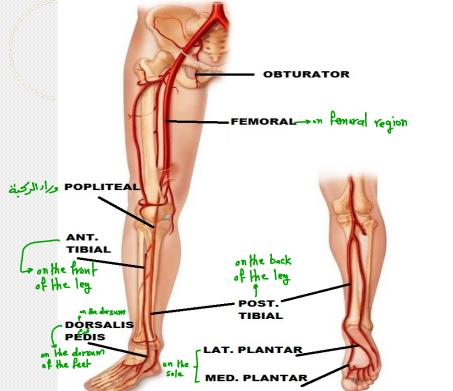
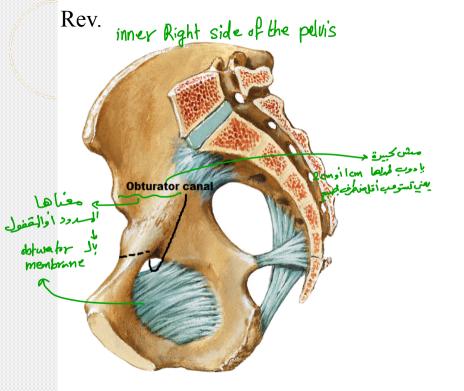
ARTERIES OF LOWER LIMB





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obturator ARTERY

O.: - br. from ant. division of int. iliac art.

Inside the pelvis C. & T.

-enters the thigh through obturator canal

-at ant. end of canal \rightarrow

medial & lateral divisions that from arterial circle

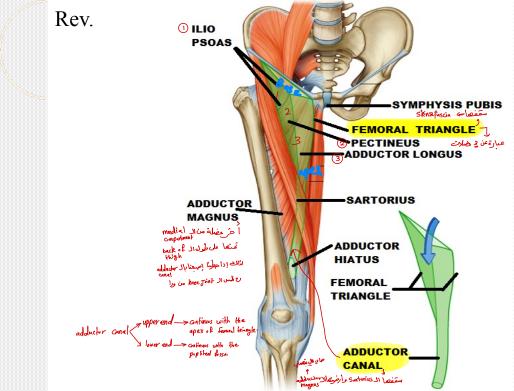
at margins of obturator membrane

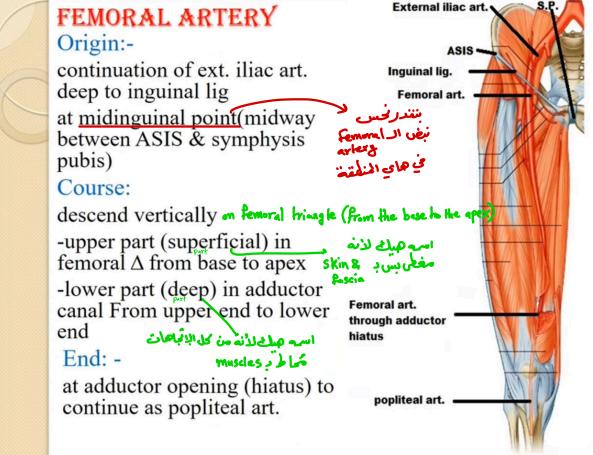
branches: acetabular br.:-

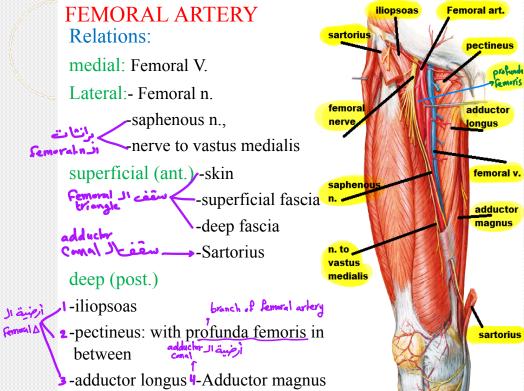
ید قاعدة : أي نشريان بد- يعلي بولنشات الداسه امسه امسه امسه المسهد عشان منيه کشير muxle

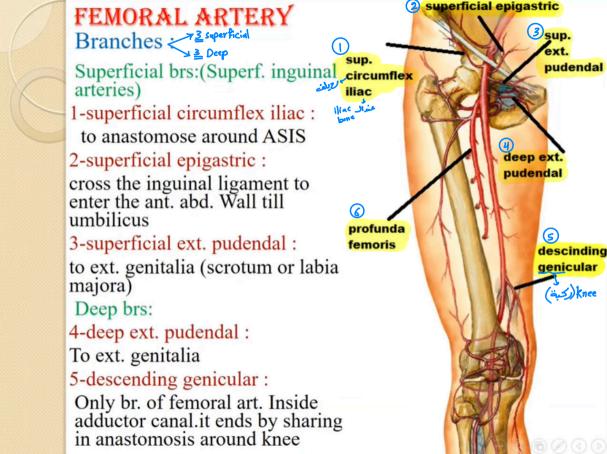
pass through acetabular notch to supply head of femur

