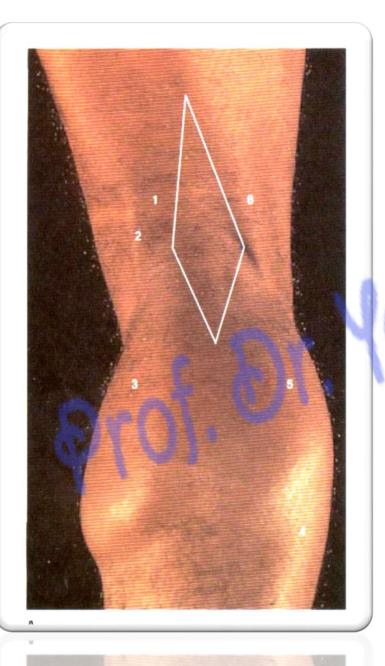


الأستاذ الدكتور/ يوسف حسين

أستاذ التشريح وعلم الأجنة كلية الطب - جامعة الزقازيق- مصر

رئيس قسم التشريح والأنسجة وعلم الأجنة - كلية الطب - جامعة مؤتة دكتوراة من جامعة كولونيا المانيا جروب الفيس د. يوسف حسين (استاذ التشريح)

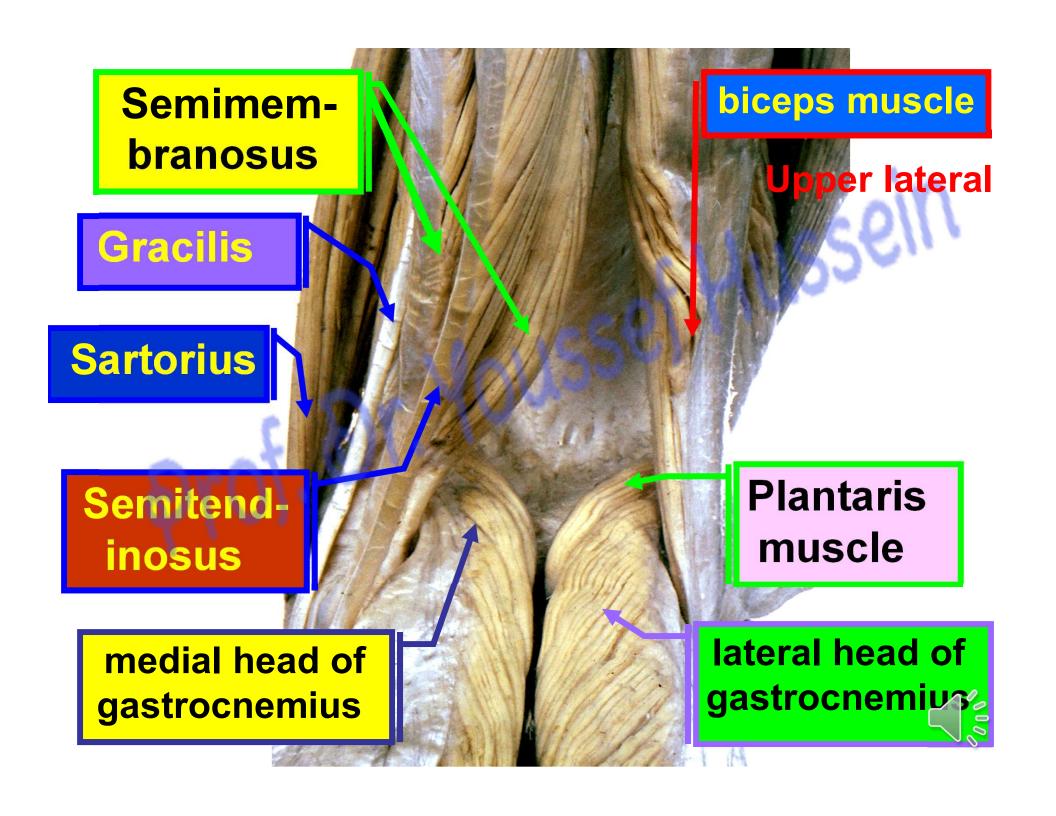


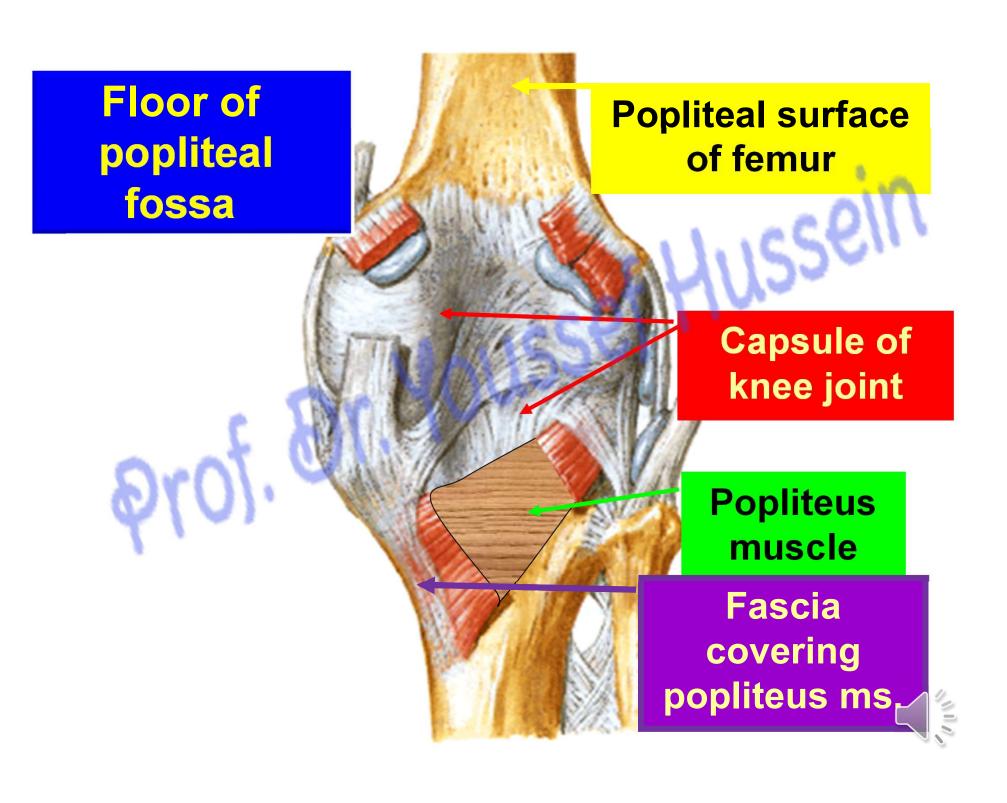


Popliteal fossa

- Definition
- ·Position.
- ·Shape.
- Boundaries







Contents of fossa

Popliteal vein

Popliteal artery

H1

- Popliteal Lymph nodes
- Popliteal fat
- Posterior
 cutaneous nerve
 of the thigh (roof)

