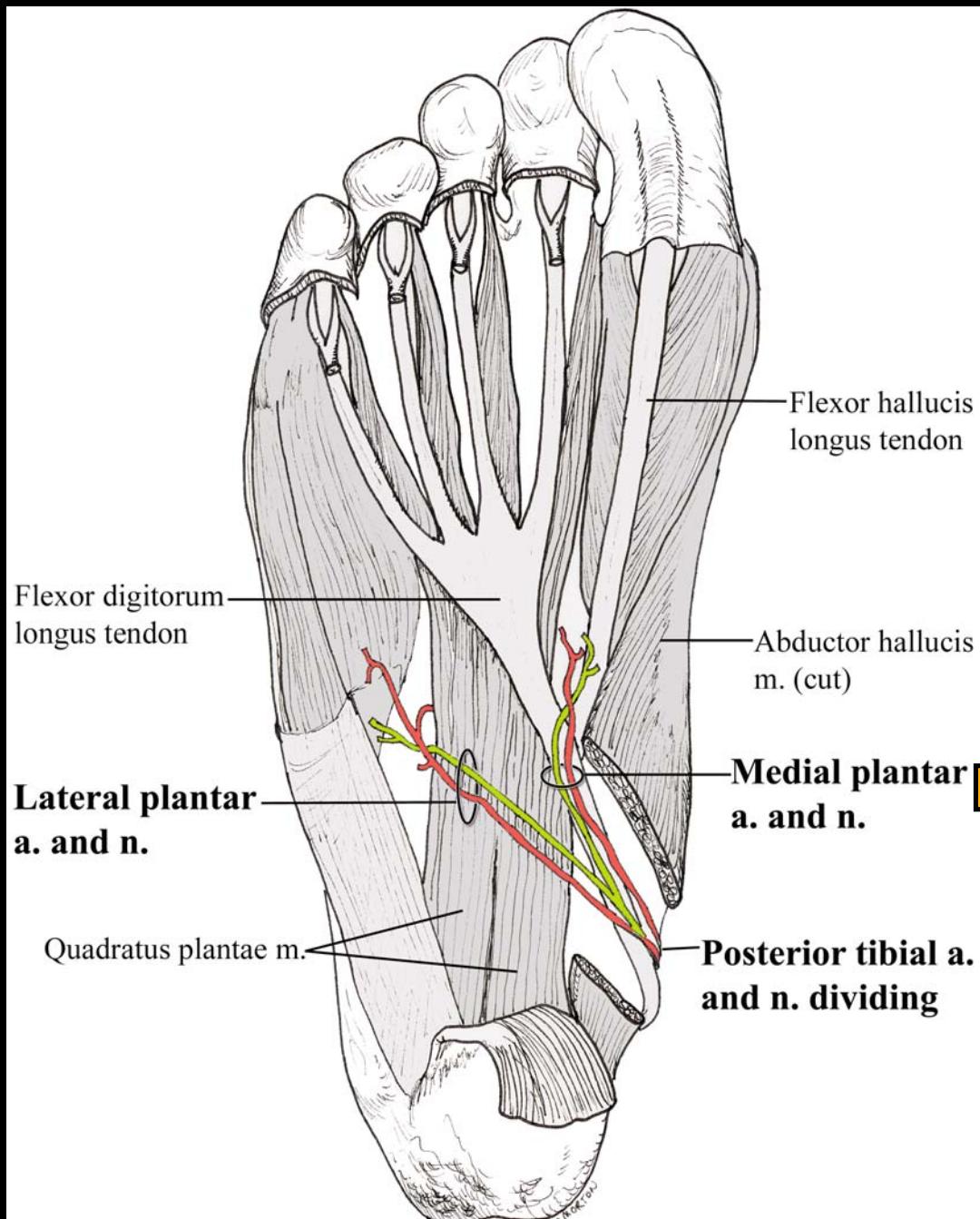
4) Lumbosacral plexus - Foot



4) Lumbosacral plexus - Foot



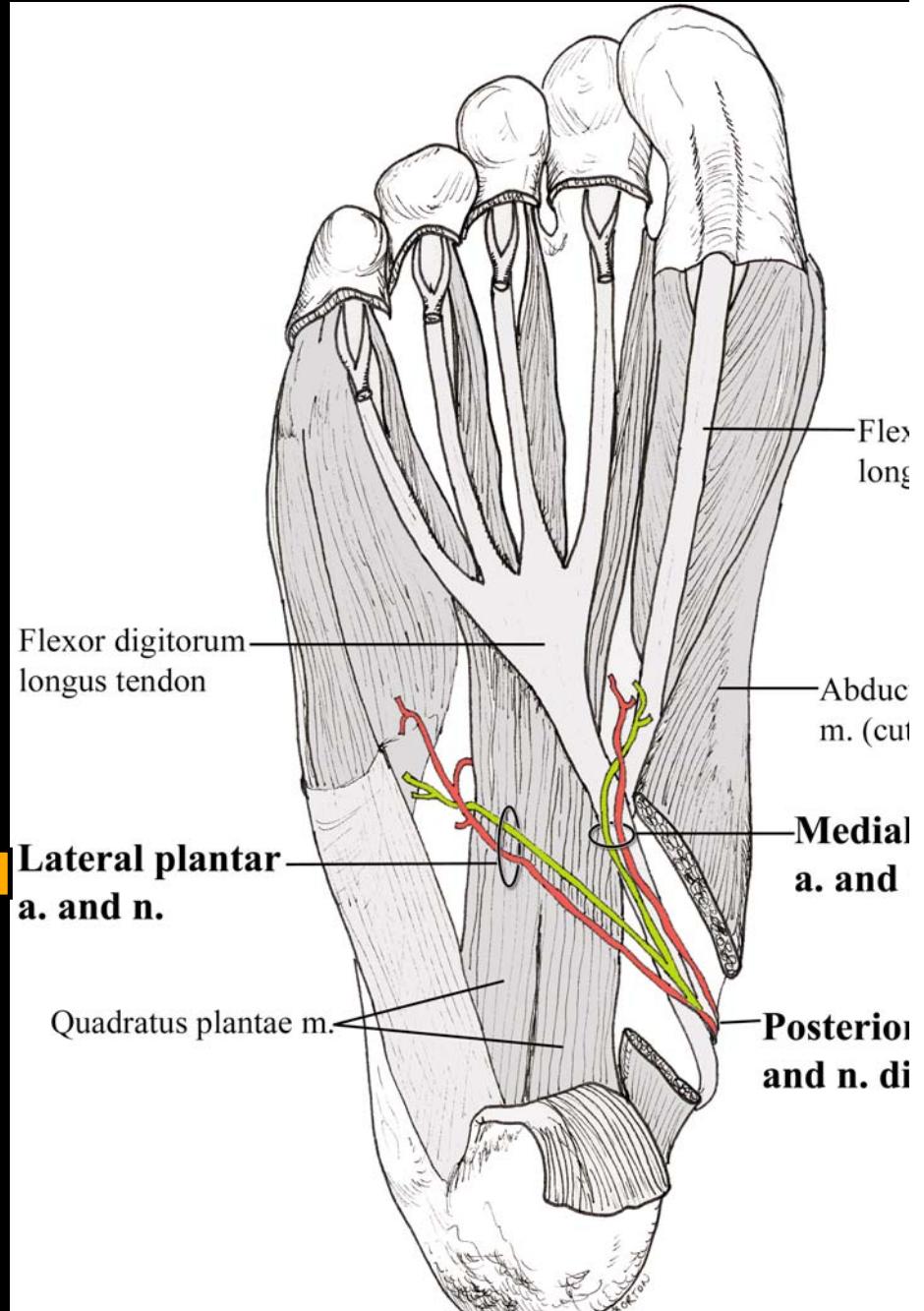
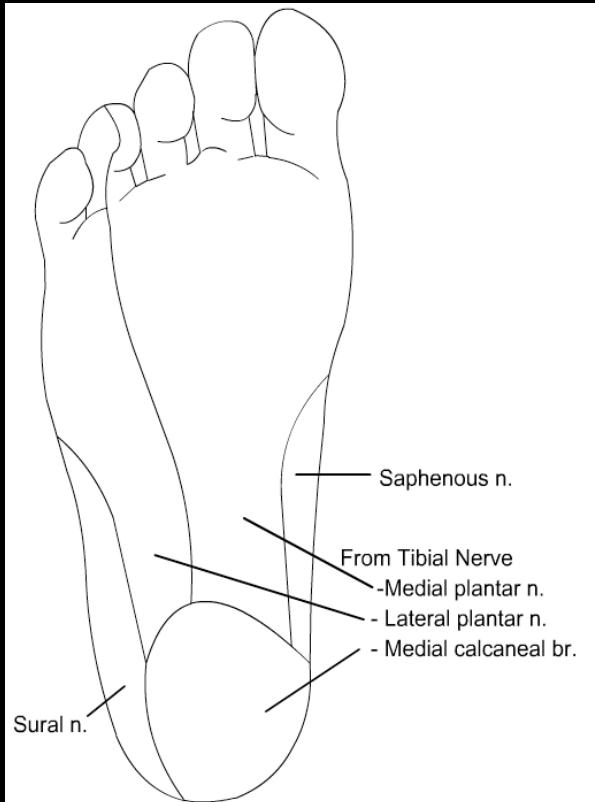
4) Lumbosacral plexus - Foot



→ **1LAFF:**

- 1st Lumbrical
- Abductor hallucis
- Flexor dig. brevis
- Flexor hallucis brevis

4) Lumbosacral plexus - Foot



All other foot muscles:

- Abductor digiti minimi
- Flexor digiti minimi
- Interossei mm.
- 2-4th lumbrical mm.
- Adductor hallucis