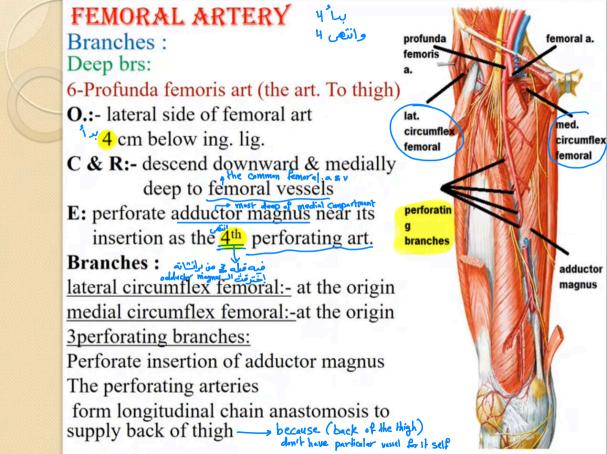
-muscular branches: - to medial compartment of the thigh

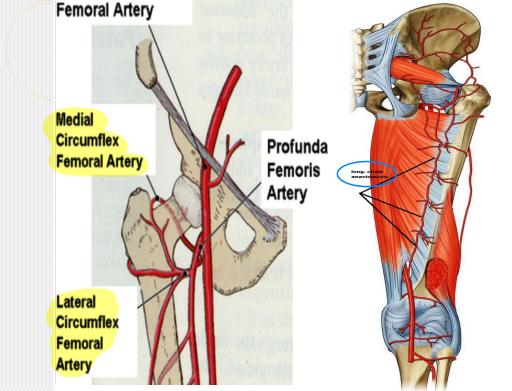












(FEMORAL ARTERY anastomosis) Trochanteric anastomosis

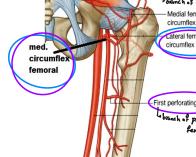
-It is the main blood supply to the head of the femur + activities are required.

-formed by Superior, inferior gluteal arteries &

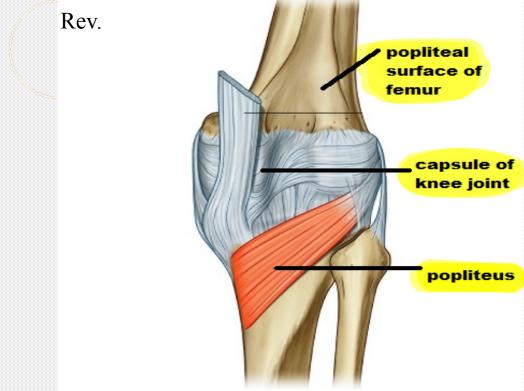
Medial, lateral circumflex femoral arteries

cruciate anastomosis

- -Between internal iliac & femoral معني اذا صار فيعتسكير الم external عادي رو بيم تعريفه و external على الم
- 1-1st perforator of profunda
- 2-inferior gluteal
- 3-Medial circumflex femoral
- 4-lateral circumflex femoral



Superior gluteal arter



POPLITEAL ARTERY

O: -continuation of femoral art -at adductor opening

C.: descends in popliteal fossa as deepest structure على ومطهم عبداً الانصالات المناهدية

E.: -at lower border of popliteus -give ant. &post tibial arteries

R.:

crossing over popliteal surface of femur capsule of knee joint popliteus muscle - crossed superficially by popliteal v & tibial n fasciae & skin -separated from the tibial n *popliteal .a the deepest

by popliteal v

post, tibial a. 10wer part of the Lemur مكن ينقلع هذا الشيان popliteal fossae: * popliteal. v above it

Hibialin on the top

adductor hiatus

tibial n.

ant, tibial a.

popliteal v.

popliteal ARTERY branches:

A-muscular brs: to near muscles B-genicular brs : 5 superomedial, superoLateral inferomedial, inferolateral middle they share in anastomosis around knee joint anastomosis around knee descending genicular (femoral)

br of lateral cir femoral (profund

5 genicular branches (popliteal)

Circumflex fibular (post-tibial)

circumflex femoral artery branch of profund lemon's branch . P Semora 1.a Descending genicular artery Superior medial Superior latera genicular artery genicular artery Inferior lateral genicular artery branch of poster tibial. Circumflex Inferior medial genicular artery Recurrent branch Posterior of anterior tibial tibial artery ant. & post. tibial recurrent (anti-fibial)

Descending branch of lateral

Femoral artery

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

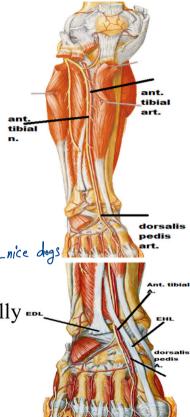
in upper part of interosseous membrane to enter ant. compartment of leg.