Tibial nerve

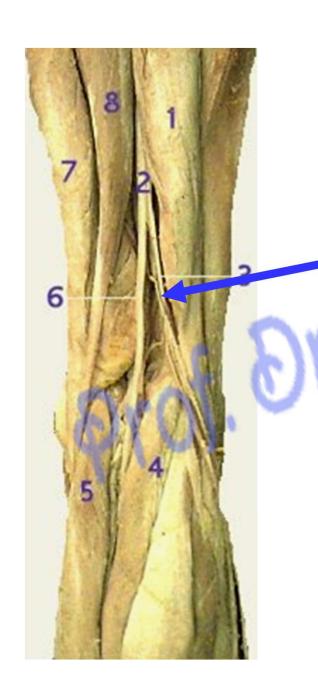
Common peroneal nerve





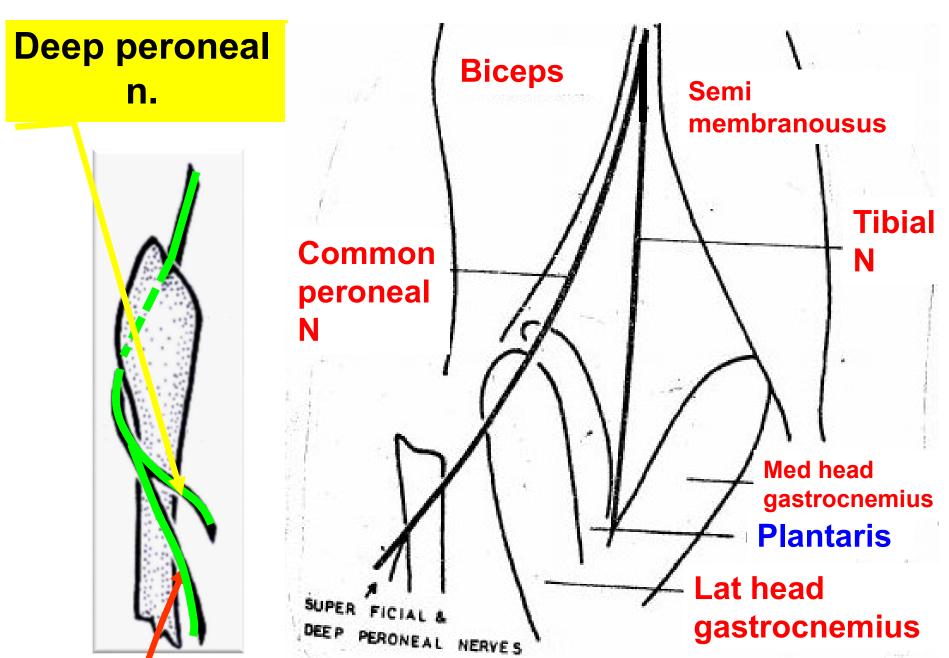
HOME, 3/19/2020

H1



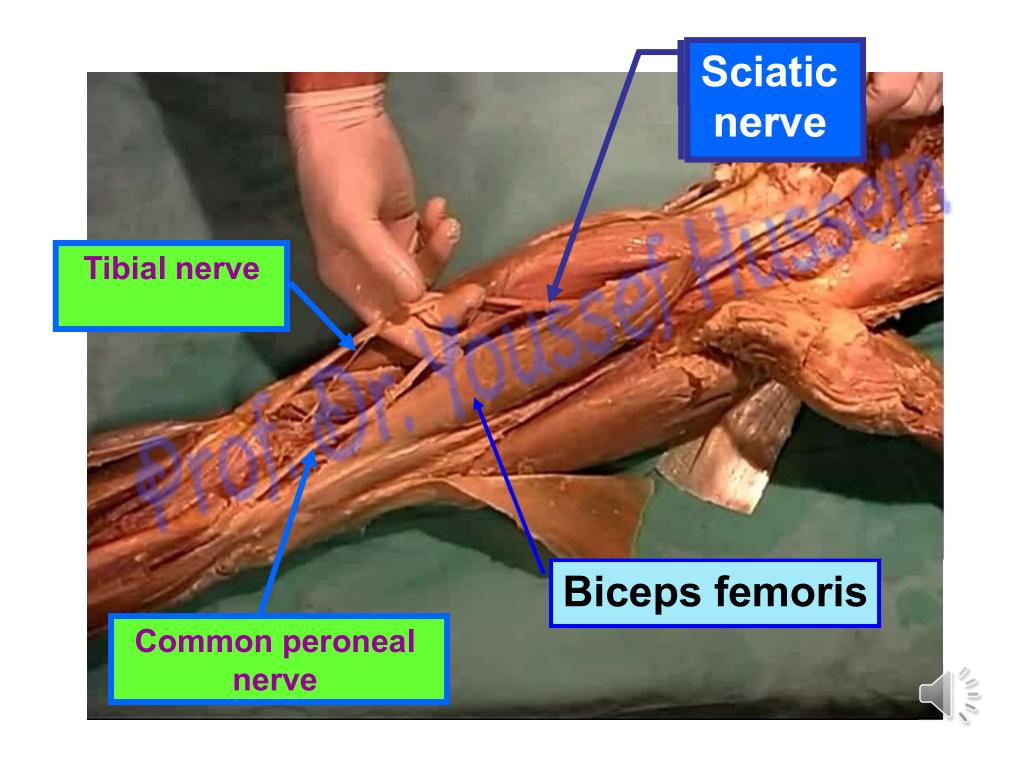
peroneal nerve (L. 4,5 S. 1,2)





Superficial peroneal n.