5) Vascularization of foot

Femoral artery

Popliteal artery

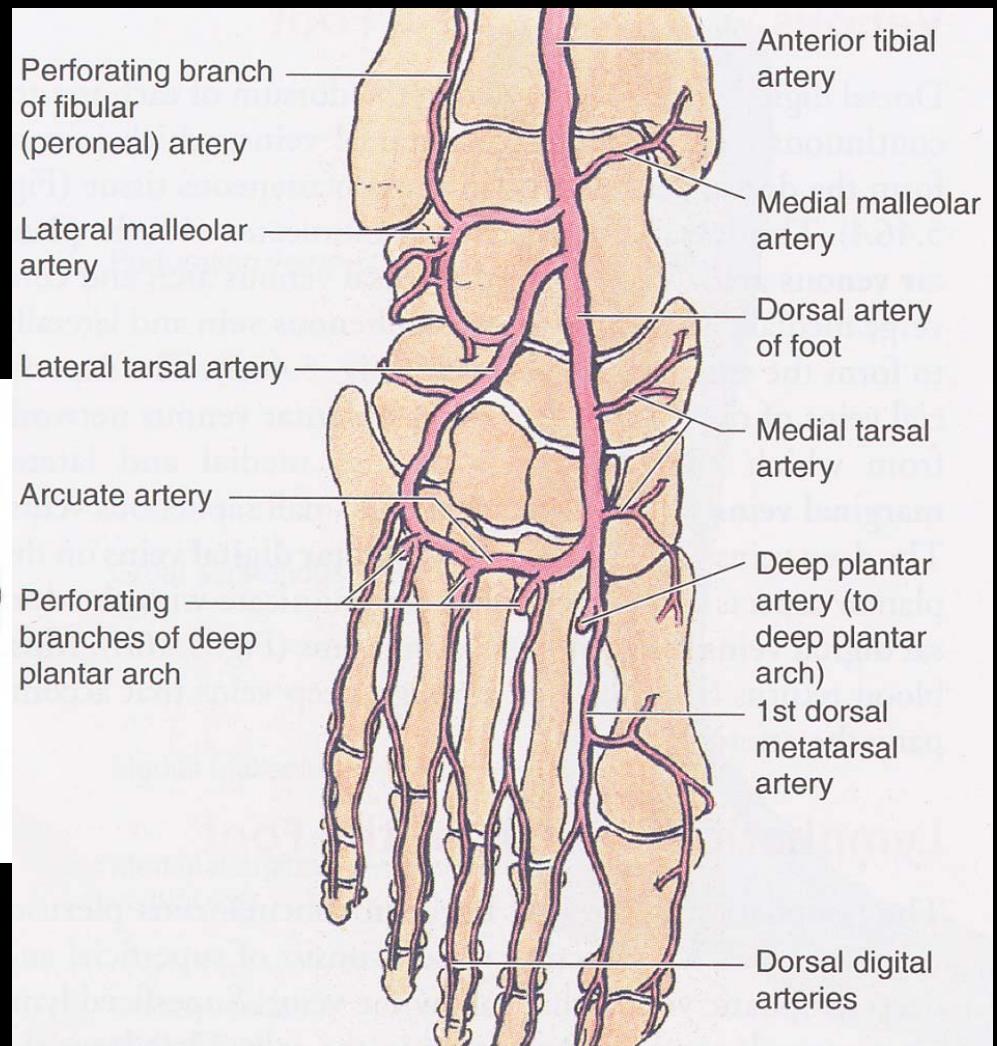
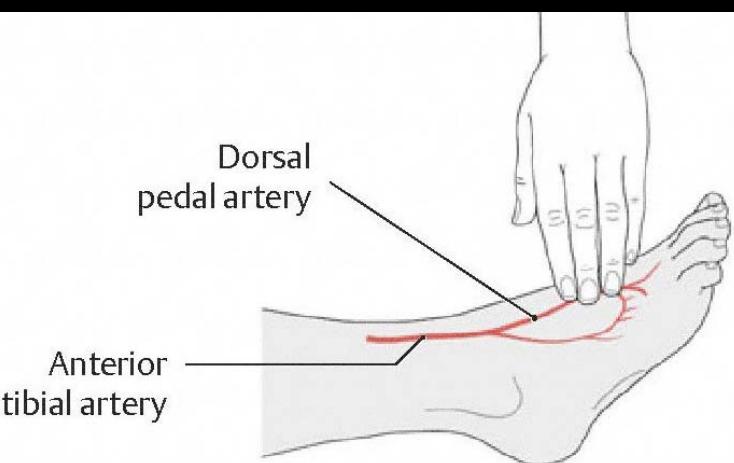
- Anterior tibial artery
- Posterior tibial artery



5) Vascularization of foot

Anterior tibial a.

