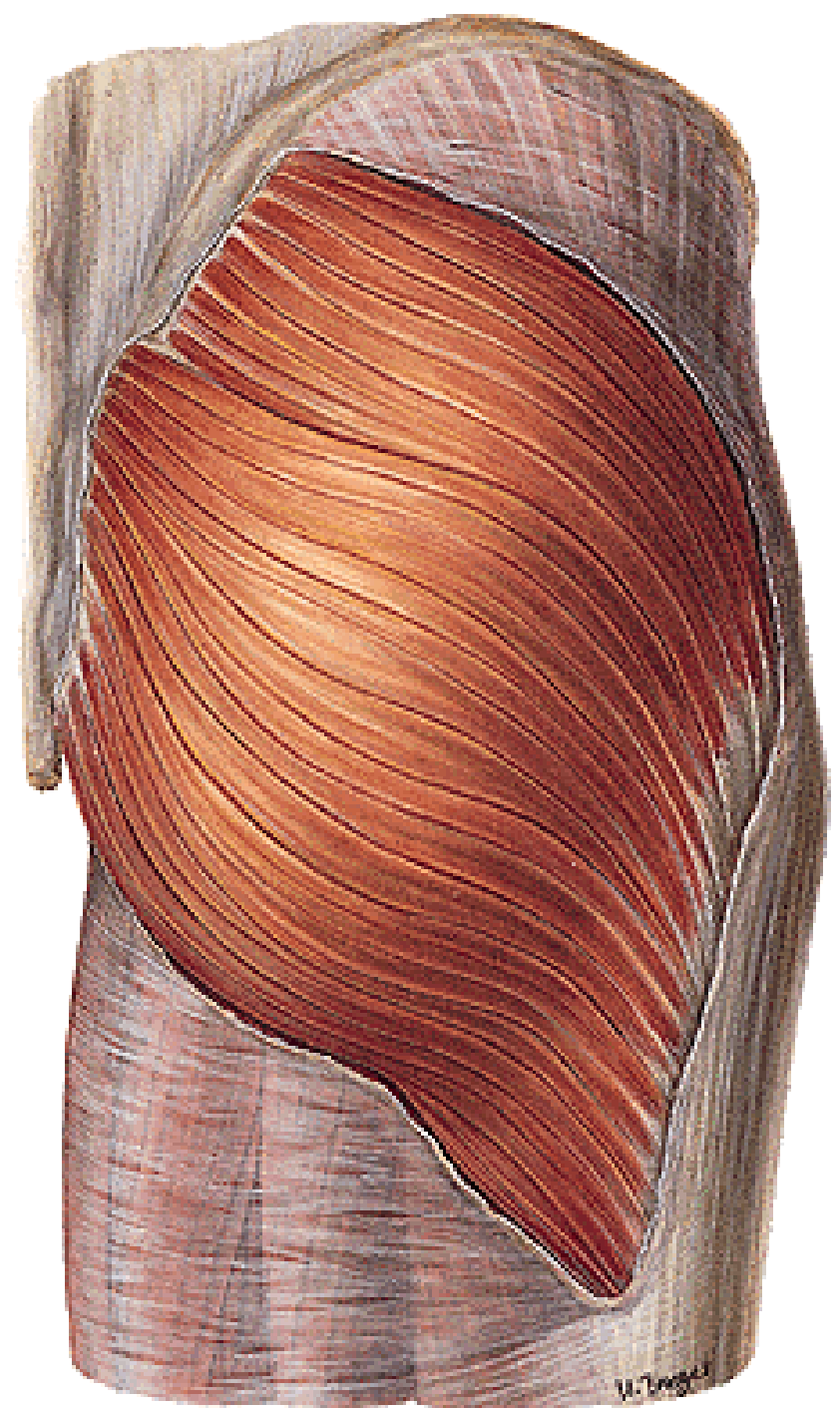


MUSCLES OF THE LOWER LIMB

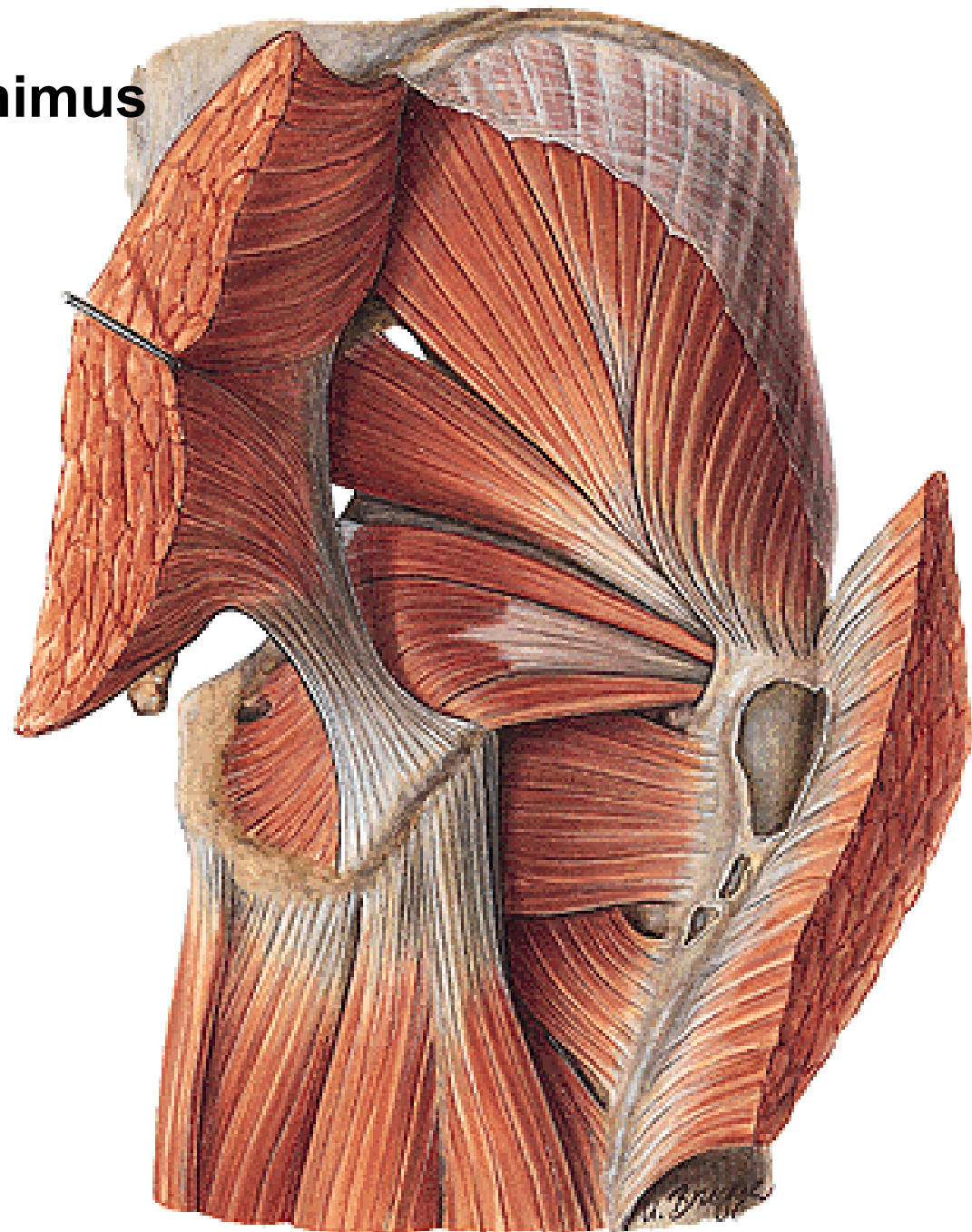
MUSCULI COXAE

Posterior group:

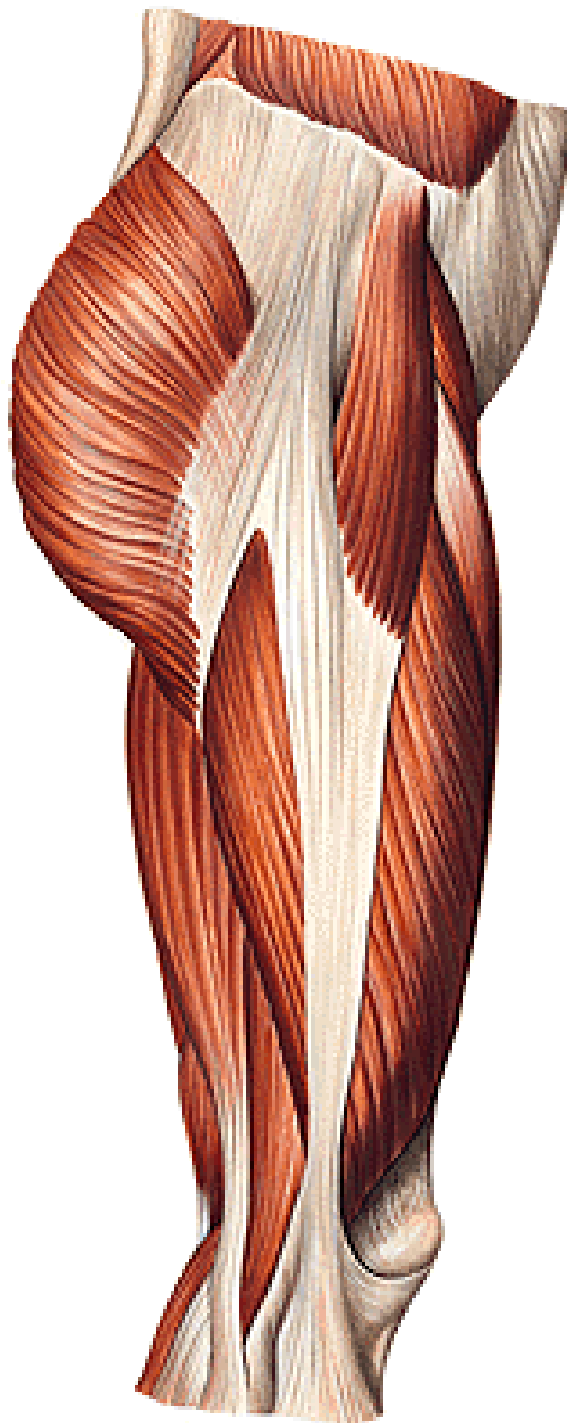
M. gluteus maximus



M. gluteus medius et minimus
M. piriformis →
Foramen suprapiriforme
Foramen infrapiriforme
M. obturatorius internus
M. gemellus superior et inferior
M. quadratus femoris



M. tensor fasciae latae
Tractus iliotibialis



MUSCULI COXAE

Anterior group:

M. psoas major
(M. psoas minor)

M. iliacus

→ M. iliopsoas

MUSCULI FEMORIS

Anterior group:

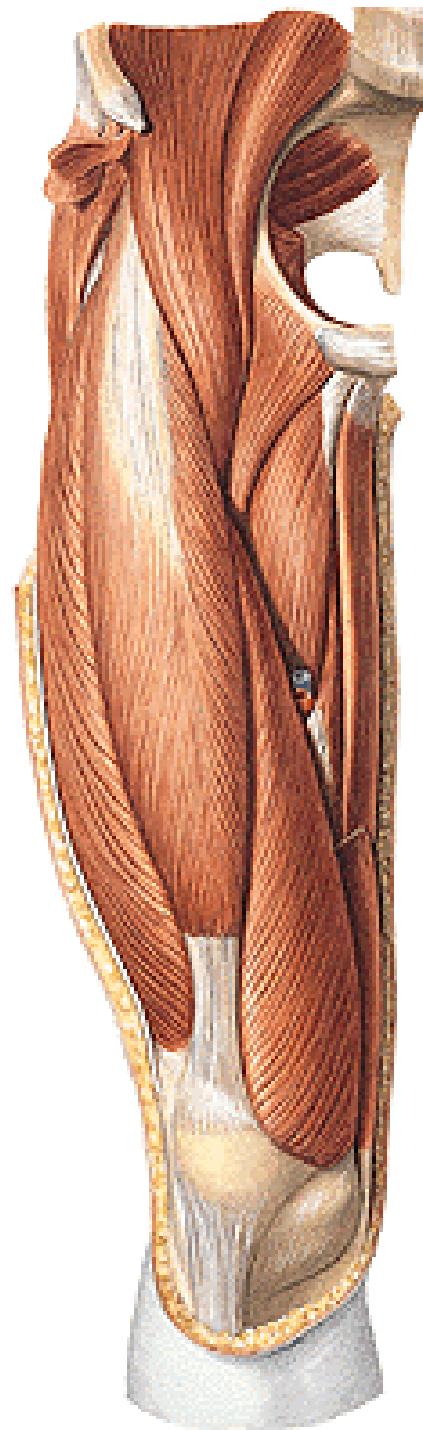
M. sartorius

M. quadriceps femoris:

m. rectus femoris

m. vastus med., lat.,

intermedius

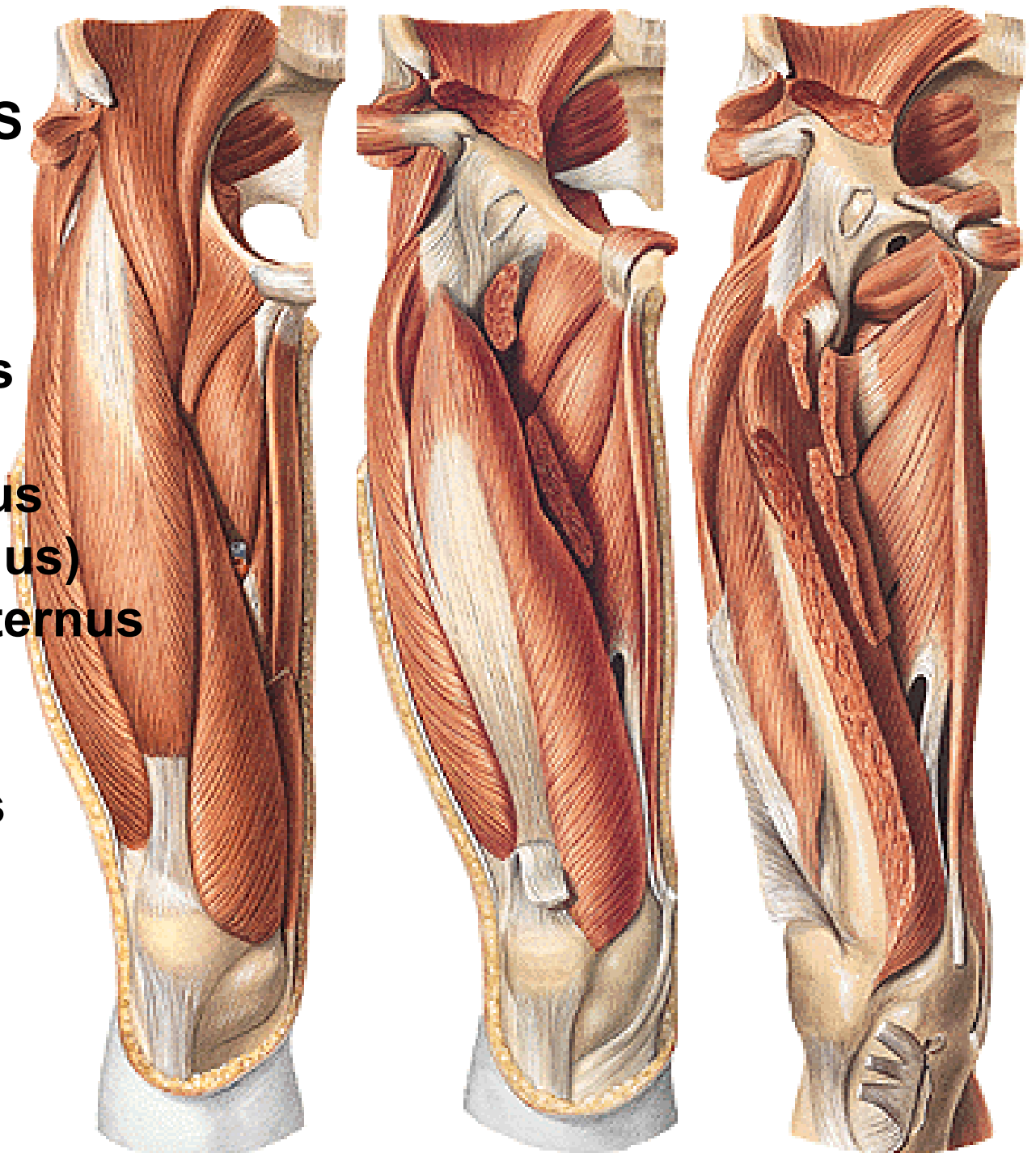


MUSCULI FEMORIS

Medial group:

- M. pectineus
- M. adductor longus
- M. adductor brevis
- M. adductor magnus
(m.adductor minimus)
- M. obturatorius externus
- M. gracilis

Hiatus adductorius

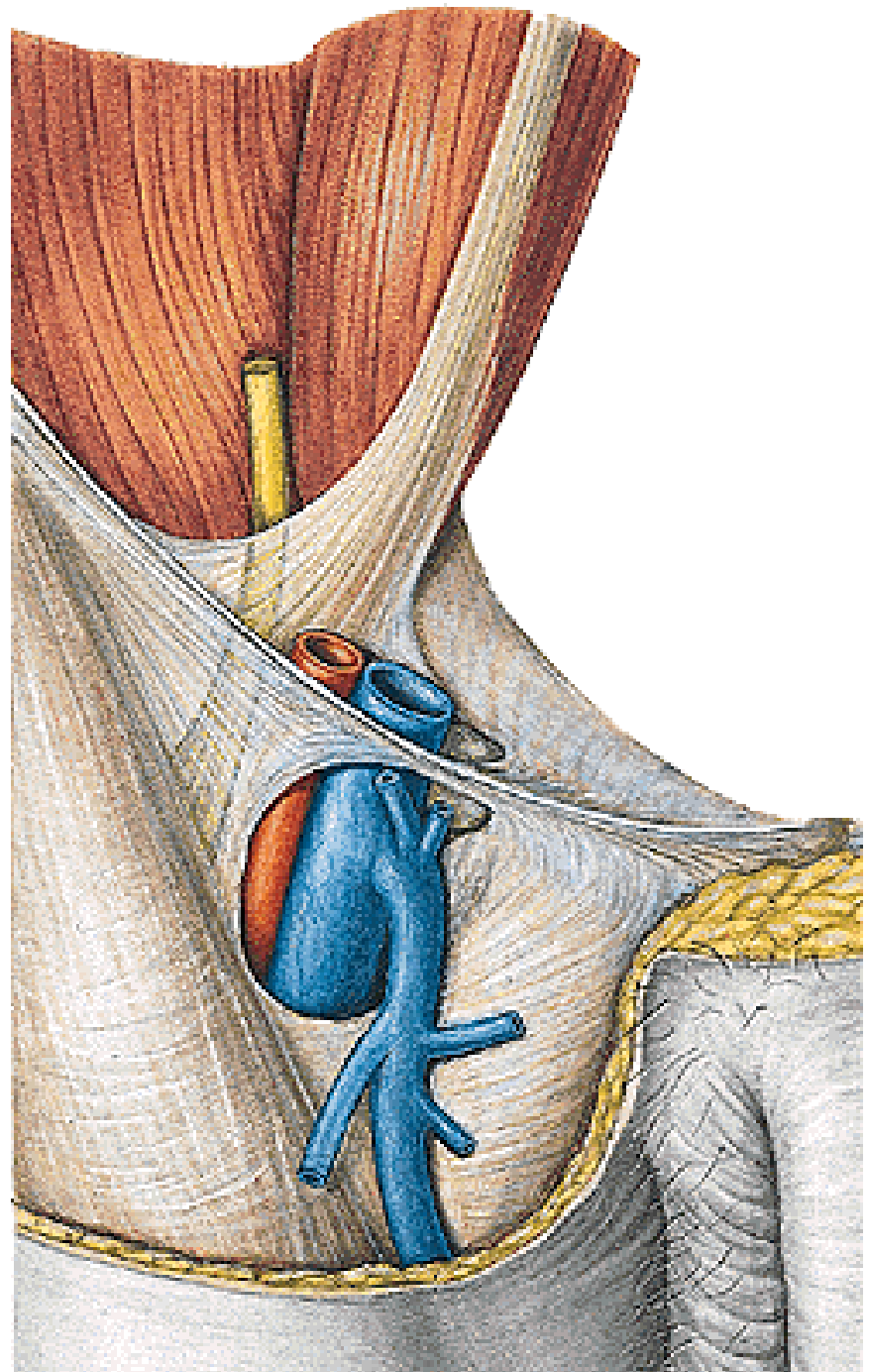


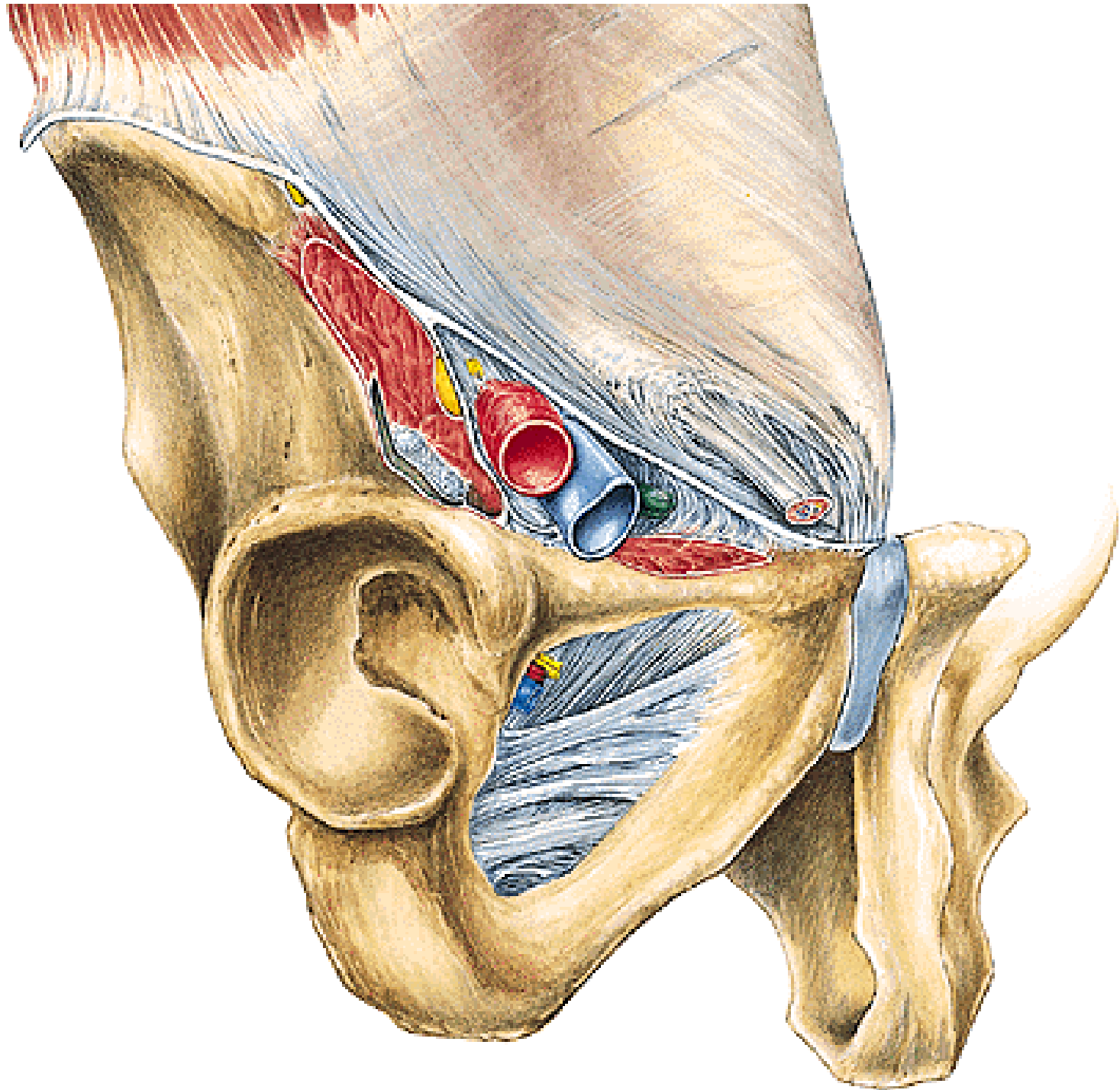
Lacuna musculorum
Lacuna vasorum

Arcus iliopectineus

Lig. inguinale
Lig. lacunare

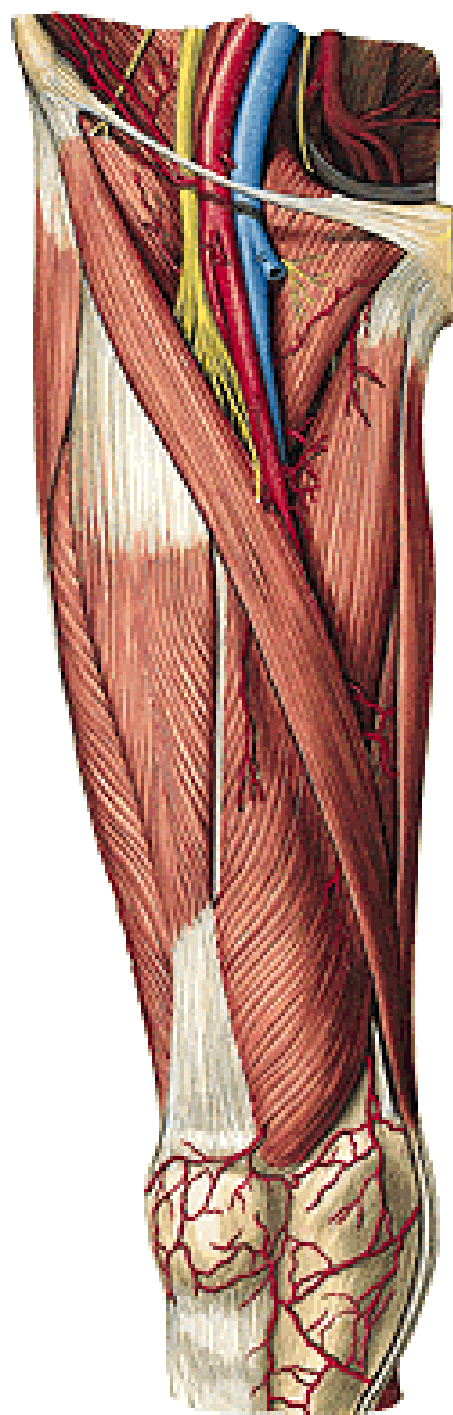
Canalis femoralis



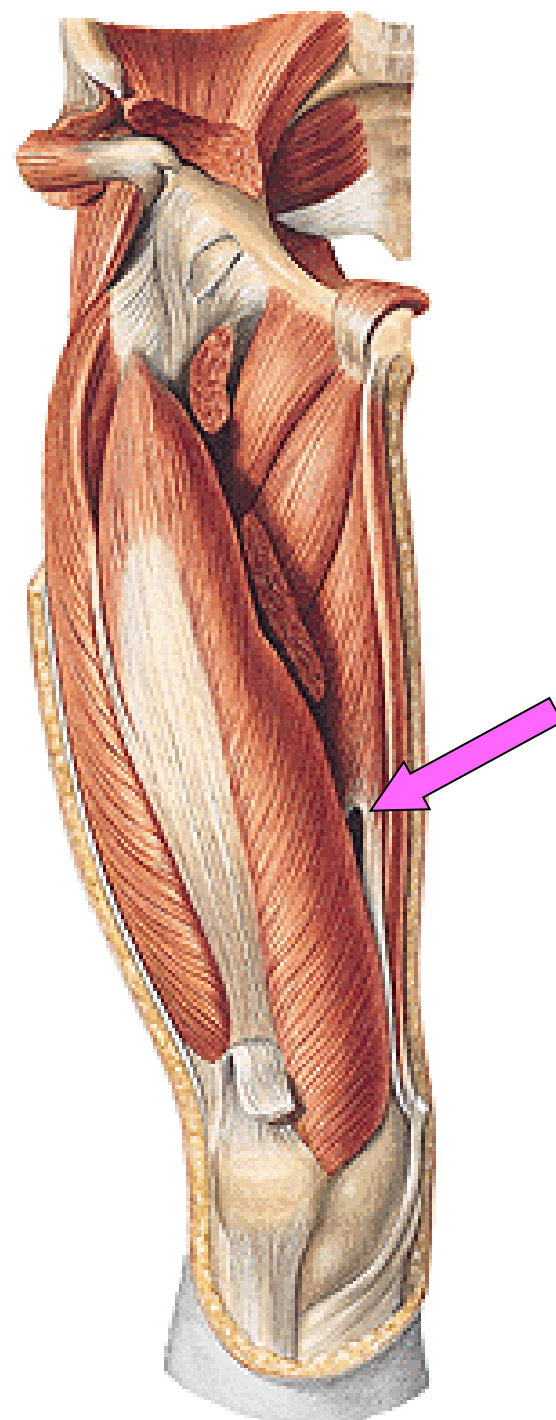
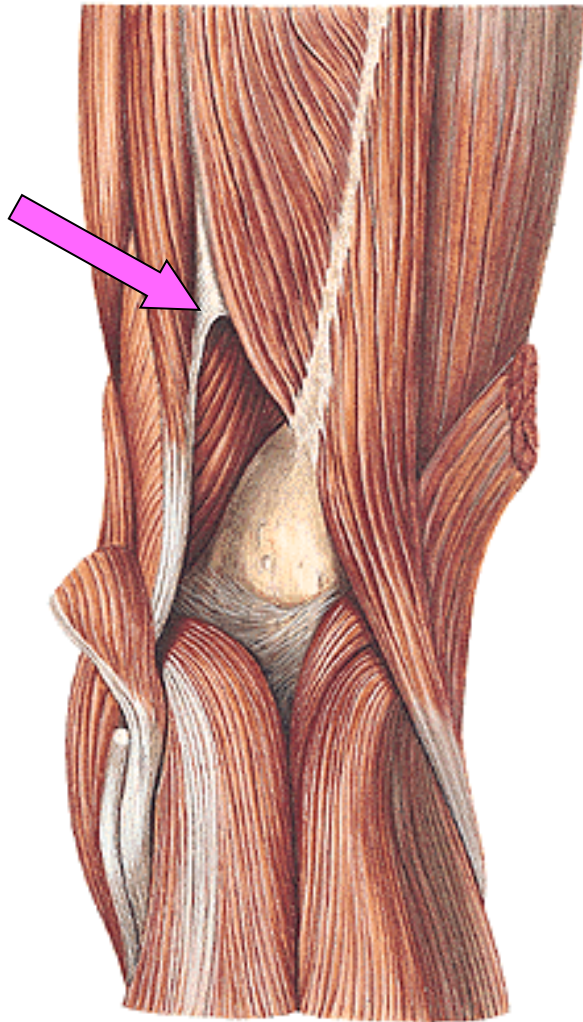


Trigonum femorale

Fossa iliopectinea



Hiatus tendineus/adductorius (Hunter)



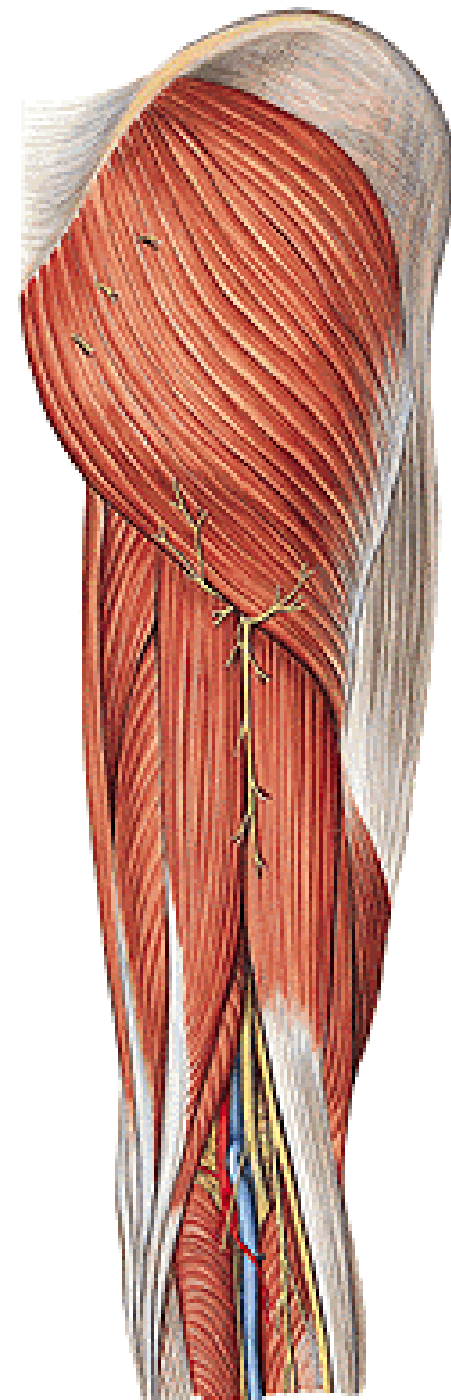
MUSCULI FEMORIS

Posterior group:

M. biceps

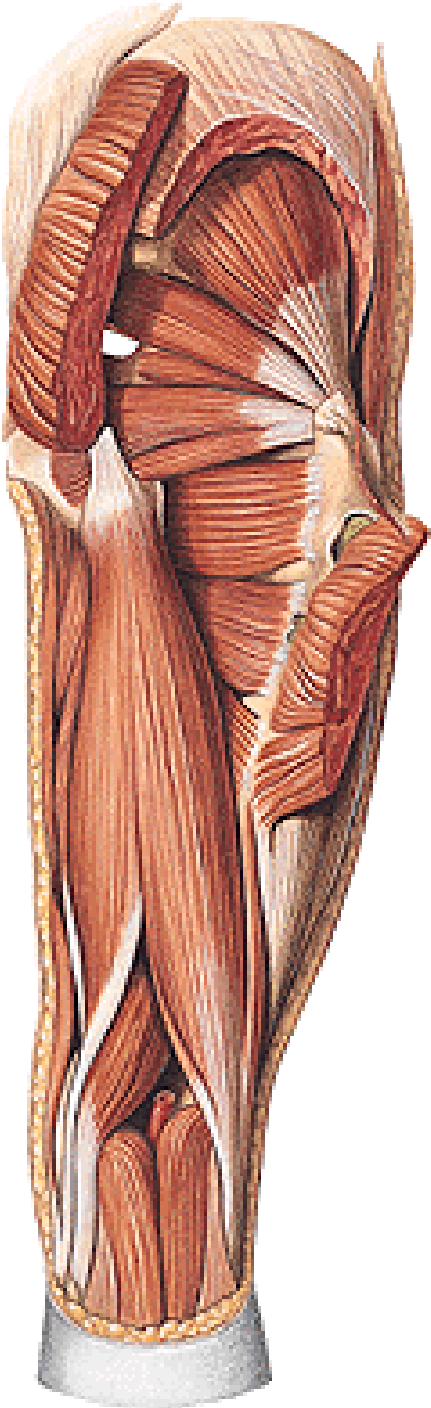
M. semitendinosus

M. semimembranosus
(hamstrings)

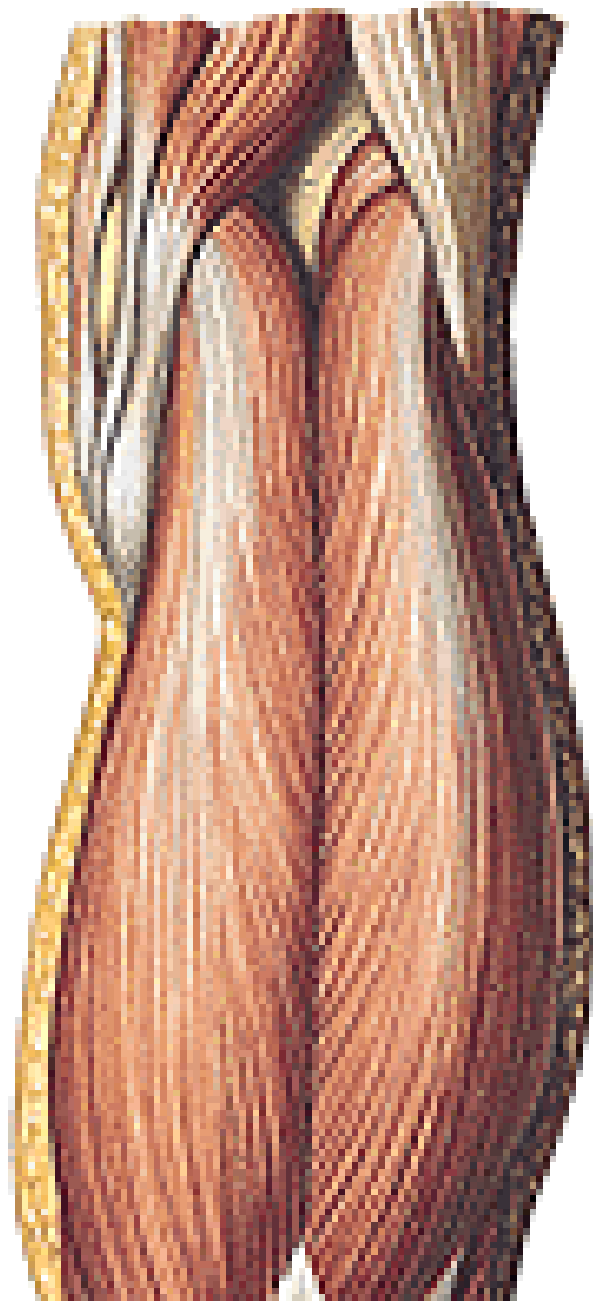


Hamstrings

Pes anserinus



Fossa poplitea



MUSCULI CRURIS

Anterior group:

M. tibialis ant.

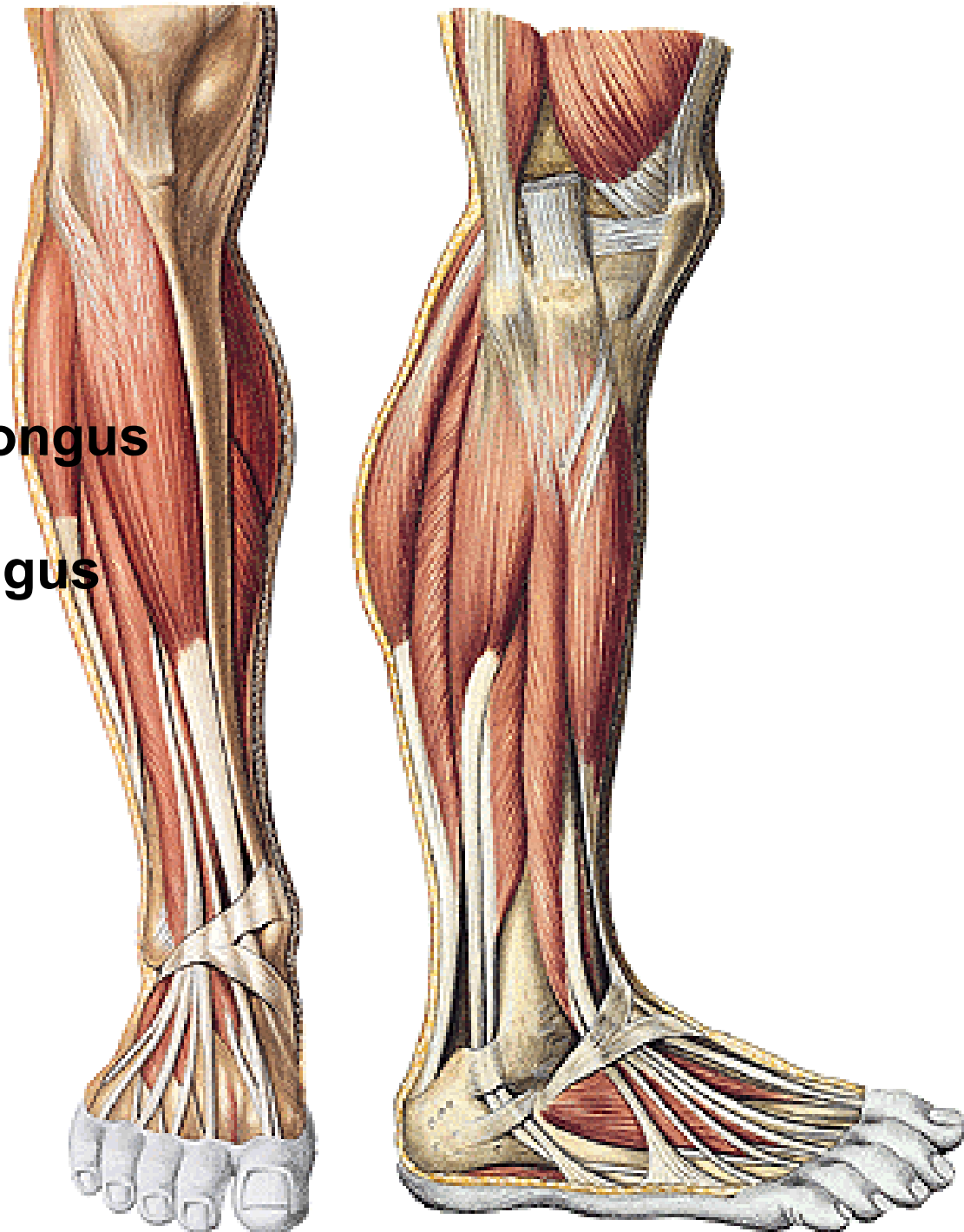
**M. extensor digitorum longus
(m. fibularis tertius)**

M. extensor hallucis longus

Lateral group:

M. fibularis longus

M. fibularis brevis



MUSCULI CRURIS

Posterior group:

M. triceps surae

- m. gastrocnemius
 - caput lat.
 - caput med.
- m. soleus

Arcus tendineus m. solei

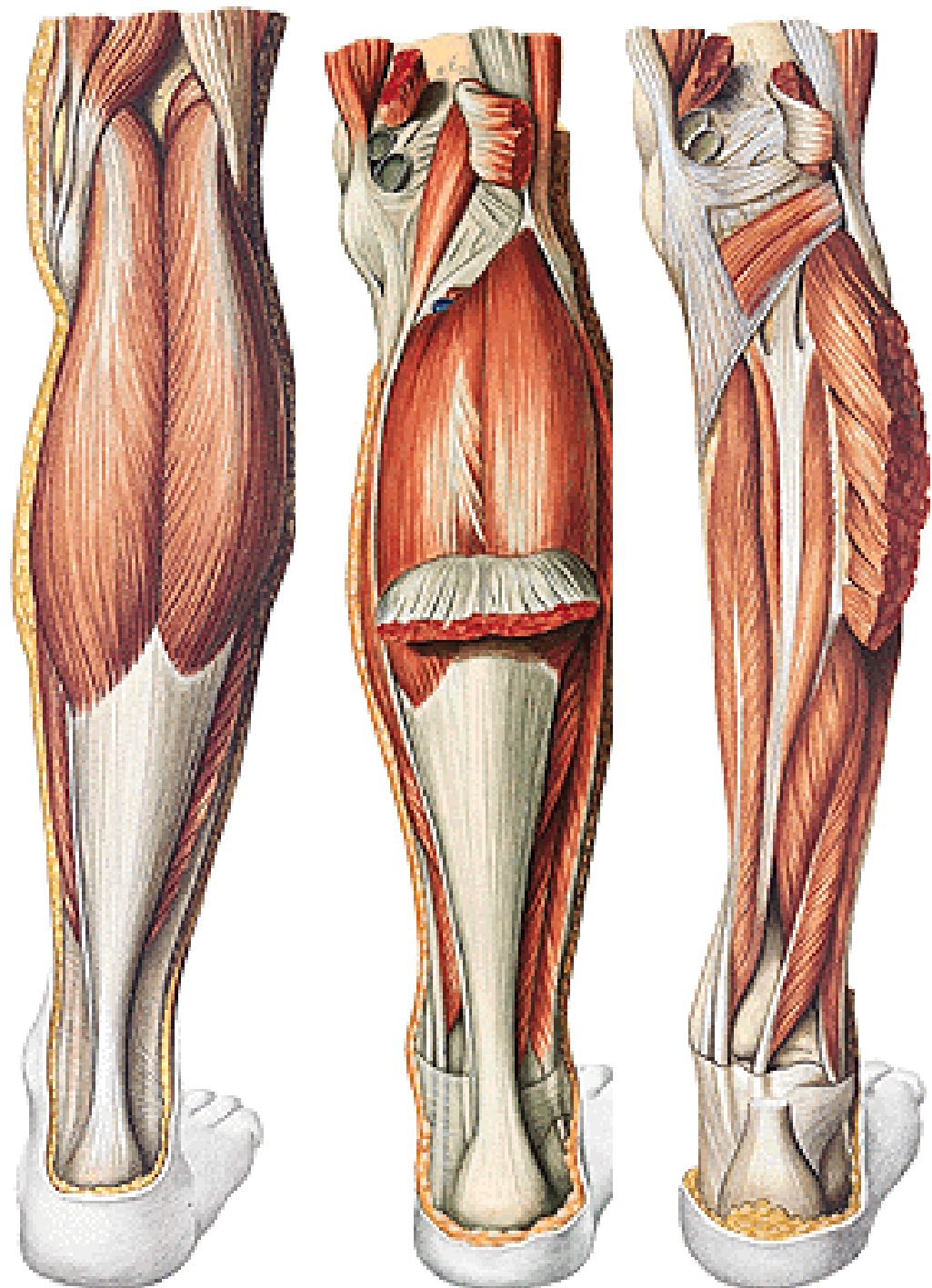
M. plantaris

M. popliteus

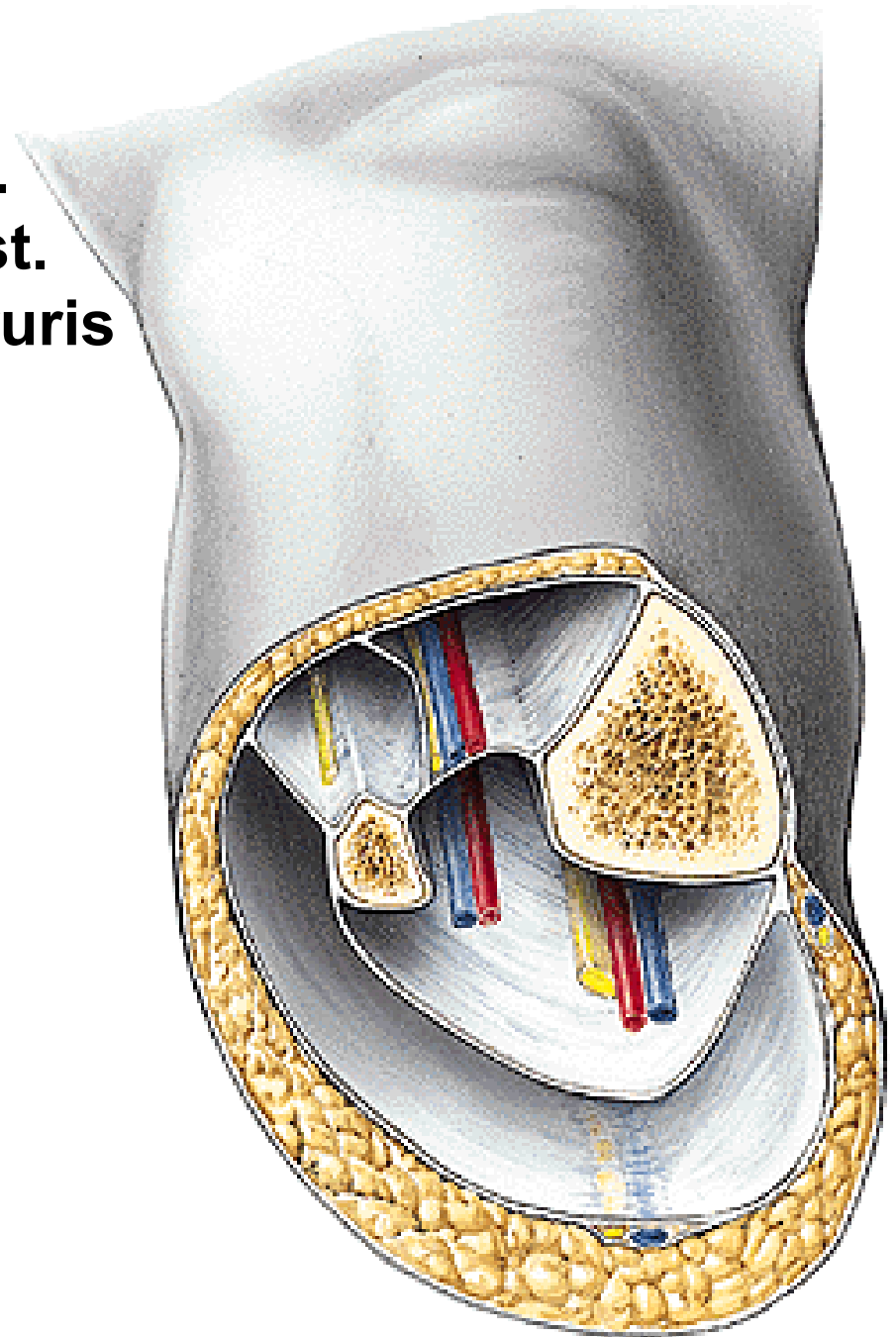
M. tibialis post.

