

THIGH

Marc Revol (2010)

3 compartments

(one compartment, one nerve)

- Anterior (extensor) : *femoral nerve*
- Medial (adductor) : *obturator nerve*
- Posterior (flexor) : *sciatic nerve*

Anterior compartment

- Tensor fasciae latae
 - Sartorius
 - Rectus femoris
 - Vastus medialis
 - Vastus lateralis
 - Vastus intermedius
- } Quadriceps femoris

Adductor compartment

- Pectineus
- Gracilis
- Adductor longus
- Adductor brevis
- Adductor magnus

Posterior compartment

- Biceps femoris
 - Semitendinosus
 - Semimembranosus
- } The « hamstrings »

Vascular supply

- **Femoral artery and vein** distal to the femoral triangle : in the adductor canal
 - *Descending genicular artery* : arises from the femoral artery just proximal to the adductor opening, and immediately supplies a *saphenous branch*
- **Distal branches of profunda femoris** : 3 perforating branches + the profunda itself (4th perforator)
- **Long saphenous vein**

After occlusion of the femoral artery proximal to the origin of the profunda femoris artery, 5 anastomotic channels are available between:

- Branches of the superior and inferior gluteal arteries, the medial and lateral circumflex arteries, and the 1st perforating branch of the profunda femoris artery
- The obturator branch of the internal iliac artery and the medial circumflex femoral artery
- The internal pudendal branch of the internal iliac artery and the superficial and deep external pudendal branches of the femoral artery
- The lateral circumflex femoral branch of the profunda femoris artery and the superficial circumflex iliac branch of the femoral artery
- The inferior gluteal branch of the internal iliac artery and perforating branches of the profunda femoris artery.

Innervation

- **Femoral nerve (L2 L3 L4)**
 - Medial cutaneous nerve of the thigh
 - Intermediate cutaneous nerve of the thigh
 - Saphenous nerve
- Lateral cutaneous nerve of the thigh
- **Obturator nerve (L2 L3 L4)**
- **Sciatic nerve (L4 L5 S1 S2 S3)** (> tibial + common peroneal nerves)
- Posterior cutaneous nerve of the thigh

sources

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