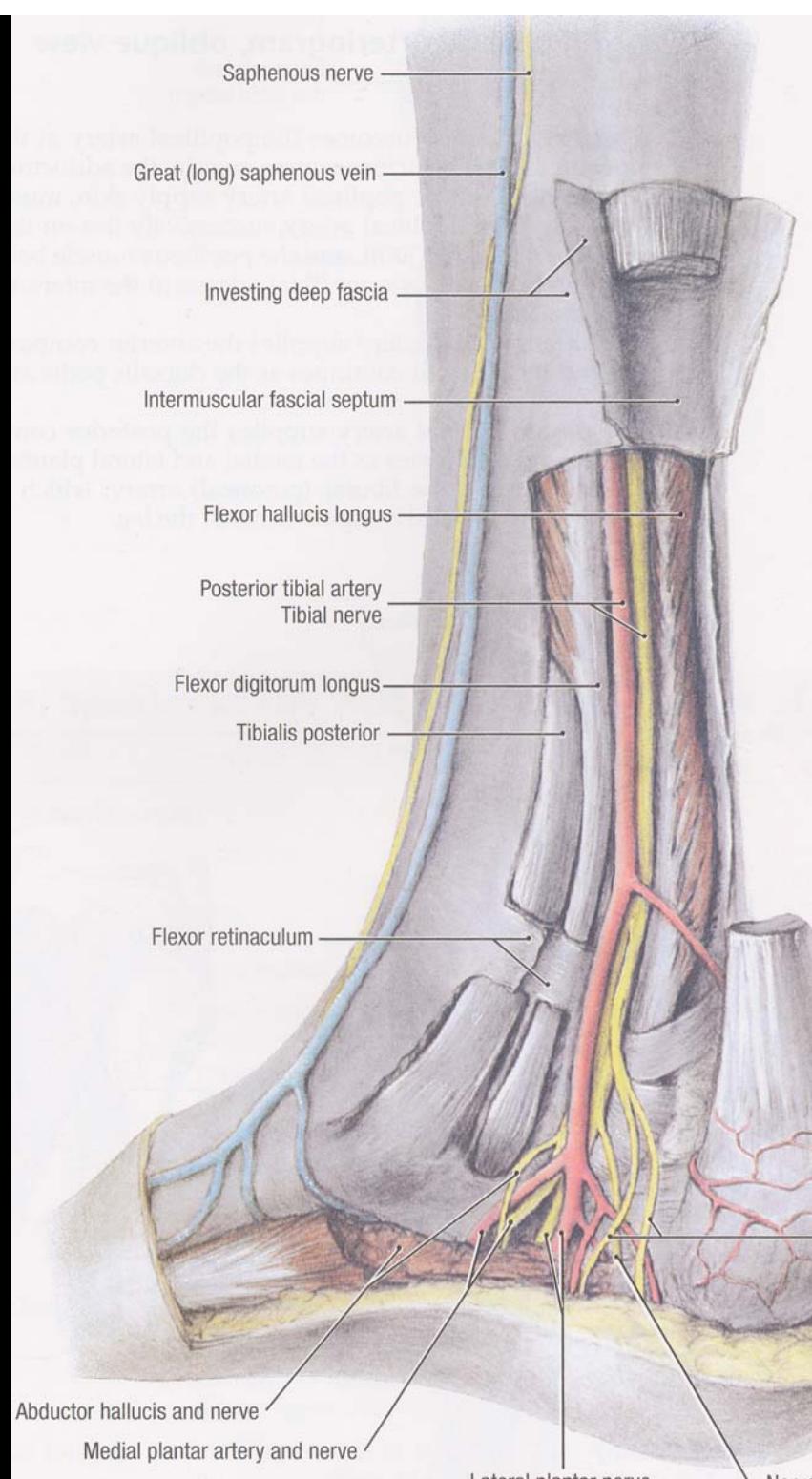
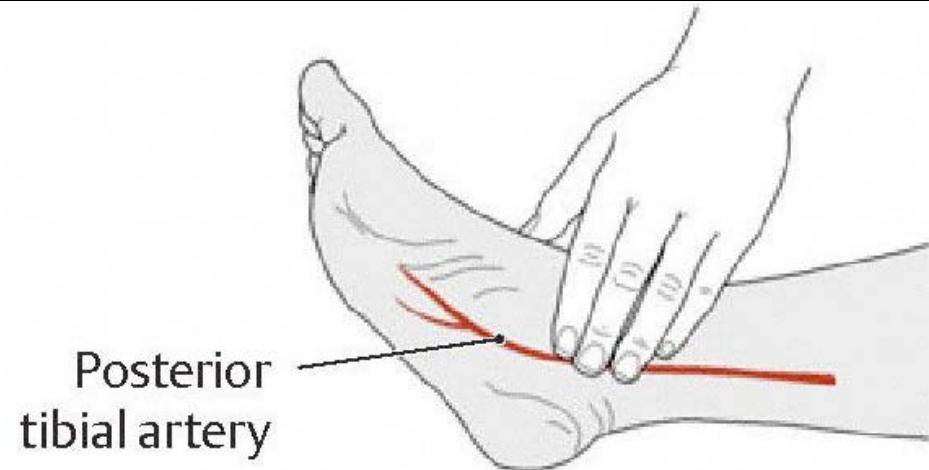
- Dorsal pedis artery