M. flexor digitorum longus

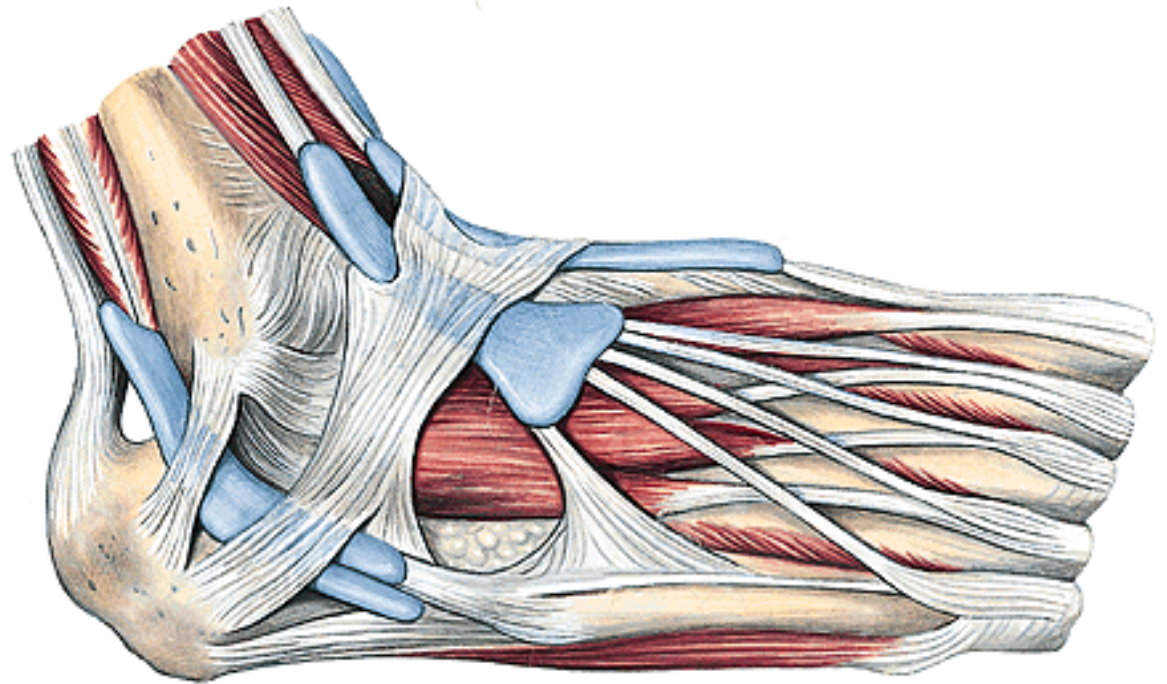
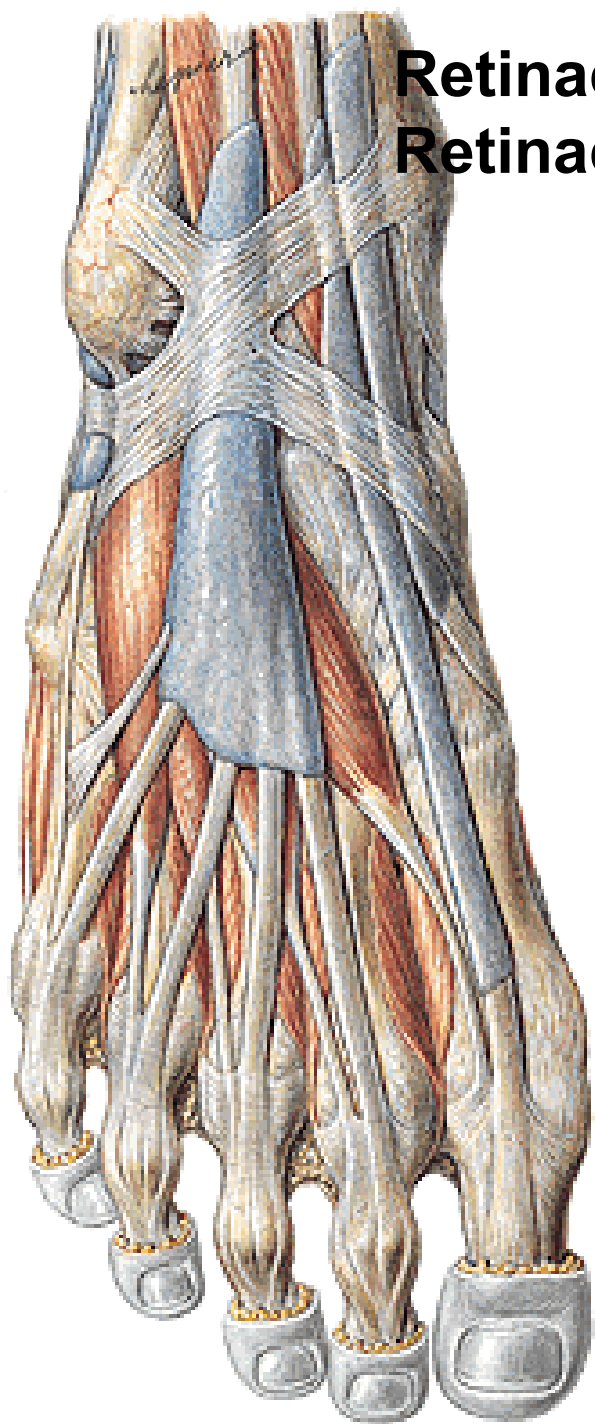
M. flexor hallucis longus



Fascia cruris
Septum intermusculare ant.
Septum intermusculare post.
Lamina profunda fasciae cruris



**Retinaculum musculorum extensorum sup. et inf.
Retinaculum musculorum fibularium sup. et inf.**



MUSCULI PEDIS

Dorsal group:

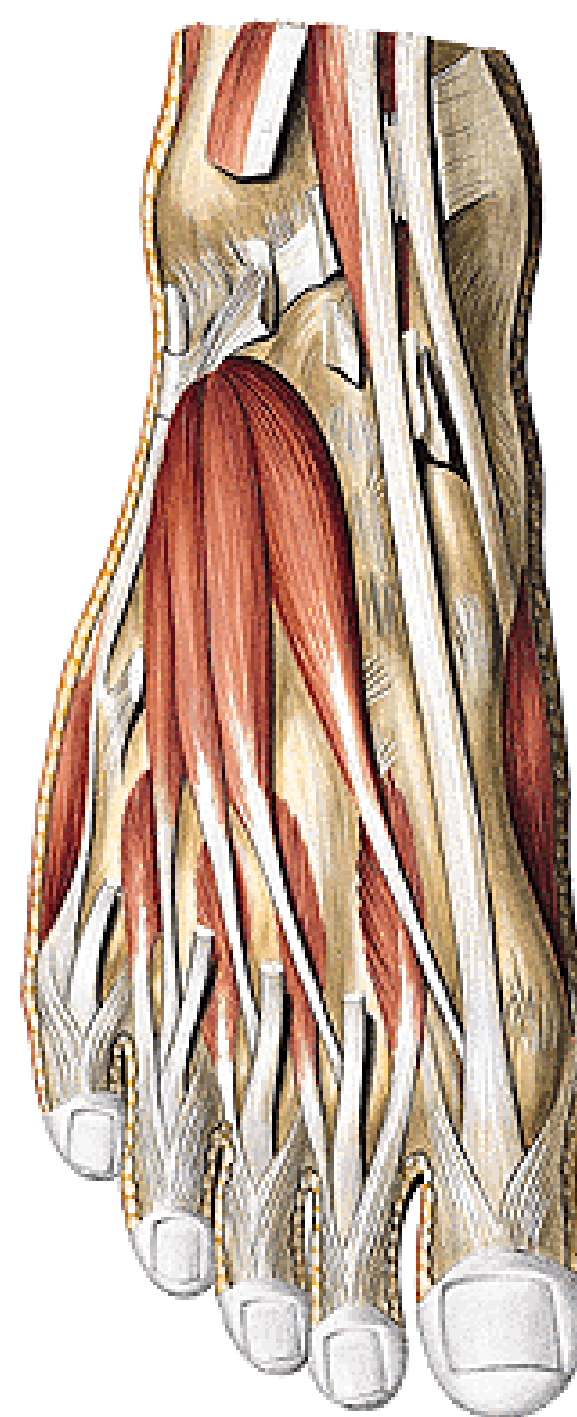
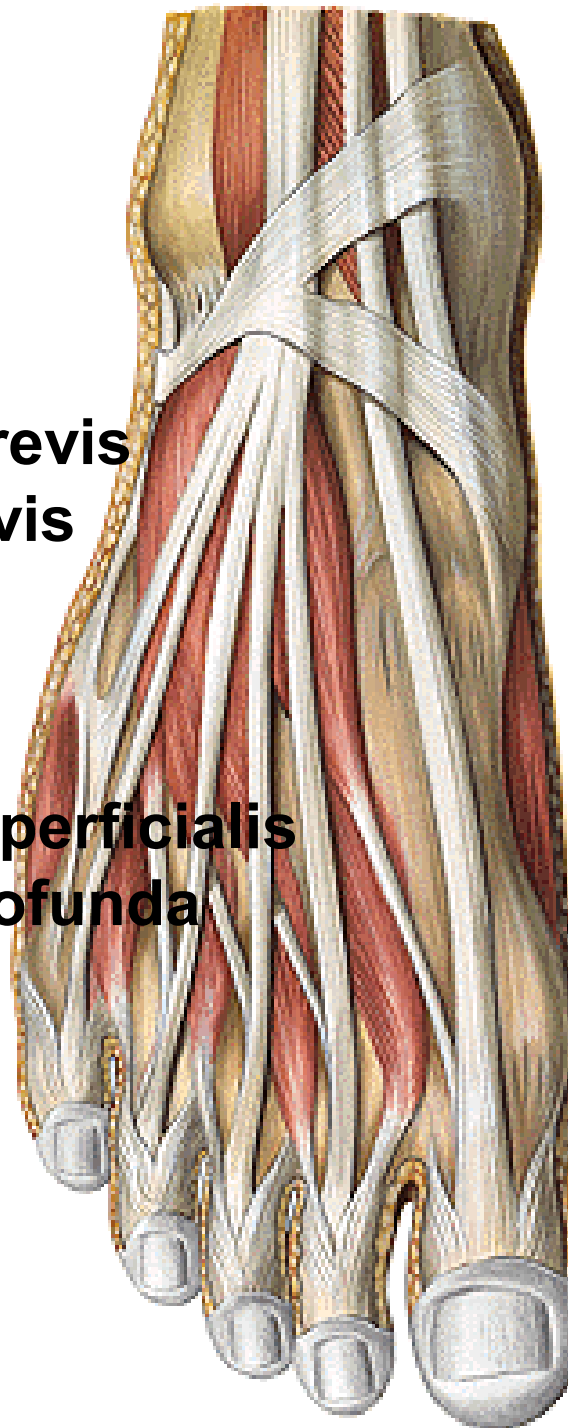
M. extensor digitorum brevis

M. extensor hallucis brevis

Mm. interossei dorsales

Fascia dorsalis pedis superficialis

Fascia dorsalis pedis profunda



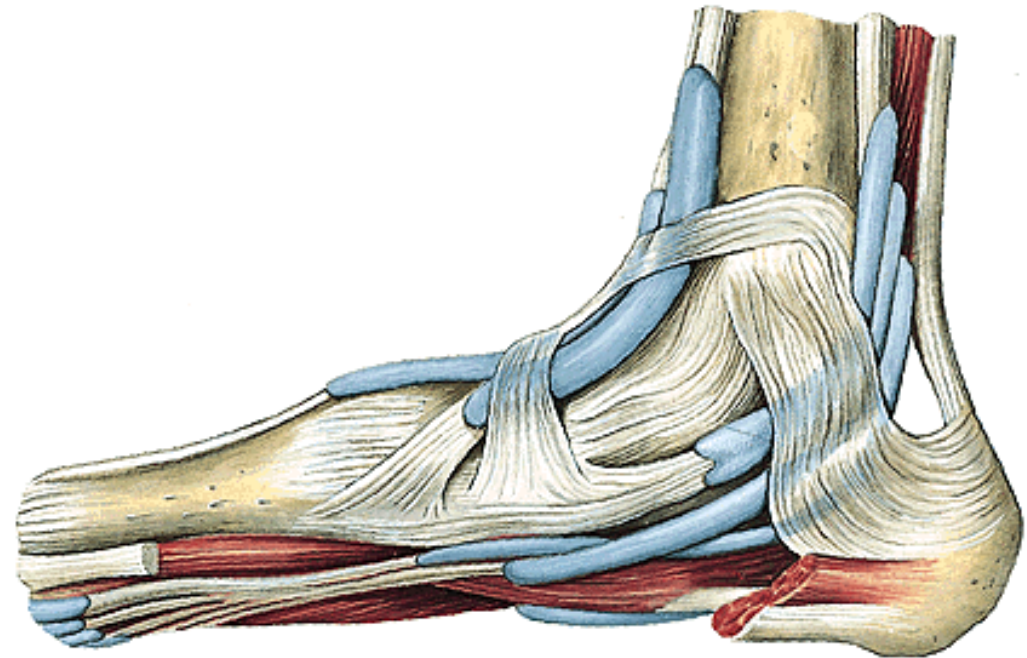
PLANTA PEDIS

Fascia plantaris superficialis

Aponeurosis plantaris

Fascia plantaris interossea

Retinaculum musculorum flexorum



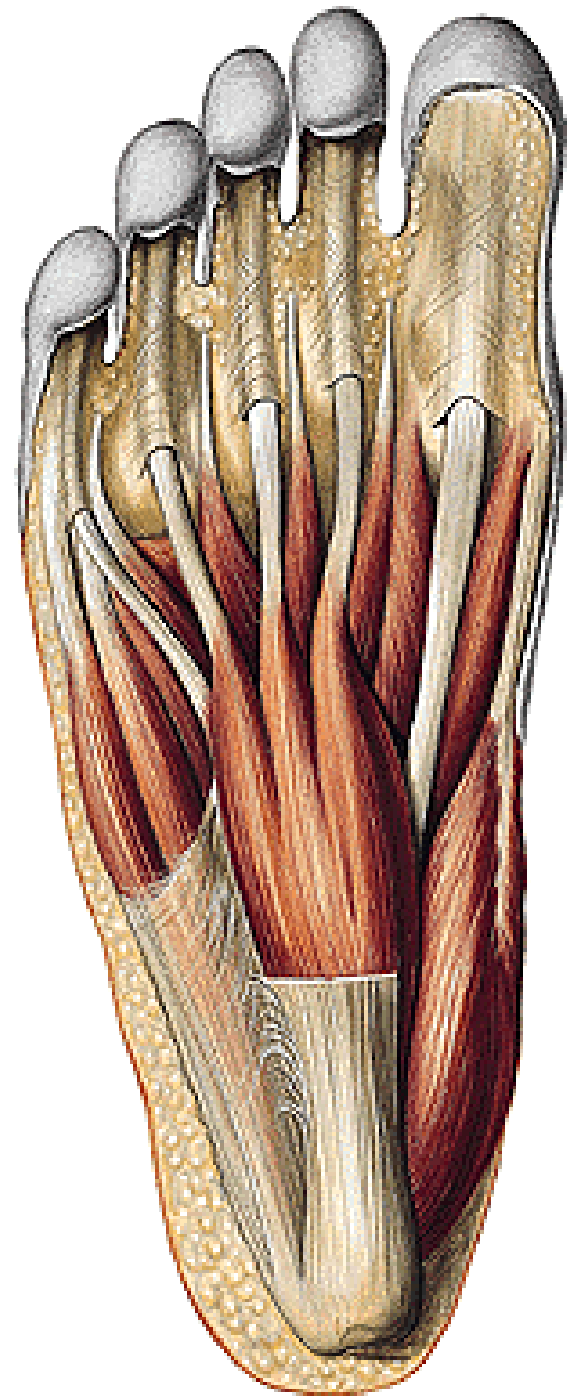
MUSCULI PEDIS

Plantar group:

M. abductor hallucis

M. flexor digitorum brevis

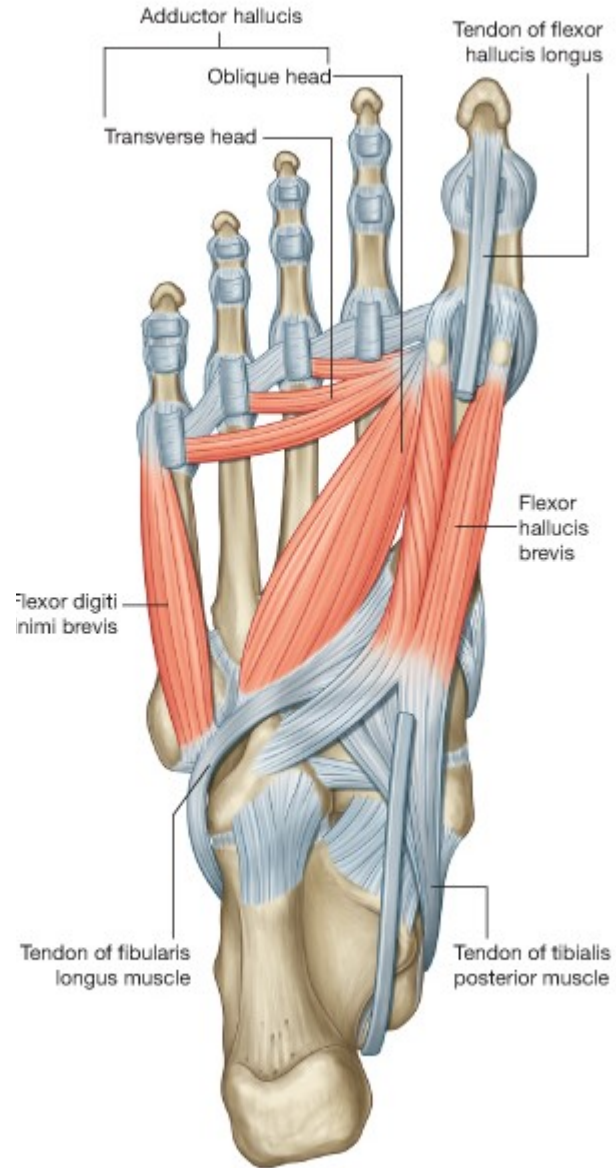
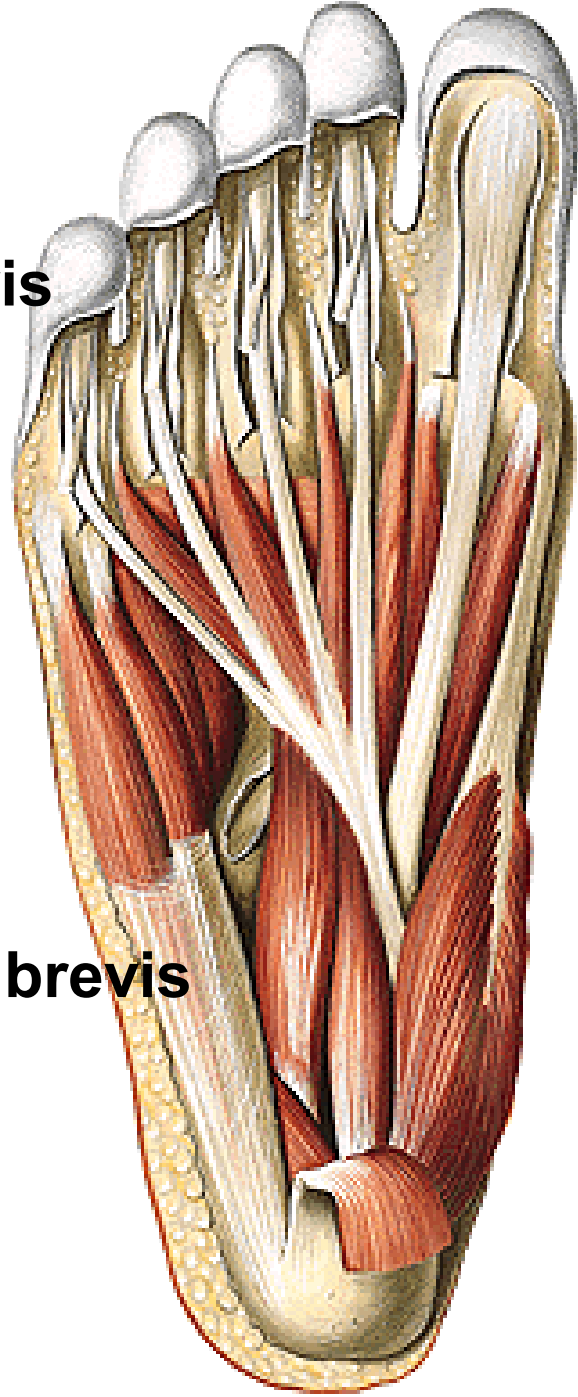
M. abductor digiti minimi



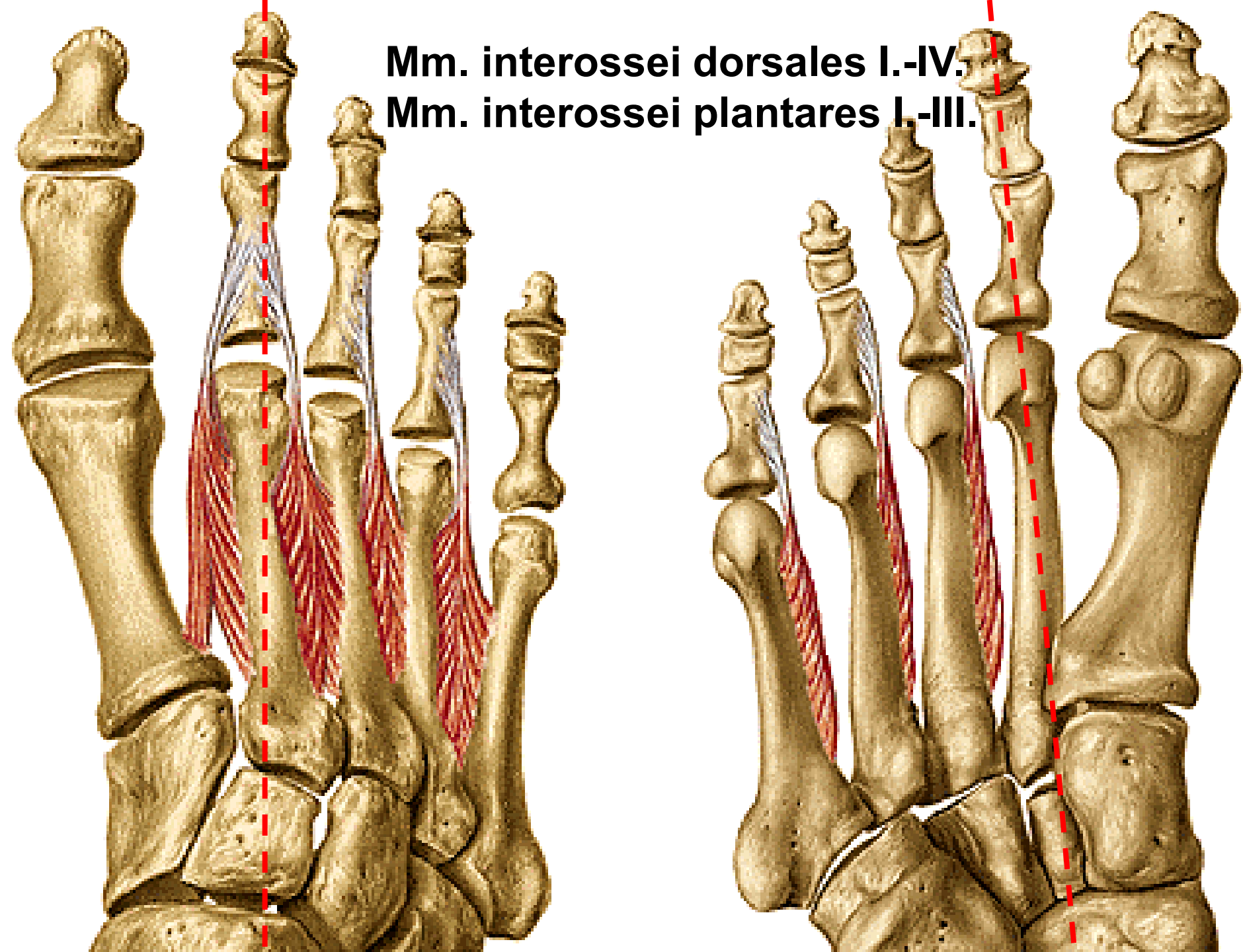
M. quadratus plantae
Mm. lumbricales I.-IV.

M. flexor hallucis brevis
M. adductor hallucis
- caput obliquum
- caput transversum

M. flexor digiti minimi brevis



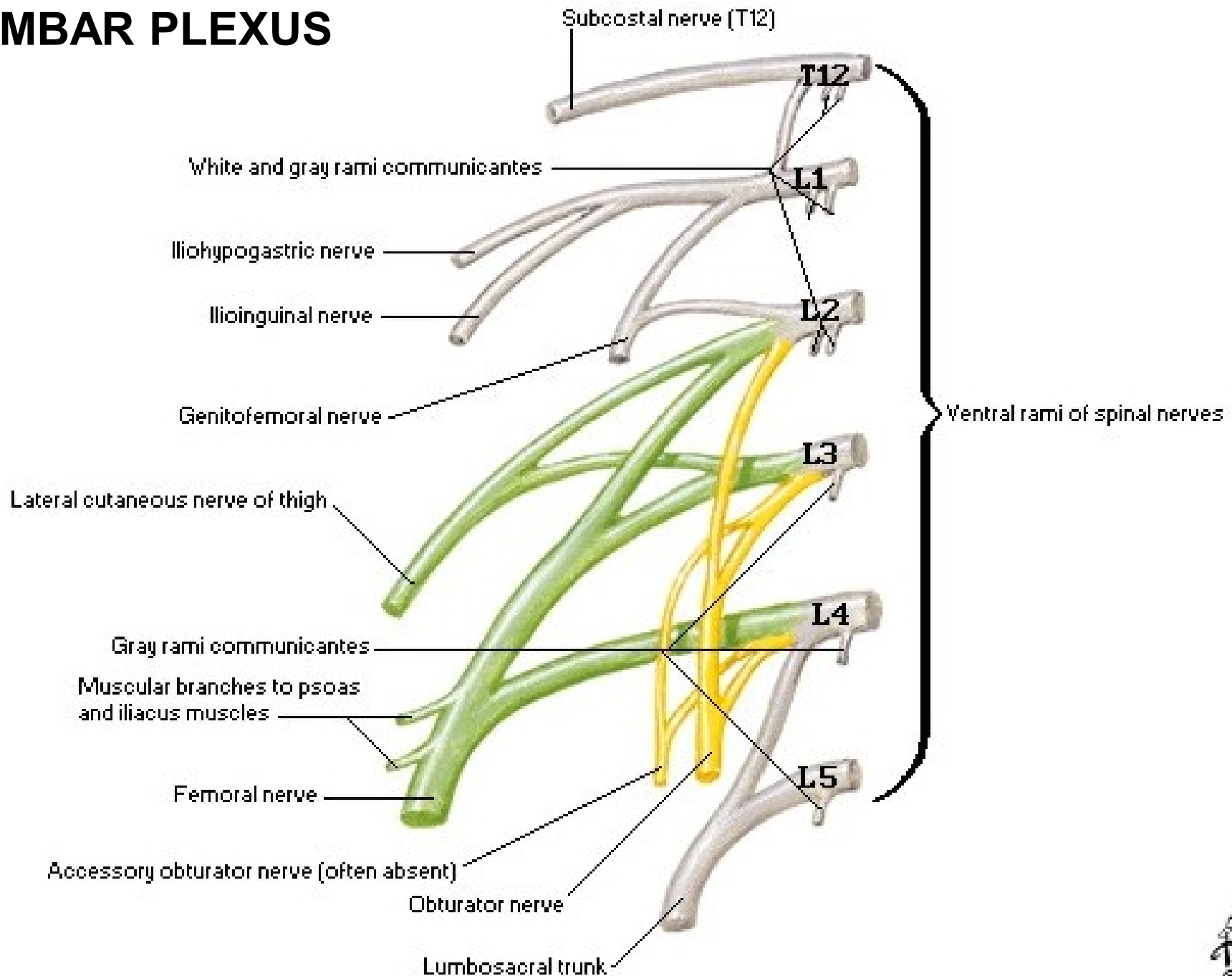
Mm. interossei dorsales I.-IV.
Mm. interossei plantares I.-III.



PLEXUS LUMBALIS

(L1 – L4)

LUMBAR PLEXUS



PLEXUS LUMBALIS

Rr. musculares

N. iliohypogastricus

N. ilioinguinalis

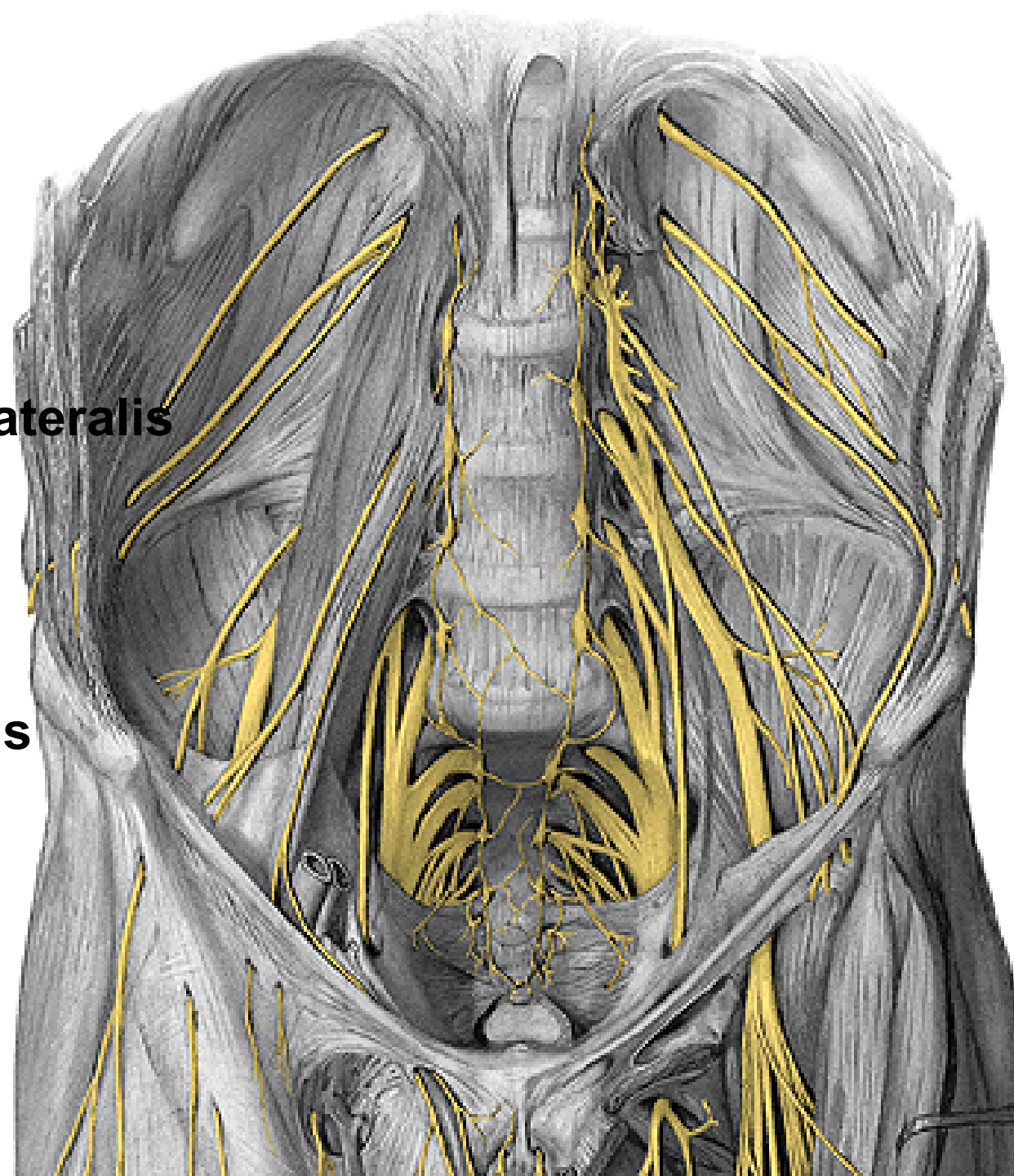
N. genitofemoralis

N. cutaneus femoris lateralis

N. femoralis

N. obturatorius

Truncus lumbosacralis

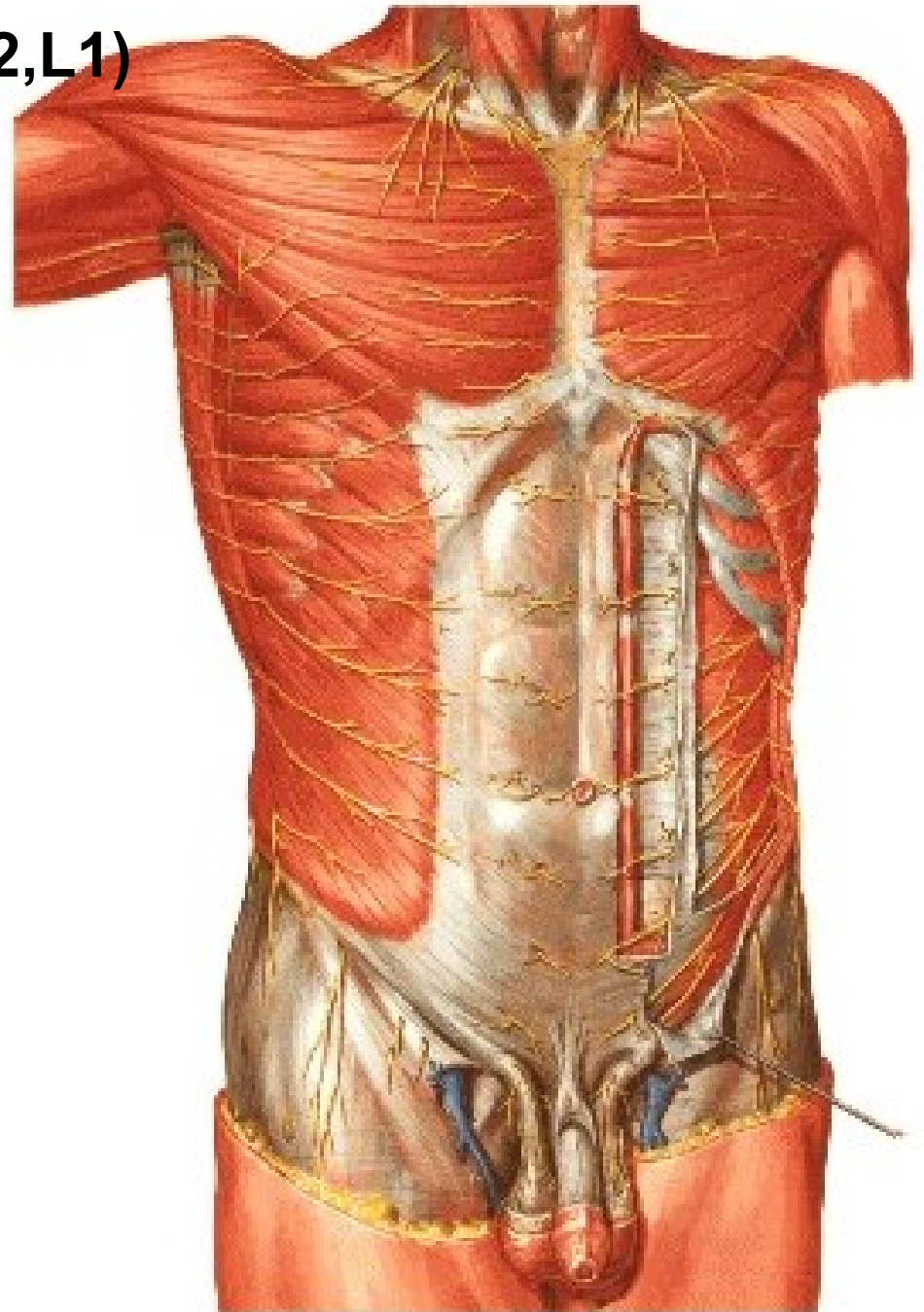


N. ILIOHYPOGASTRICUS (T12,L1)

- rr. musculares
- r. cutaneus lateralis
- r. cutaneus medialis

N. ILIOINGUINALIS (L1)

- rr. scrotales (labiales)