Common Peroneal Nerve

- ** Origin: one of the two terminal branches of the sciatic nerve in the middle of the back of the thigh.
- ** Roots: It arises from L 4, 5, S 1, 2.
- ** Course;
- It enters the popliteal fossa at its upper angle and descends downwards and laterally close to the medial side of the biceps femoris.
- It leaves the fossa through its lateral angle where it crosses the plantaris and lateral head of gastrocnemius.
- Ends: it curves on the lateral side of the neck of the fibula deep to the peroneus longus, then, divides into deep and superficial peroneal nerves. It is the commonest site of injury

** Branches of Common Peroneal Nerve

- I- No muscular branches in the fossa.
- II- Articular branches to the knee joint.
 - I- Superior lateral genicular nerve.
 - 2- Inferior lateral genicular nerve.
 - 3- Recurrent genicular nerve.

III- Cutaneous branches (LS):

- a. Lateral cutaneous nerve of the calf; it supplies the skin of the lateral, and anterior surfaces of the upper part of the leg.
 - b- Sural communicating nerve.

IV- Terminal branches:

- 1- Deep peroneal (anterior tibial) nerve to the anterior compartment of the leg.
- 2- Superficial peroneal (musculocutaneous) nerve to the lateral compartment of the leg.

Tibial Nerve

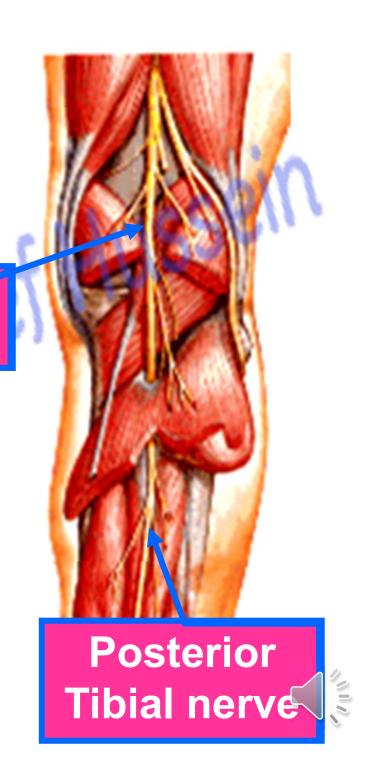
** Origin: one (larger) of the two terminal branches of the sciatic nerve.

** Course:

- It **enters** the fossa at its upper angle and **leaves** the fossa at its lower angle.

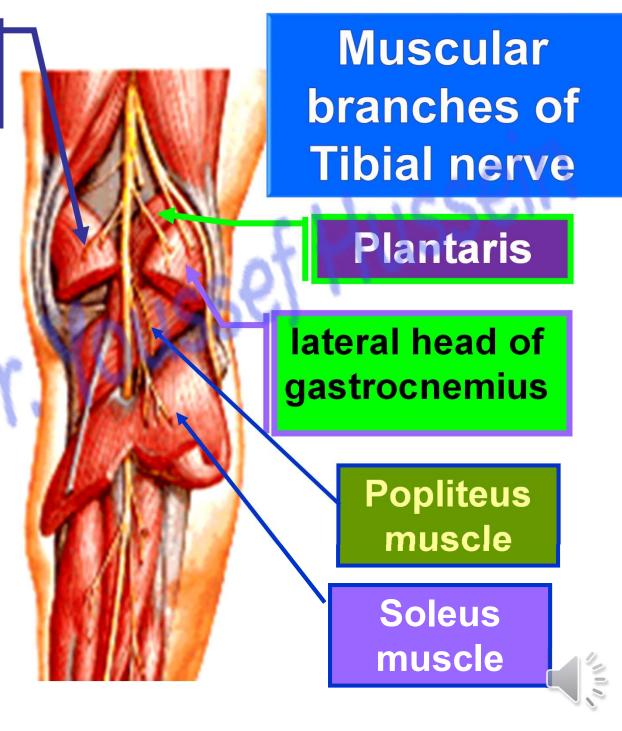
nerve

** Ends: At the distal border of popliteus, it continues as posterior tibial nerve.



medial head of gastrocnemius

- Popliteus (The nerve descends superficial to the muscle and then hooks on its lower border to supply the muscle through its deep surface).
- Soleus. It supplies the muscle through its posterior surface.