5) Vascularization of foot



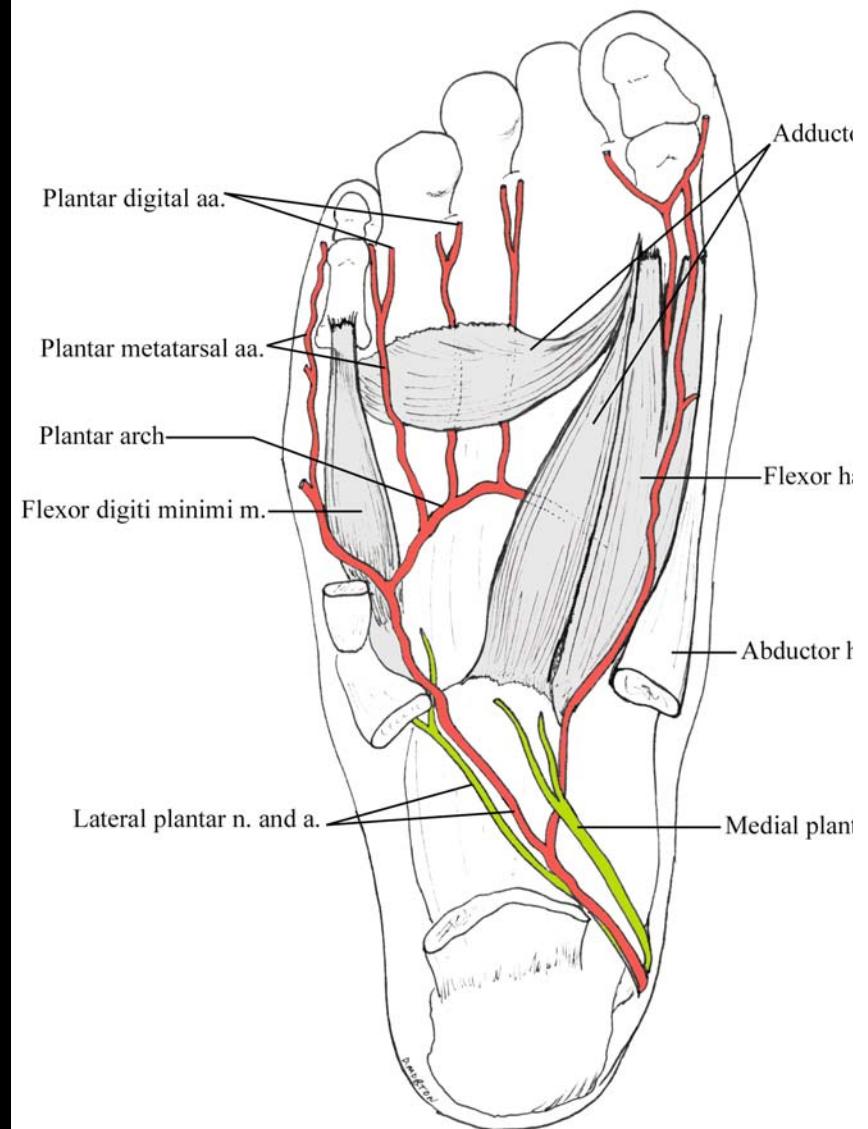
5) Vascularization of foot



5) Vascularization of foot and ankle

Posterior tibial a.