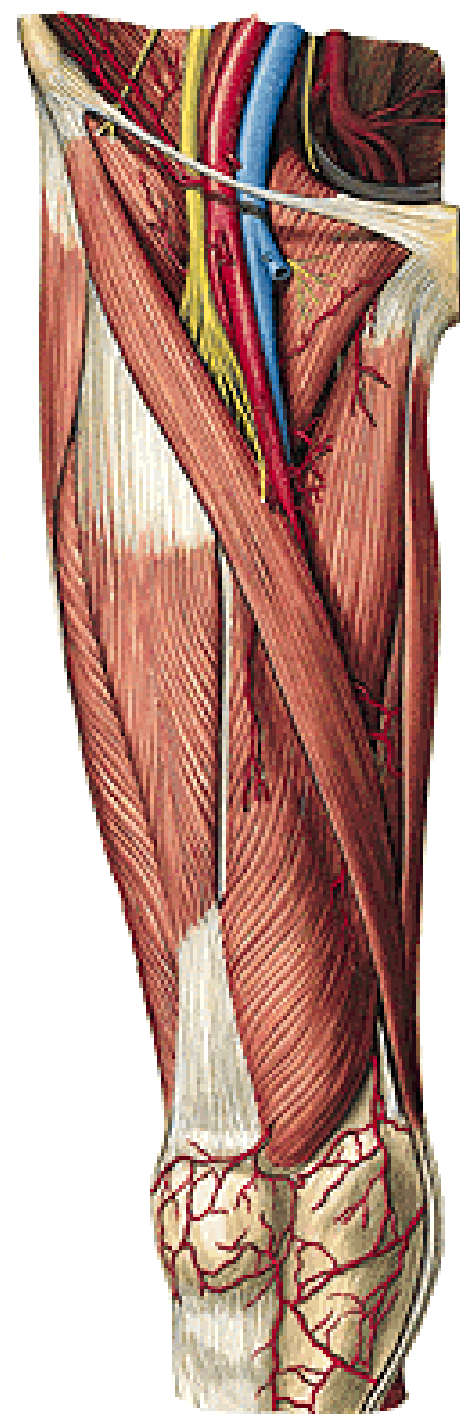
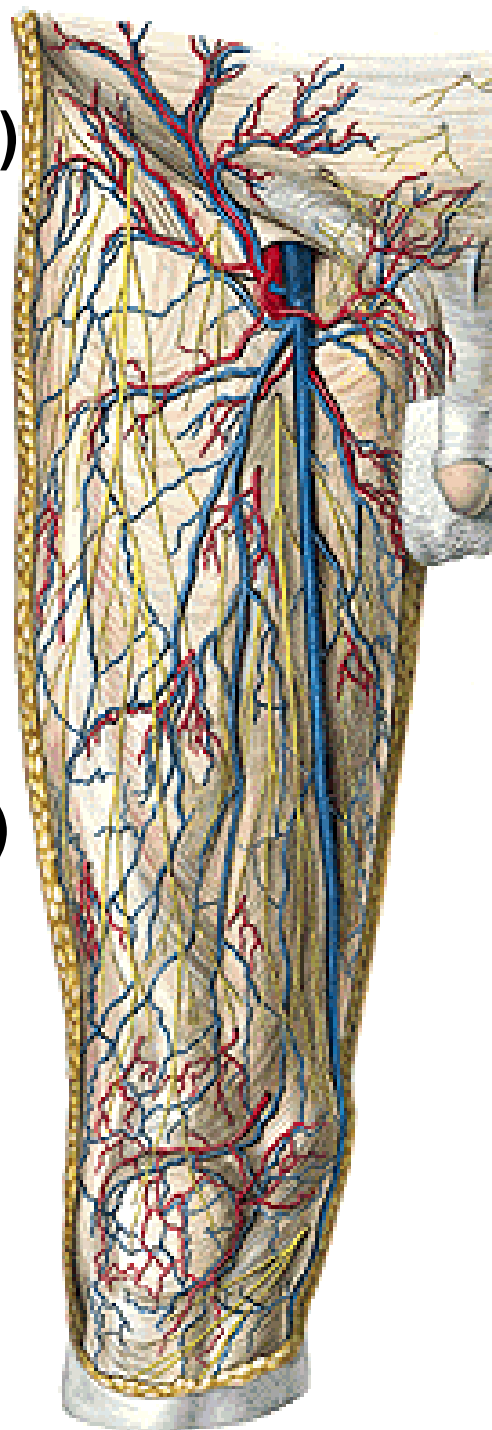
N. GENITOFEMORALIS (L1,L2)

- r. genitalis
- r. femoralis

N. CUTANEUS FEMORIS LATERALIS (L2,L3)

N. FEMORALIS

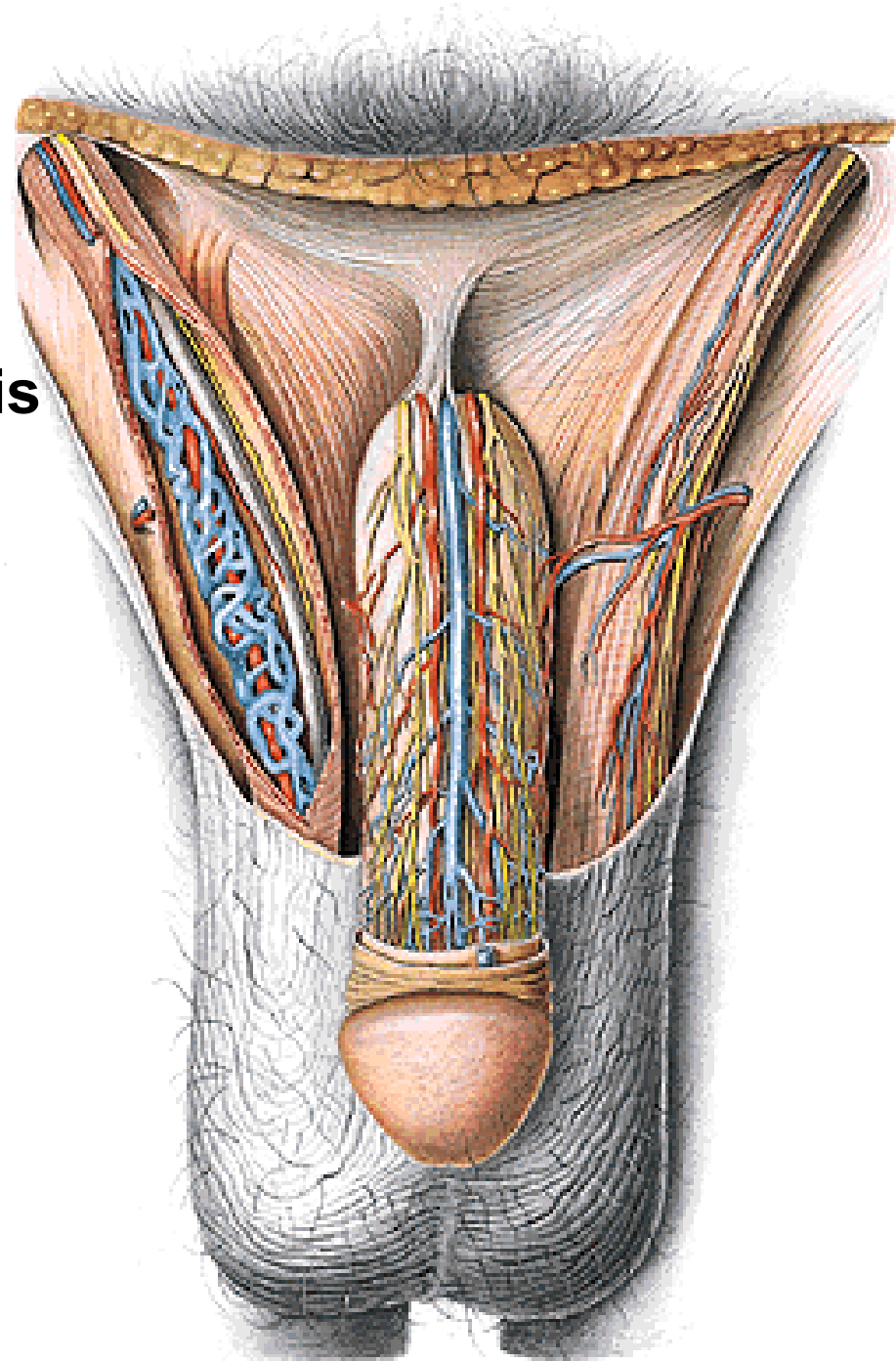
- rr. cutanei anteriores (L2-L4)



Canalis inguinalis

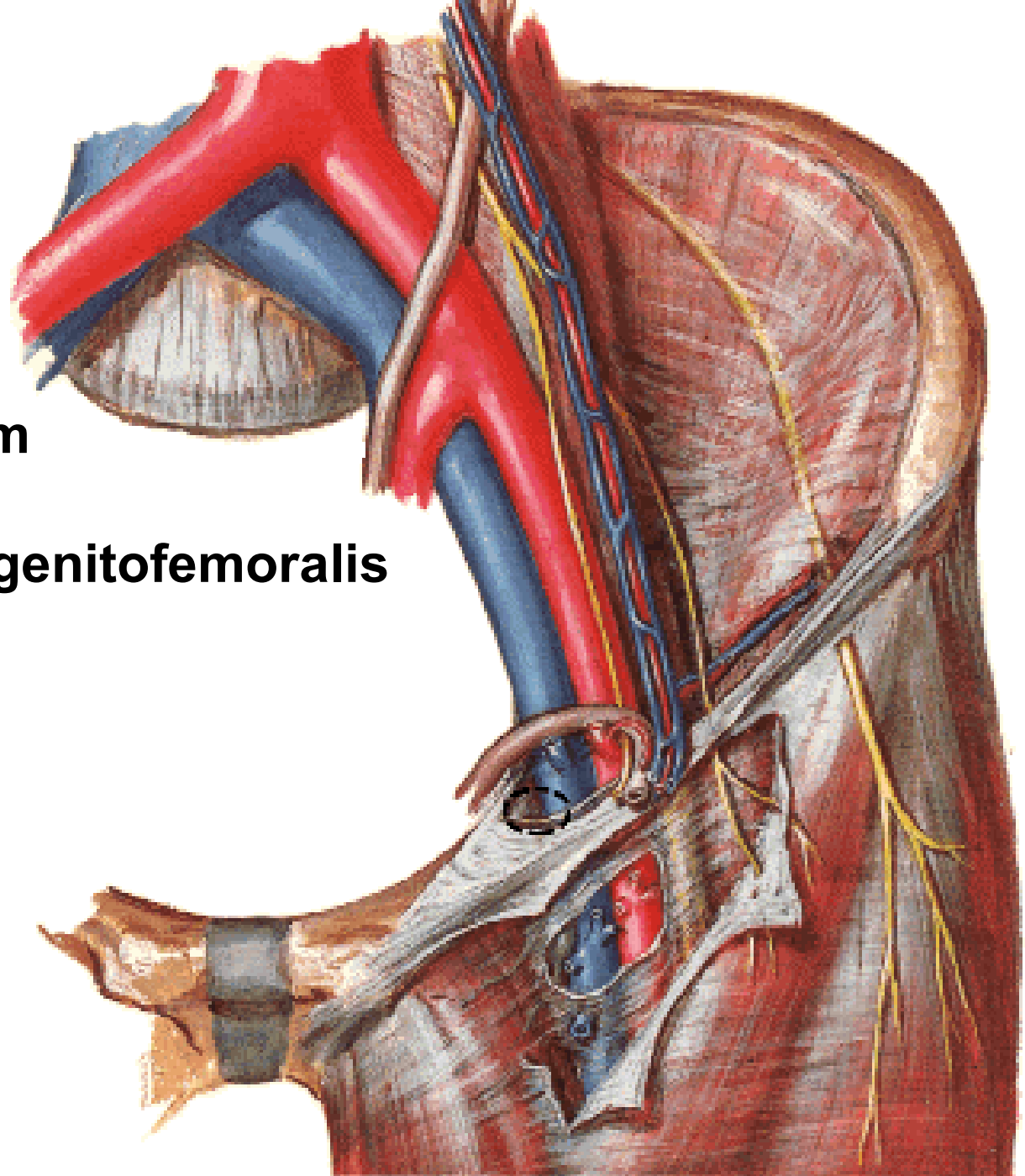
N. ilioinguinalis

R. genitalis n. genitofemoralis



Lacuna vasorum

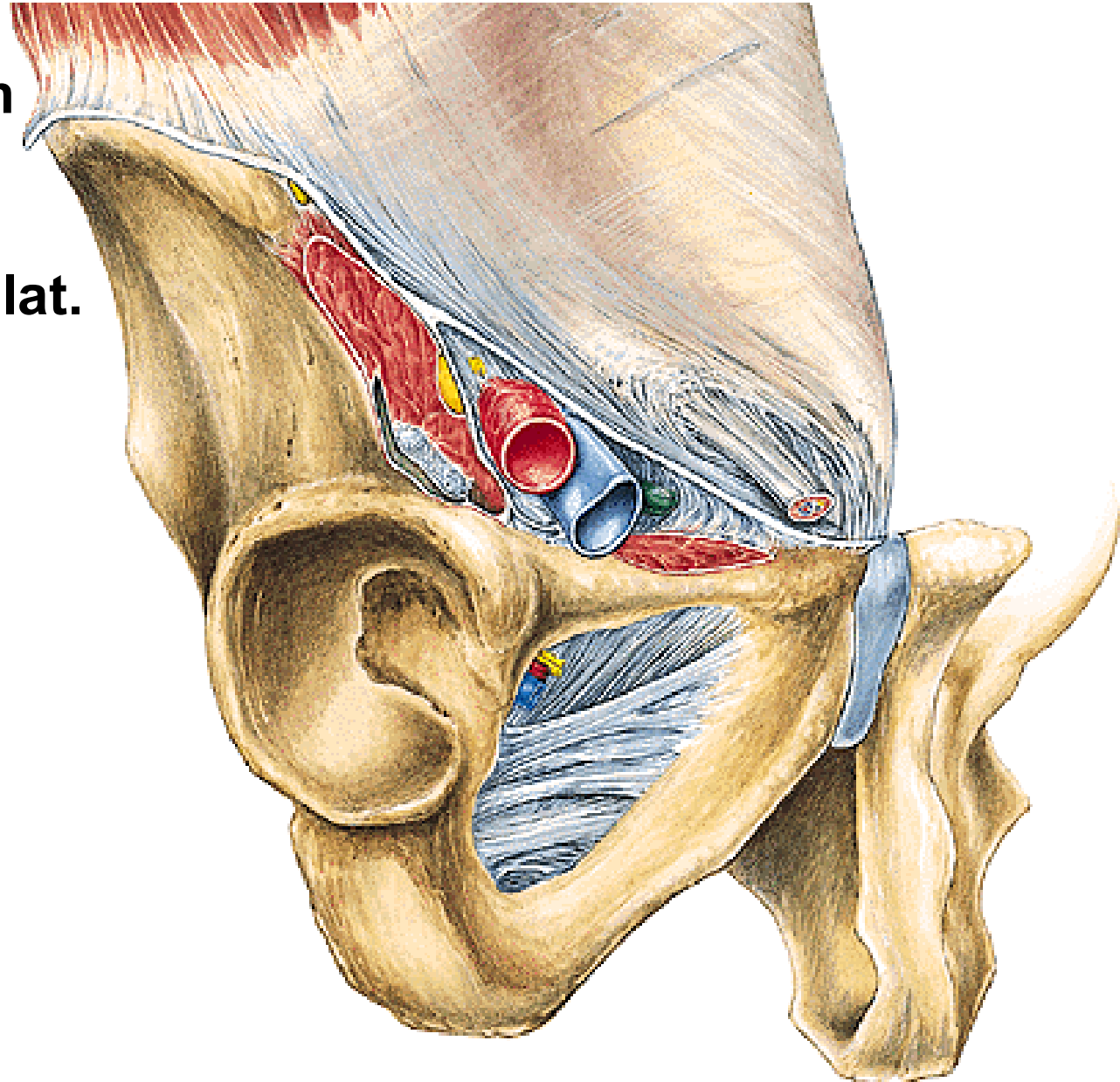
R. femoralis n. genitofemoralis



Lacuna musculorum

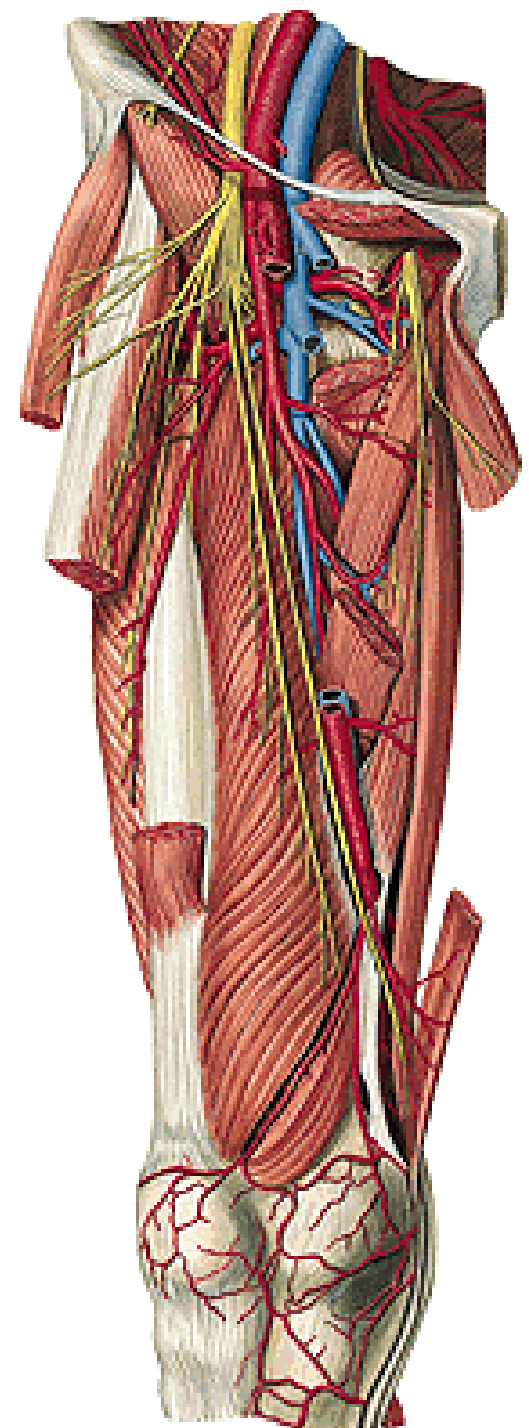
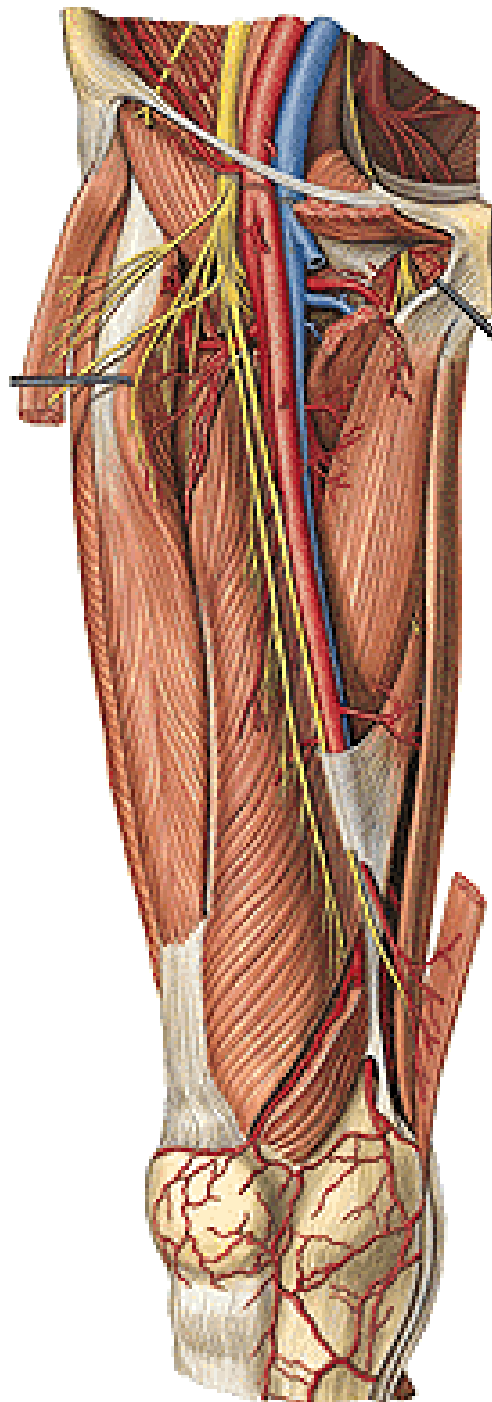
N. femoralis

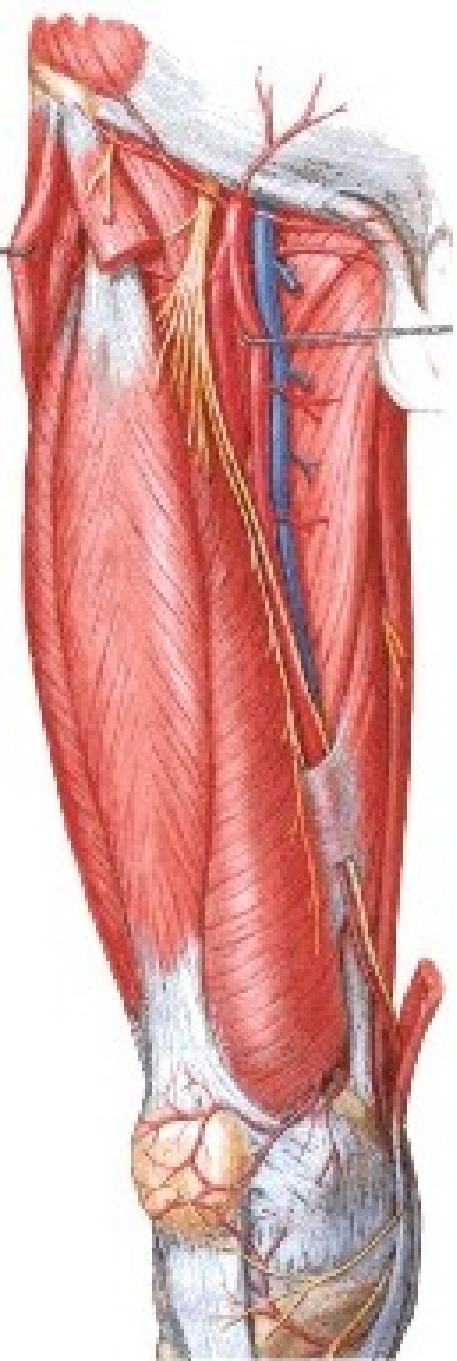
N.cutaneus femoris lat.



N. FEMORALIS

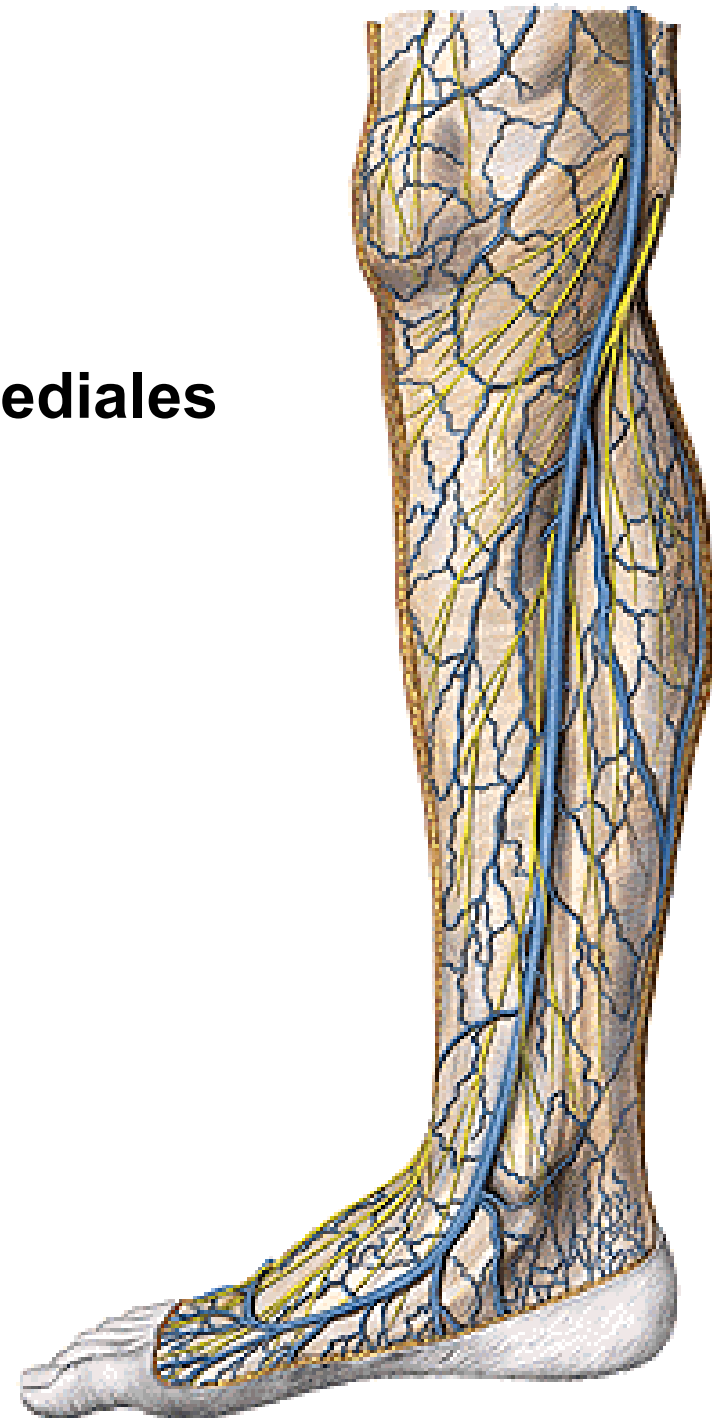
- rr. musculares
- n. saphenus





N. saphenus

- r. infrapatellaris
- rr. cutanei cruris mediales

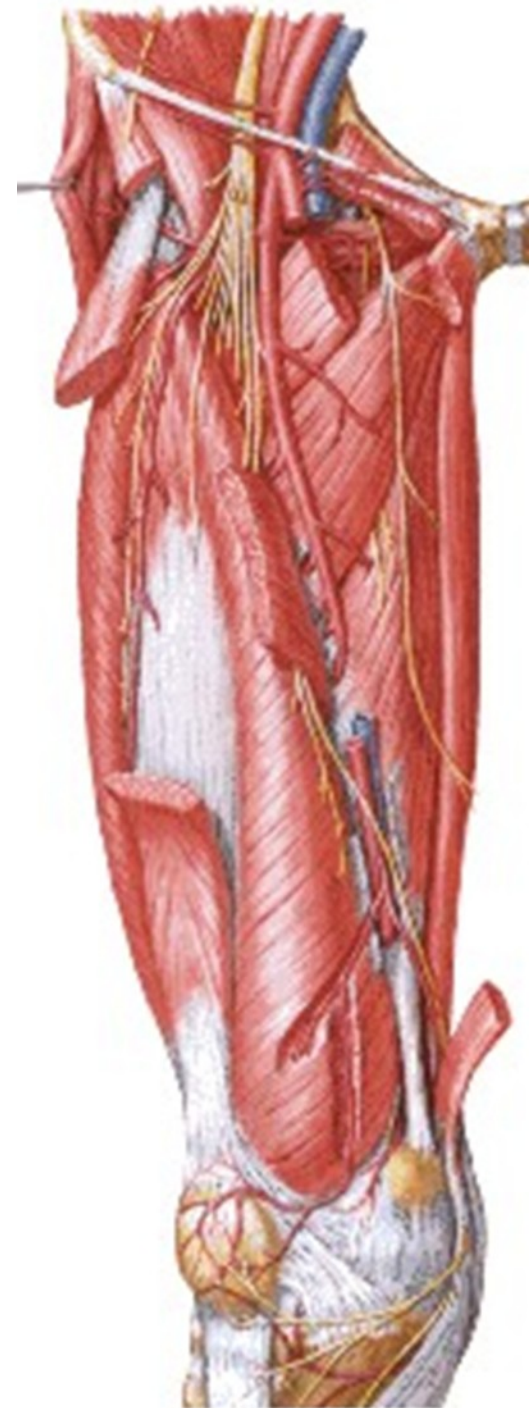
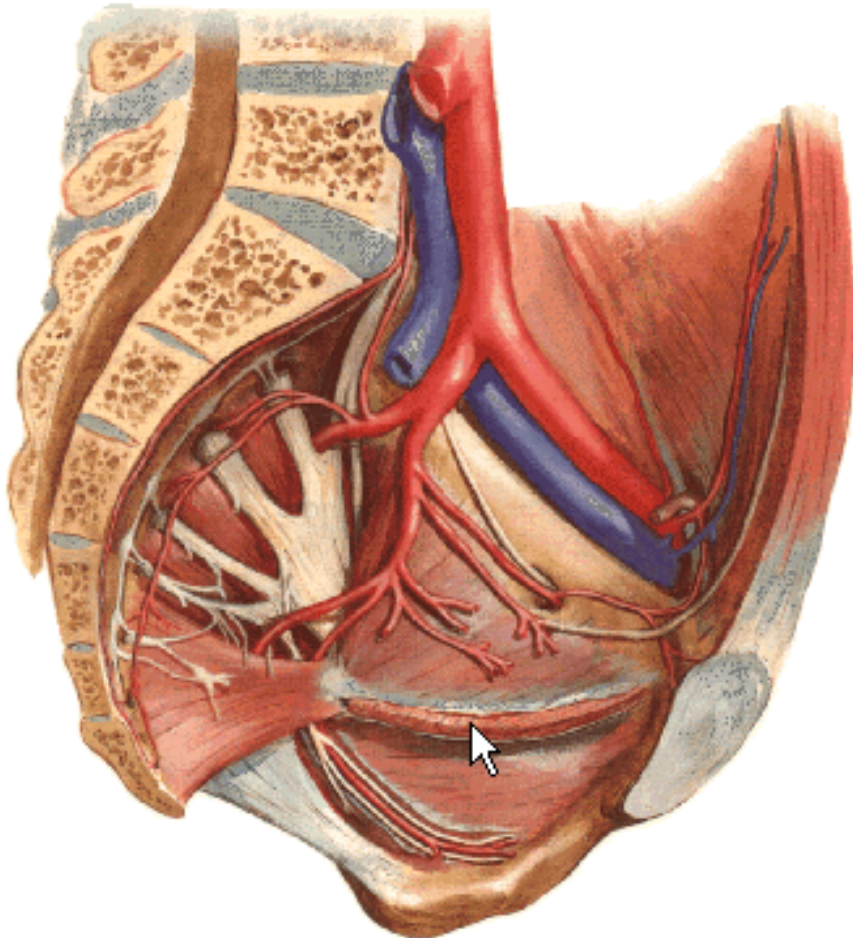




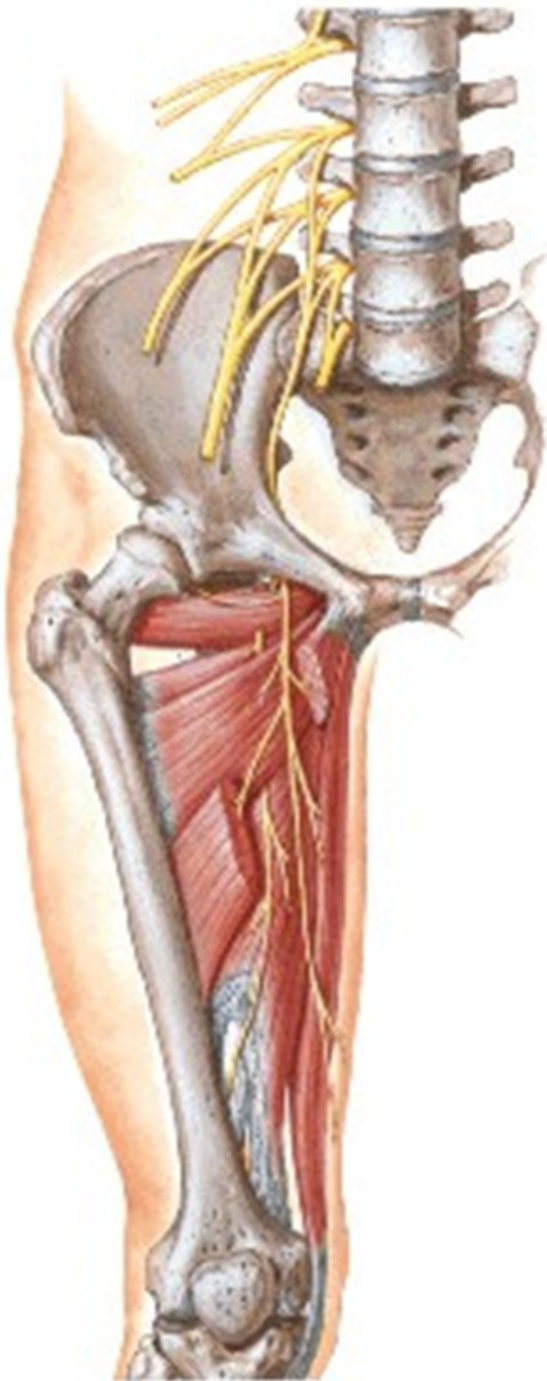
N. cutaneus femoris lat.
N. femoralis

N. OBTURATORIUS (L2-L4)

- r. anterior – r. cutaneus
- r. posterior – r. articularis

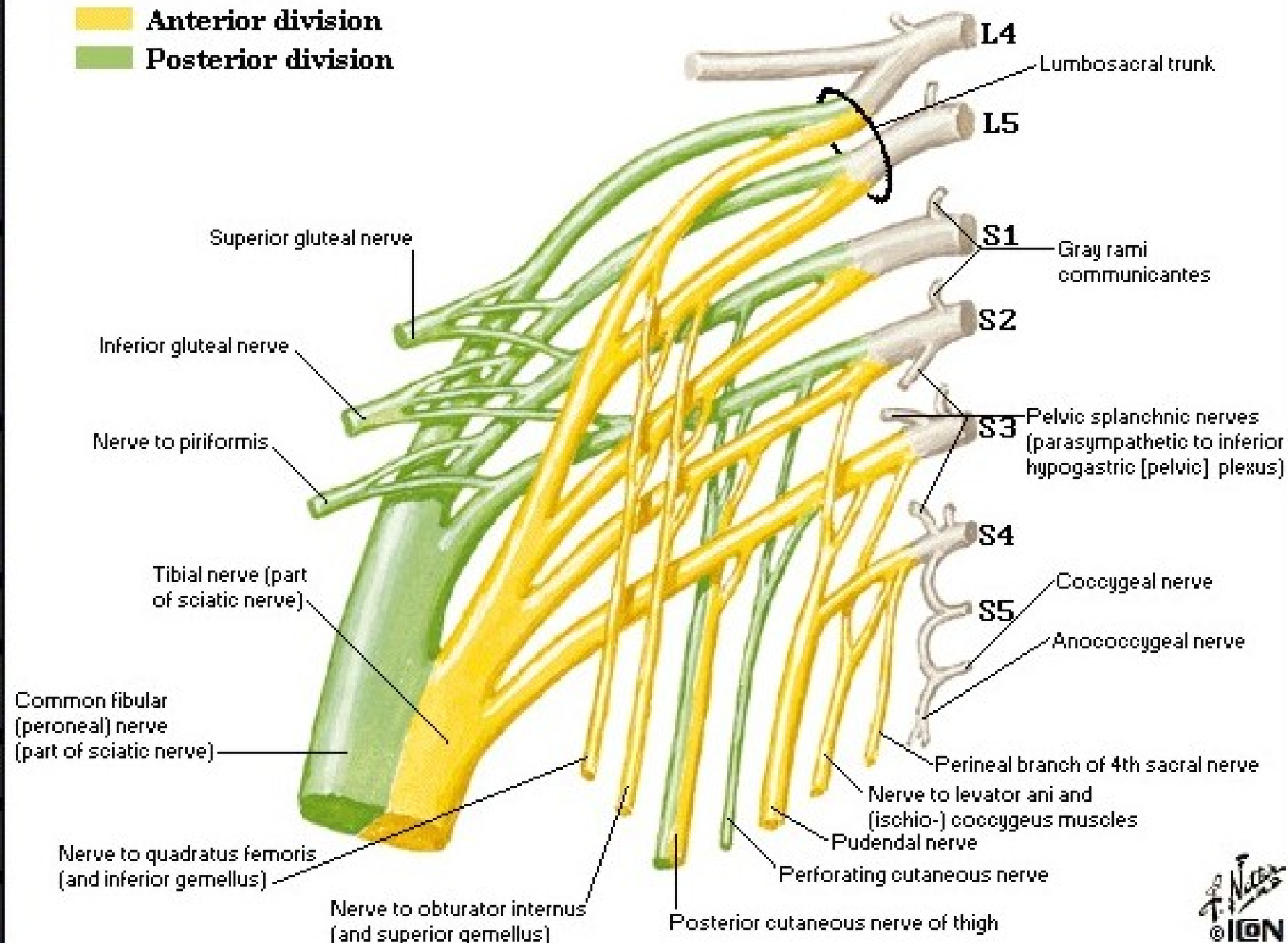


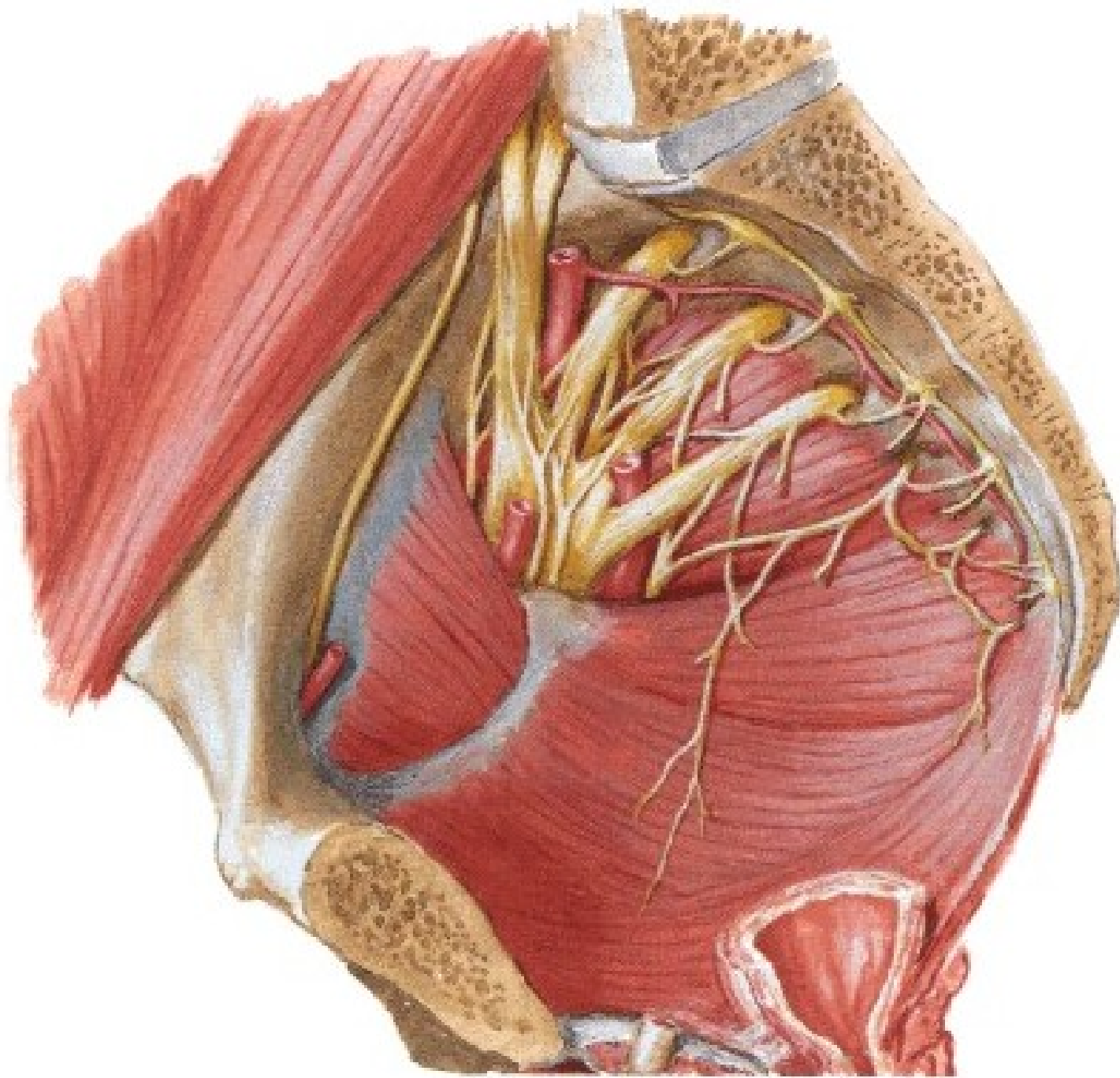
N. OBTURATORIUS
- r. cutaneus



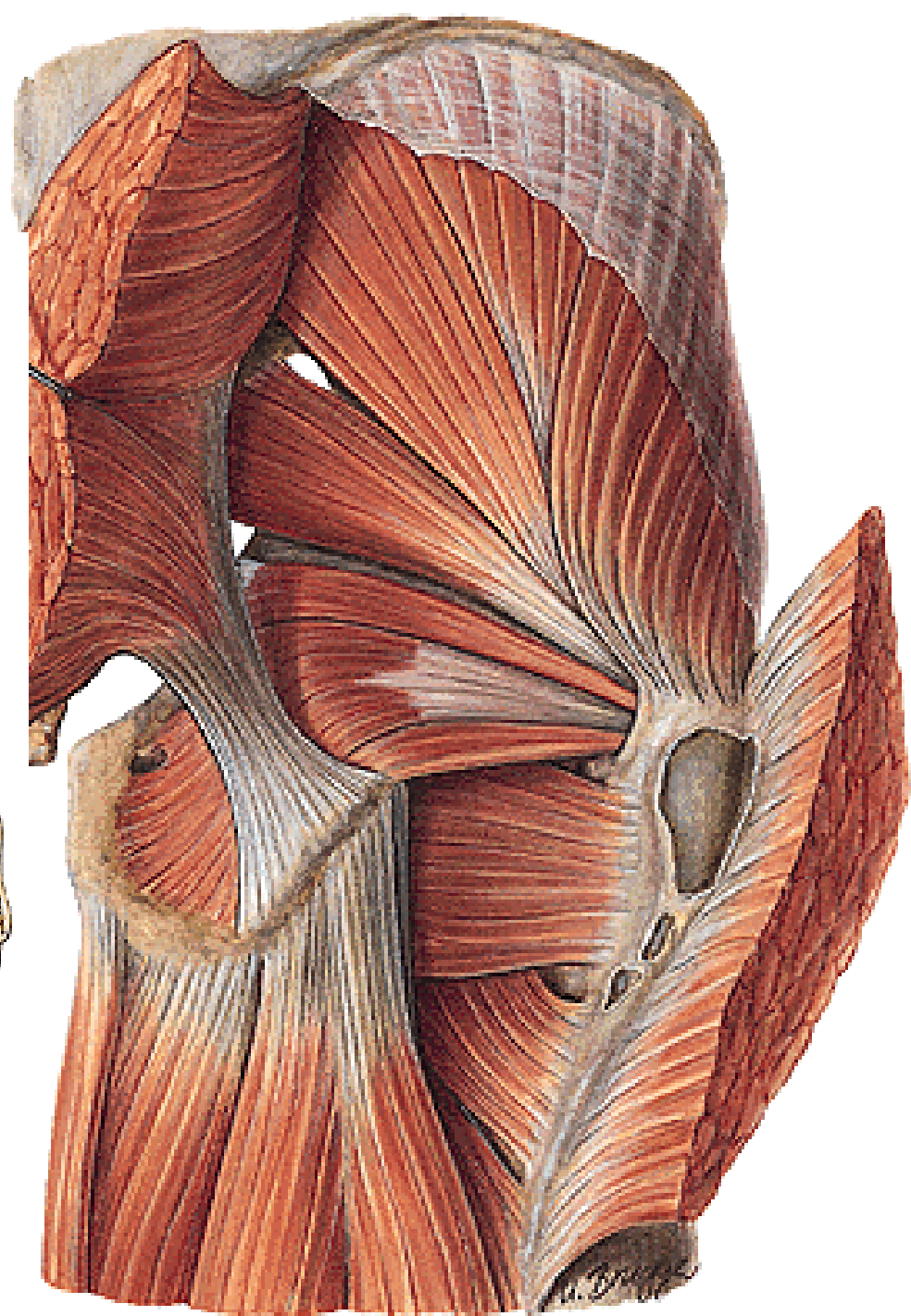
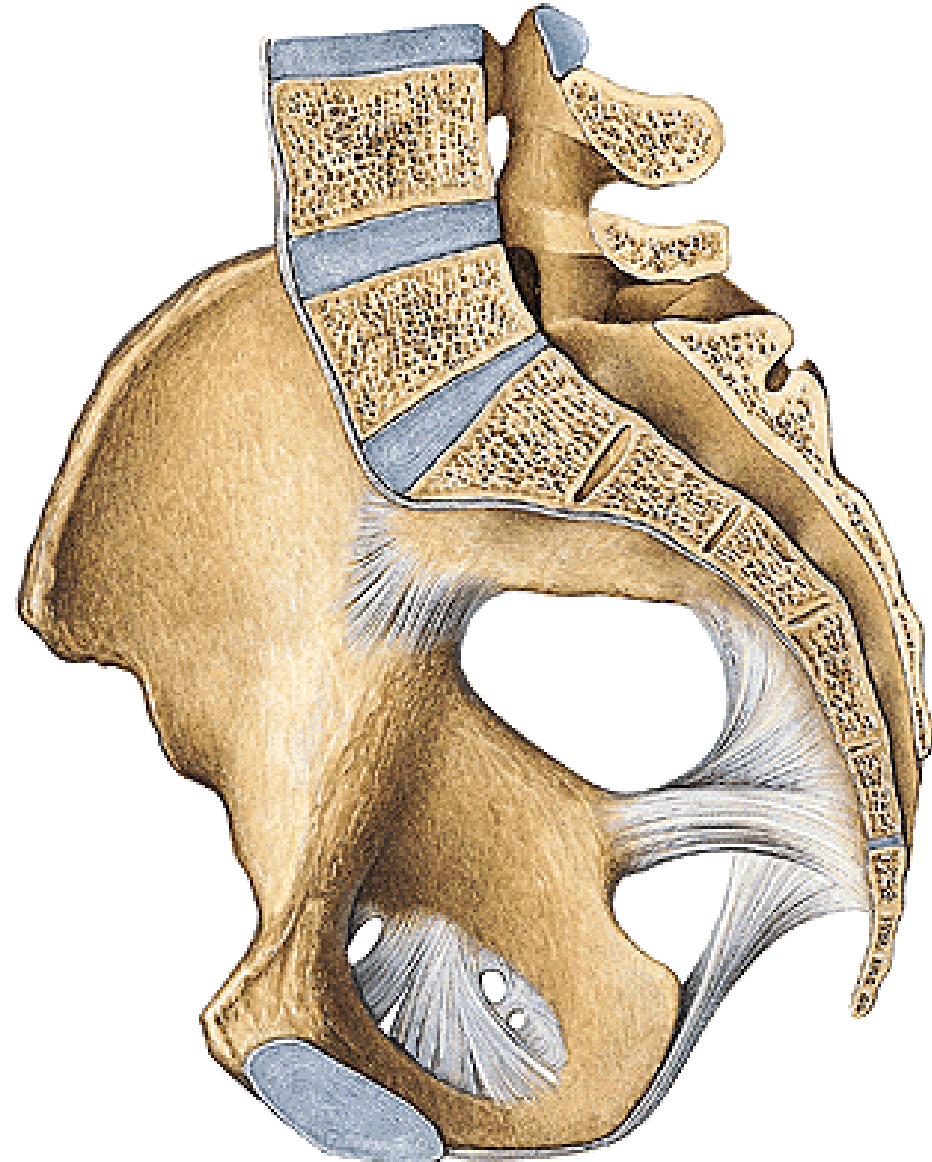
PLEXUS SACRALIS (L4 – Co1)