-descends in front of interosseous membrane with ant. tibial n. Tom has very nice dogs

tendons of ext. hallucis longus(medially ext. & ext. digit. Longus (laterally) where pulsations are felt

-at the ankle; it lies between

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



Ant. Tibial ARTERY branches:

-muscular:

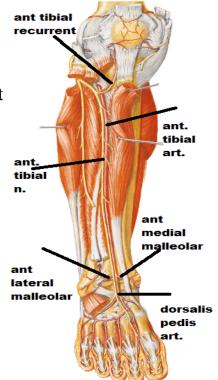
to muscles of ant. compartment

- 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

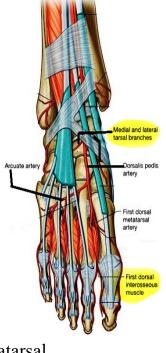


Dorsalis pedis ARTERY

- O:-midway() 2 malleoli
- -as continuation of ant. tibial art
- C: -run forward on dorsum of foot in
- line with 1st interdigital cleft
 downward () 2 heads of 1st dorsal
- interosseous to enter sole
- **E.** : in sole
- anastomose with plantar arch

brs:

- 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 <u>br</u> of popliteal art -at lower border of popliteus.
 - -It supplies post.
 - &lateral compartments of leg
- C: descends in posterior compartment of the leg accompanied by posterior tibial nerve

in upper part of leg

it is deep lies between the muscles

in lower part of leg it is superficial

covered only by skin, fasciae

E: -deep to flexor retinaculum (behind medial malleolus)(pulsation felt)

-give medial & lateral plantar arteries

popliteus post. tibial n. post. tibial art. flexor retinaculum med. &

Posterior tibial ARTERY

branches:

1-circumflex fibular:-

share in anastomosis around knee

2-peroneal art.:

The largest & longest br that supply lateral compartment 3-terminal brs

medial & lateral plantar arteries

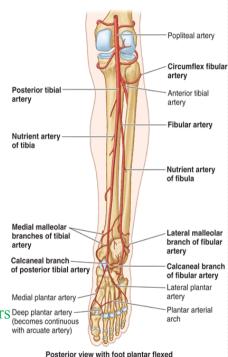
4-muscular brs:

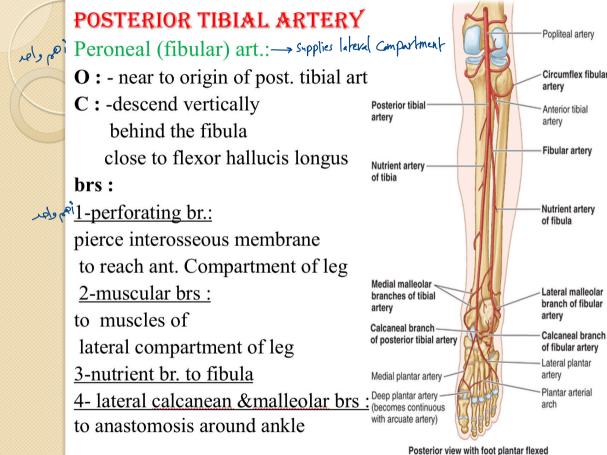
to muscles of post. compartment

5-nutrient br: to tibia - مهر

6-medial calcanian & malleolar brs Deep plantar artery

anastomosis around ankle





Medial plantar ARTERY

O: - small terminal br.
of post. tibial art.
-deep to flexor retinaculum

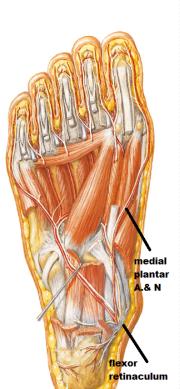
C & r: with medial plantar n.
on medial border of the foot

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. deep to abductor hallucis.

-then deep to flexor digitorum brevis to reach base of 5th metatarsal bone where it curve medially to form plantar arch

E.: -anastomose with the end of dorsalis pedis art.

brs:

- 1-cutaneous & muscular & articular branches
- 2-The plantar arch give: plantar digital arteries to toes.