- Medial plantar a.
- Lateral plantar a.
 - Deep plantar arch



5) X-Section

Right or Left leg

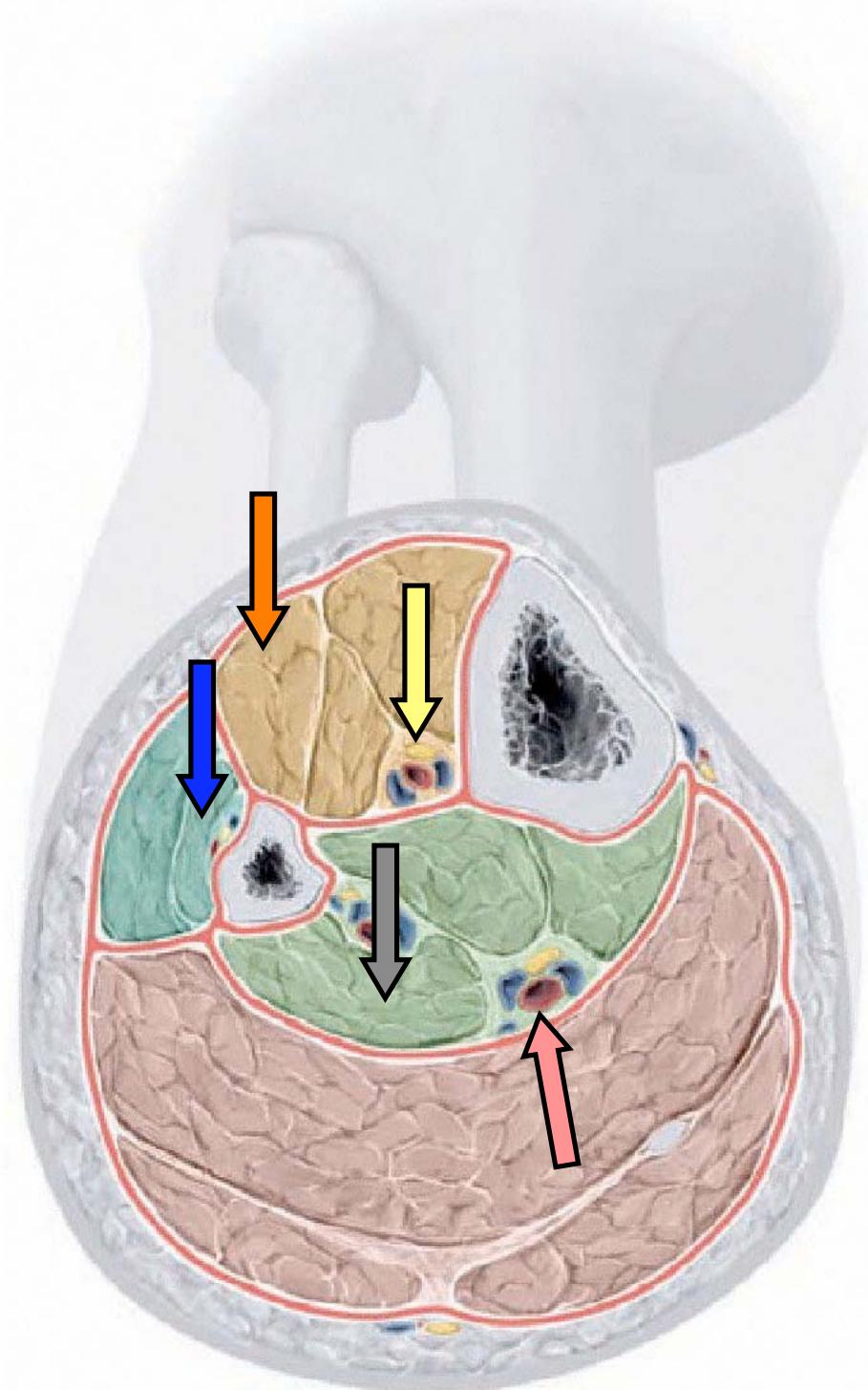
ID the muscle

ID the vessel

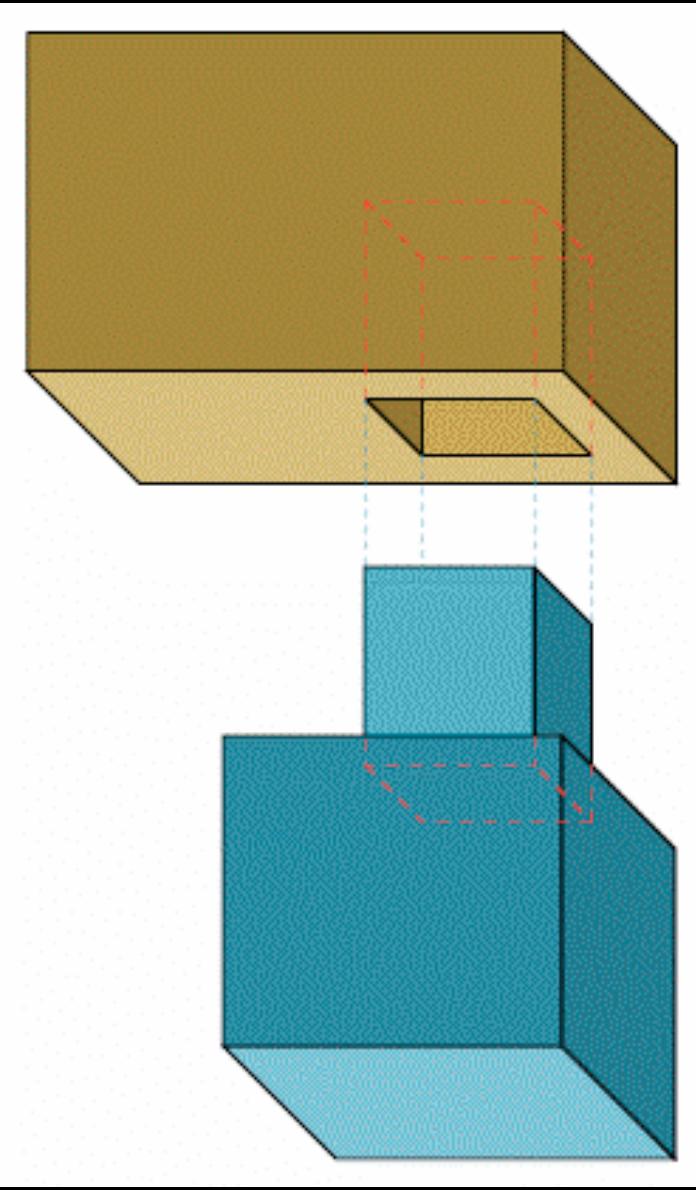
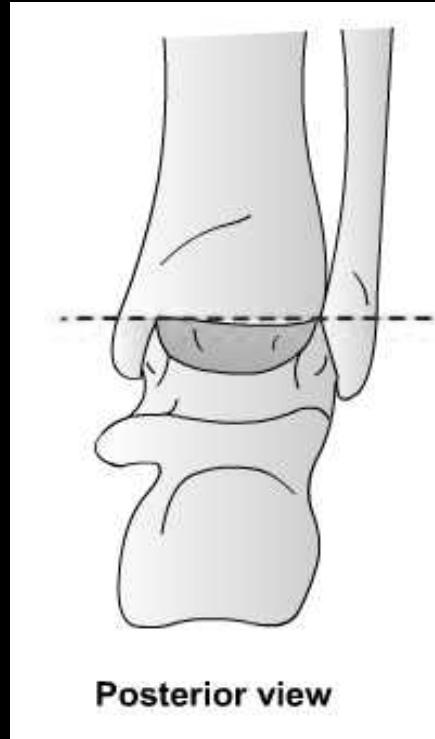
ID the nerve