- Anterior division
- Posterior division





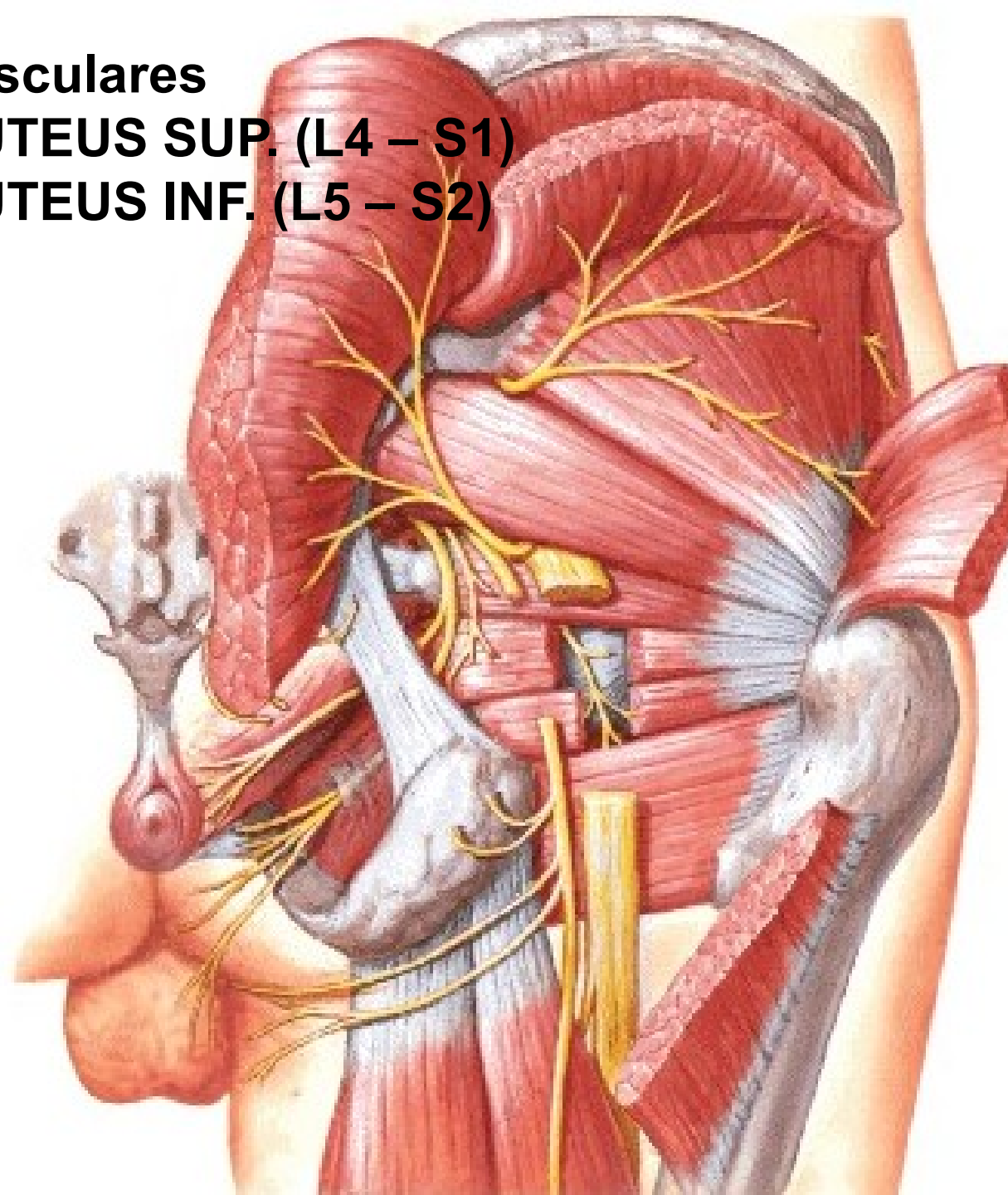
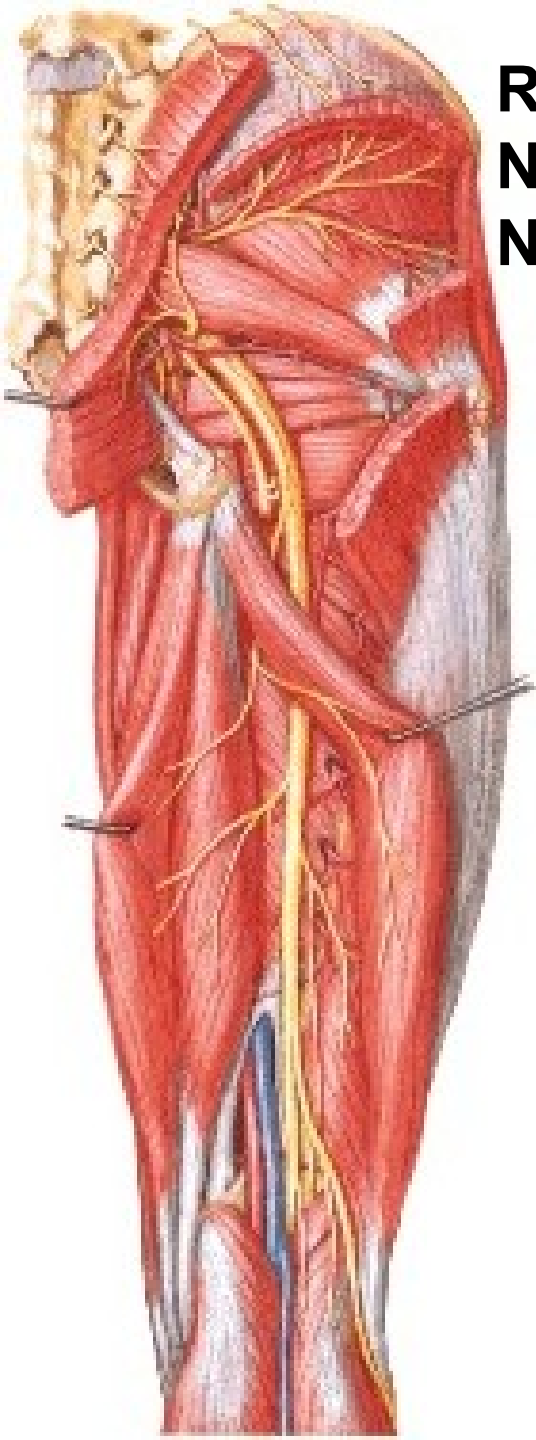
Foramen suprapiriforme
Foramen infrapiriforme



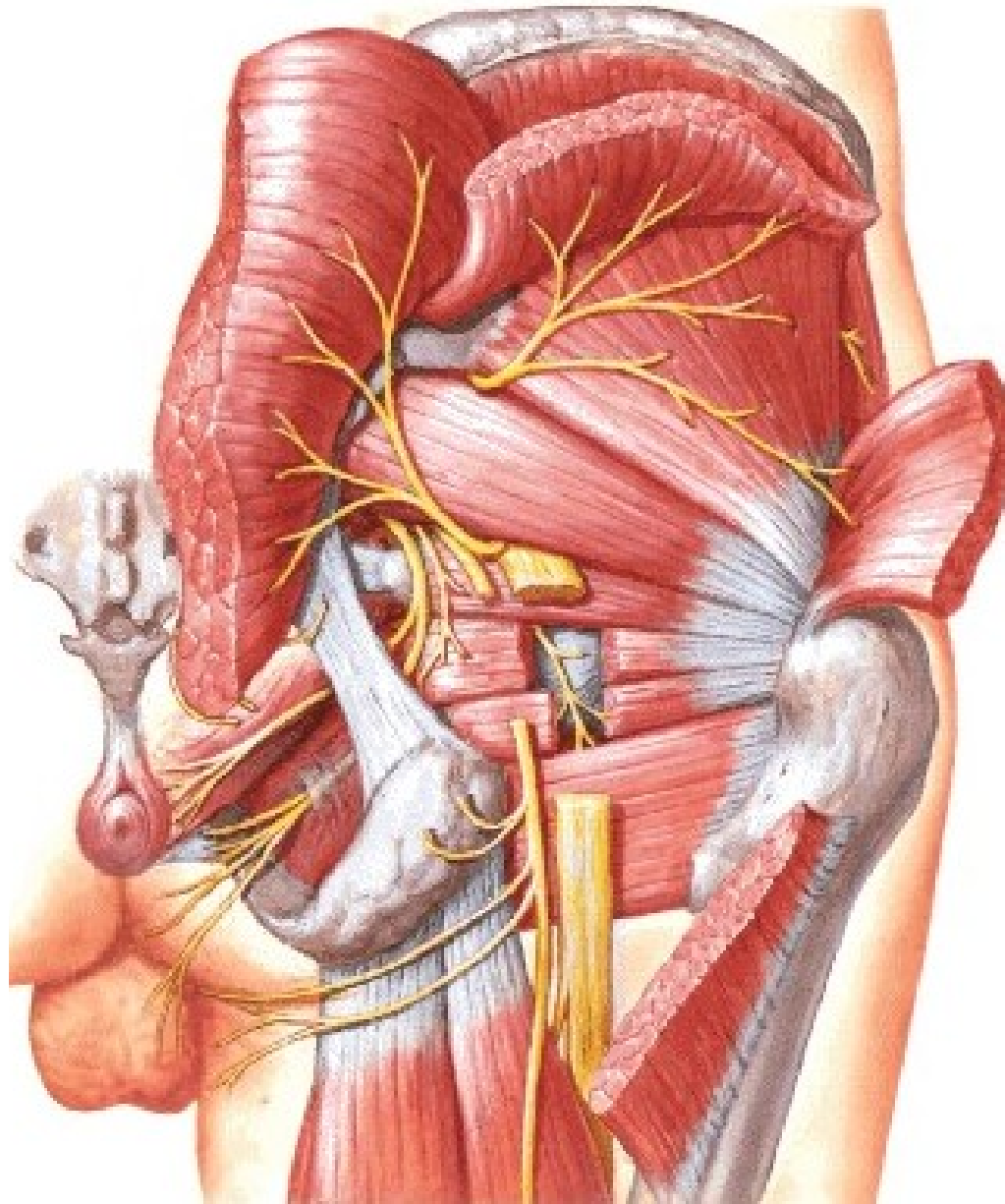
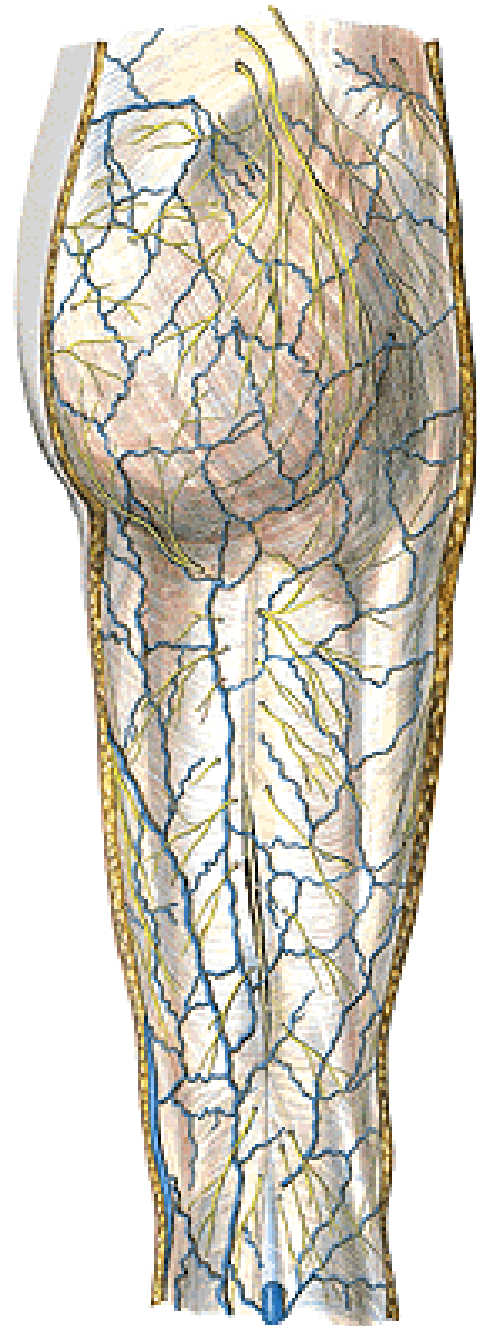
Rr. musculares

N. GLUTEUS SUP. (L4 – S1)

N. GLUTEUS INF. (L5 – S2)

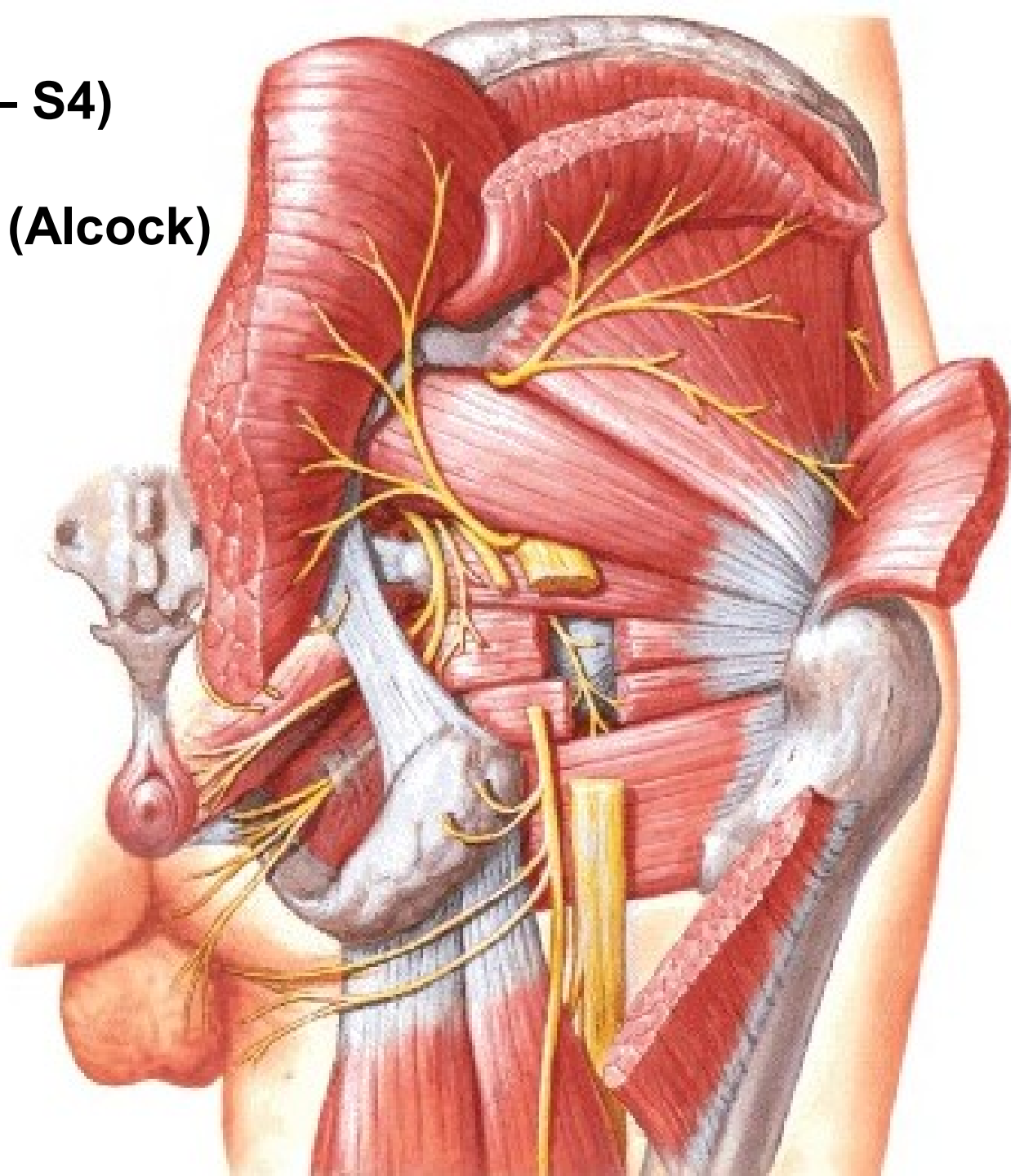


N. CUTANEUS FEMORIS POST. (S1 – S3) – rr. perineales
- nn. clunium inferiores



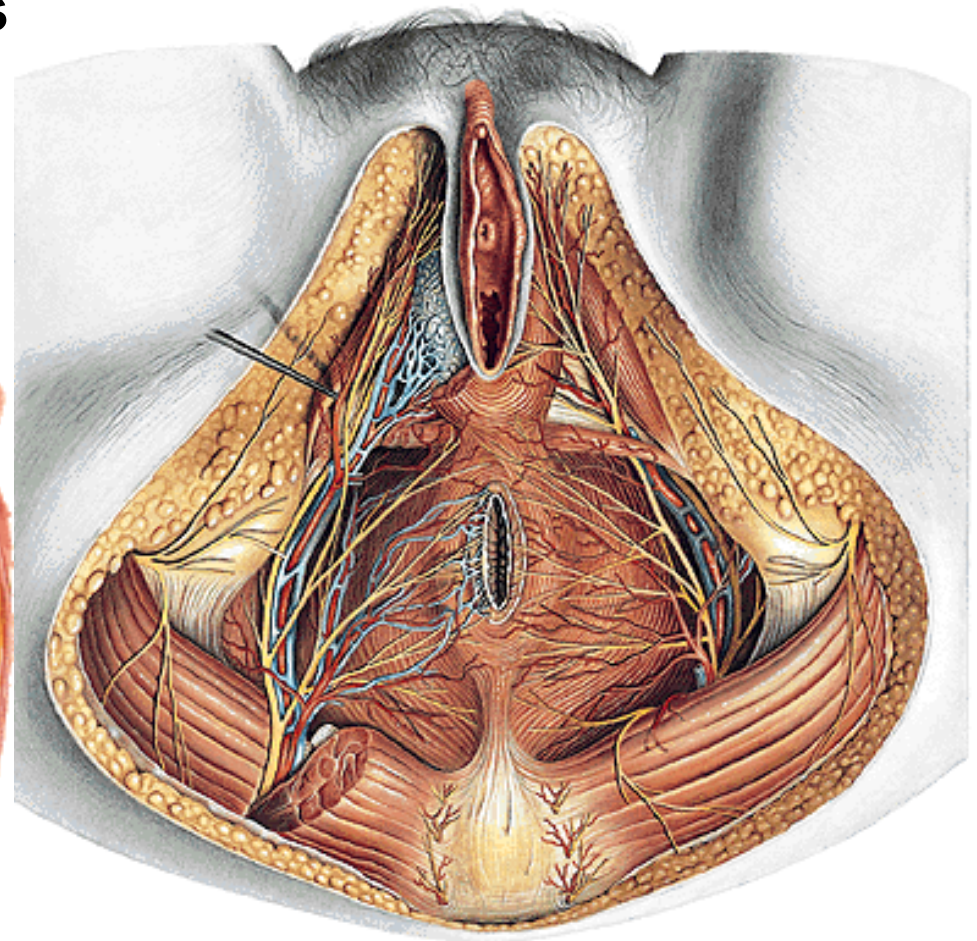
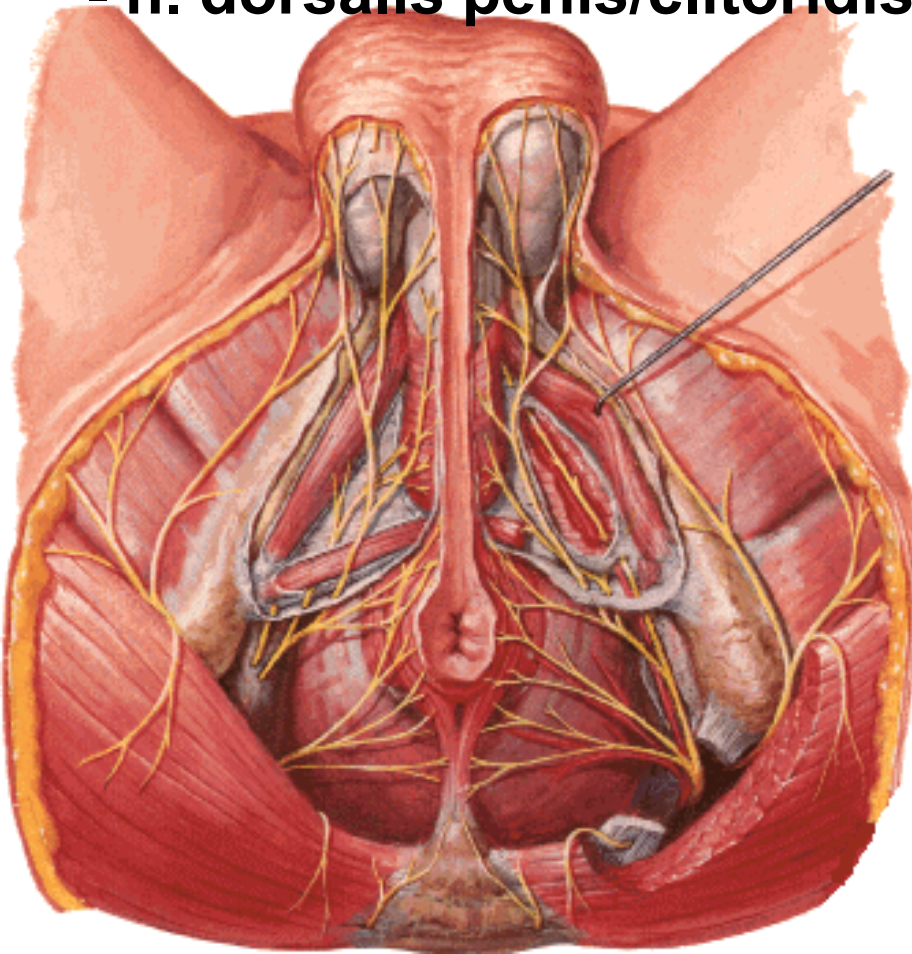
N. PUDENDUS (S2 – S4)

Canalis pudendalis (Alcock)

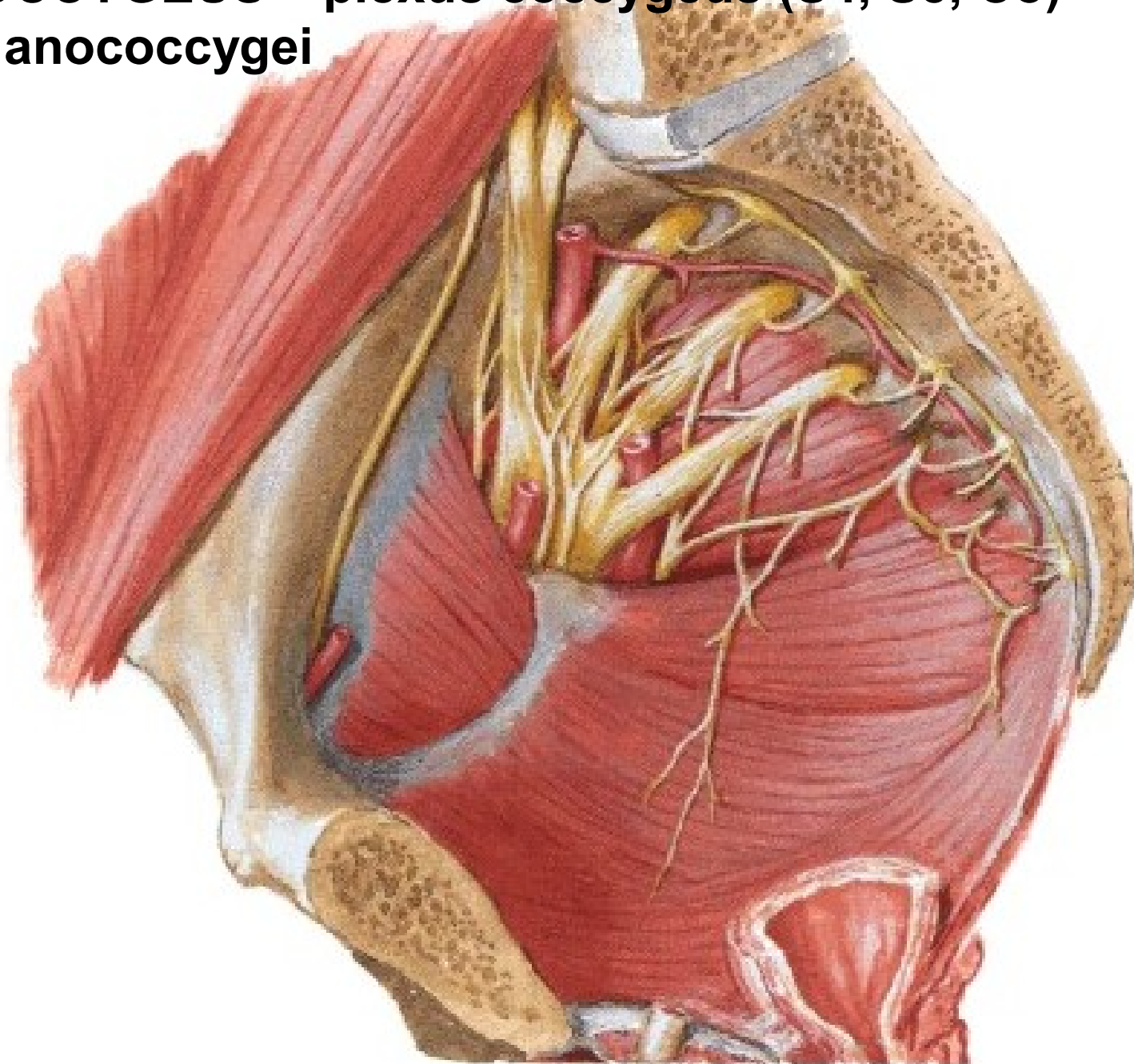


N. PUDENDUS

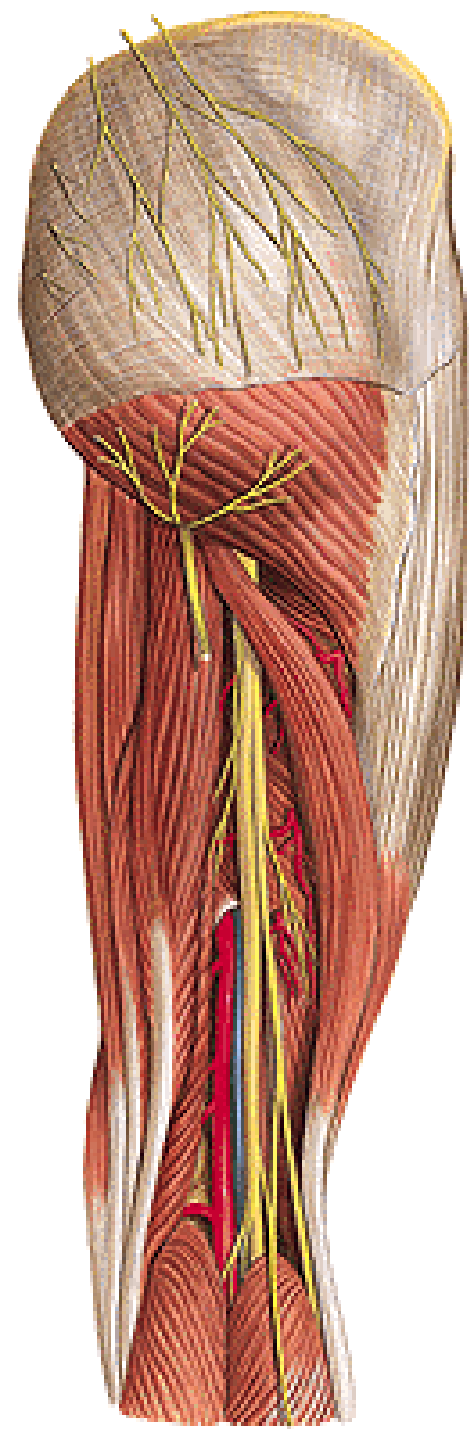
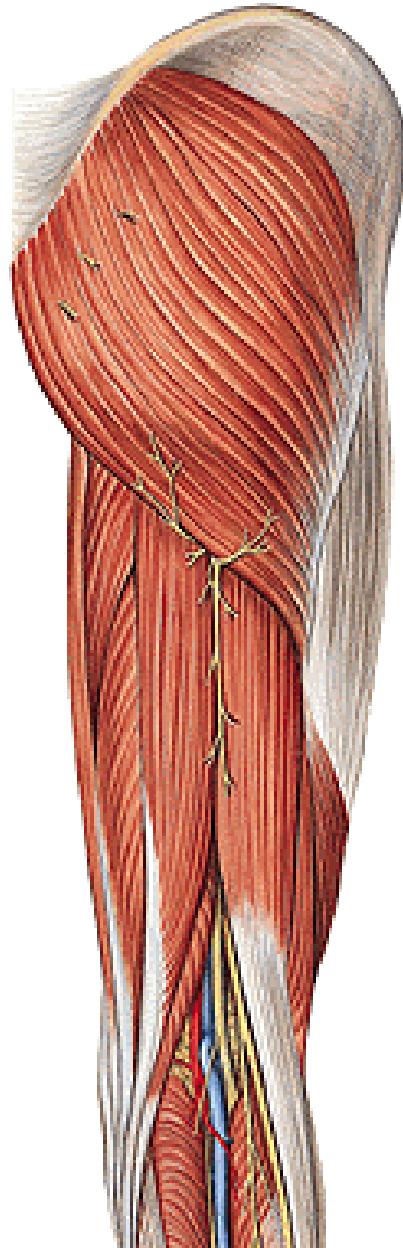
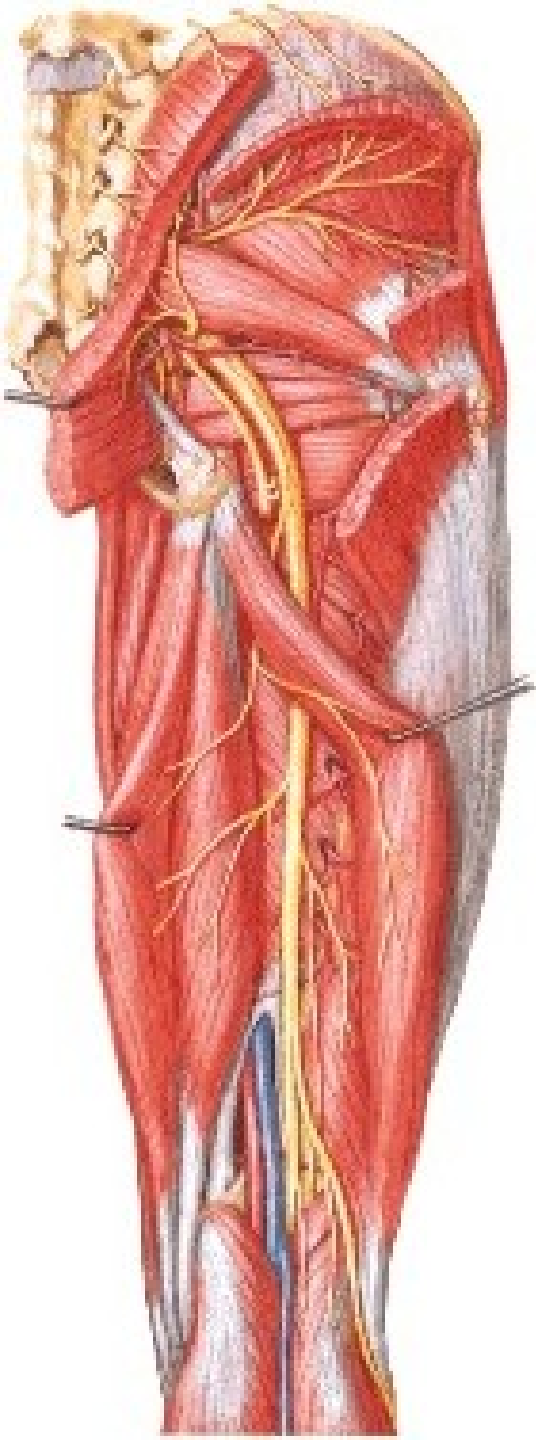
- nn. rectales inf.
- n. perinealis
 - n. perinealis spf. – rr. scrotales/labiales posteriores
 - n. perinealis prof.
- n. dorsalis penis/clitoridis



N. COCCYGEUS – plexus coccygeus (S4, S5, Co)
– nn. anococcygei



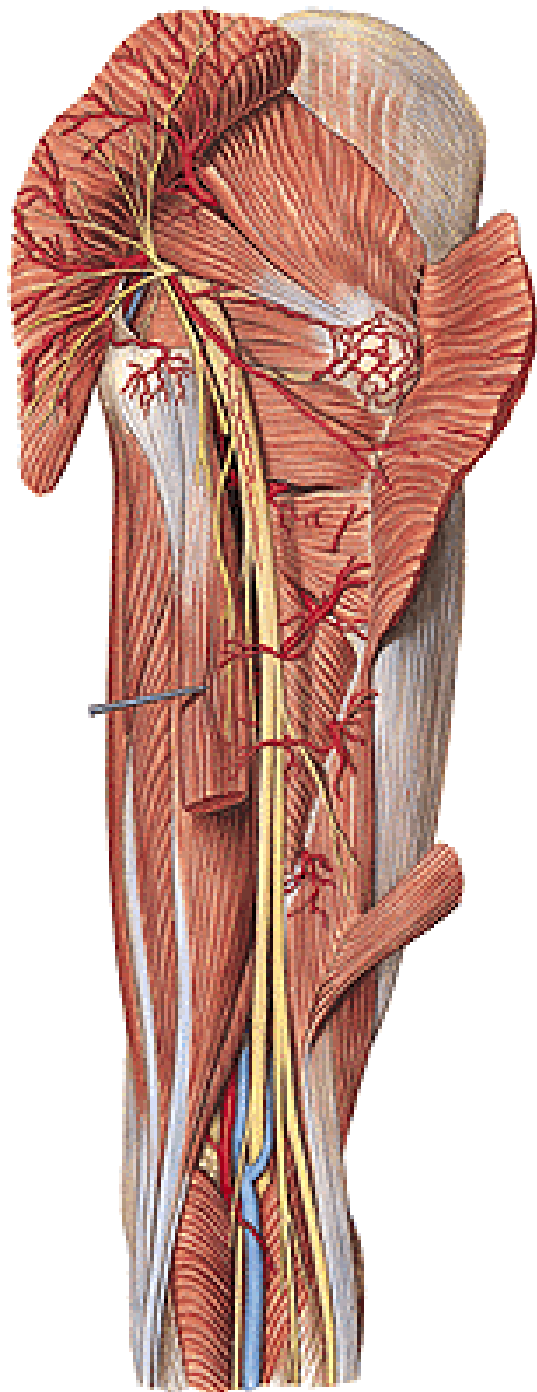
N. ISCHIADICUS (L4 – S3)



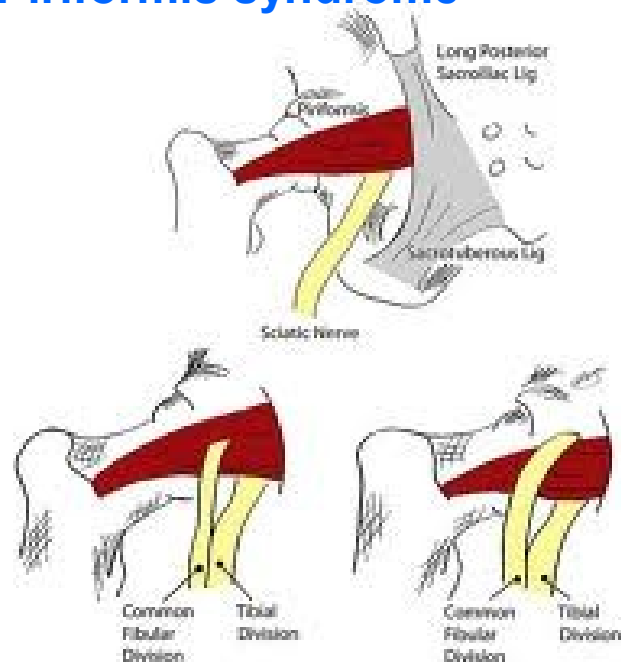
A. comitans n. ischiadici

N. ISCHIADICUS

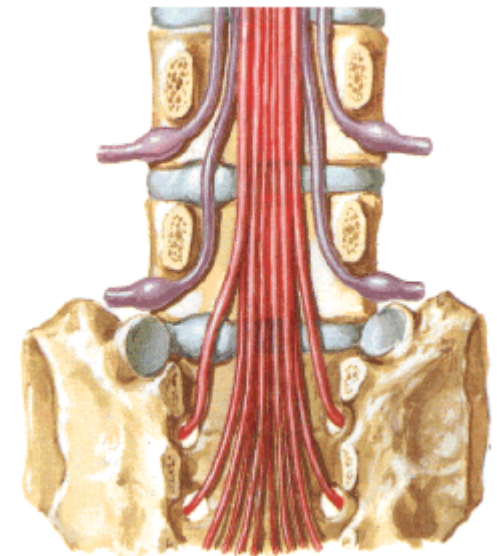
- rr. musculares
- rr. articulares
- n. tibialis
- n. fibularis communis