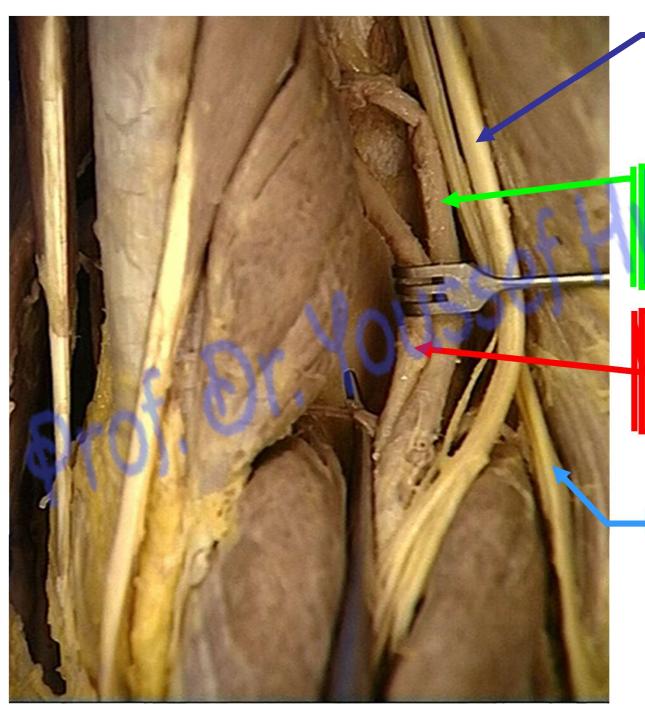


** Branches of the tibial Nerve in the popliteal fossa

- **B-Articular branches:** to the knee joint.
 - 1- Superior medial genicular nerve.
 - 2- Middle genicular nerve (supply the cruciate ligaments).
 - 3- Inferior medial genicular nerve.

C- Cutaneous branch: Sural nerve:

- It descends in the back of the leg.
- It curves behind and below the lateral malleolus to continue forwards along the lateral border of the dorsum of the foot to end in the lateral side of the little toe.
- It **supplies** the back of the leg, lateral border of the foot and lateral side of the little toe.