ID the muscle

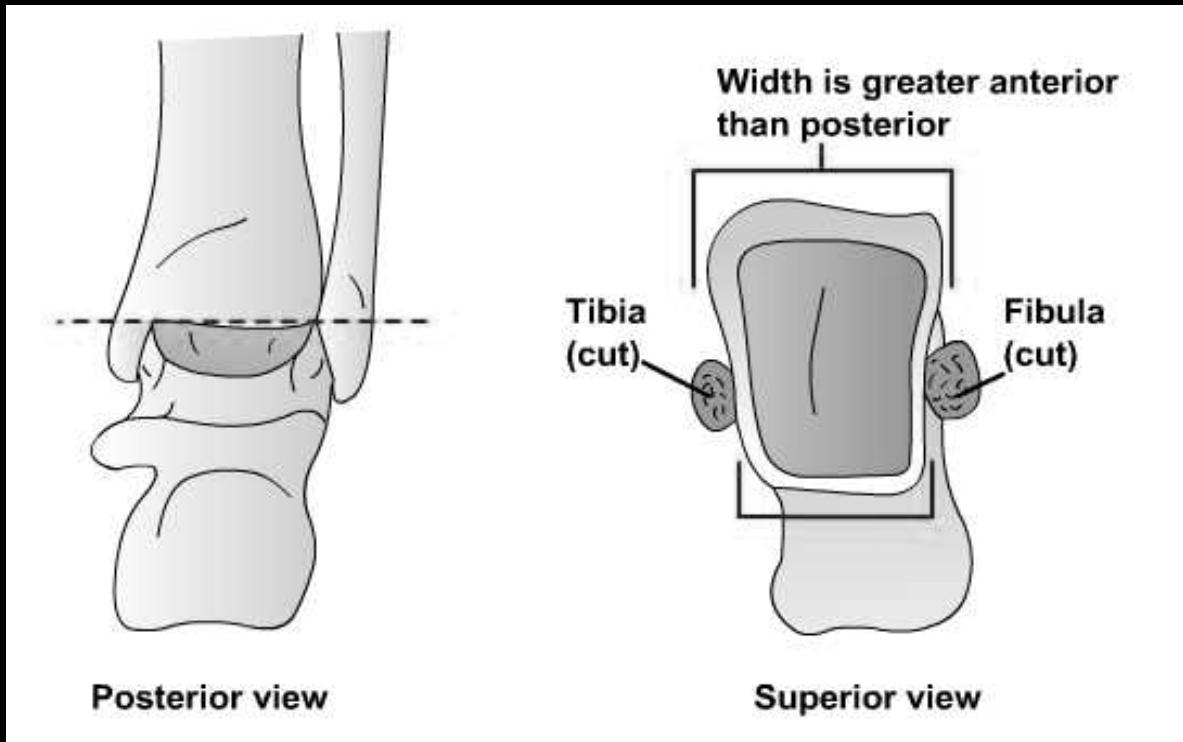
ID the innervation



6) Ankle and foot joints



6) Ankle and foot joints



6) Ankle and foot joints

Medial ligaments

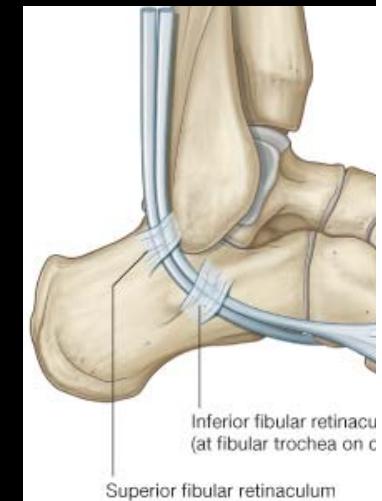
- Deltoid



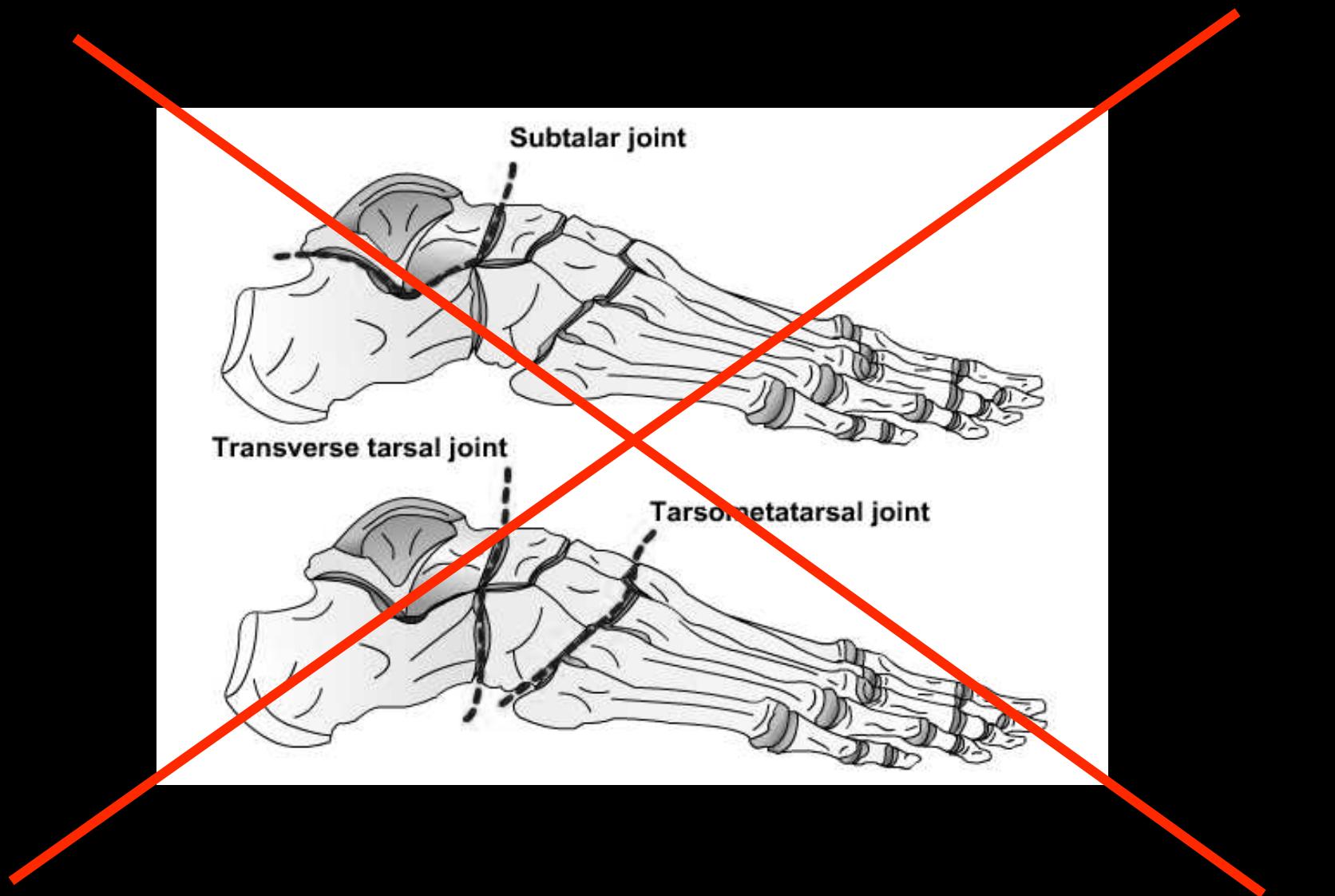