Piriformis syndrome

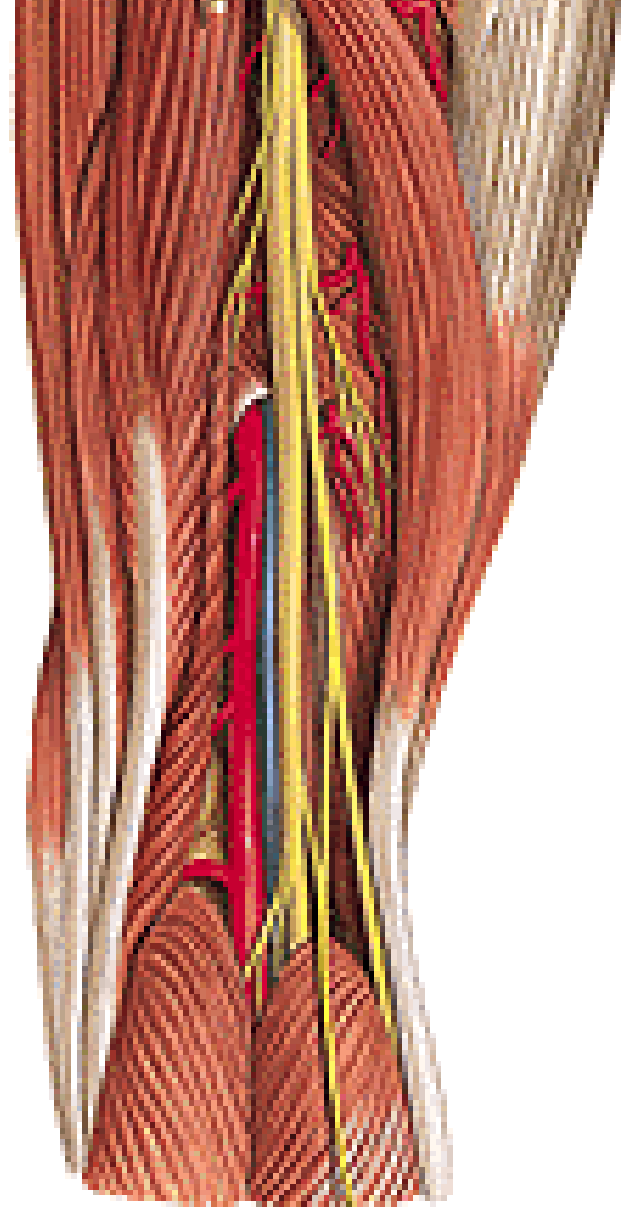
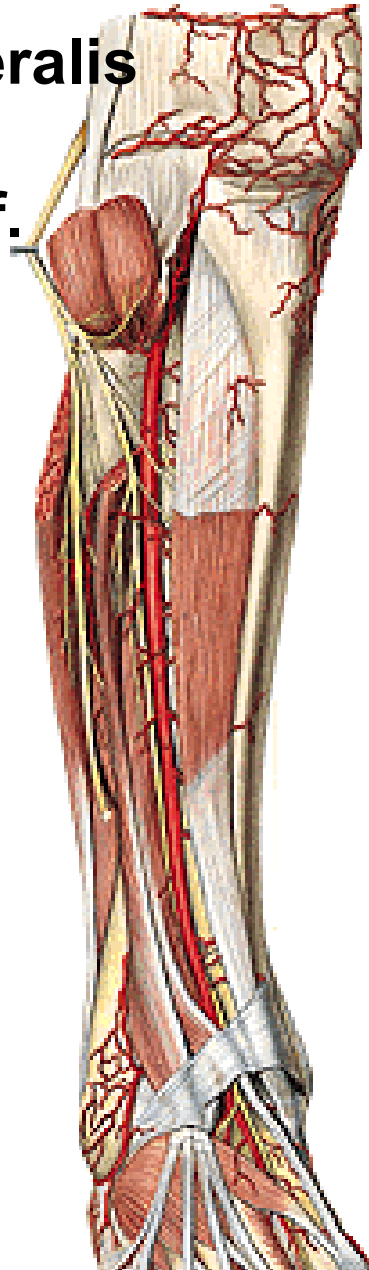
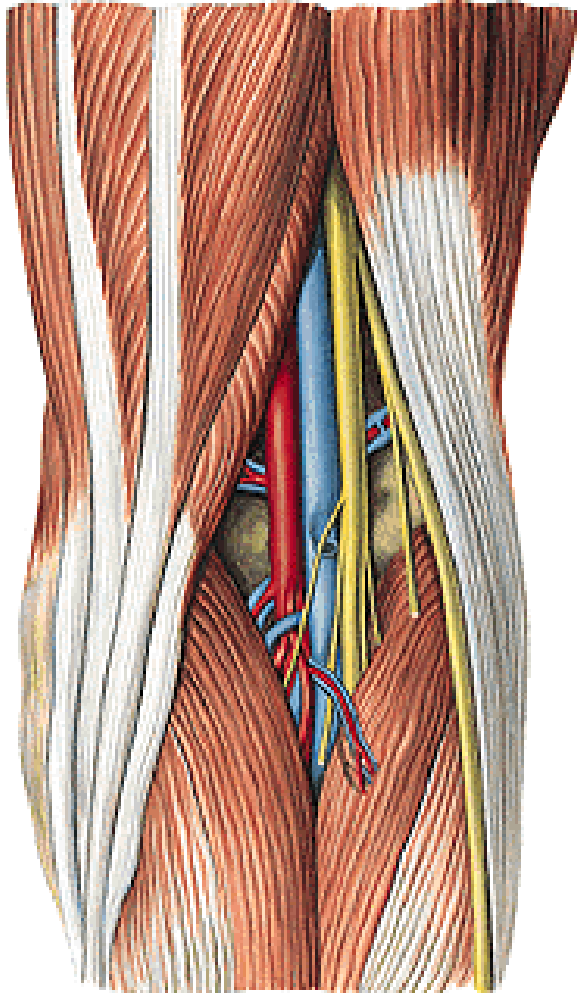


Spinal disc herniation



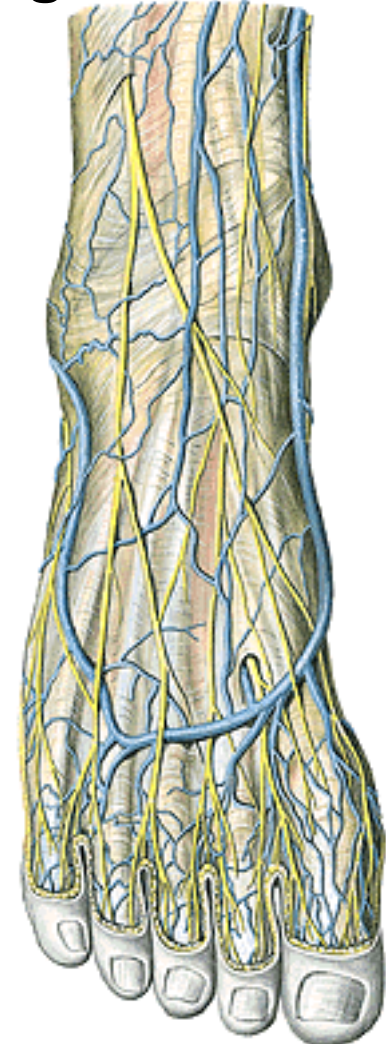
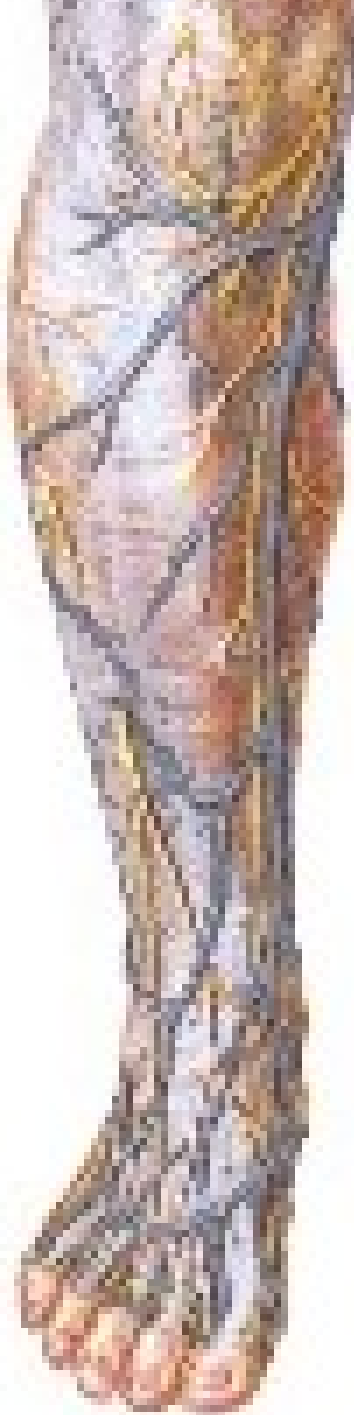
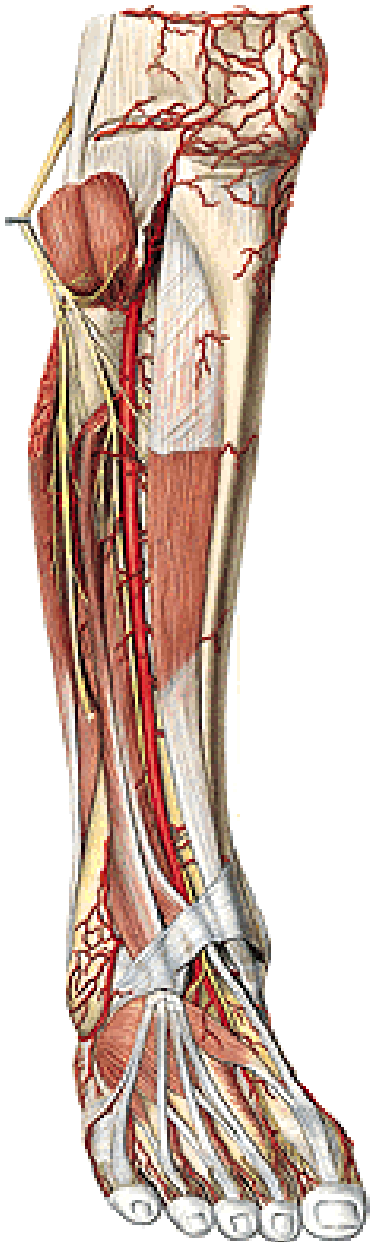
N. FIBULARISUS COMMUNIS

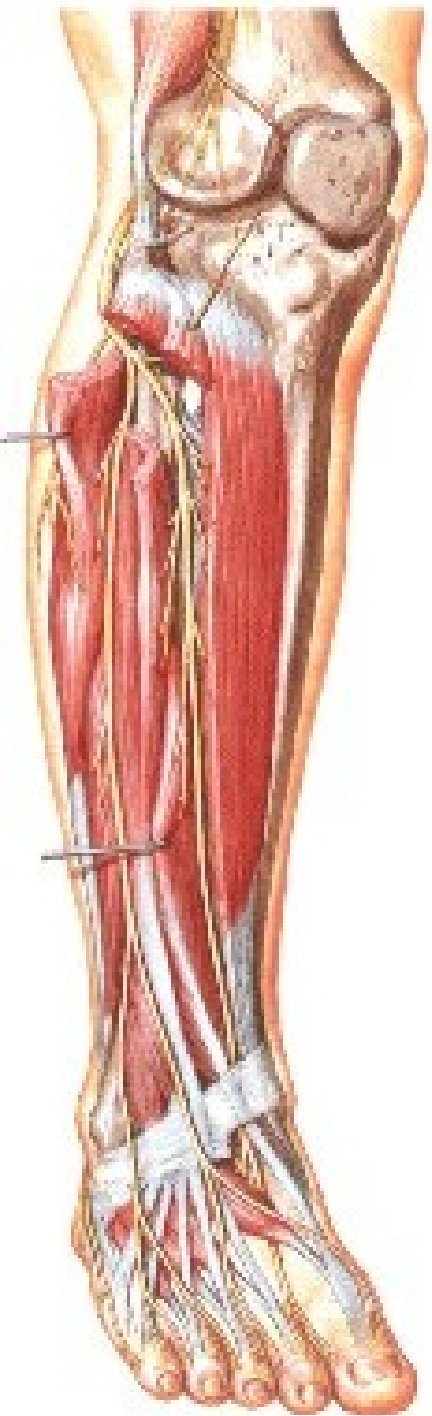
- rr. articulares
- n. cutaneus surae lateralis
- r. communicans
- n. fibularis spf. et prof.



N. FIBULARIS SPF.

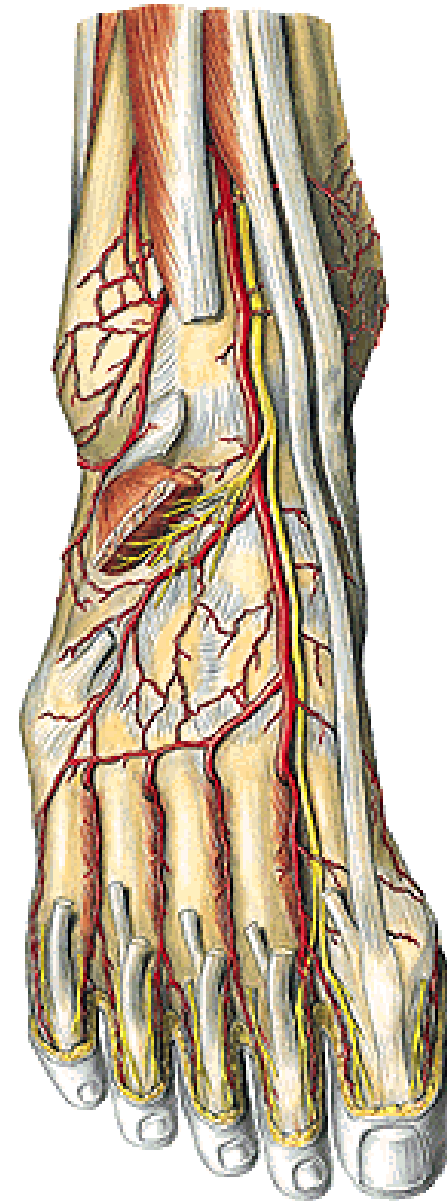
- rr. musculares
- n. cutaneus dorsalis med.
- n. cutaneus dors. intermedius
 - nn. digitales dorsales





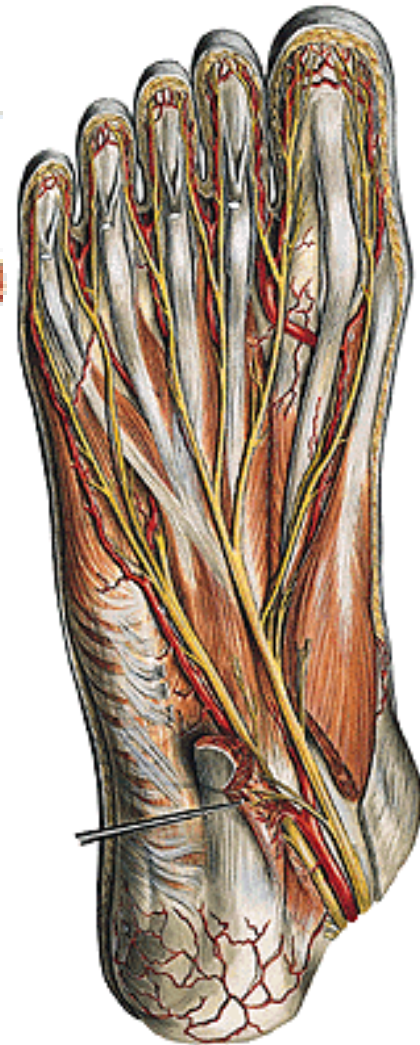
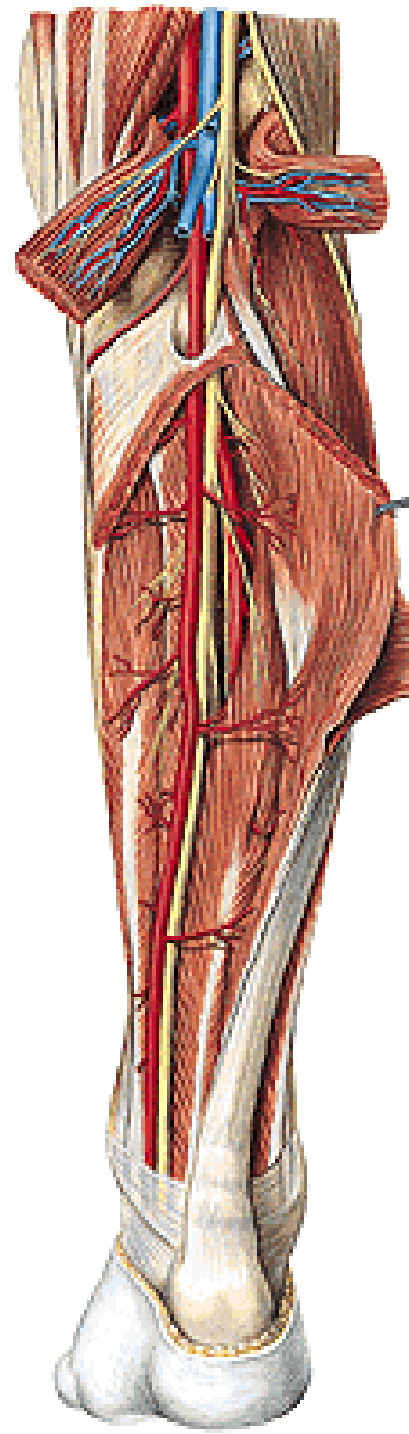
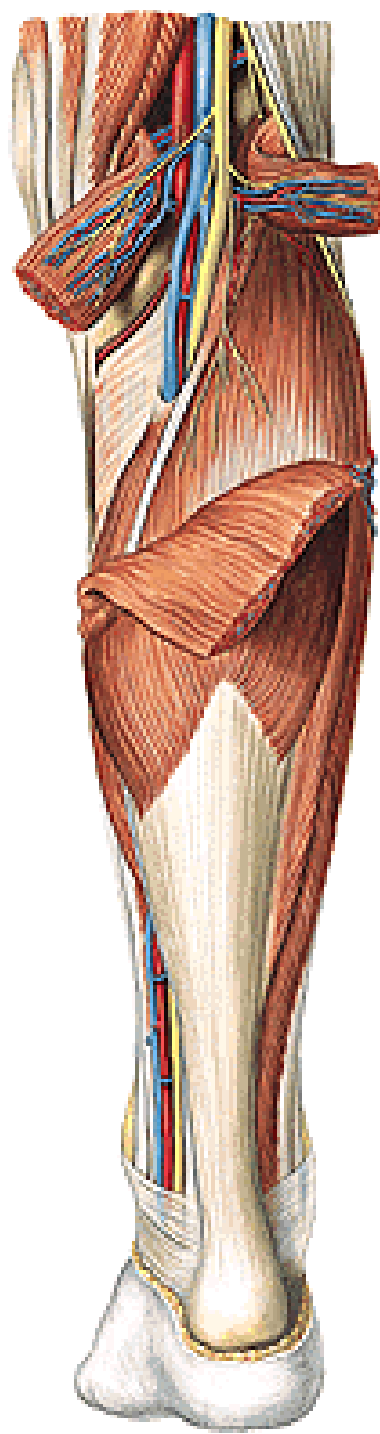
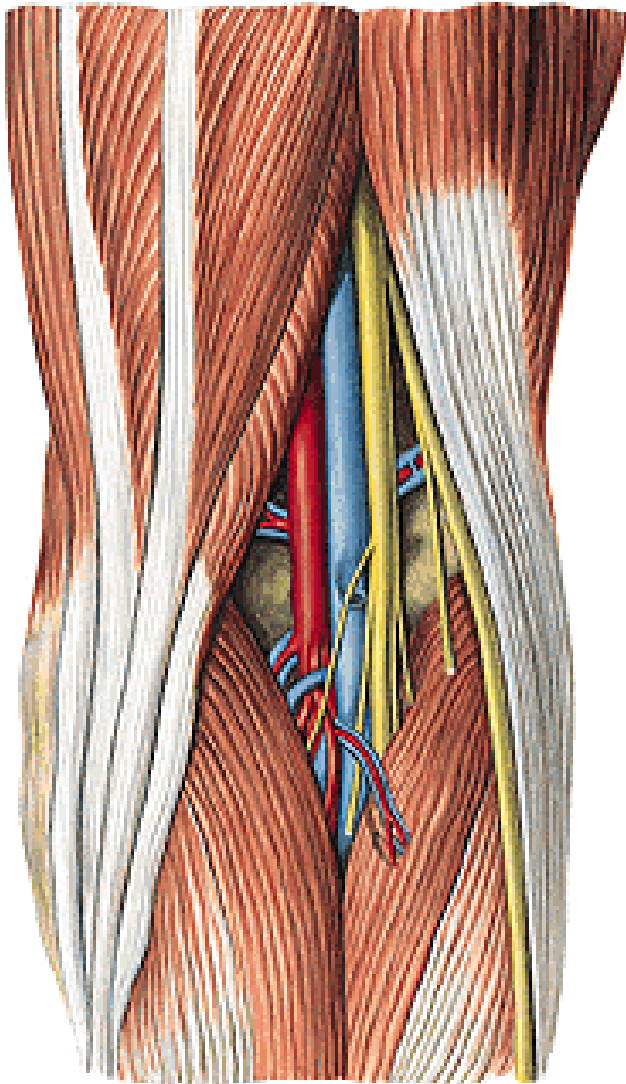
N. FIBULARIS PROF.

- rr. musculares
- nn. digitales dorsales



N. TIBIALIS

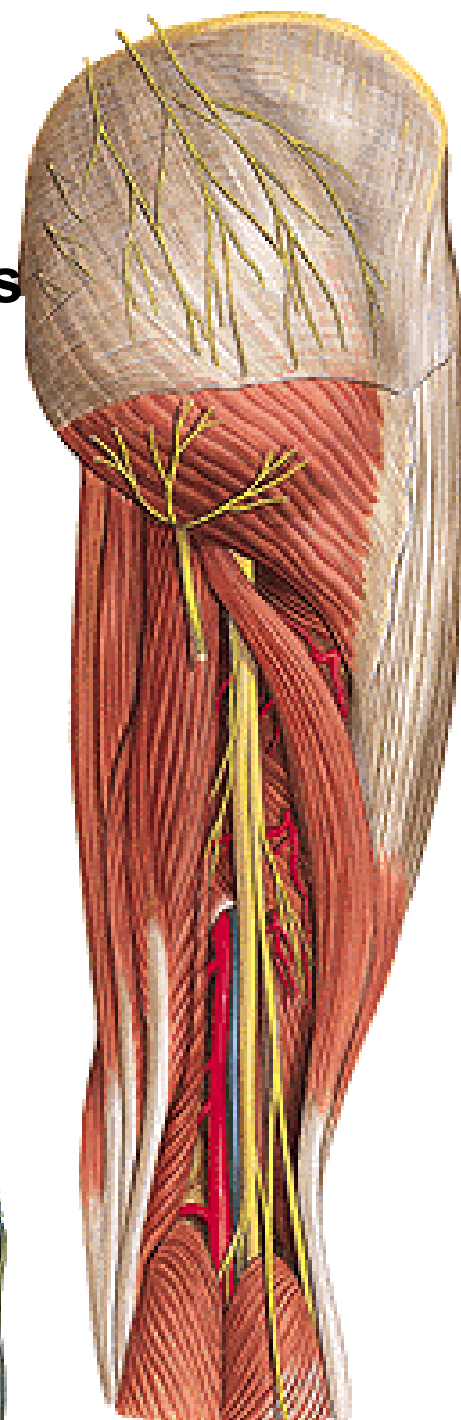
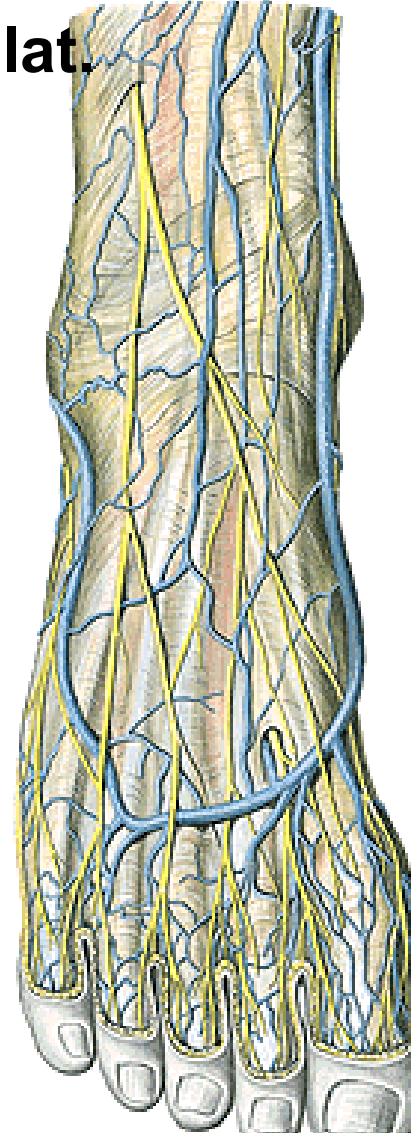
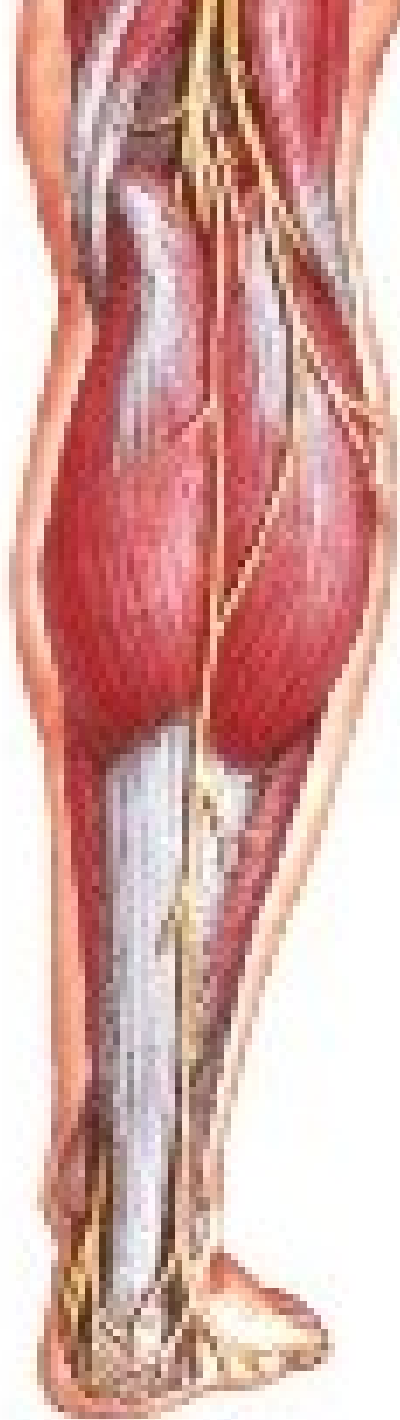
(arcus tendineus m. solei)

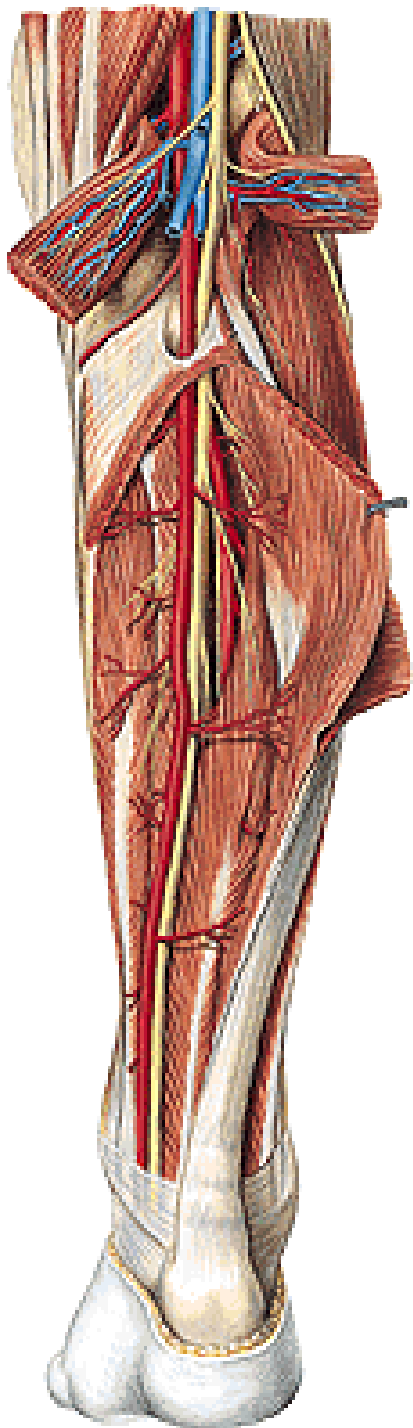


N. TIBIALIS

**- n. cutaneus surae medialis
(+ r. communicans fibularis)**

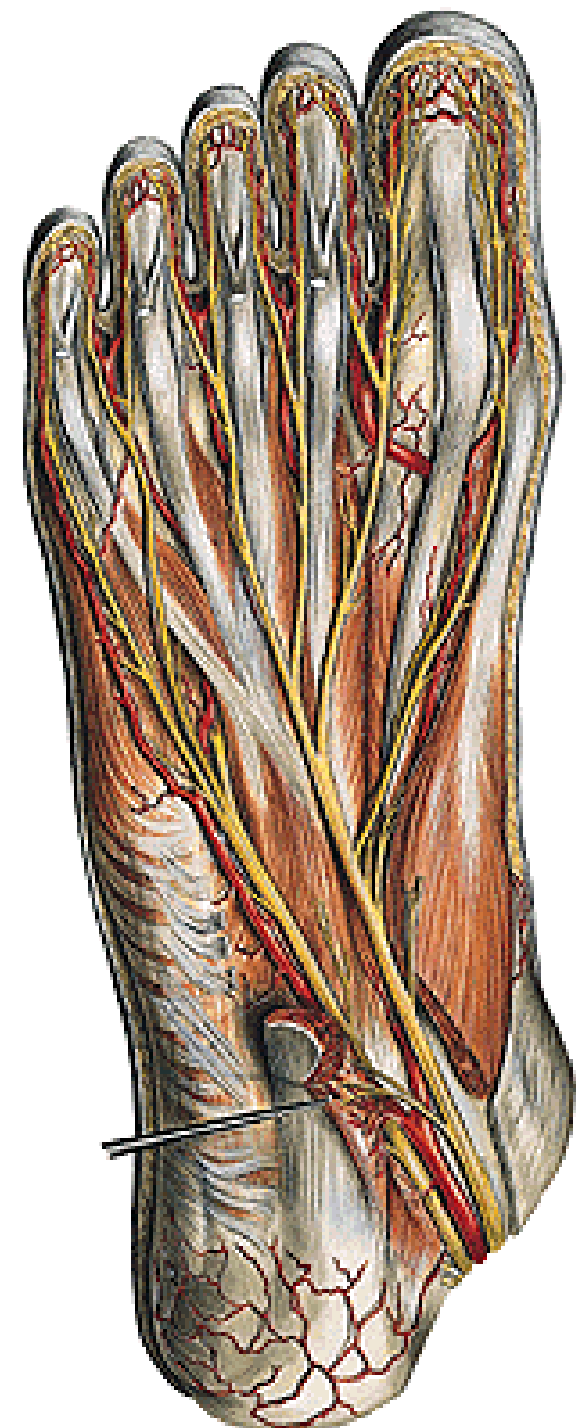
**→ n. suralis – n. cutaneus
dorsalis lat.**





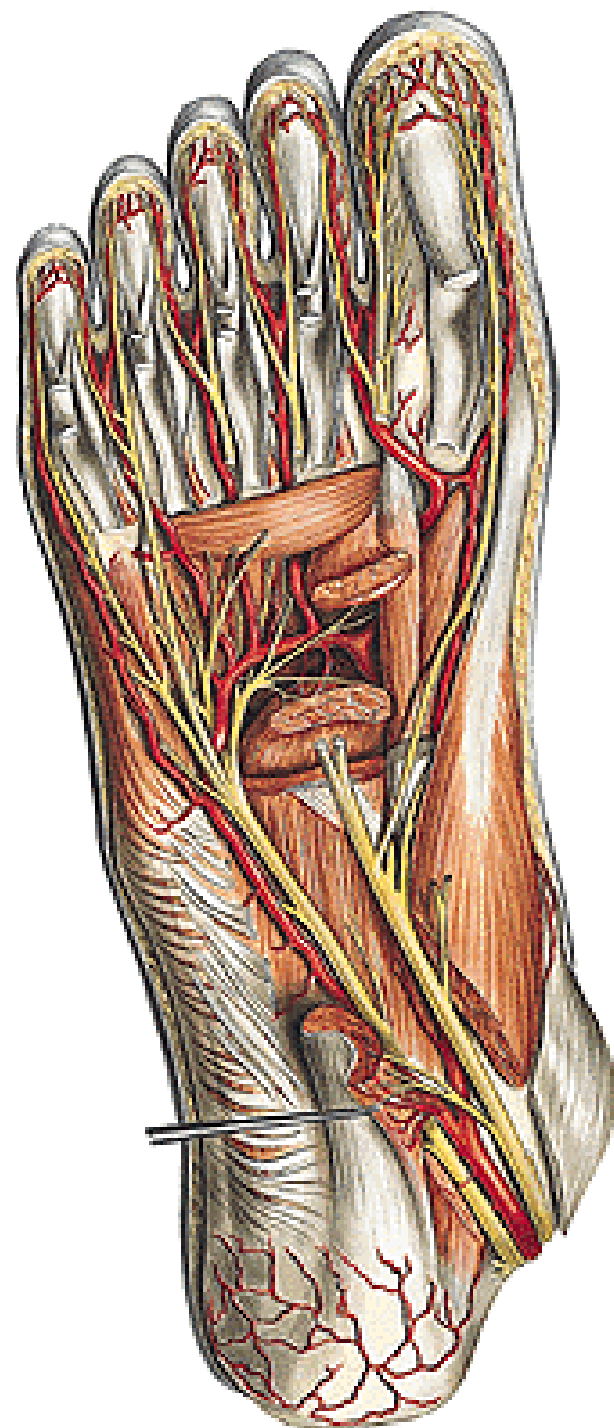
N. TIBIALIS

- rr. musculares
- n. interosseus cruris
- rr. calcanei med.
- n. plantaris med.
 - rr. musculares
 - nn. digitales plantares comm. et proprii
- n. plantaris lat.
 - r. spf. – nn. dig. plant. proprii
 - r. prof. – rr. musculares

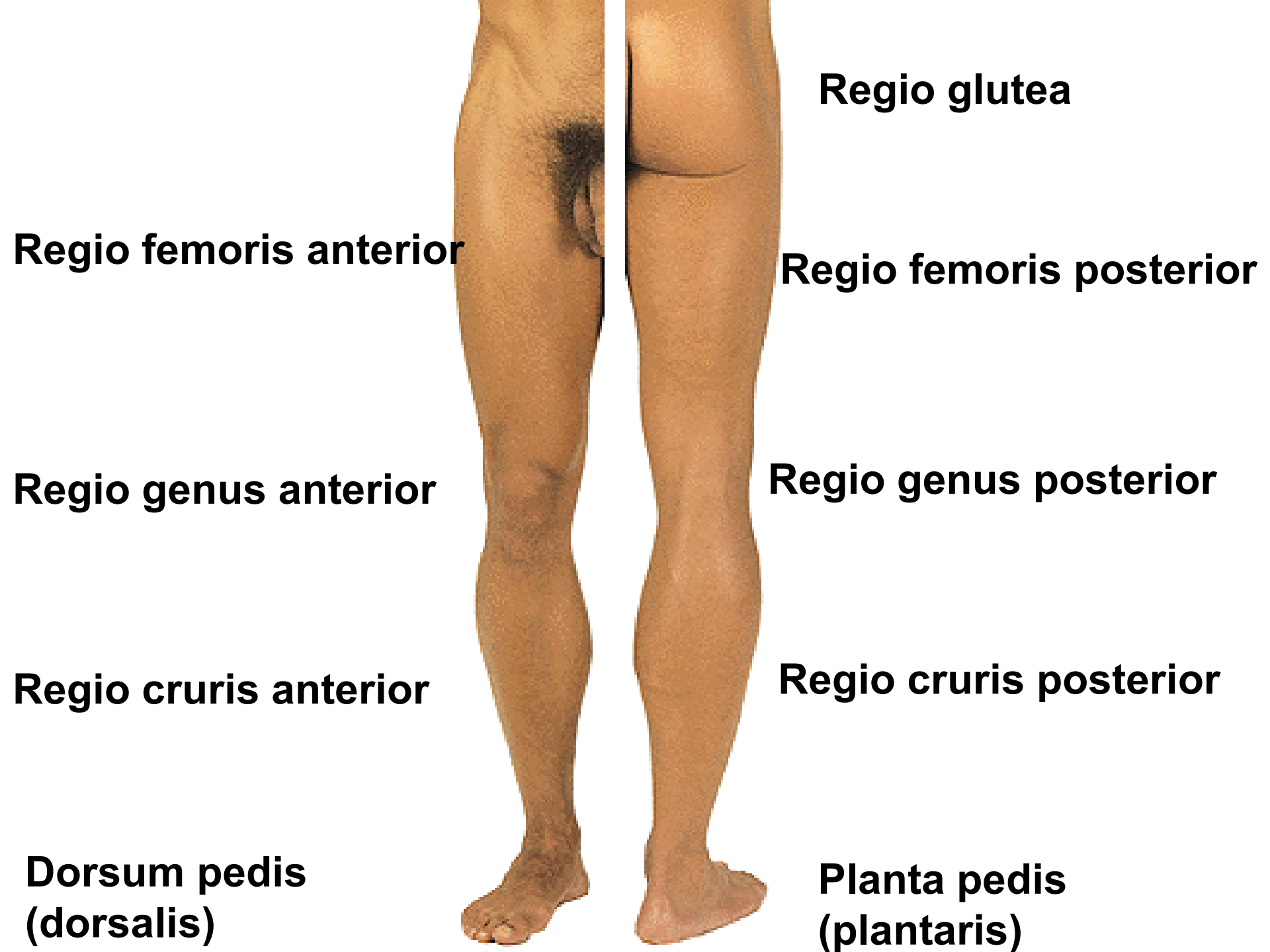


N. TIBIALIS

- **n. plantaris lat.**
 - **r. spf. – nn. dig. plant. proprii**
 - **r. prof. – rr. musculares**



Regional anatomy of the lower limb



Regio glutea

Regio femoris anterior

Regio femoris posterior

Regio genus anterior

Regio genus posterior

Regio cruris anterior

Regio cruris posterior

**Dorsum pedis
(dorsalis)**

**Planta pedis
(plantaris)**

REGIO GLUTEA

Crena ani

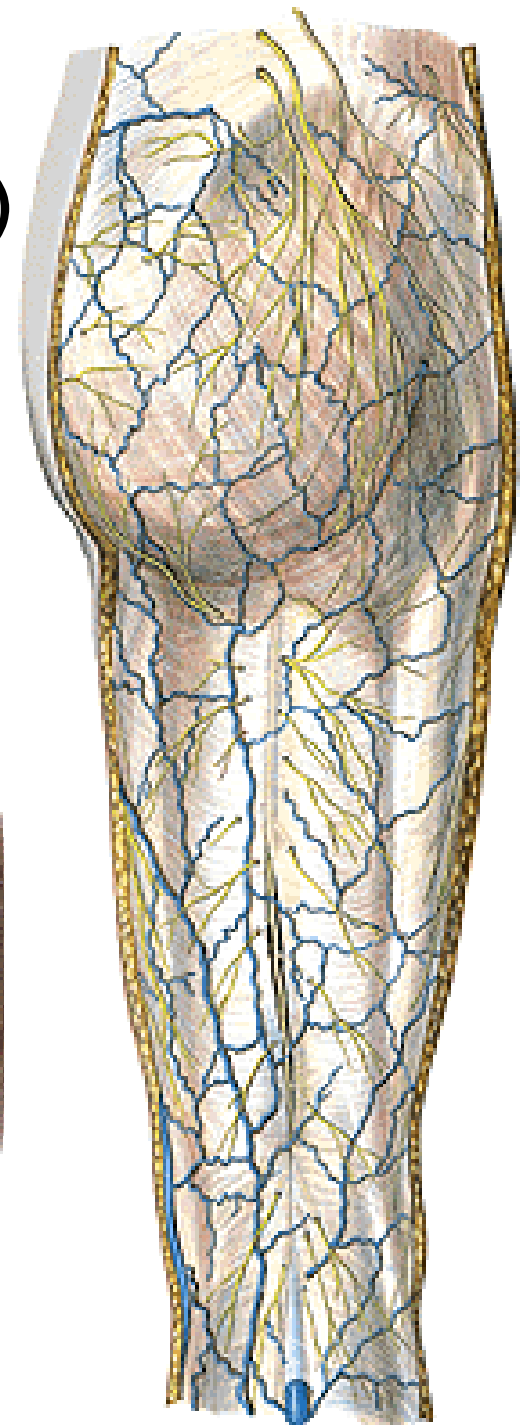
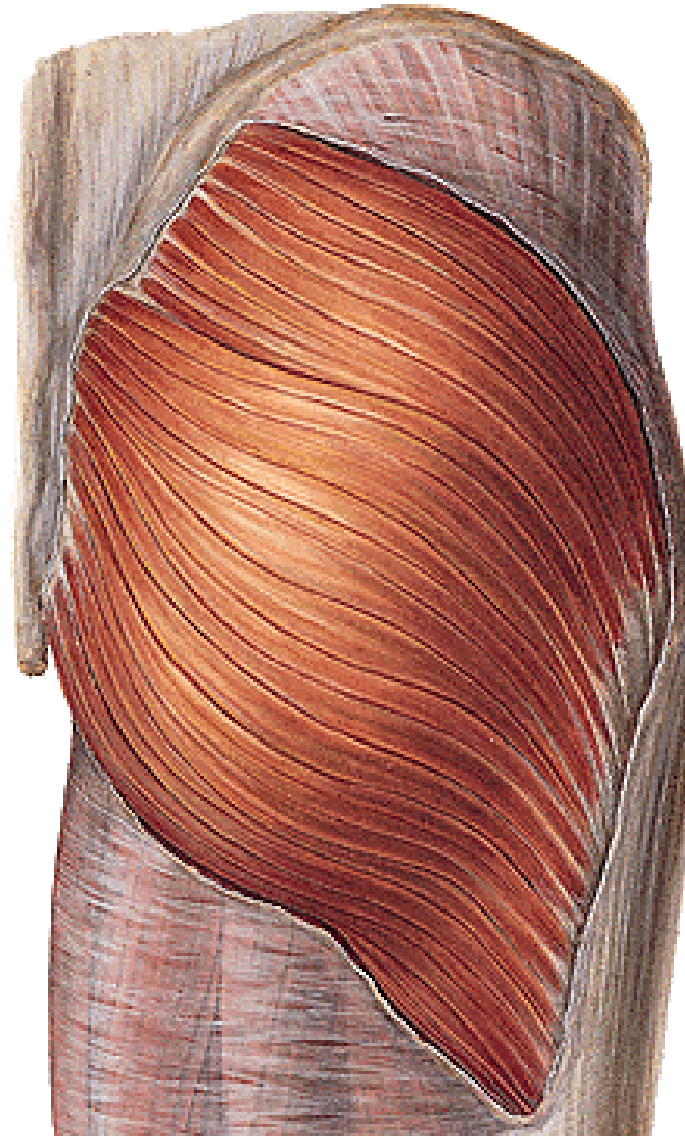


Nn. clunium sup. (rr. dors.L1-L3)

Nn. clunium medii (rr. dors.S1-S3)

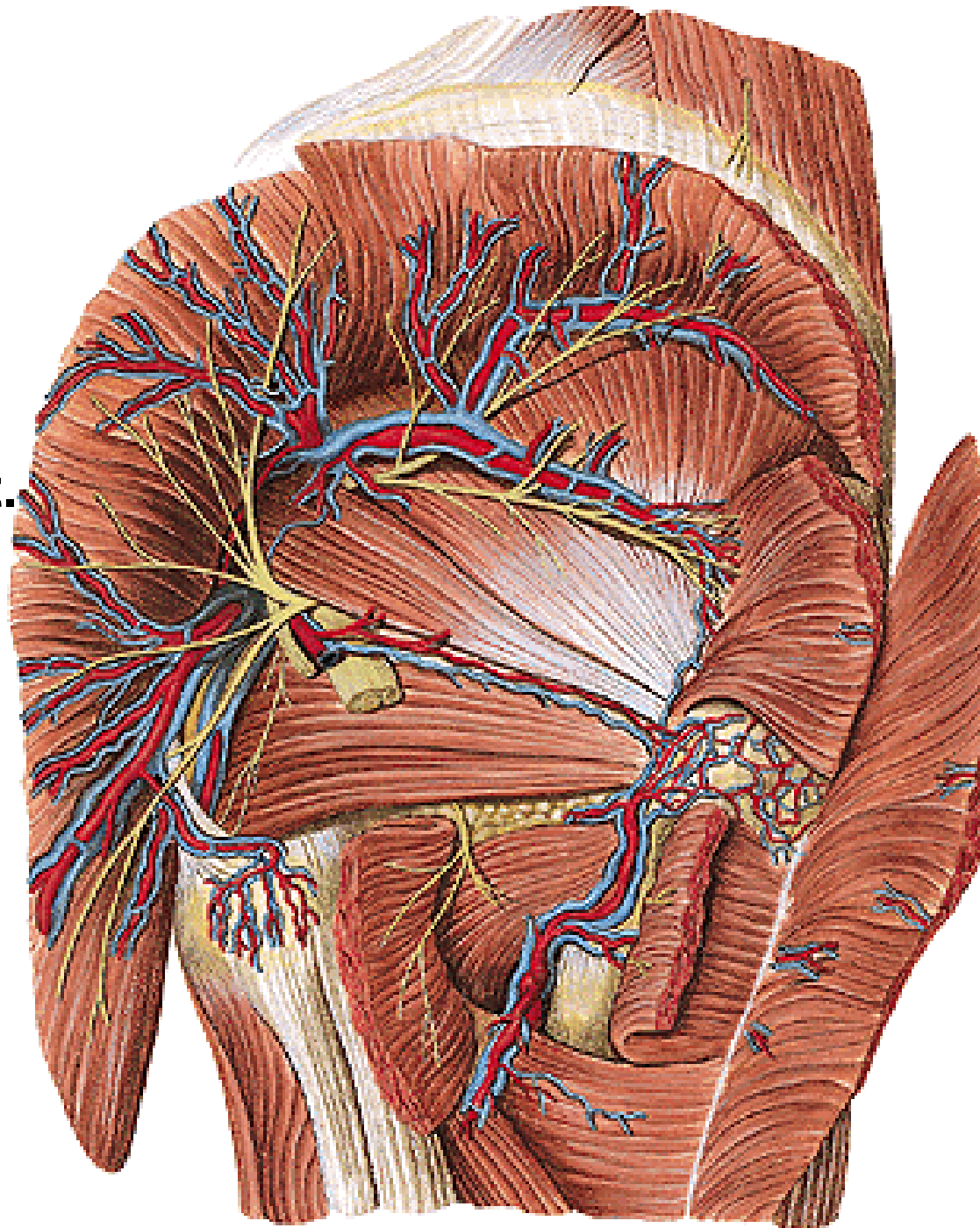
Nn. clunium inf. (N. cutaneus femoris post.)

