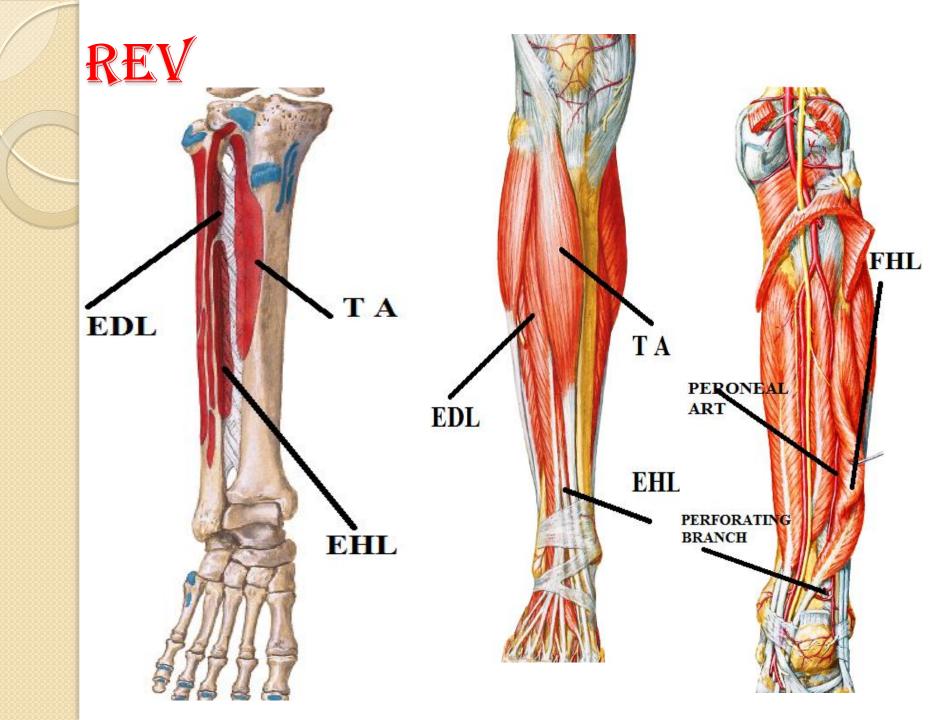
ARTERIES OF LOWER LIMB 2





BY
DR ABULMAATY MOHAMED
ASSISTANT PROFESSOR
ANATOMY & EMBRYOLOGY
MUTAH UNIVERSITY

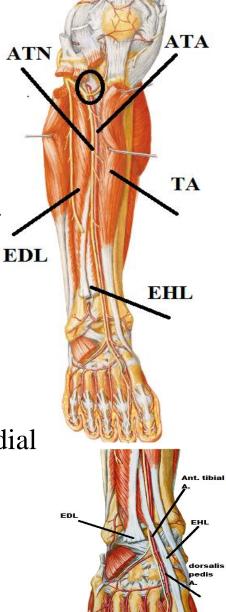


ANT. TIBIAL ARTERY

- O.: smaller terminal br. of popliteal art.
 - at lower border of popliteus

C. & R.:

- at first it lies in post. compartment of leg then pass forward through opening in upper part of interosseous membrane to enter ant. compartment.
- descends in front of interosseous membrane
- () tibialis ant. & ext. digit. Longus then
- () tibialis ant. & ext. hallucis longus then crossed by ext. hallucis longus from lateral to medial
- descend in front of tibia
- () tendons of ext. hallucis longus(medially)
- & ext. digit. Longus (laterally)
- along its course it is accompanied by ant. tibial n.



ANT. TIBIAL ARTERY

E: -midway () 2 malleoli, to be dorsalis pedis art.

branches:

-muscular:

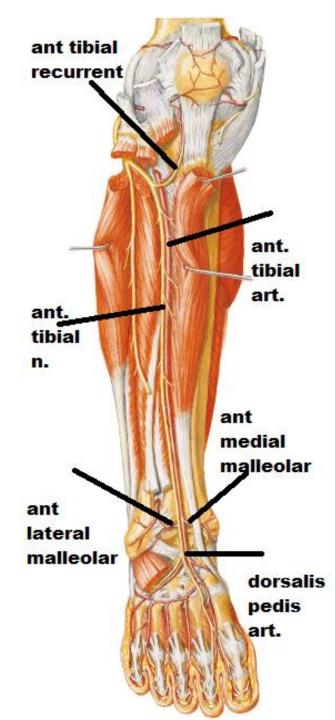
to muscles of ant. compartment

- post. tibial recurrent:
- -ant. tibial recurrent:

both brs share in anastomosis around knee

- -ant. medial malleolar
- -ant. lateral malleolar

both share in anastomosis around ankle



DORSALIS PEDIS ARTERY

O:-midway () 2 malleoli as continuation of ant. tibial art

C.& R.:

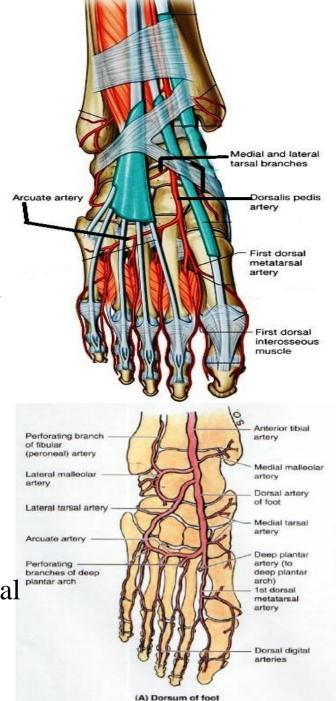
- run forward on dorsum of foot in line with 1st interdigital cleft
- Then downward () 2 heads of 1st dorsal interosseous to enter sole

E.: - in sole

- anastomose with plantar arch

branches:

- 1- medial & lateral tarsal
- 2- 1st dorsal metatarsal
- 3- Arcuate \rightarrow 2nd, 3rd, 4th dorsal metatarsal
- 4- 1st plantar metatarsal.



POSTERIOR TIBIAL ARTERY

- O.: -larger terminal branch of popliteal art
 - -at lower border of popliteus.
 - -It supplies post. & lateral compartments of leg

C. & R.:

- descends in posterior compartment of the leg accompanied by posterior tibial nerve
- in upper part of leg

descends vertically () soleus & tibialis post.

in lower part of leg

the art. become superficial covered by skin, fasciae

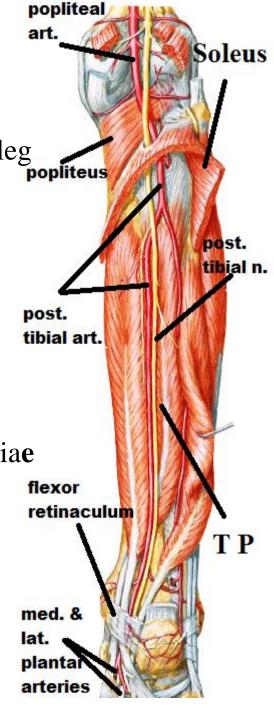
lying on back of lower end of tibia

& capsule of ankle

E: -deep to flexor retinaculum

(behind medial malleolus) (pulsation felt)

-give medial & lateral plantar arteries



POSTERIOR TIBIAL ARTERY

branches:

1-circumflex fibular:-

share in anastomosis around knee

2-peroneal art.:

The largest & longest branch that supply lateral compartment

3-terminal brs:

medial & lateral plantar arteries

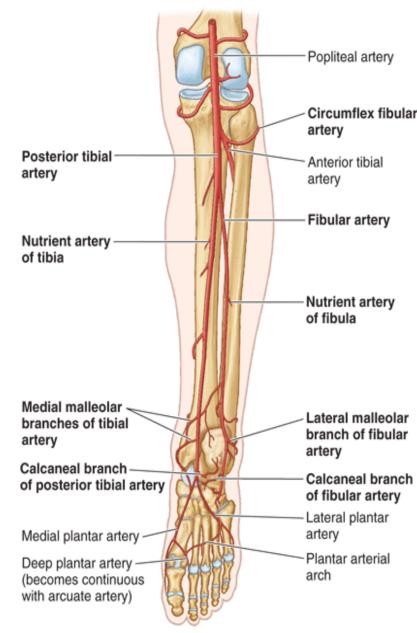
4-muscular brs:

to muscles of post. compartment

5-nutrient br: to tibia

6-medial calcanian & malleolar brs:

anastomosis around ankle



Posterior view with foot plantar flexed

POSTERIOR TIBIAL ARTERY

Peroneal (fibular) art.:

O: - near to origin of post. tibial art

C: -descend vertically behind the fibula

close to flexor hallucis longus

PERONEAL

PERFORATING BRANCH

brs:

1-perforating br.:

pierce interosseous membrane to reach ant. Compartment of leg May replace anterior tibial art.

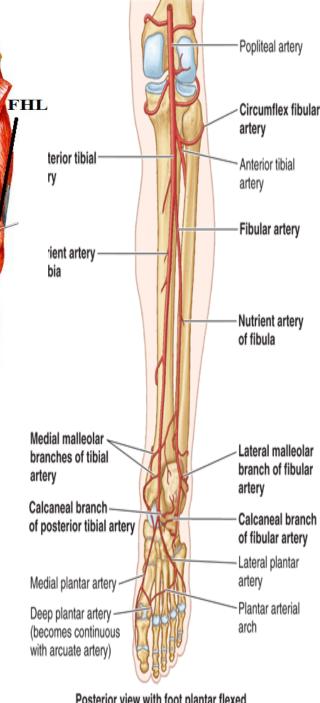
2-muscular brs:

to muscles of lateral compartment of leg

3-nutrient br. to fibula

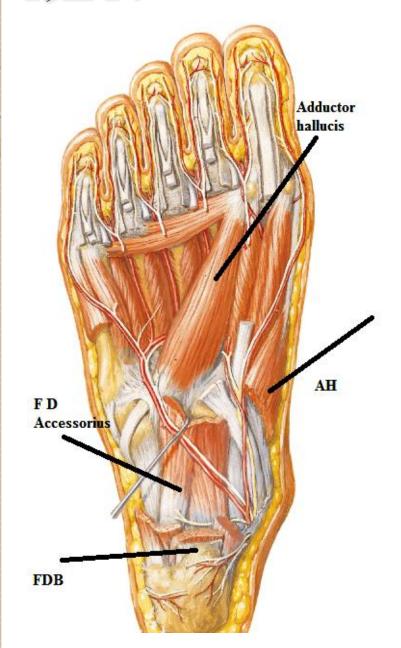
4- lateral calcanean &malleolar brs:

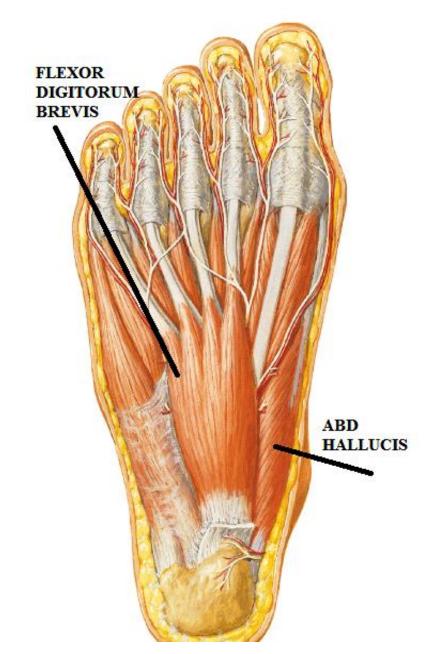
to anastomosis around ankle



Posterior view with foot plantar flexed

REV.





MEDIAL PLANTAR ARTERY

O: - small terminal br. of post. tibial art.

-deep to flexor retinaculum

C & r: with medial plantar n.

(The nerve lateral to the artery)

- pass deep to abductor hallucis
 - then () it & flexor digi. brevis

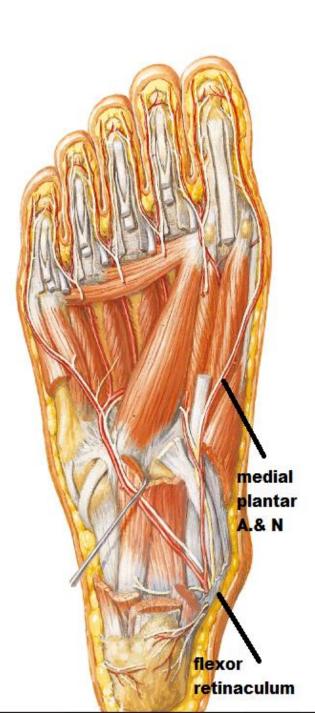
E.: by supplying medial side of big toe

Brs:

Cutaneous &

Muscular &

Articular branches:



LATERAL PLANTAR ARTERY

O: - large terminal br of post. tibial art.

-deep to flexor retinaculum

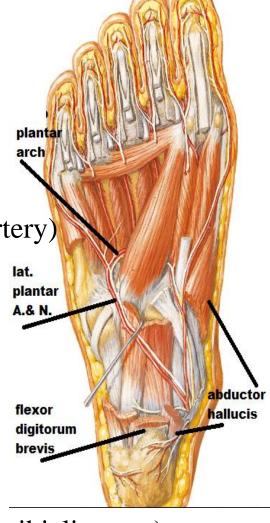
C & r:

With lateral plantar n. (the nerve medial to the artery)

- -Pass deep to abductor hallucis.
- -then() FDB & flexor digitorum accessories till the base of 5th metatarsal
- -At base of 5th metatarsal it curve medially to form plantar arch that pass () the 3rd layer (adductor hallucis)

and the 4th layer (tendons of peroneus longus & tibialis post.)

N.B. the deep branch of lateral plantar n. lies in concavity of the plantar arch



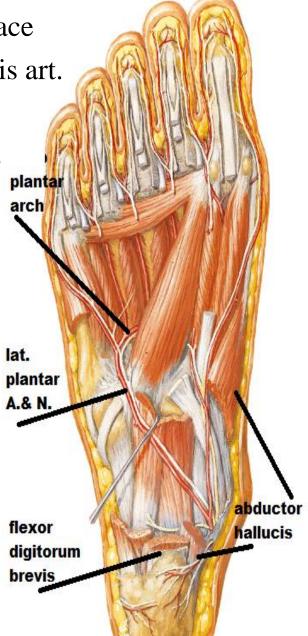
LATERAL PLANTAR ARTERY

E.: -at proximal end of 1st intermetatarsal space -anastomose with the end of dorsalis pedis art.

brs:

1-cutaneous & muscular & articular branches
2-The plantar arch give:

plantar digital arteries to toes.



THANQ