6) Ankle and foot joints

Lateral ligaments

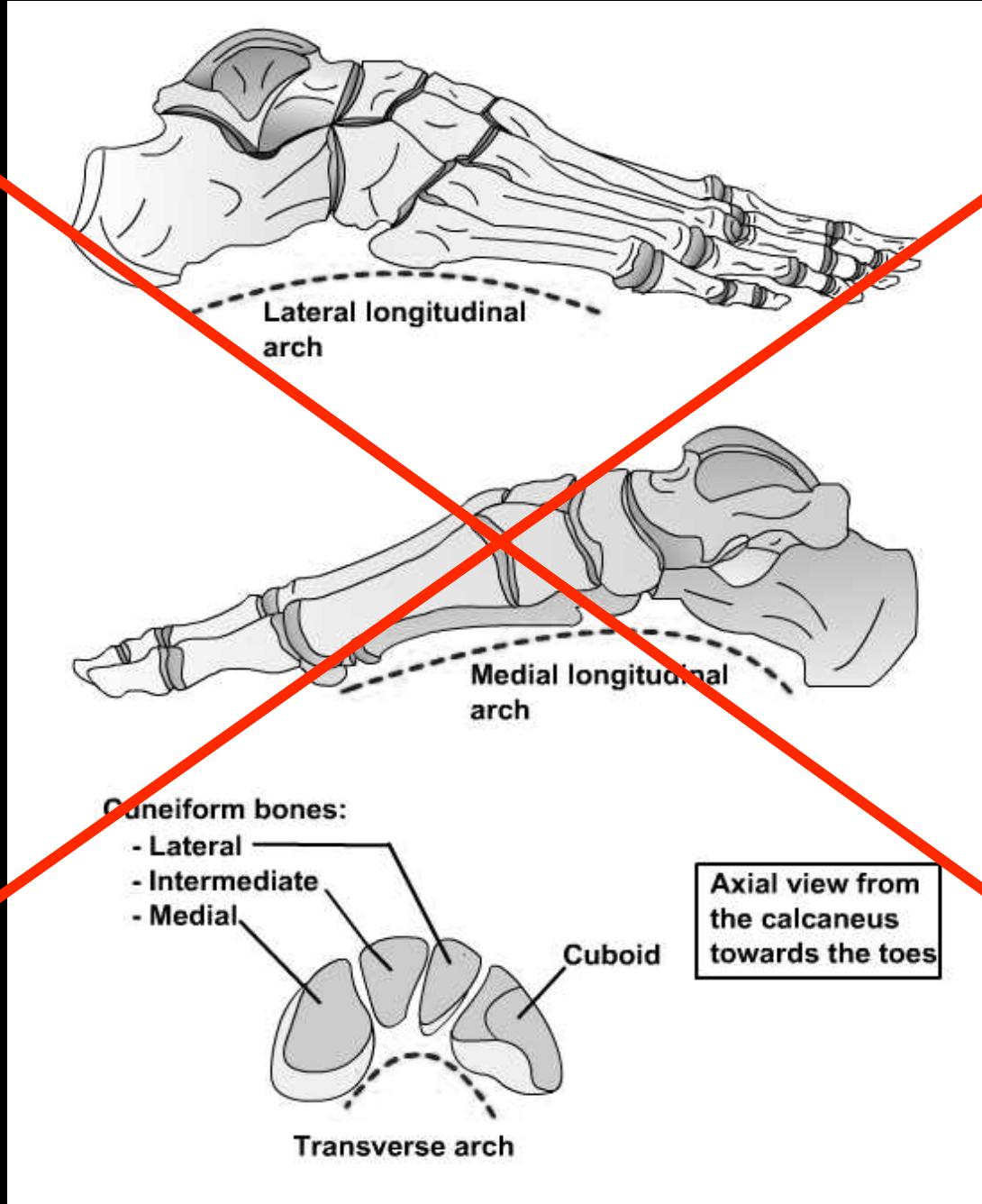
- Ant talofibular
- Post talofibular
- Calcaneofibular

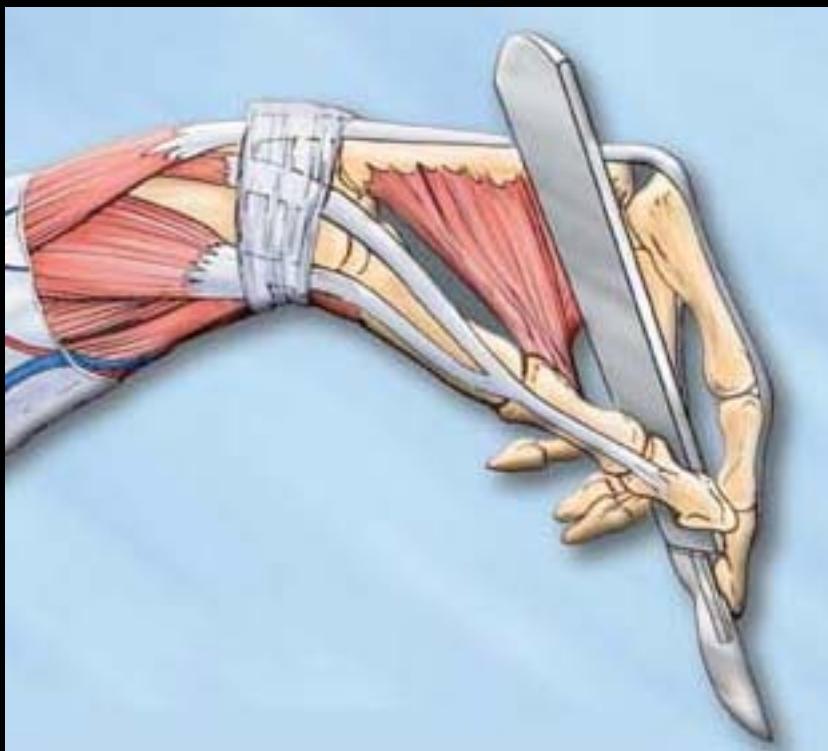


6.b) Ankle and foot joints



6.c) Ankle and foot joints





THANK-YOU