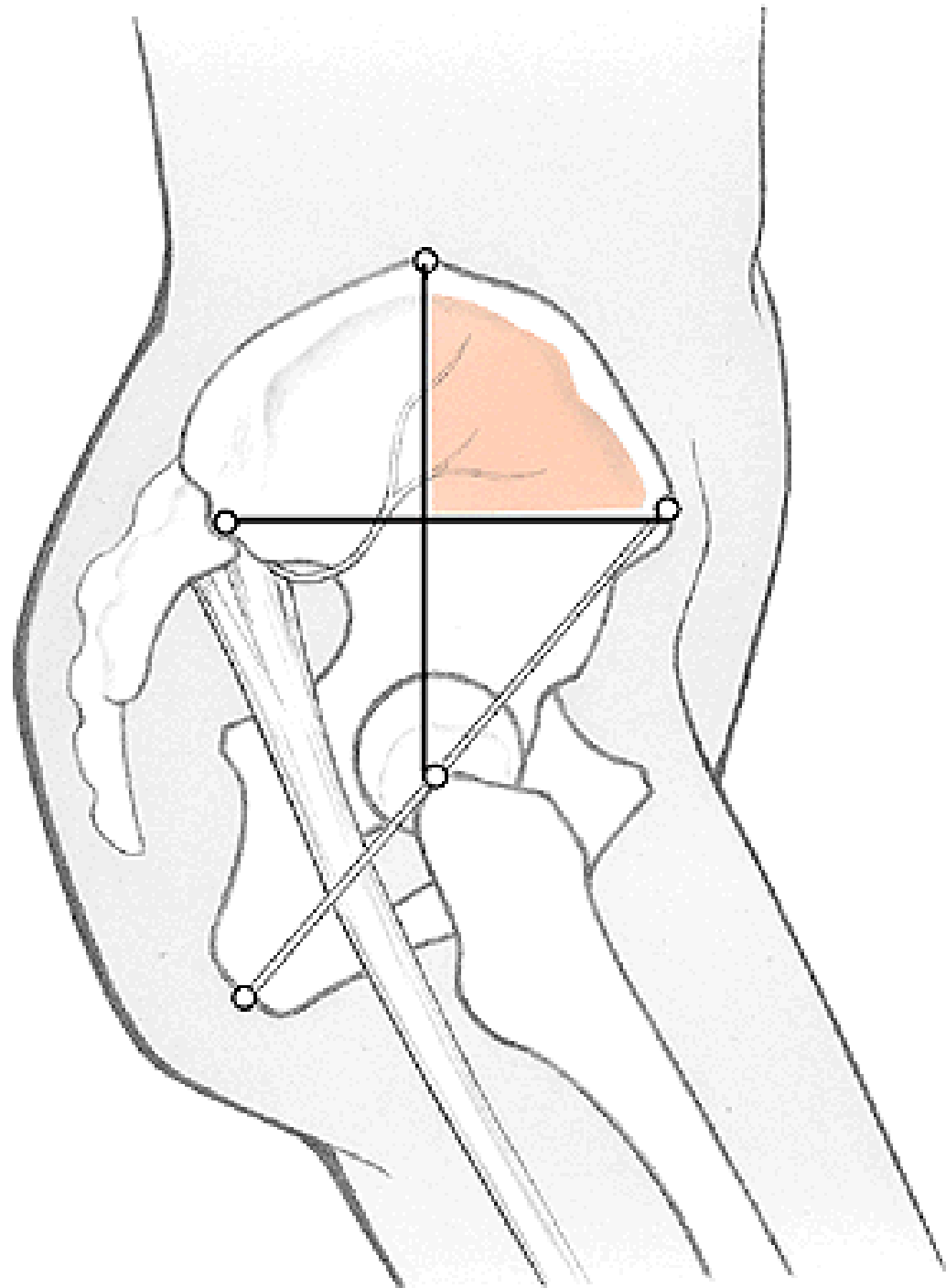
M. gluteus maximus



**For. suprapiriforme:
Nn. et vasa glutea sup.**

**For. infrapiriforme:
Nn. et vasa glutea inf.
N. ischiadicus
N. cutaneus femoris post.
N. pudendus
Vasa pudenda interna**





REGIO FEMORIS ANTERIOR

Rr. anteriores n. femoralis

N. cutaneus femoris lat.

N. genitofemoralis

N. obturatorius

A. femoralis – a. epigastrica spf.

– a. circumflexa ilium spf.

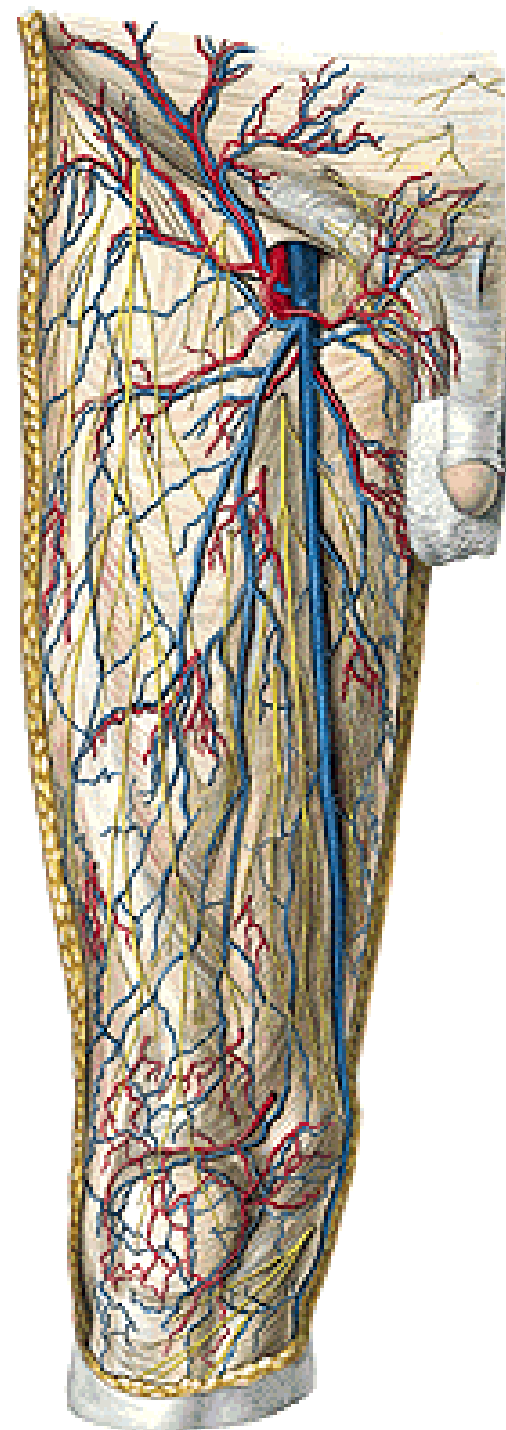
– aa. pudendae externae

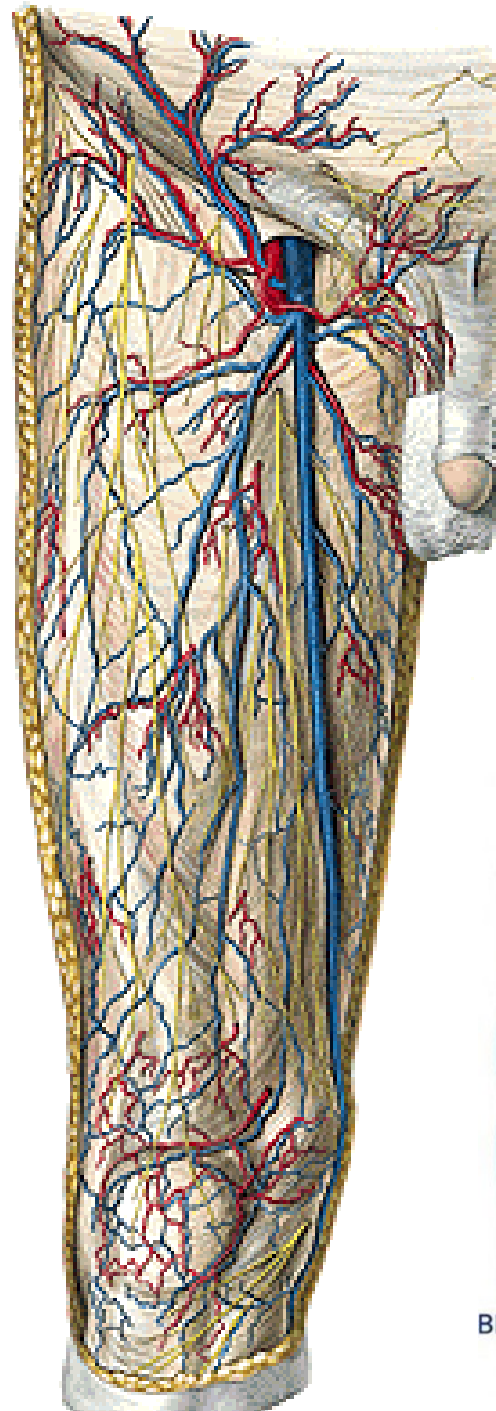
– rr. scrotales (labiales) ant.

V. saphena magna – v. saphena access.

lat. et med.

Fascia lata – hiatus saphenus





Normal One-Way Vein Valves

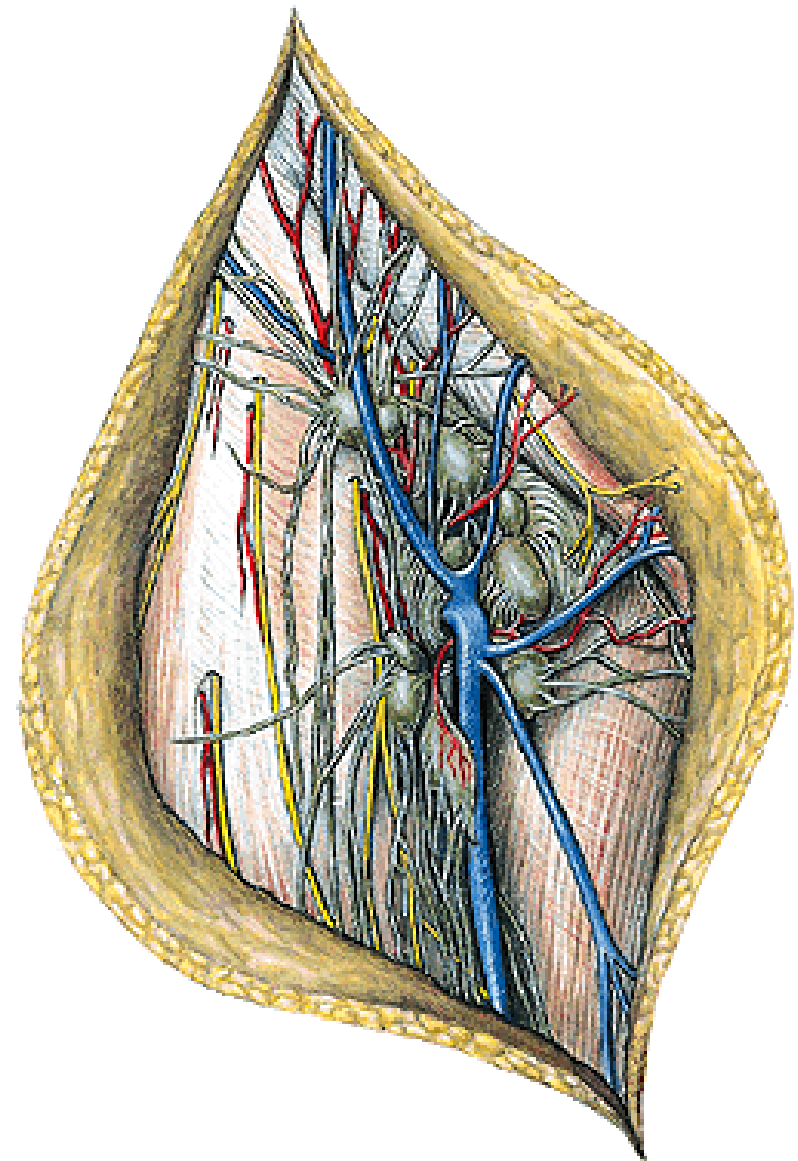
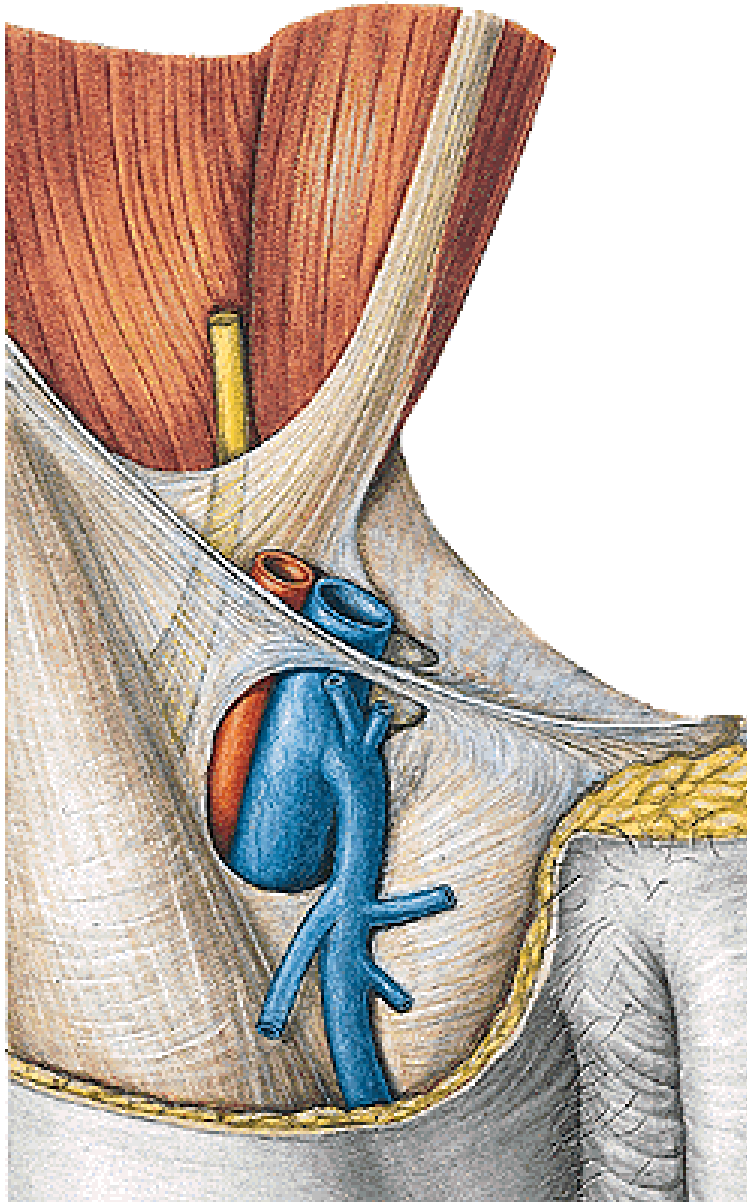


Blood flowing to heart



Healthy valve prevents reverse blood flow

Hiatus saphenus – margo falciformis



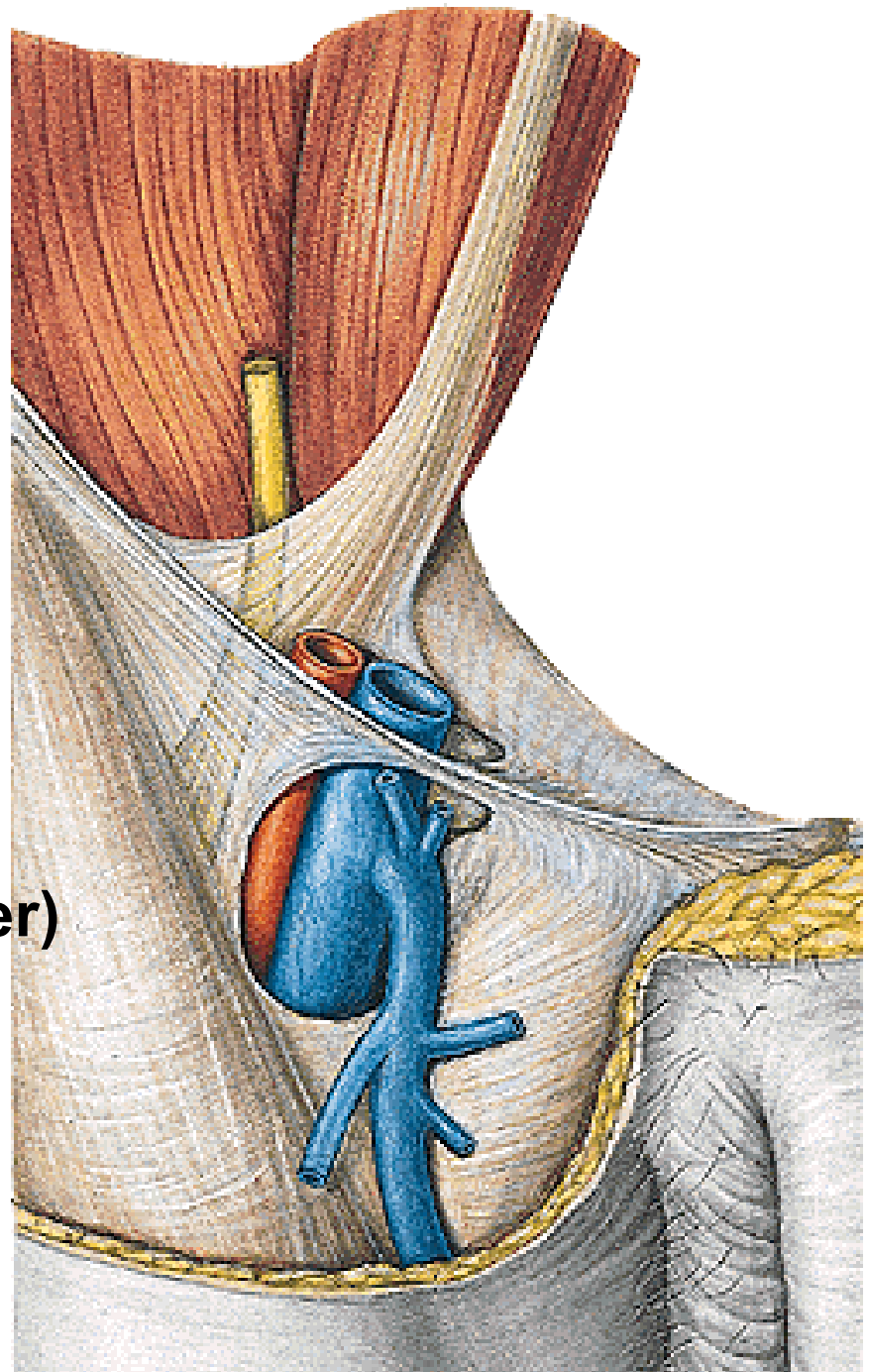
Nodi lymph. inguinales spf.
→ **nll. iliaci externi**

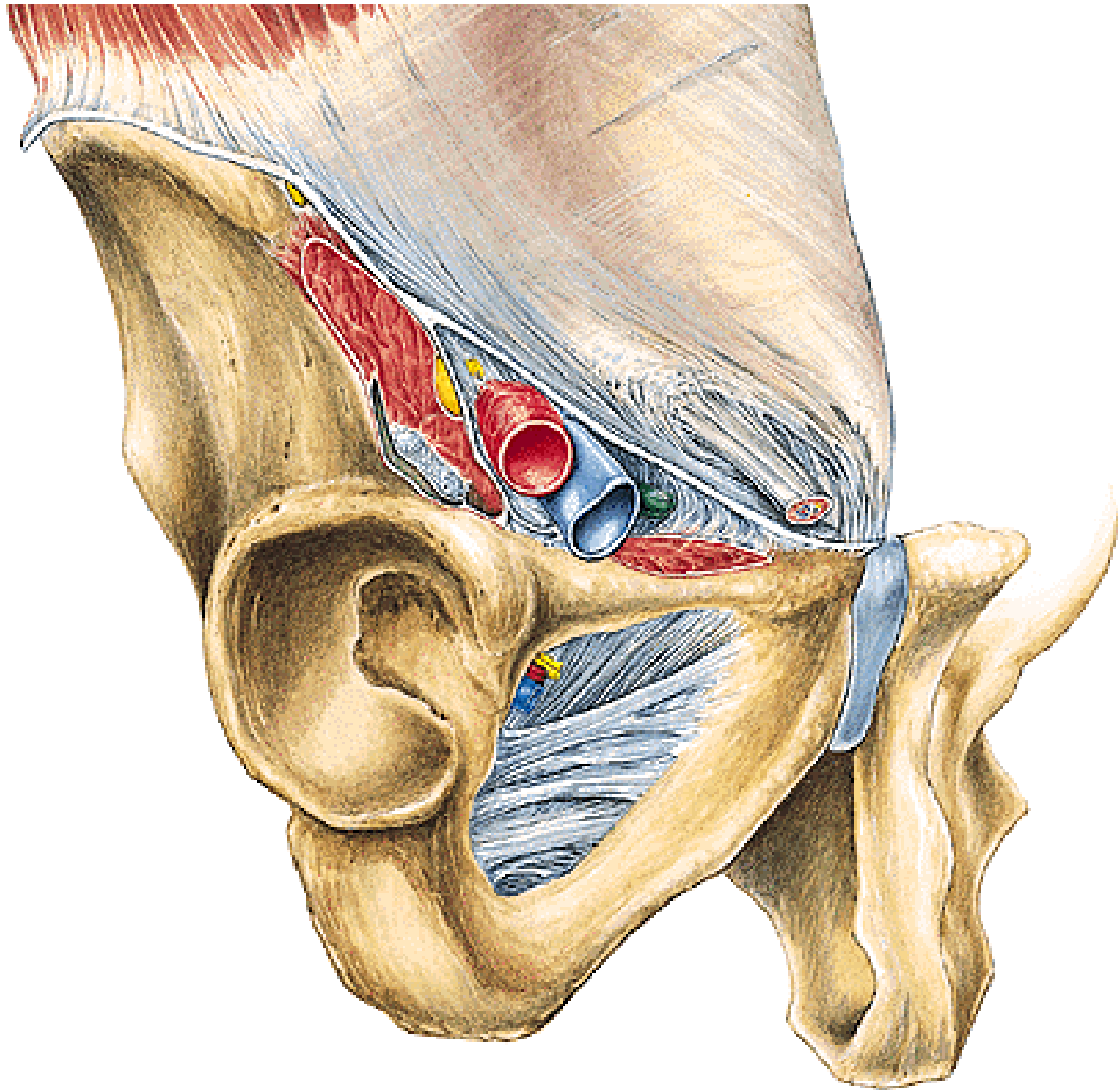
Lacuna musculorum
Lacuna vasorum

Arcus iliopectineus

Lig. inguinale
Lig. lacunare

Anulus (canalis) femoralis
- n. lymph. inguinalis prof.
(of Cloquet and Rosenmüller)





Fascia transversalis:

Anulus inguinalis prof.

Lig. interfoveolare

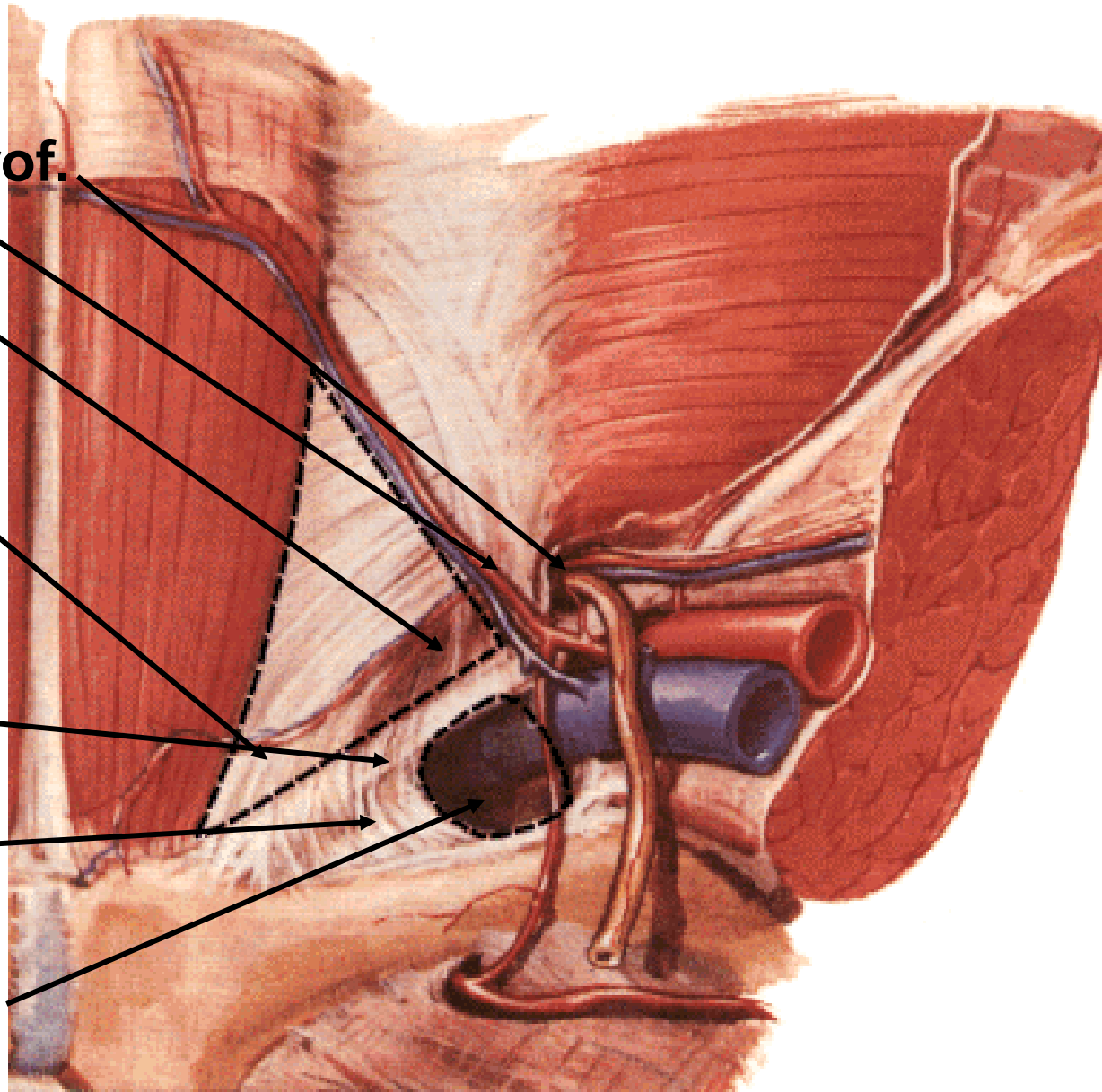
**Trigonum inguinale
(Hesselbachi)**

**Falx inguinalis
(conjoint tendon)**

Tractus iliopubicus

Lig. lacunare

Anulus femoralis

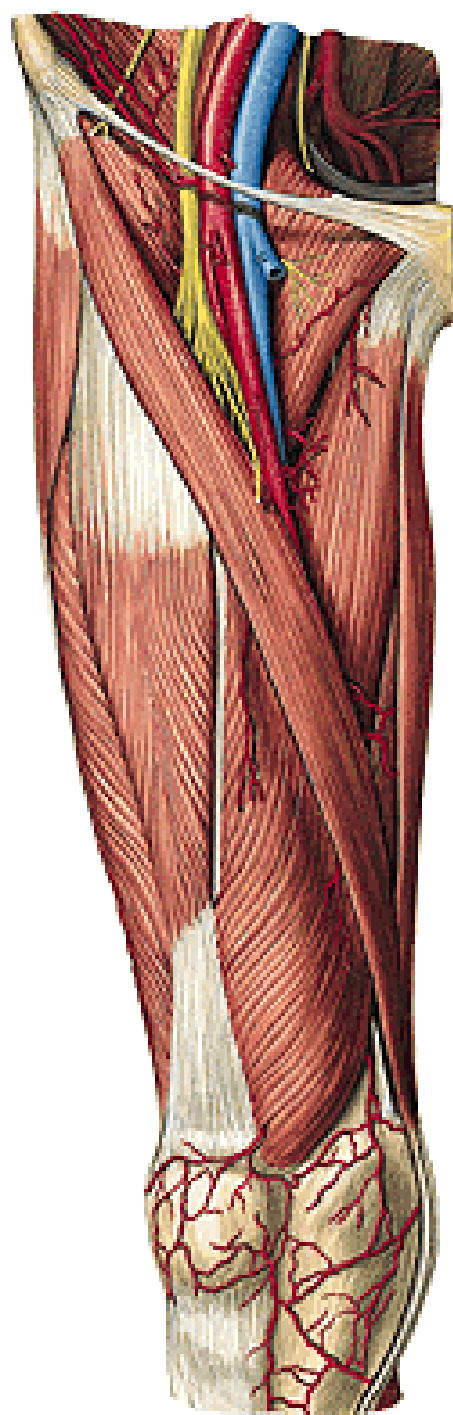


Trigonum femorale

- A. et v. femoralis
- N. femoralis

Fossa iliopectinea

- A. et v. femoralis prof.



Canalis adductorius
Lamina vastoadductoria
**Hiatus tendineus/
adductorius**

N. saphenus

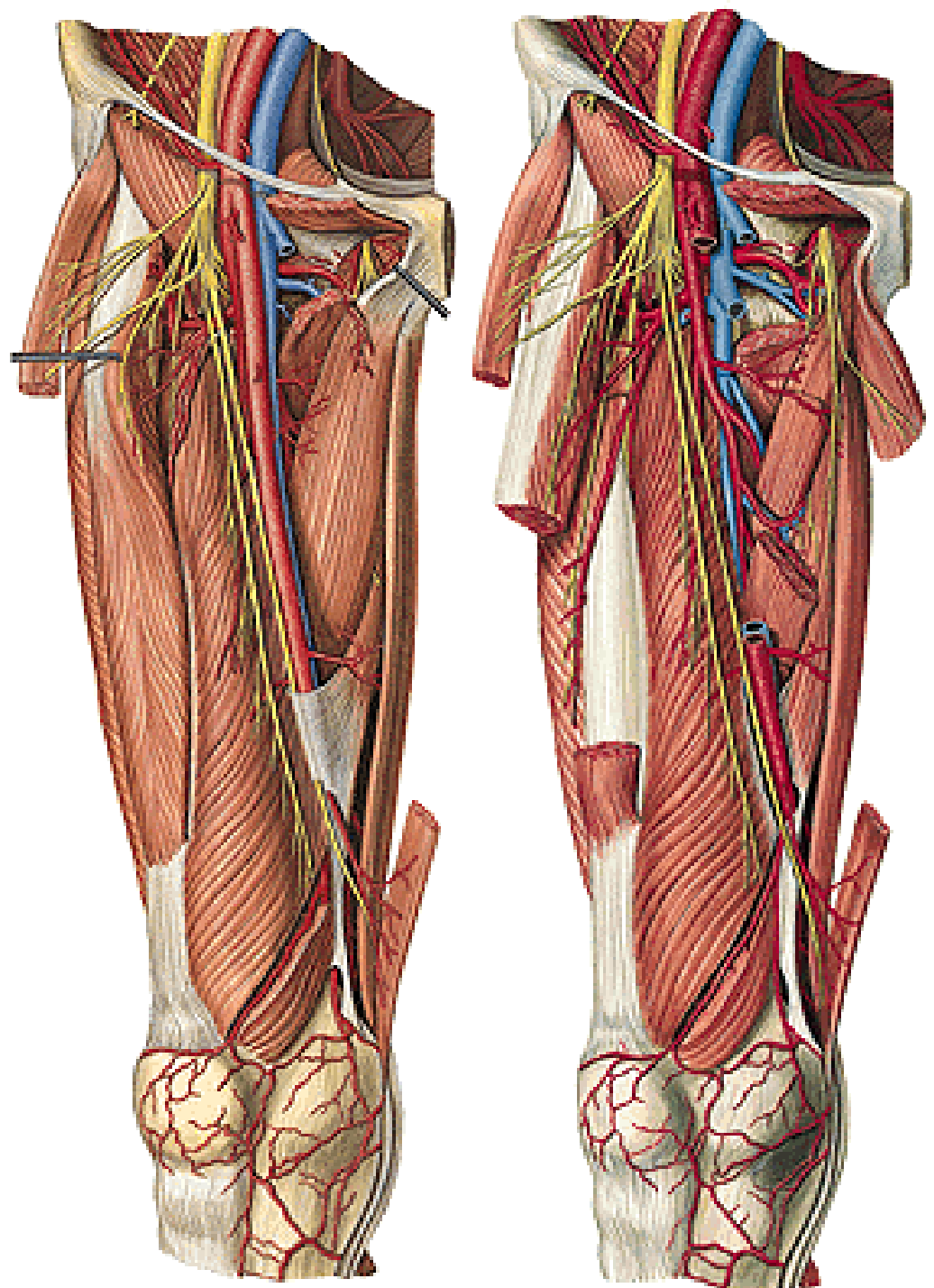
A. genus descendens

N. obturatorius

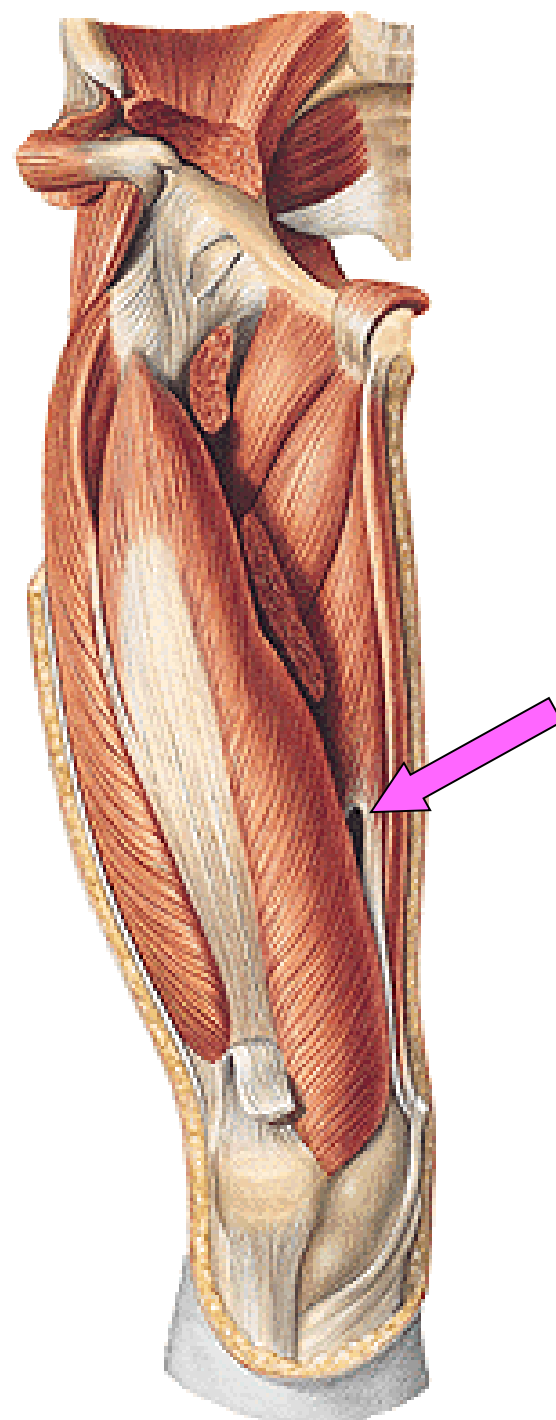
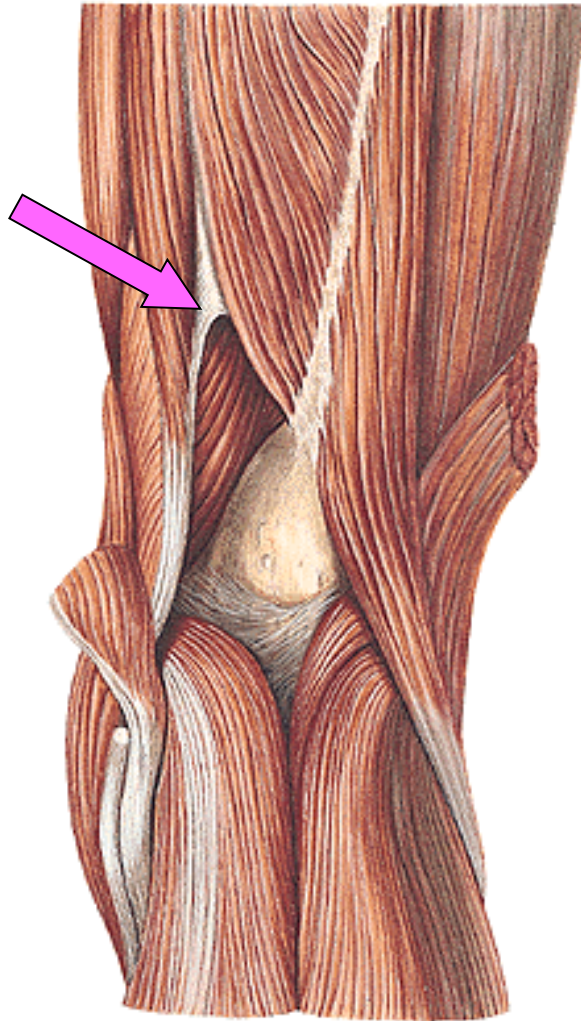
- r. anterior
- r. posterior