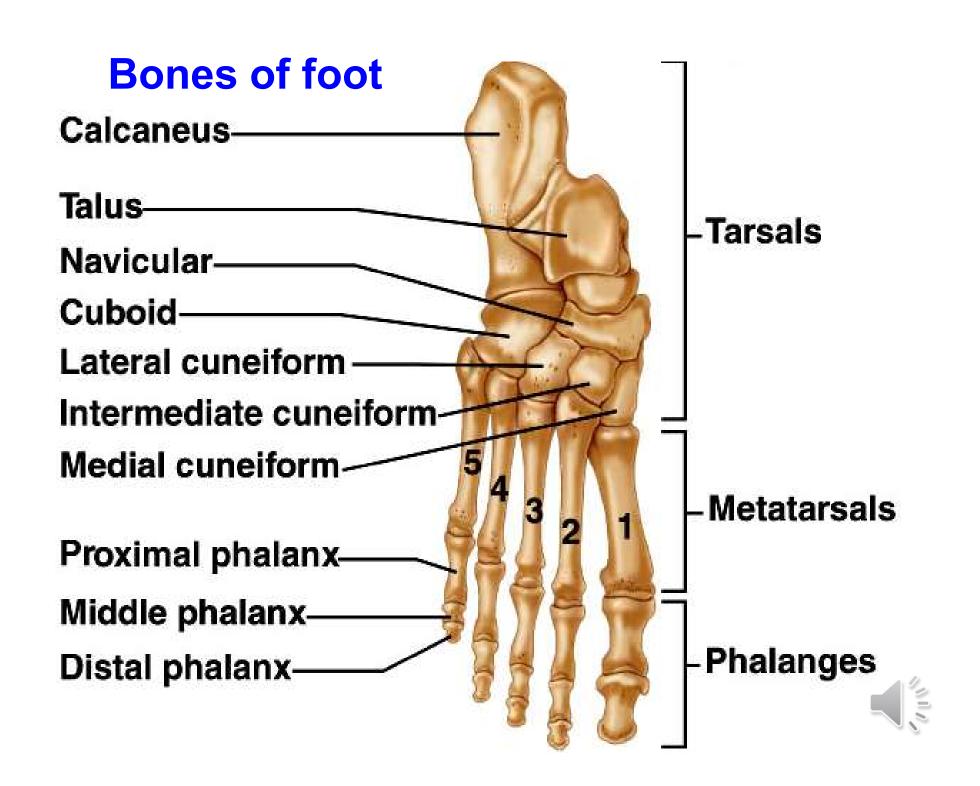
Tibial nerve

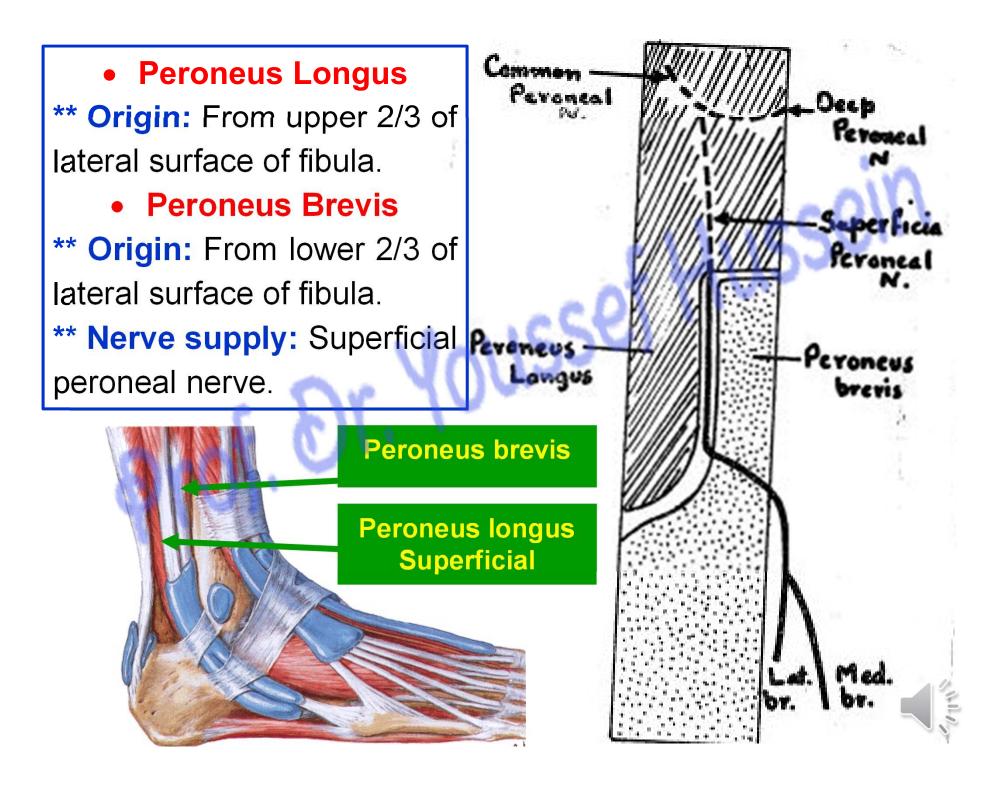
Popliteal vein

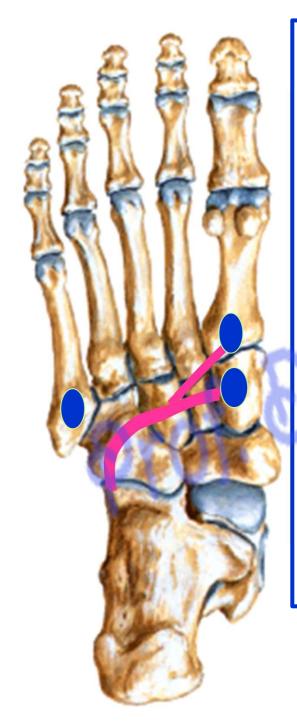
Popliteal artery

Common peroneal nerve









Peroneus Longus

