

Arteries

I. External iliac a.

A. Deep circumflex iliac a. (under trunk)

anastomoses – superficial circumflex iliac, musculophrenic, subcostal, iliolumbar, 4th lumbar & superior gluteal a.

B. Femoral a. (L. thigh)

1. Superficial epigastric a.

anastomoses – deep circumflex iliac, lateral circumflex femoral & superior gluteal a

2. Superficial circumflex iliac a.

anastomoses – deep circumflex iliac, lateral circumflex femoral & superior gluteal a.

3. Superficial external pudendal a.

anastomoses – branches of internal pudendal a.

4. Deep external pudendal a.

anastomoses – branches of internal pudendal a.

5. Descending genicular a. (L. geniculo, to bend, the knee)

anastomoses – medial superior genicular & medial inferior genicular a.

6. Profunda femoral a. (L. deep)

a. Lateral circumflex femoral a.

i. ascending branch

anastomoses – superior gluteal, deep circumflex iliac, ascending branch of medial circumflex femoral, iliolumbar, 1st perforating & inferior gluteal

ii. descending branch

anastomoses – lateral superior genicular

iii. transverse branches

anastomoses – transverse branch of medial circumflex femoral, inferior gluteal & 1st perforating a.

b. Medial circumflex femoral a.

i. ascending branch

anastomoses – superior gluteal, inferior gluteal, ascending branch of lateral circumflex femoral, & 1st perforating a.

ii. transverse branch

anastomoses – inferior gluteal, transverse branch of lateral circumflex femoral & 1st perforating a.

iii. acetabular branch

anastomoses – obturator

c. Perforating branches

i. 1st

anastomoses – 2nd perforating, inferior gluteal, ascending & transverse branches of medial circumflex femoral, & ascending & transverse branches of lateral circumflex femoral a.

ii. 2nd

anastomoses – 1st perforating & 3rd perforating

iii. 3rd

anastomoses – 2nd perforating & 4th perforating

iv. 4th

anastomoses – 3rd perforating & popliteal

C. Popliteal a. (L. the ham of the knee)

anastomoses – 4th perforating a.

1. Medial superior genicular a.

anastomoses – descending genicular, lateral superior genicular & medial inferior genicular a.

2. Lateral superior genicular a.

anastomoses – descending branch of lateral circumflex femoral, medial superior genicular & lateral inferior genicular a.

3. Medial sural a. (L. calf)

4. Lateral sural a.

5. Middle genicular a.

6. Medial inferior genicular a.

anastomoses – medial superior genicular, lateral inferior genicular, descending genicular, anterior

tibial recurrent & circumflex fibular a.

7. Lateral inferior genicular a.

anastomoses – lateral superior genicular, medial inferior genicular, posterior tibial recurrent, anterior tibial recurrent & circumflex fibular a.

8. Anterior tibial a. (L. large shinbone)

a. Anterior tibial recurrent a.

anastomoses – medial inferior genicular, lateral inferior genicular & circumflex fibular

b. Anterior medial malleolar a.

c. Anterior lateral malleolar a.

anastomoses – perforating branch of peroneal & lateral tarsal a.

d. Dorsalis pedis a. (L. pes, foot)

anastomoses – plantar arterial arch

i. Medial tarsal a.

ii. Lateral tarsal a.

anastomoses – perforating branch of peroneal & anterior lateral malleolar a.

iii. 1st dorsal metatarsal a.

iv. Arcuate a.

- Dorsal metatarsal a.

9. Posterior tibial a.

a. Peroneal a. (l. fibula)

i. Perforating branch

anastomoses – anterior lateral malleolar & lateral tarsal a.

b. Circumflex fibular

anastomoses – medial inferior genicular, lateral inferior genicular & anterior tibial recurrent a.

c. Nutrient artery of tibia

d. Medial plantar a.

e. Lateral plantar a.

i. Plantar arterial arch

anastomoses – dorsalis pedis a.

- plantar metatarsal & digital a.

II. Internal iliac a.

A. Superior gluteal a. (G. gloutos, buttocks)

anastomoses – inferior gluteal, lateral sacral, iliolumbar, superficial circumflex iliac, 1st perforating, deep circumflex iliac, ascending branch of lateral circumflex femoral & ascending branch of medial circumflex femoral a.

B. Inferior gluteal a.

anastomoses – 1st perforating, ascending & transverse branches of lateral circumflex femoral, ascending & transverse branches of medial circumflex femoral, obturator, & superior gluteal a.

C. Obturator a.

anastomoses – medial circumflex femoral (acetabular branch), inferior gluteal & iliolumbar a.

1. Artery of the head of the femur