A. et v. obturatoria

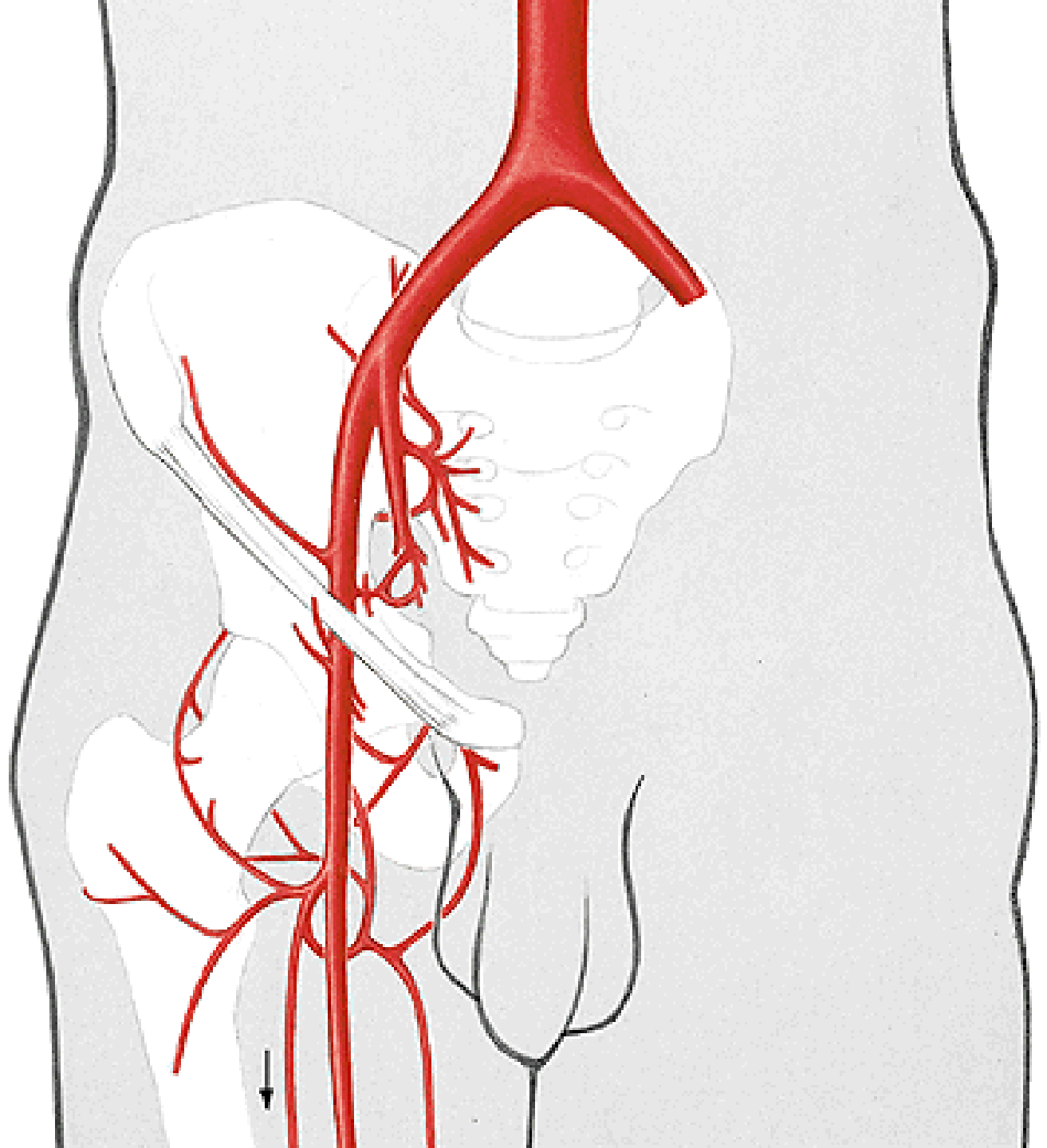
- r. anterior
- r. posterior
- r. acetabularis



Hiatus tendineus/adductorius (Hunter)



A. iliaca externa
A. femoralis



A. FEMORALIS:

A. profunda femoris

Rr. musculares

A. genus descendens

A. PROFUNDA FEMORIS:

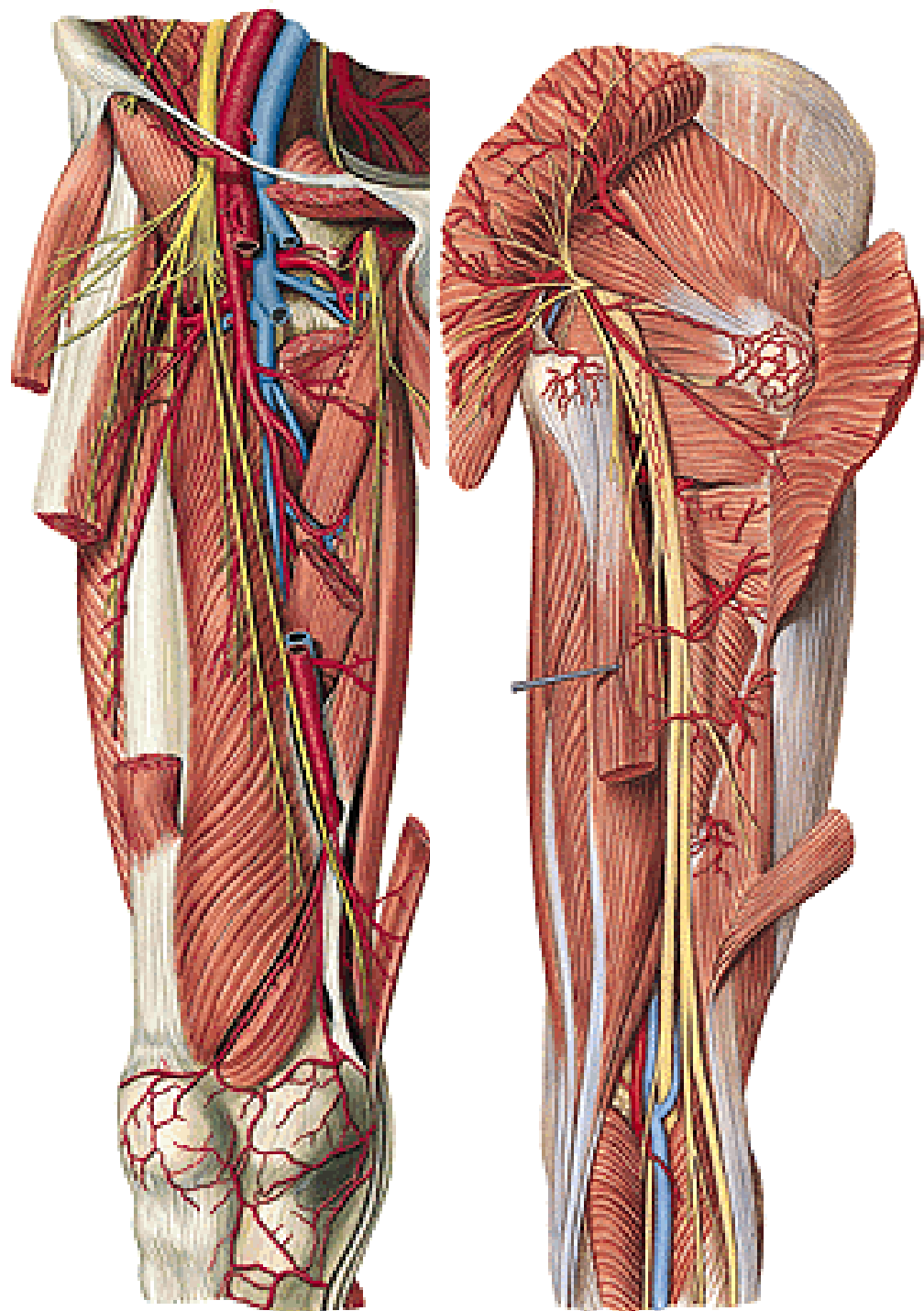
**A. circumflexa femoris
medialis**

A. circumflexa femoris lat.

A. perforans prima

A. perforans secunda

A. perforans tertia



REGIO FEMORIS POSTERIOR

REGIO FEMORIS POSTERIOR

N. cutaneus femoris post.

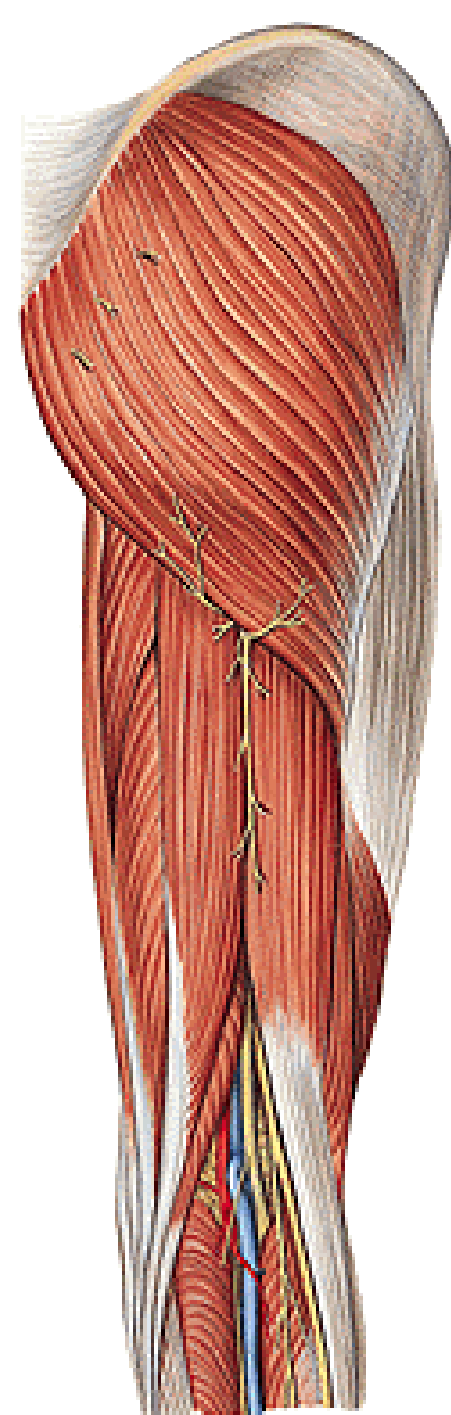
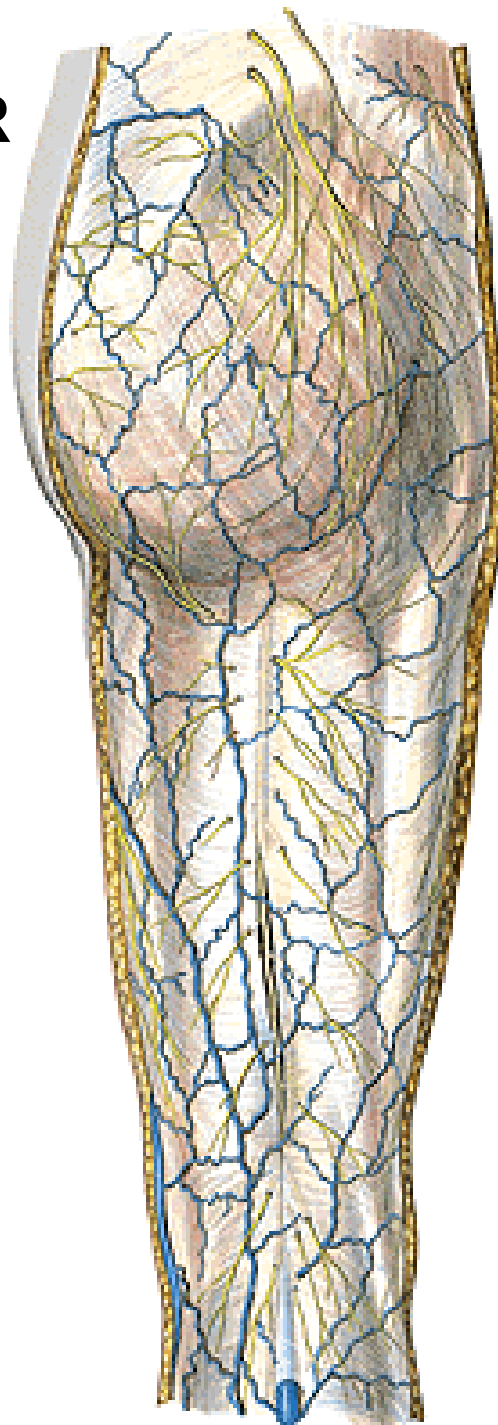
V. femoropoplitea

M. biceps

M. semitendinosus

M. semimembranosus

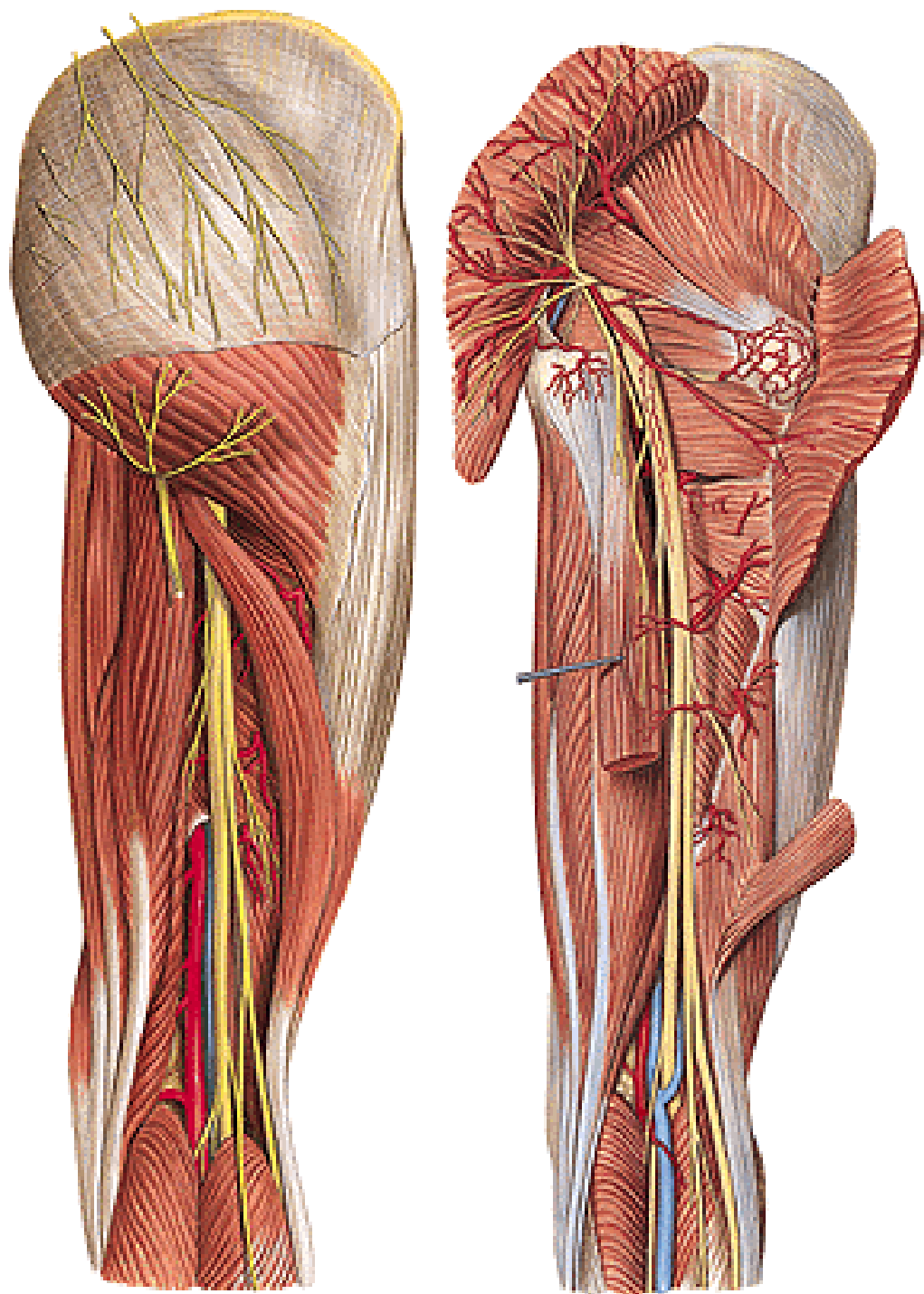
(hamstrings)



N. ischiadicus
– n. tibialis
– n. fibularis communis

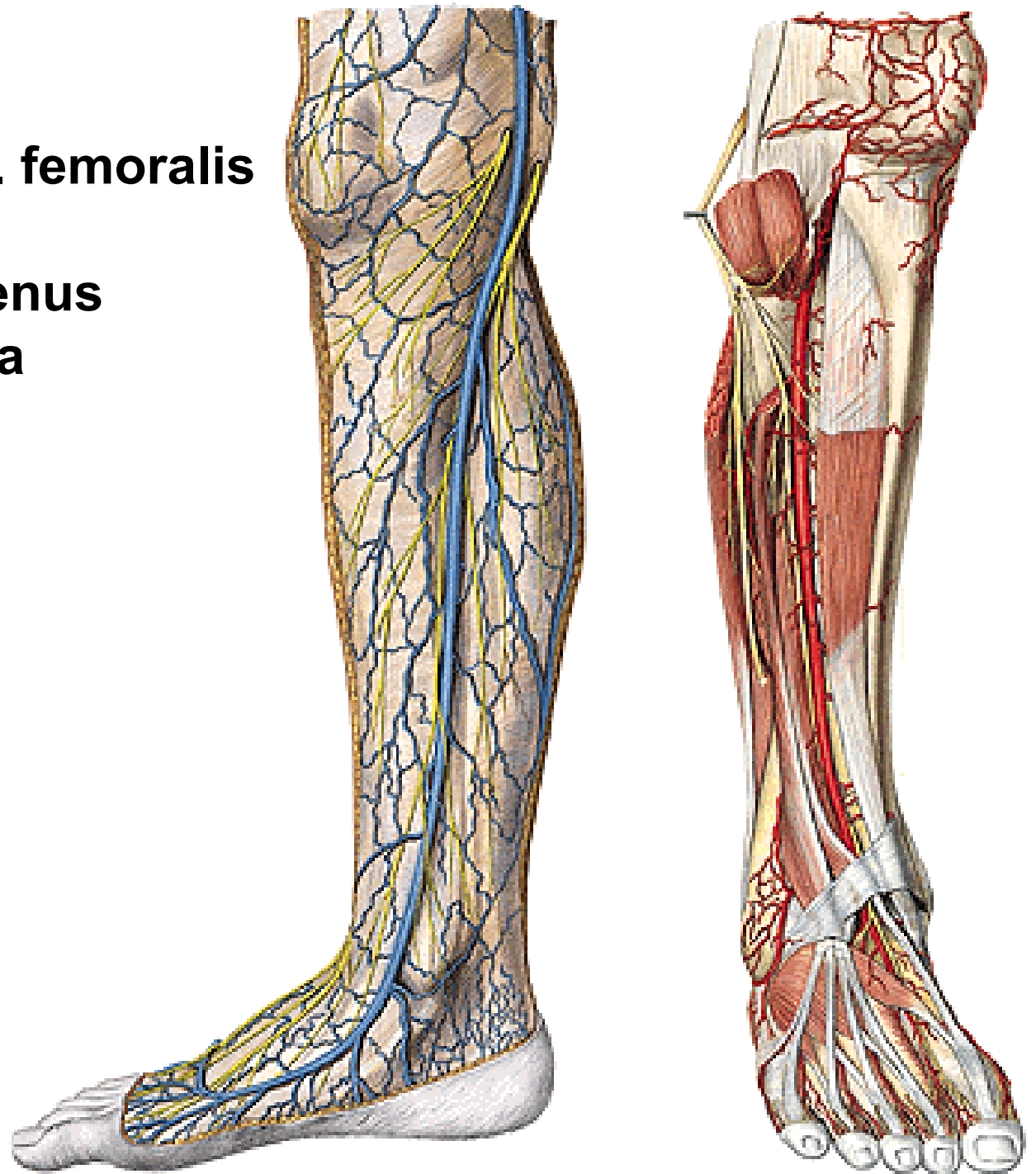
A. comitans n. ischiadici

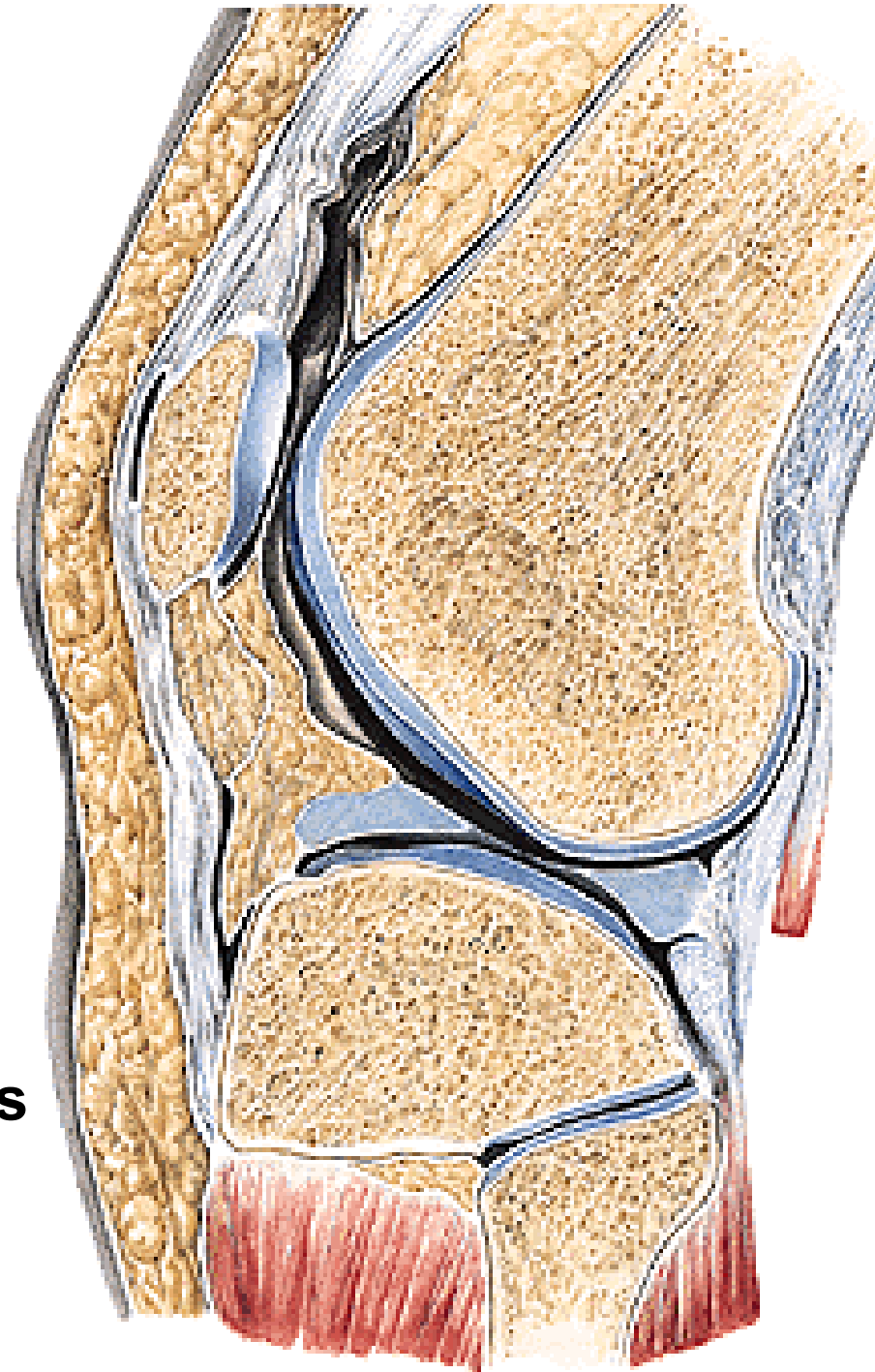
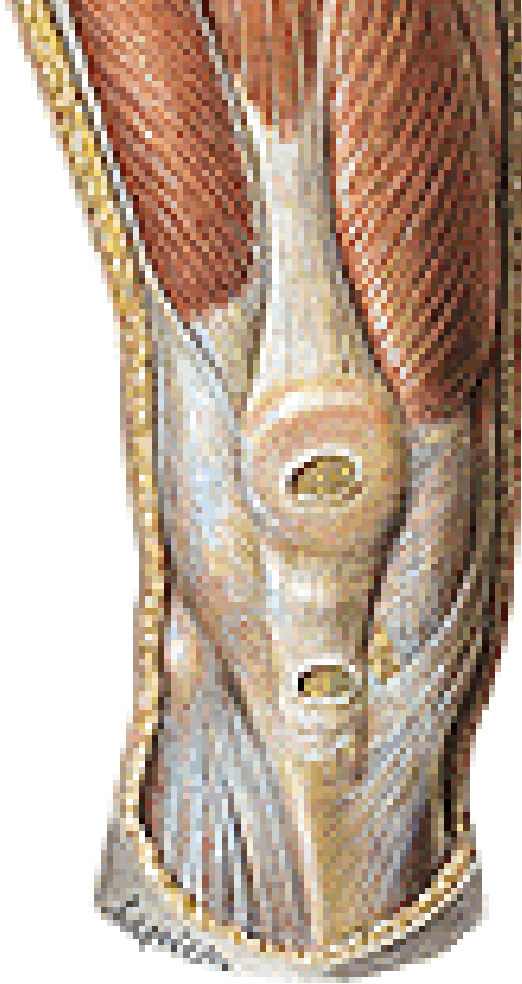
Aa. perforantes



REGIO GENUS ANTERIOR

Rr. cutanei ant. n. femoralis
R. infrapatellaris
Rete articulare genus
V. saphena magna





Bursa subcutanea prepatellaris
Bursa subcutanea infrapatellaris
Bursa infrapatellaris profunda
Bursa suprapatellaris

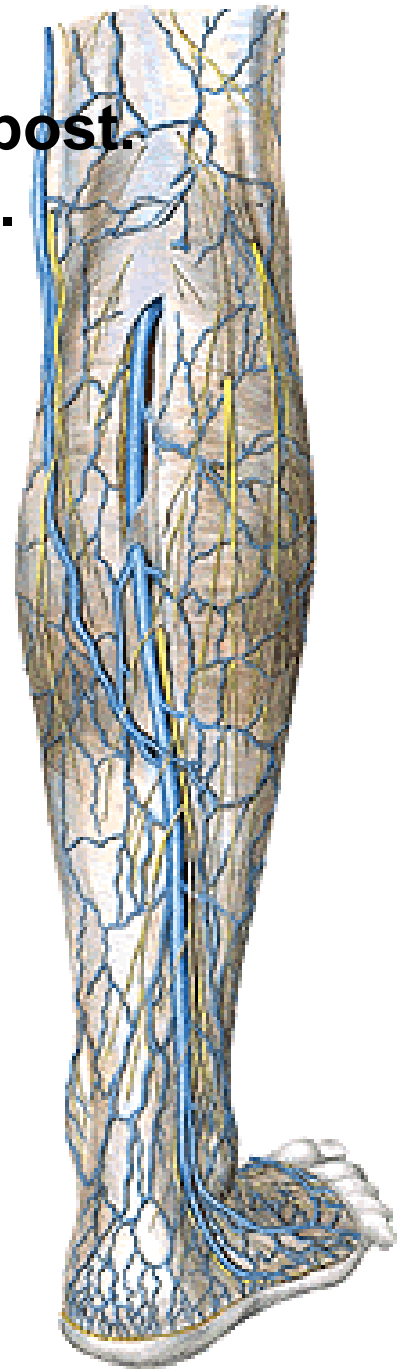
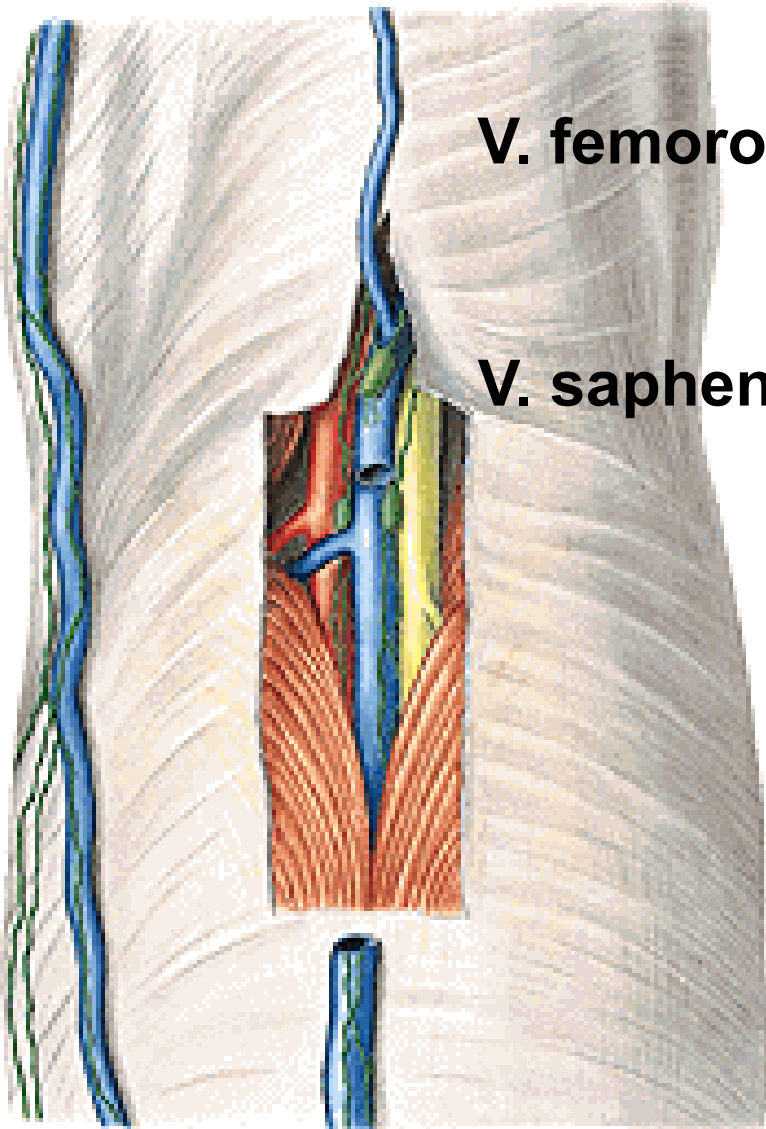
REGIO GENUS POSTERIOR

N. cutaneus femoris post.
N. cutaneus surae lat.

V. femoropoplitea

V. saphena parva

Nodi lymph. poplitei



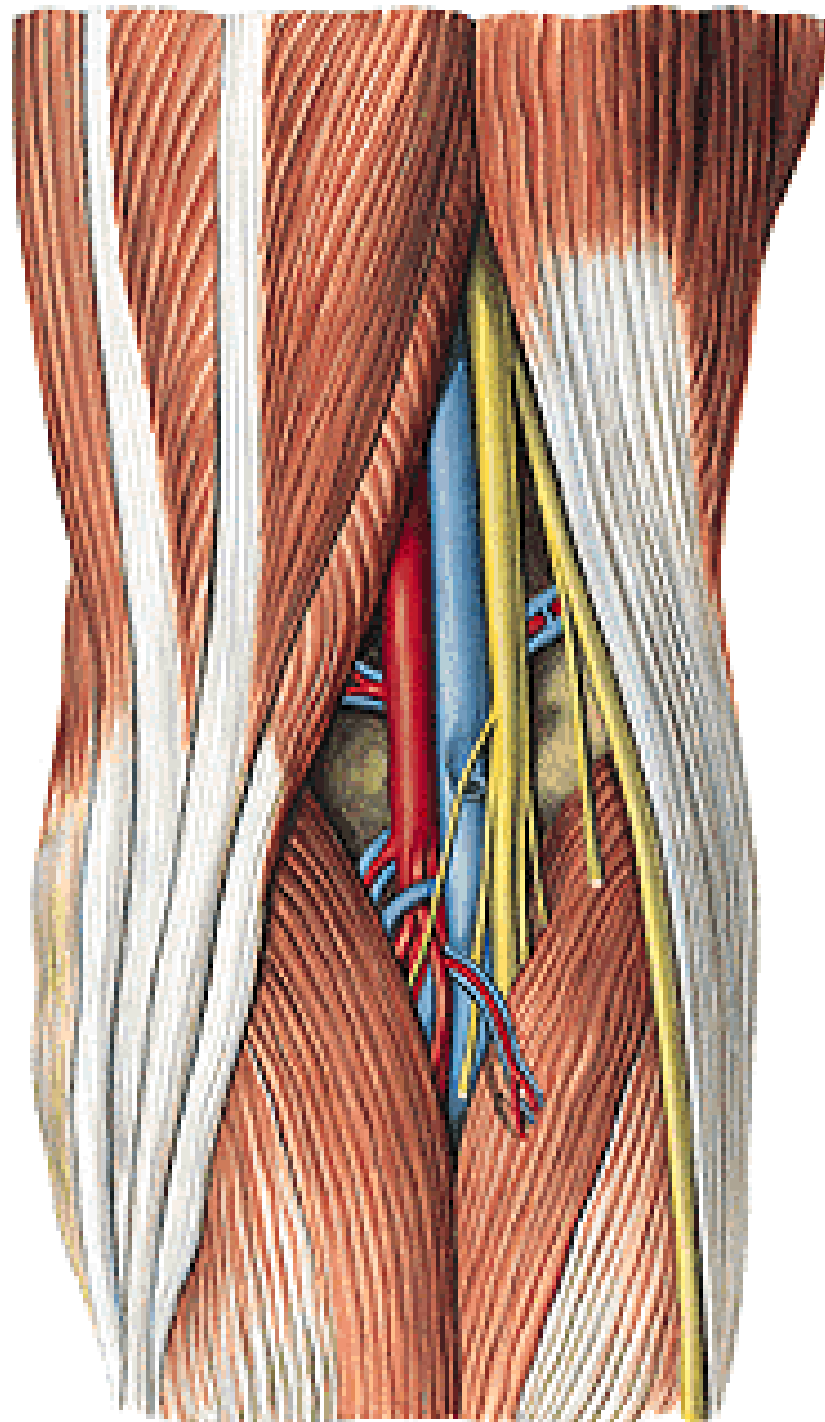
Fossa poplitea

A. poplitea

V. poplitea

N. tibialis

N. fibularis comm.



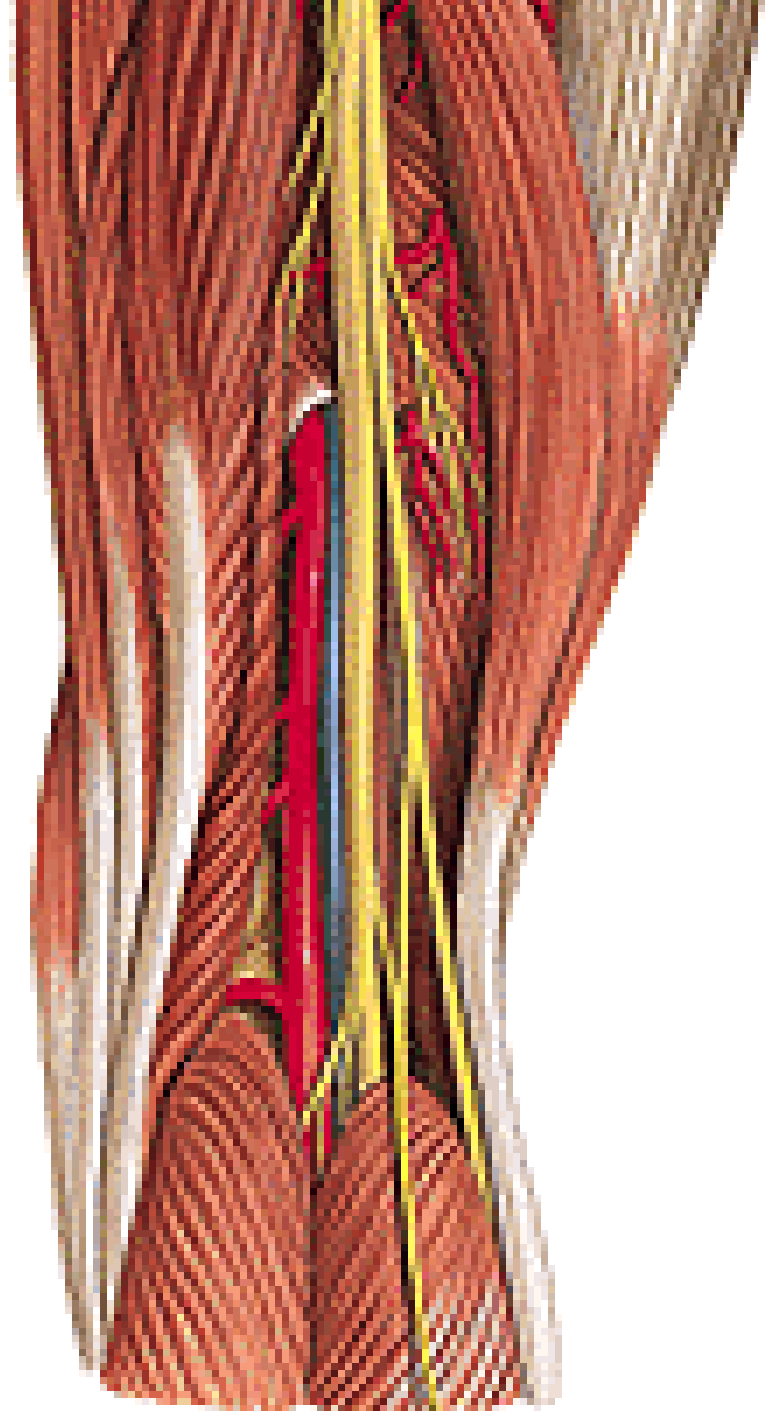
N. tibialis

- n. cutaneus surae med.

N. fibularis communis

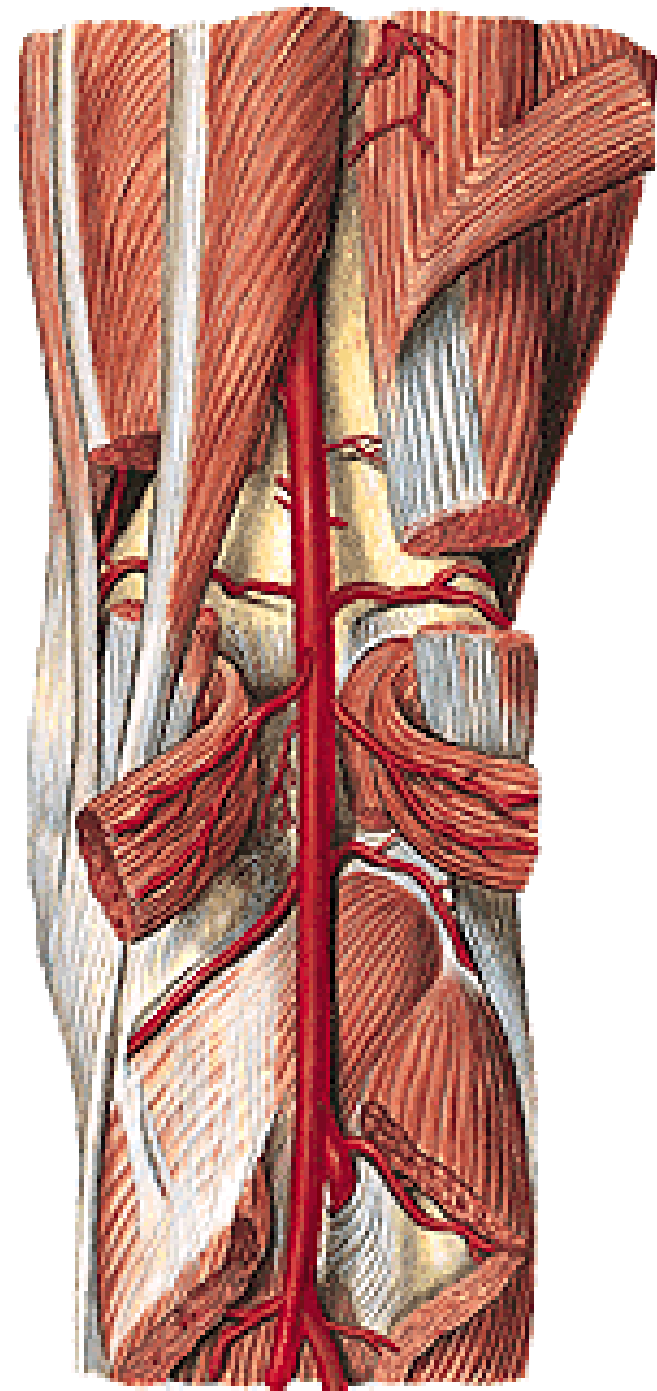
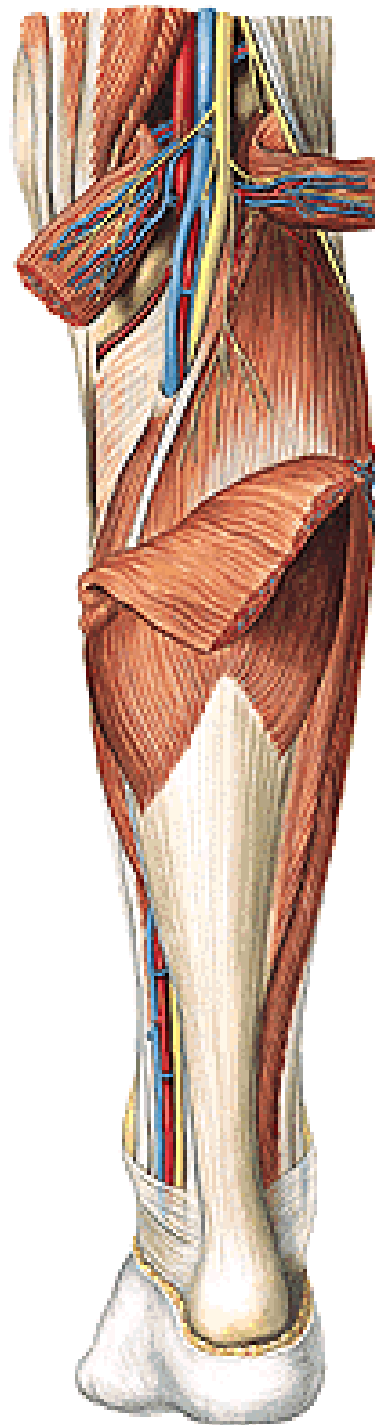
- n. cutaneus surae lat.
- r. communicans fibularis

→ n. suralis



A. poplitea

- aa. surales
- a. genus sup. med.
- a. genus sup. lat.
- a. genus media
- a. genus inf. med.
- a. genus inf. lat.
- a. tibialis post.
- a. tibialis ant.