** It cross sole of foot from lateral to medial.

** Insertion: base of the first metatarsal bone and medial cuneiform bone.

Peroneus Brevis

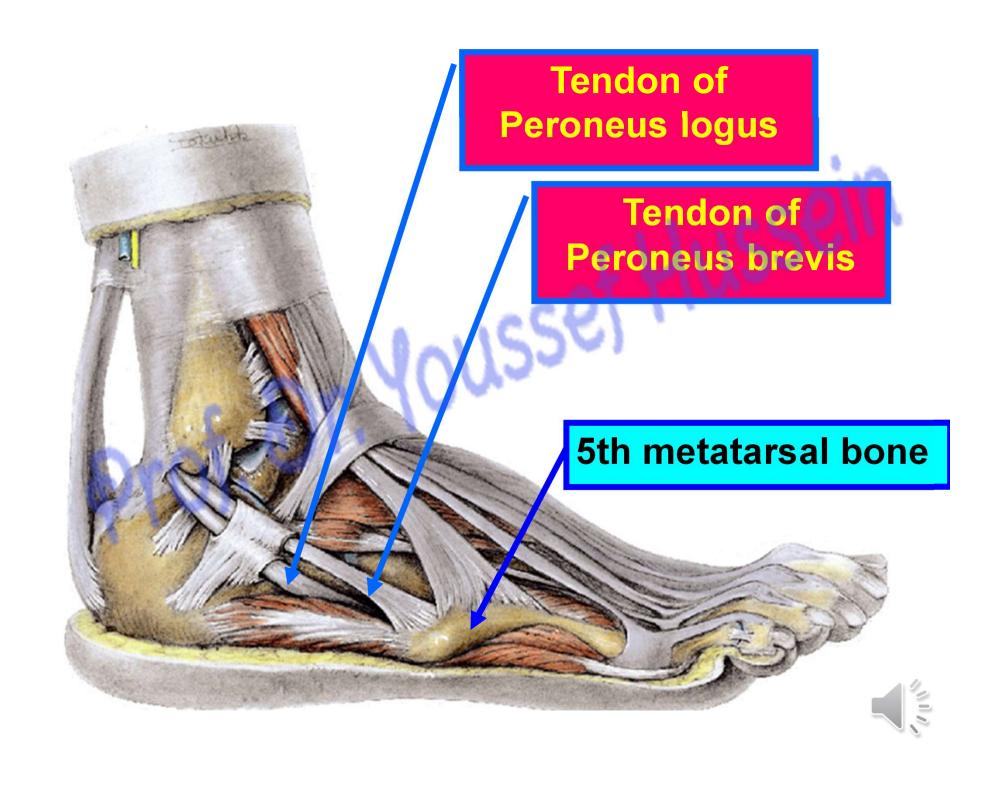
** It is **closely behind** lateral malleolus.

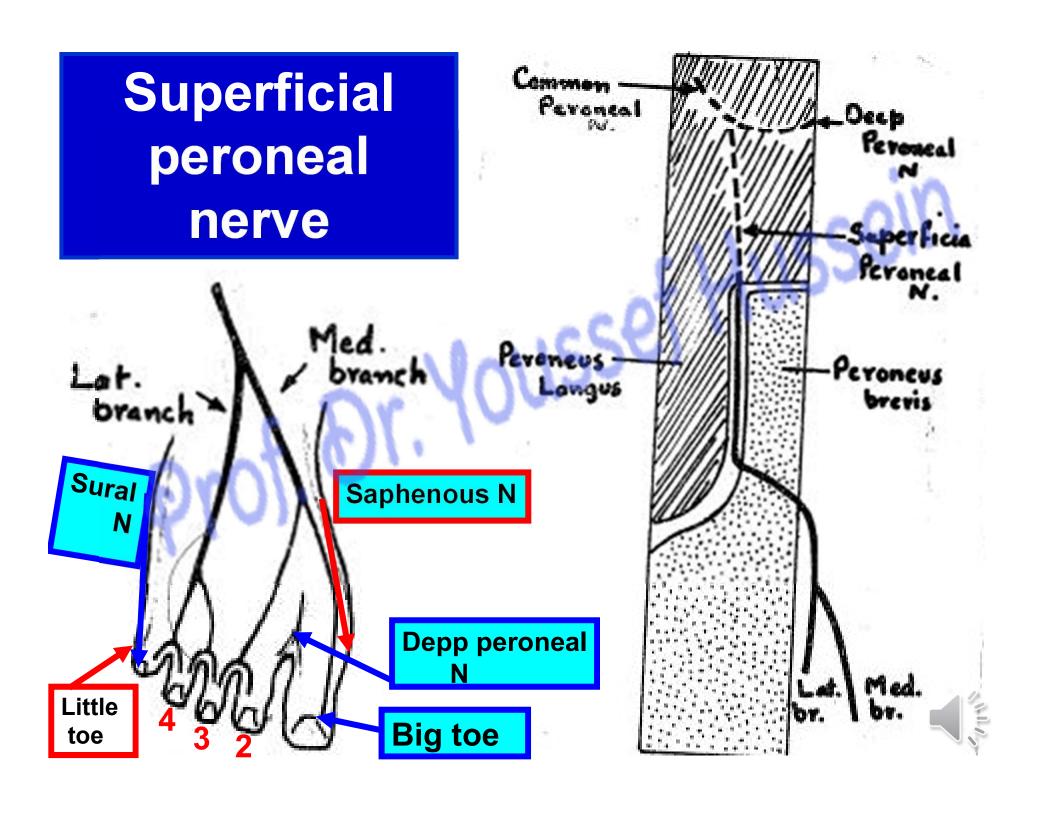
** Insertion: base of 5th metatarsal bone.

** Actions:

- Plantar flexion of the foot.
- 2- Eversion of the foot.
- 3- Peroneus longus Plays an important role in supporting transverse arch of foot.







Superficial Peroneal Nerve (musculocutaneous)

** Origin: It is the smaller of the two terminal branches of the common peroneal nerve within the substance of the peroneus longus.

** Course and relations:

- It descends through the peroneus longus.
- Then between the peroneus longus and brevis.
- In the lower part of the leg; it pierces the deep fascia where it becomes subcutaneous.
- It enters foot superficial to extensor retinacula
- ** Termination; It divides into medial and lateral terminal branches.

Superficial Peroneal Nerve (musculocutaneous)

** Branches

- A- Muscular branches: two 2 peronei longus and brevis.
- **B- Cutaneous branches**
 - 1) The lower part of the lateral side and front of the leg.
 - 2) Intermediate part of the dorsum of the foot.
- C- Medial terminal division (Cutaneous): divides into 2 dorsal digital branches
 - 1- Medial branch to the medial side of the big toe.
 - 2- Lateral branch for adjacent sides of the 2nd and 3rd toes.
- D- Lateral terminal division (Cutaneous) divides into 2 dorsal digital branches:
 - 1- Medial branch for adjacent sides of the 3rd and 4th toes.
 - 2- Lateral branch for adjacent sides of the 4th and little toes.

** Injury of the common peroneal nerve

** Causes: Facture of the neck of the fibula (The commonest

site & dangerous position).

** Effect of injury:

- 1- Motor; Paralysis of muscles of the leg
- Anterior compartment (deep peroneal N)
- Lateral compartment (superficial peroneal)

-Deformity: Foot drops

(manifested by plantar flexion and Inversion).

2- Sensory;

- 1) Loss of sensations on lower part of the front of the leg.
- 2) Loss of sensation of the dorsum of the foot except medial side (saphenous nerve)
- 3) Loss of sensation dorsum of all toes **except** lateral side of little toe (sural nerve)