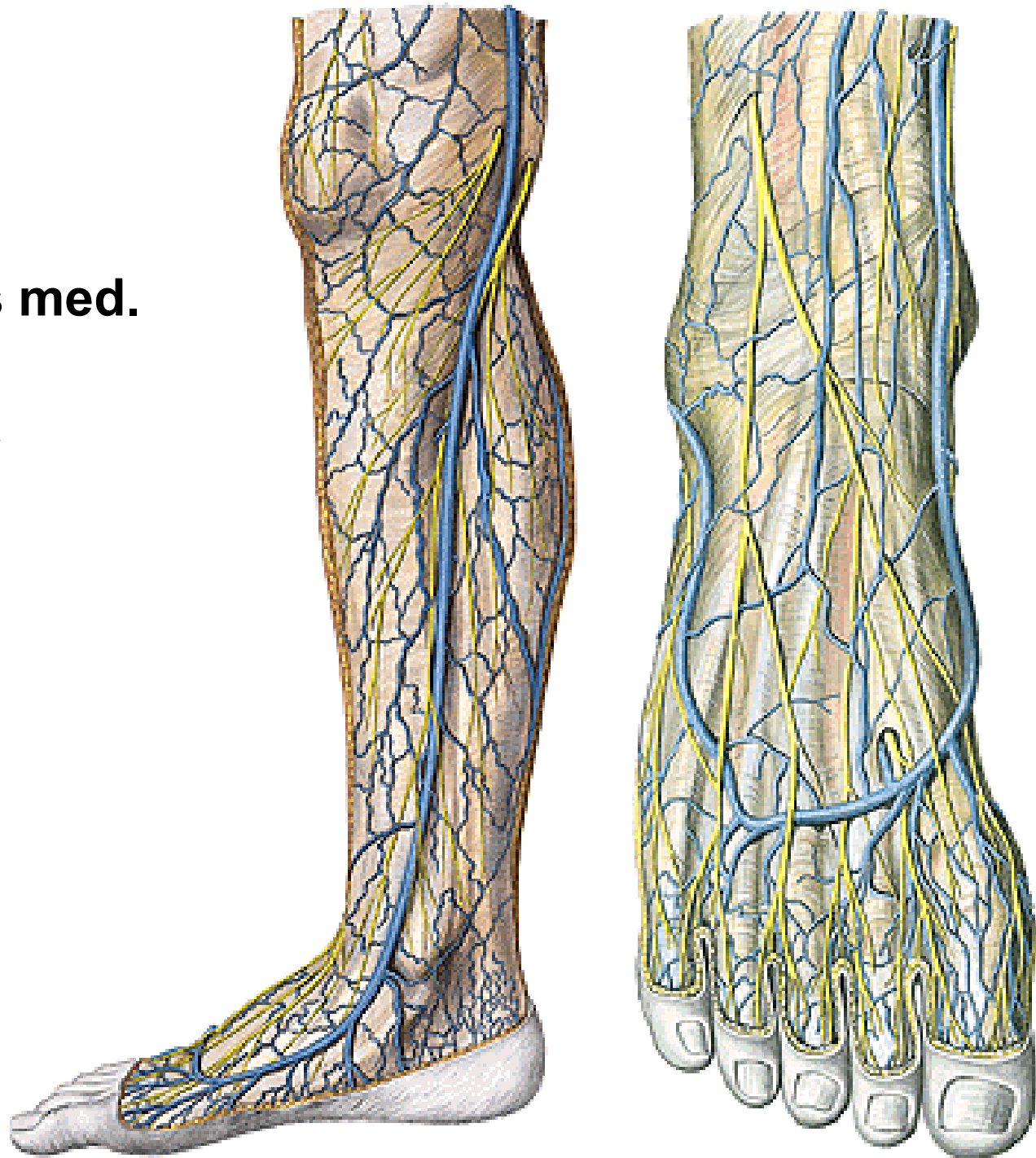


REGIO CRURIS ANTERIOR

N. saphenus
- r. infrapatellaris
- rr. cutanei cruris med.

V. saphena magna

N. fibularis spf.

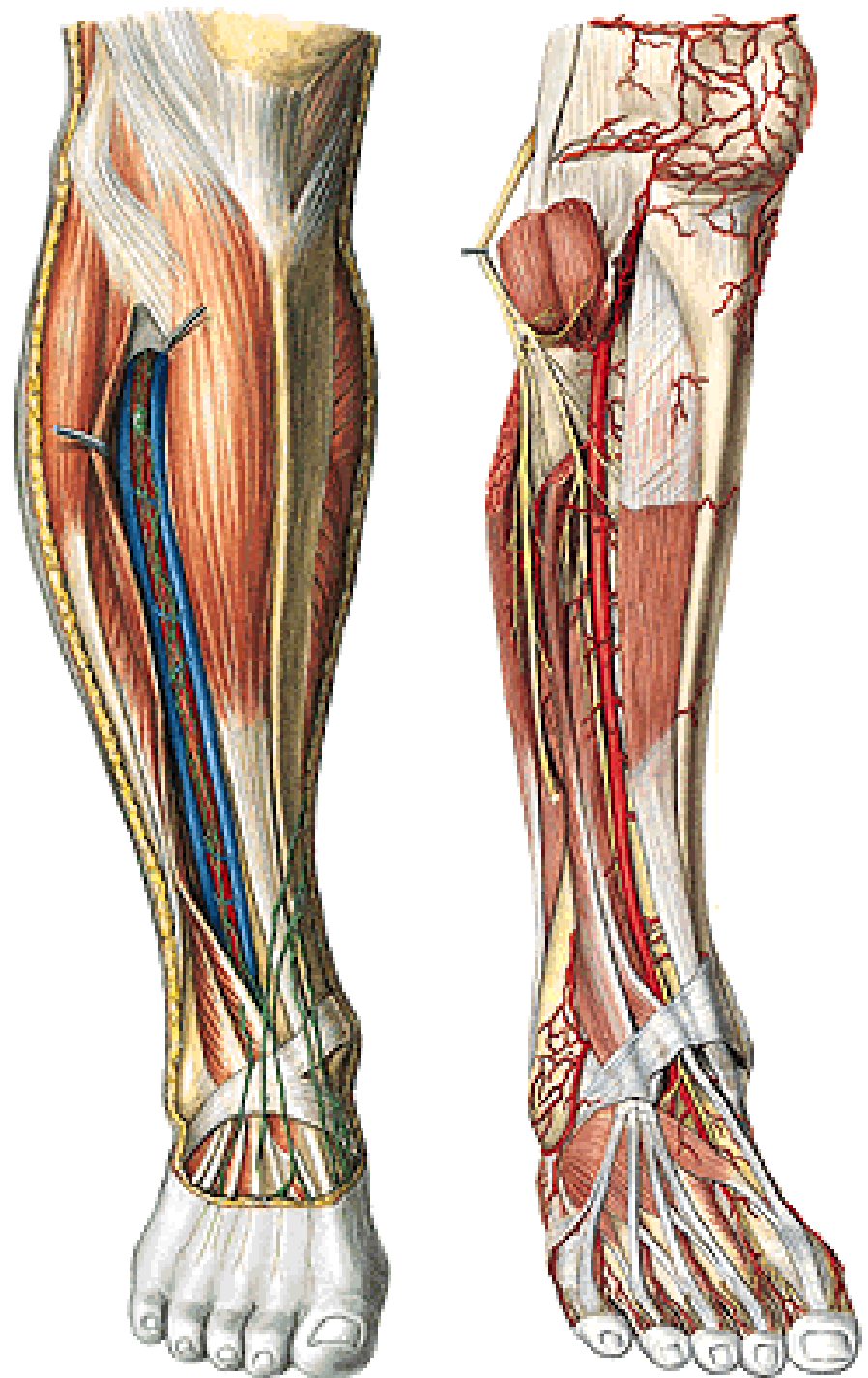


N. fibularis comm.

- n. fibularis prof.
- n. fibularis spf.

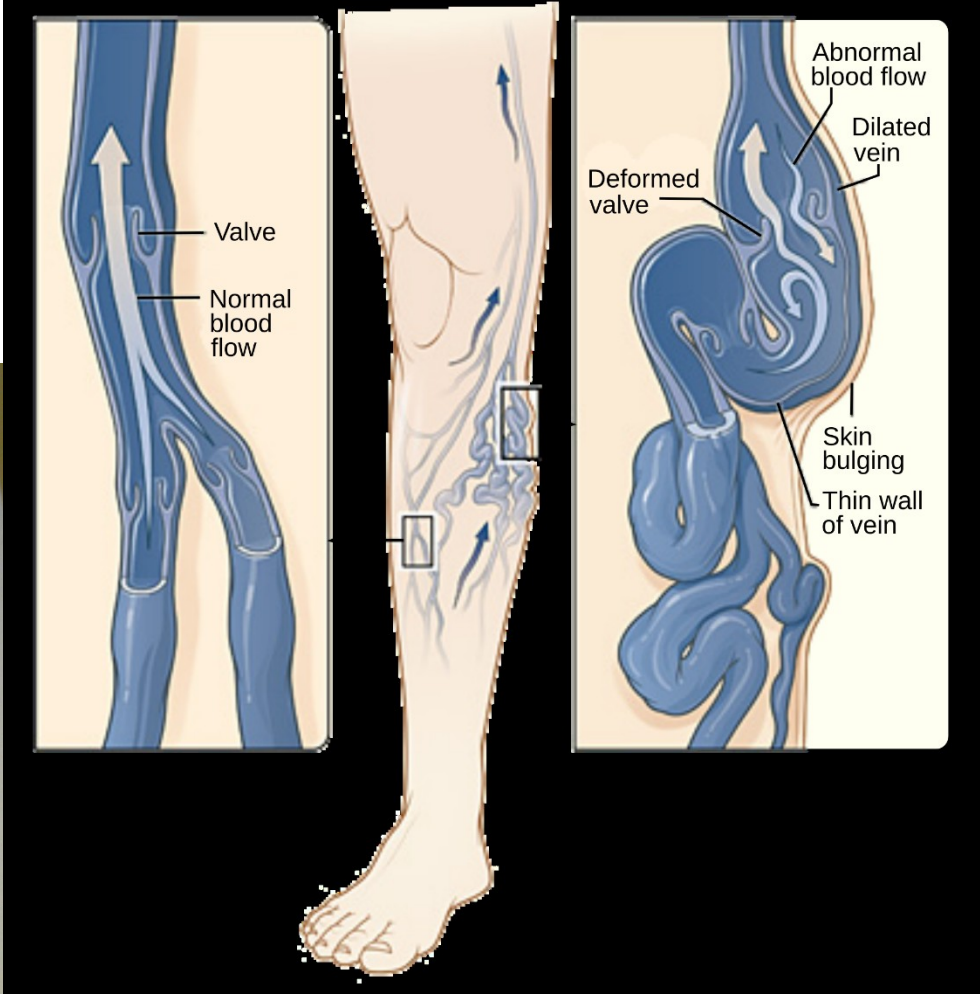
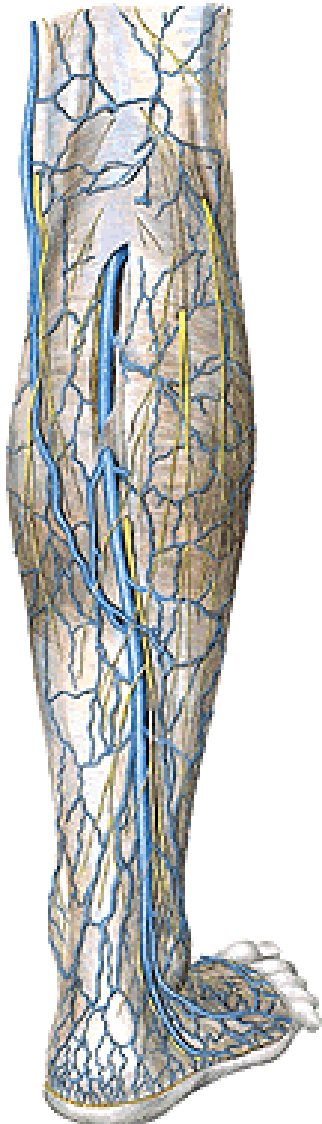
A. tibialis ant.:

- a. recurrens tibialis post.
- a. recurrens tibialis ant.
- rr. musculares
- a. malleolaris ant. med.
- a. malleolaris ant. lat.
- a. dorsalis pedis



REGIO CRURIS POSTERIOR

V. saphena parva
N. suralis
N. cutaneus surae lat.



vv. perforantes

A. tibialis post.

- rr. musculares
- r. circumflexus fibulae
- a. fibularis
- rr. malleolares med.
- rr. calcaneares
- a. plantaris med. et lat.

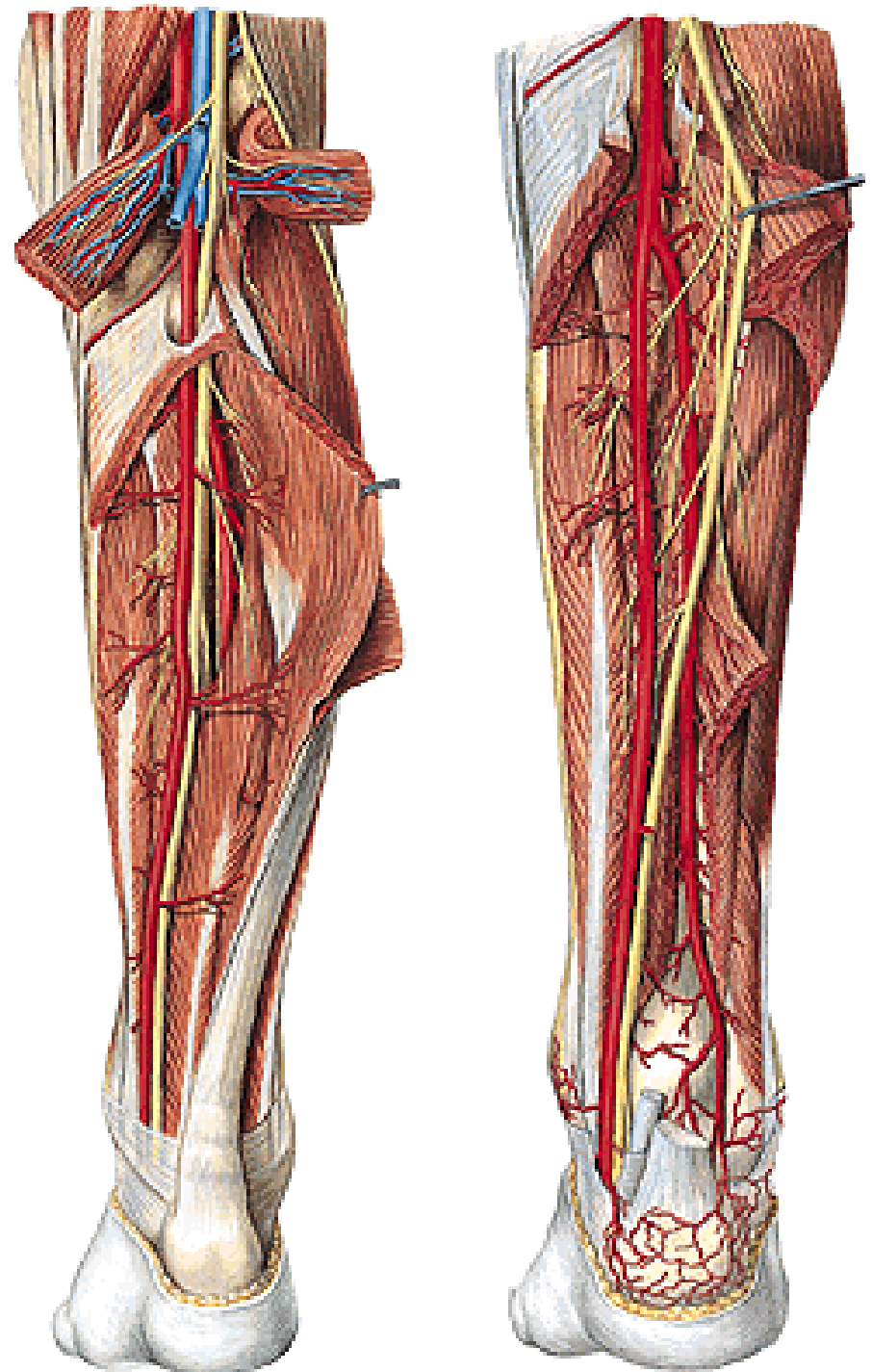
A. fibularis

(canalis musculofibularis)

- rr. musculares
- r. perforans
- rr. malleolares lat.
- rr. calcaneares

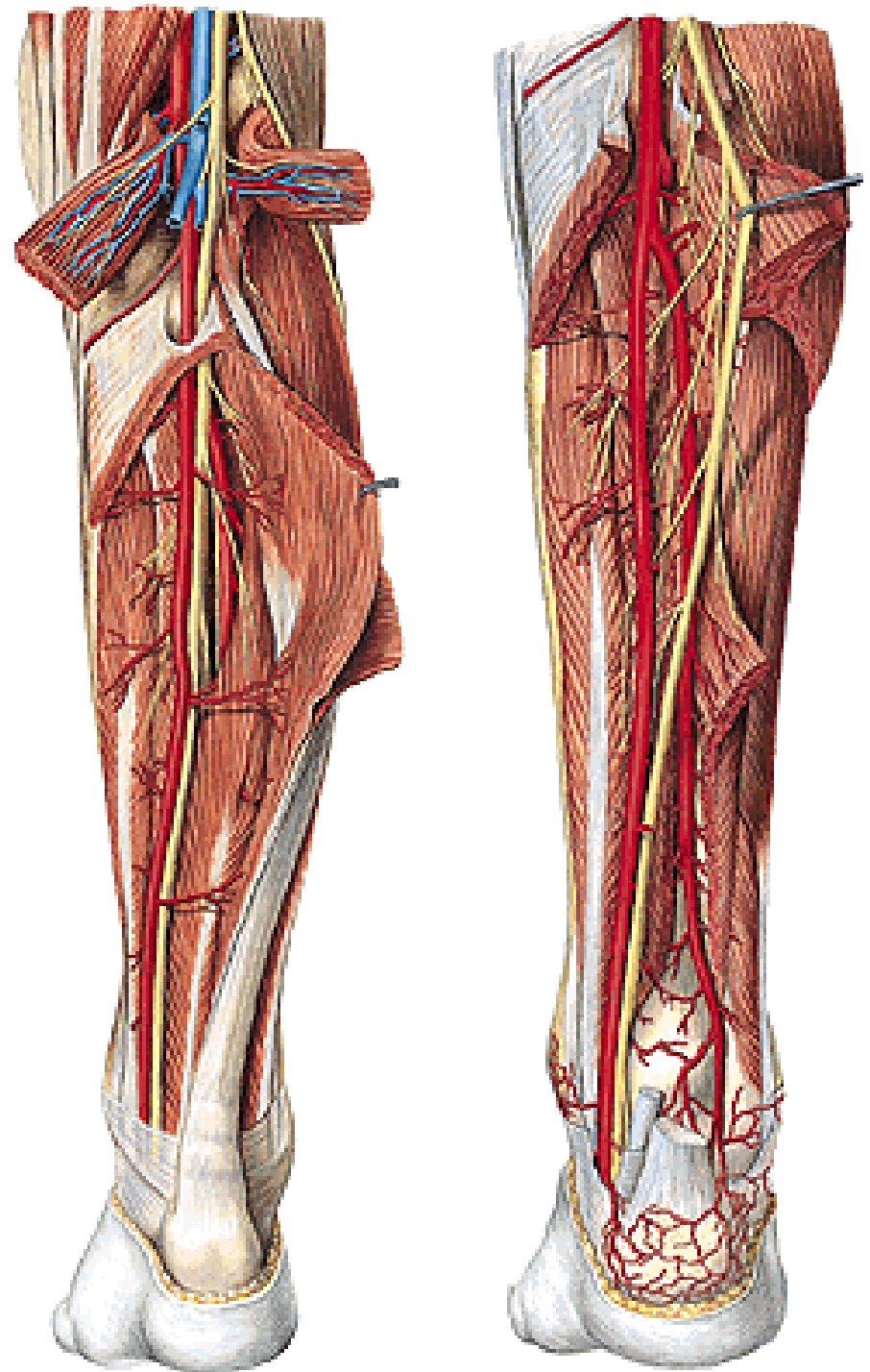
Rete malleolare med. et lat.

Rete calcaneare



N. tibialis

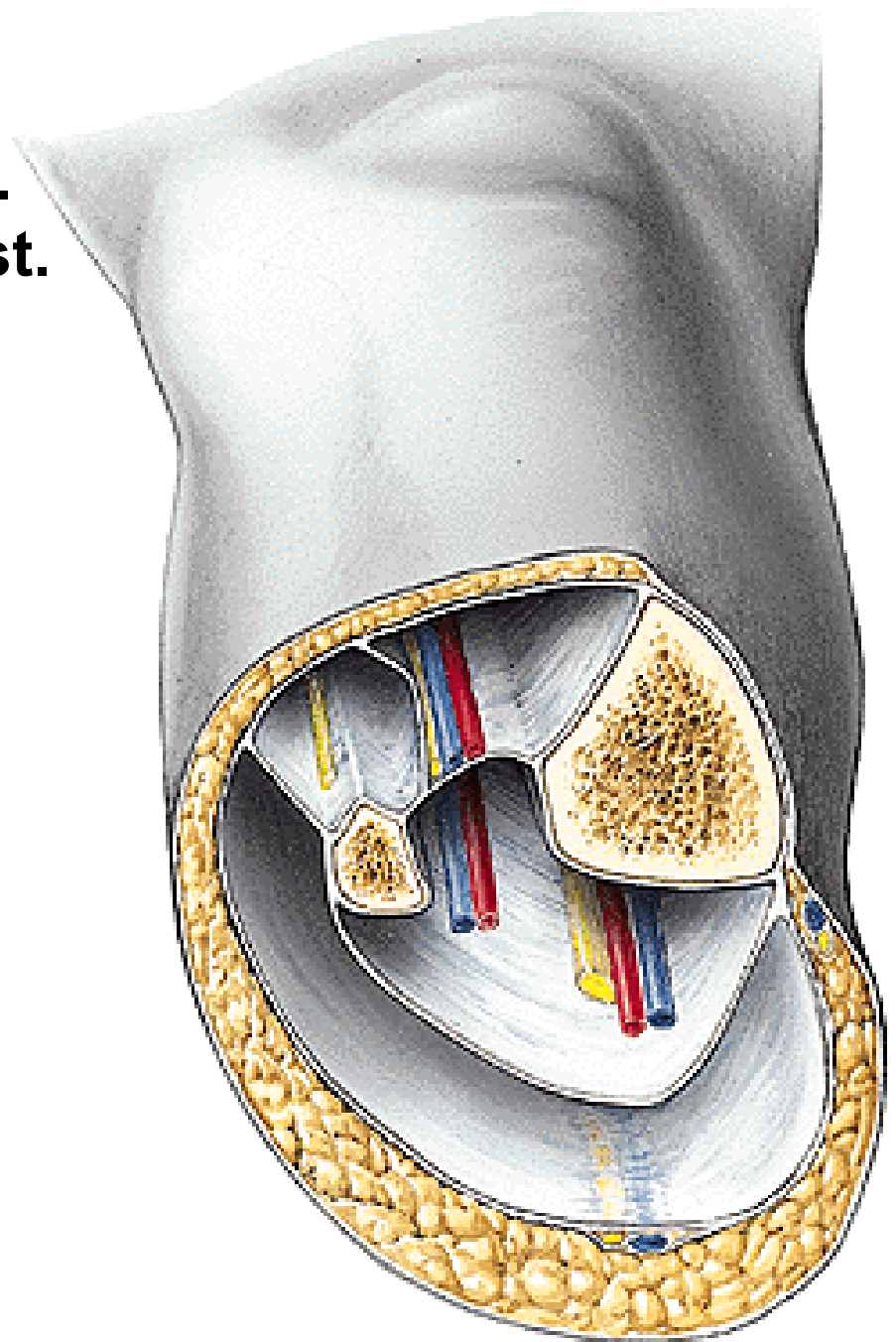
- rr. musculares
- n. interosseus cruris
- n. cutaneus surae med.
- rr. calcanei med.
- n. plantaris med. et lat.



Fascia cruris

Septum intermusculare ant.

Septum intermusculare post.

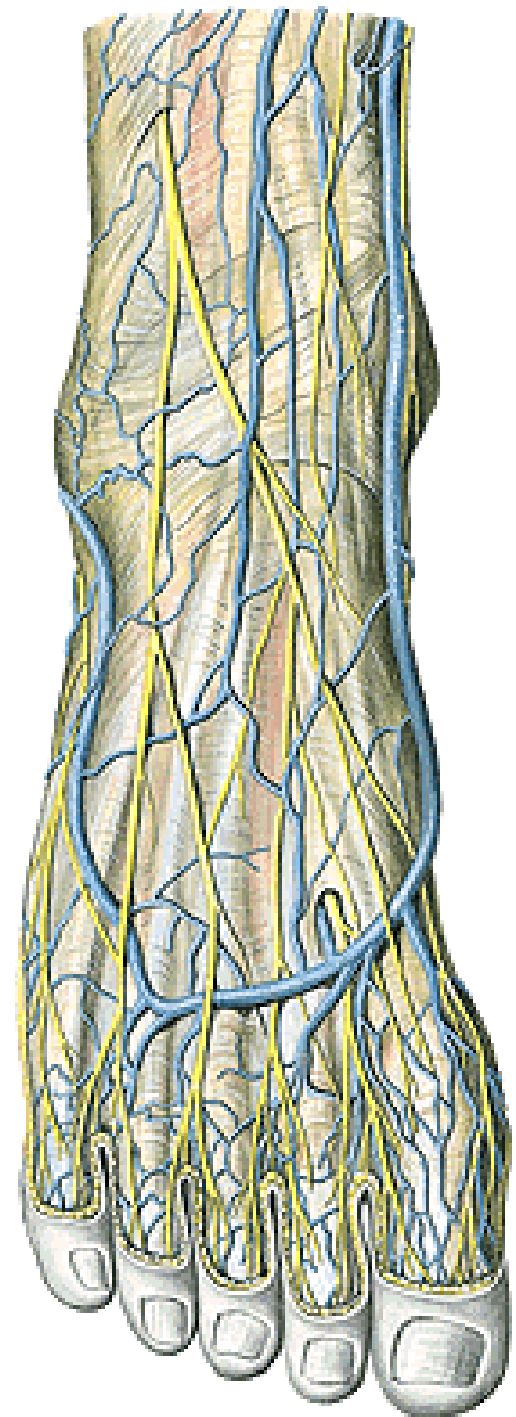


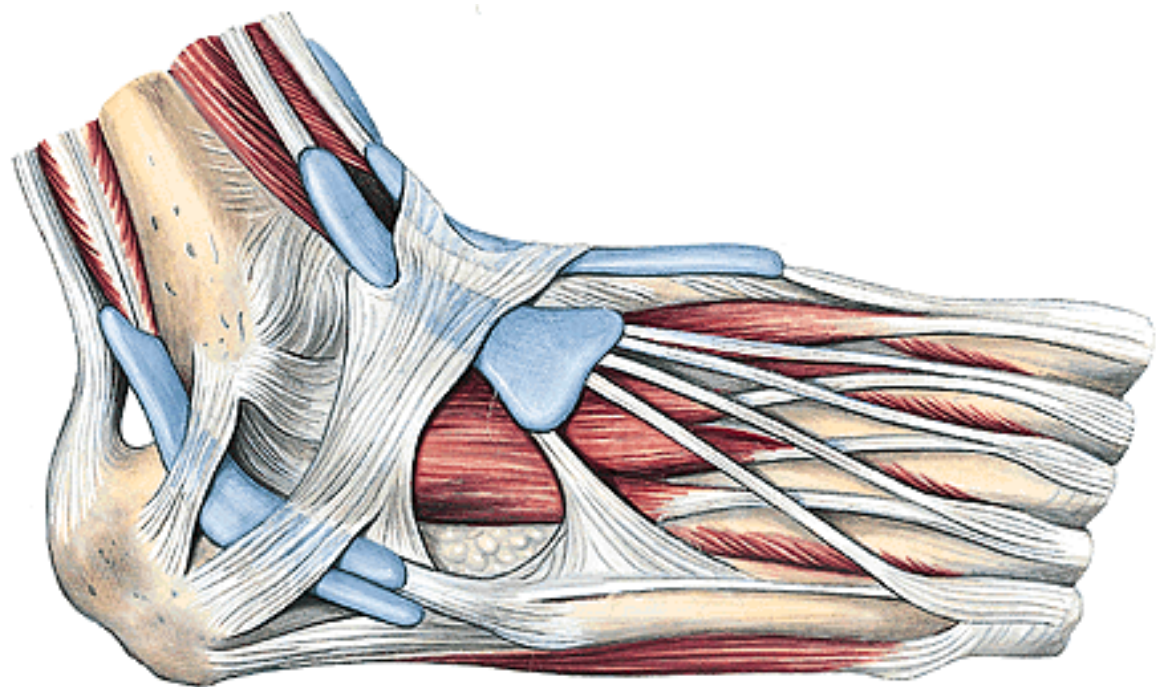
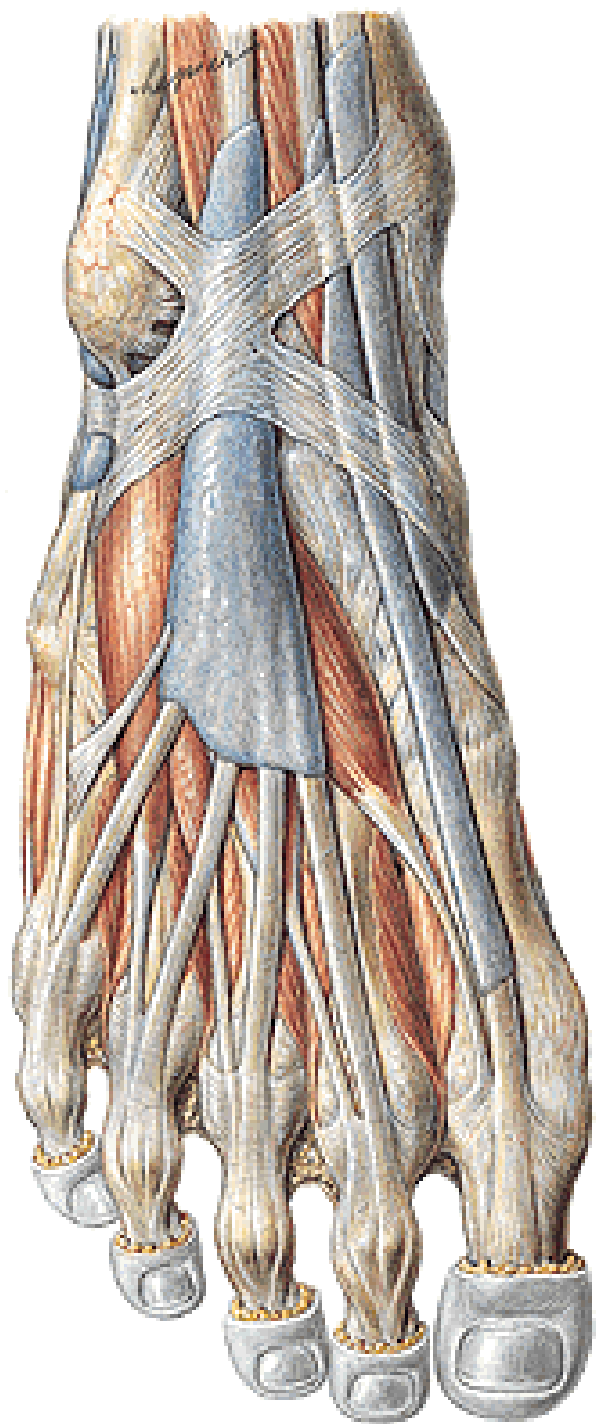
DORSUM PEDIS

Rete venosum dorsale pedis
- v. marginalis med. et lat.

N. cutaneus dorsalis medialis
et intermedius (n. fibularis spf.)

N. cutaneus dorsalis lat. (n. suralis)



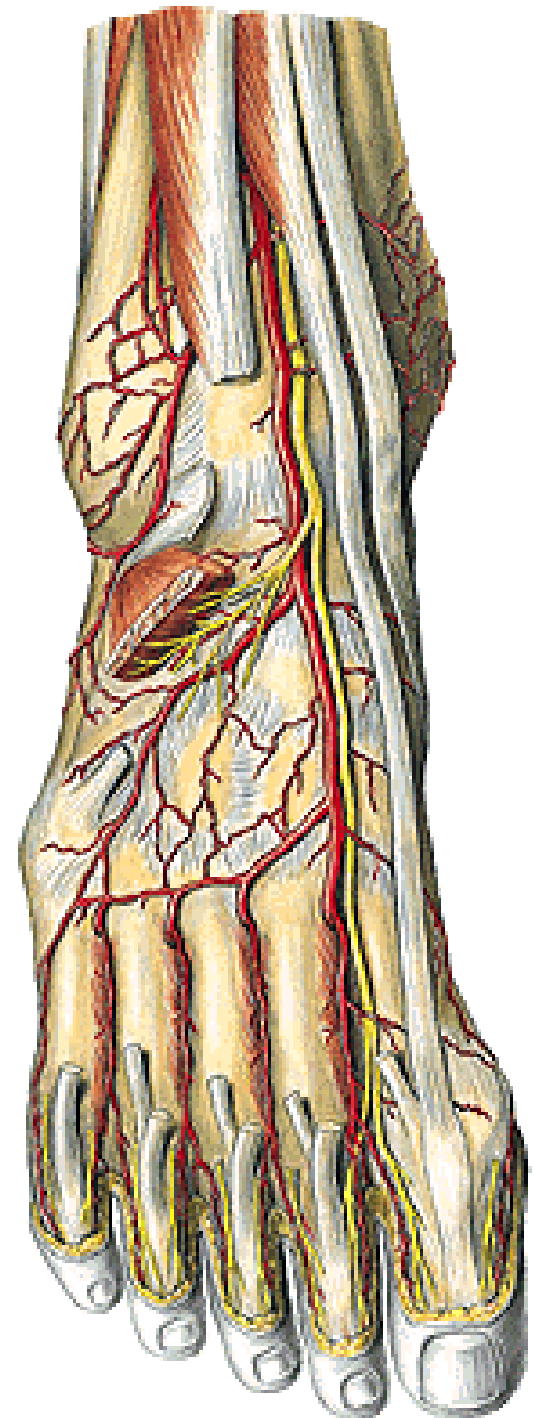


A. dorsalis pedis

- a. tarsalis lat.
- aa. tarsales med.
- a. arcuata
 - aa. metatarsales dorsales
 - aa. digitales dorsales
- r. plantaris prof.

N. fibularis prof.

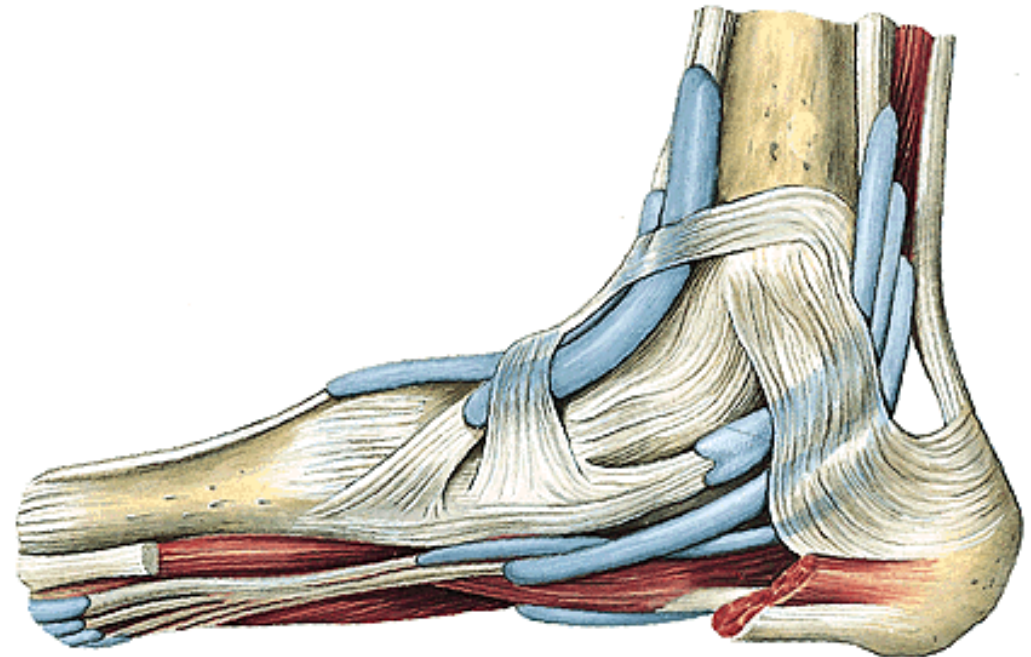
- rr. musculares
- nn. digitales dorsales



PLANTA PEDIS



Fascia plantae
Aponeurosis plantaris
Retinaculum (musculorum) flexorum

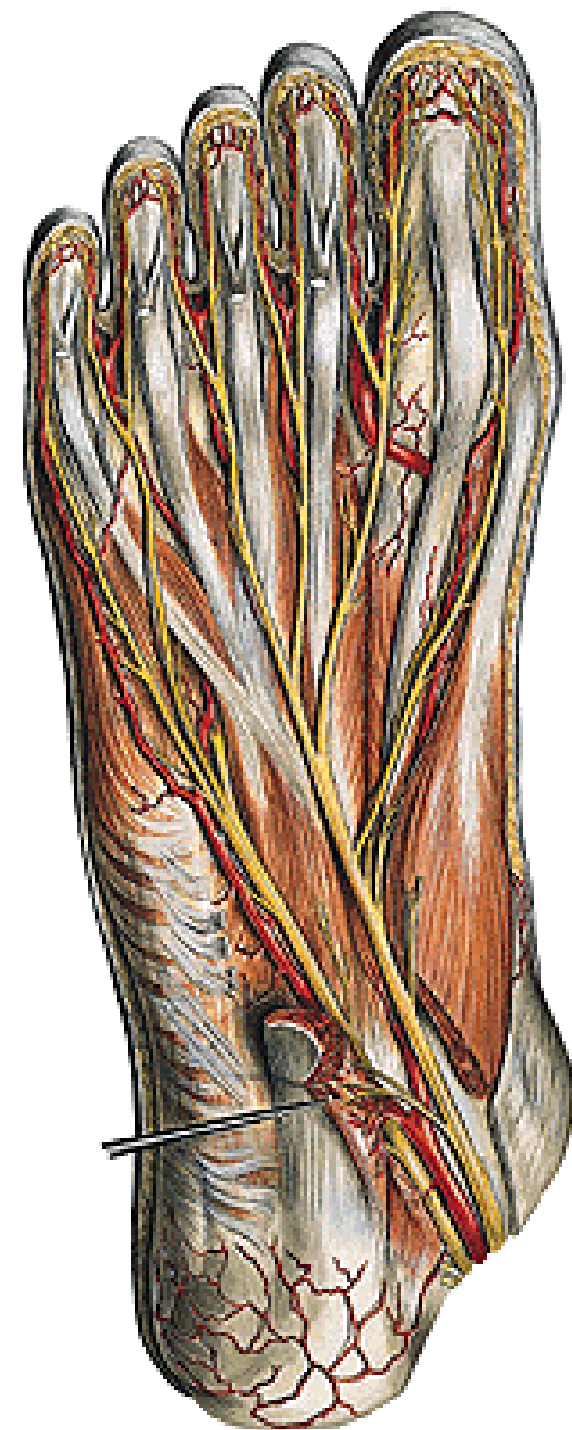
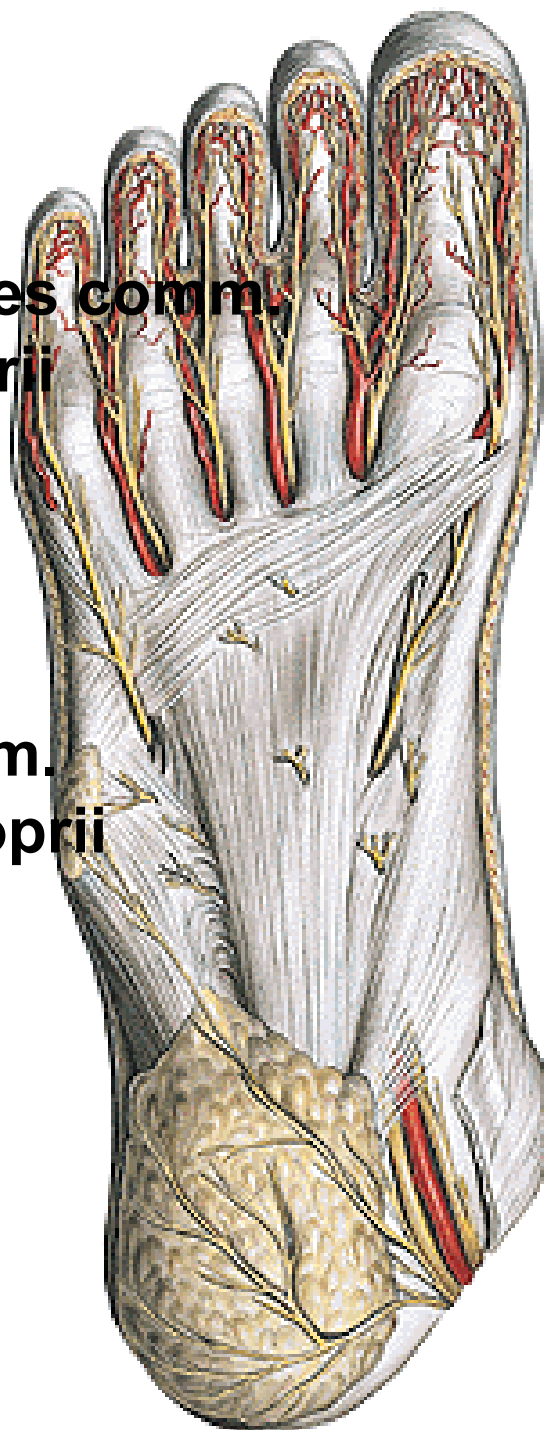


N. plantaris med.

- rr. musculares
- nn. digitales plantares comm.
- nn. dig. plant. proprii

N. plantaris lat.

- rr. musculares
- r. spf.
- nn. dig. plant. comm.
- nn. dig. plant. proprii
- r. prof.

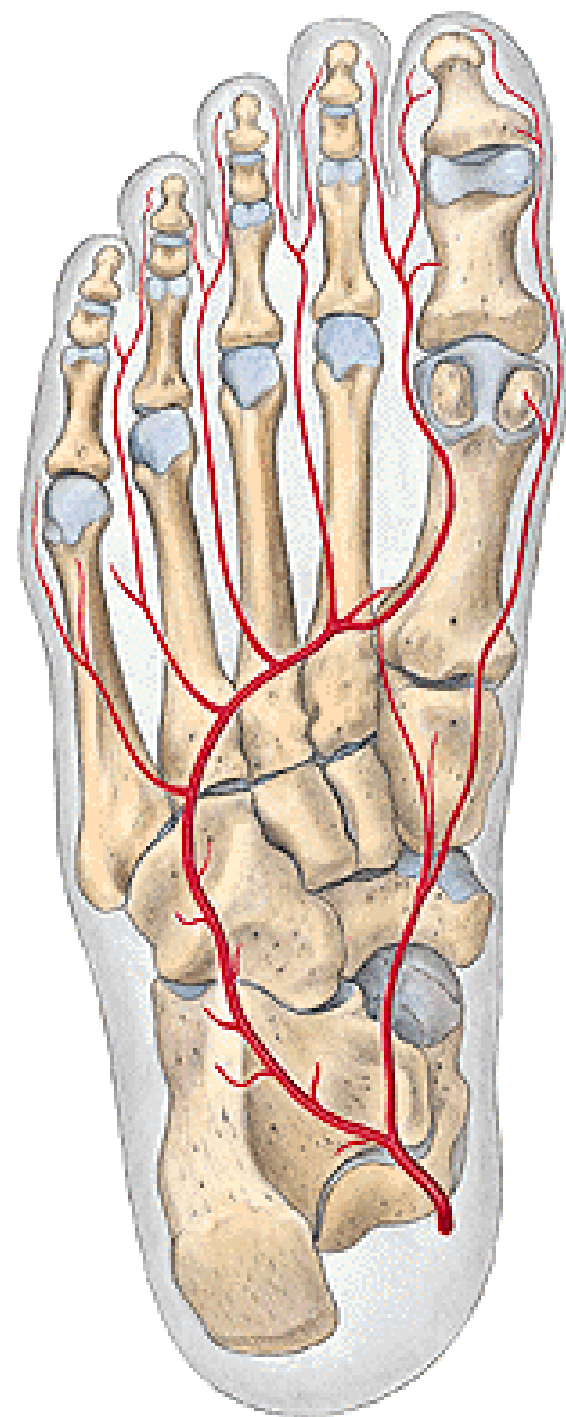
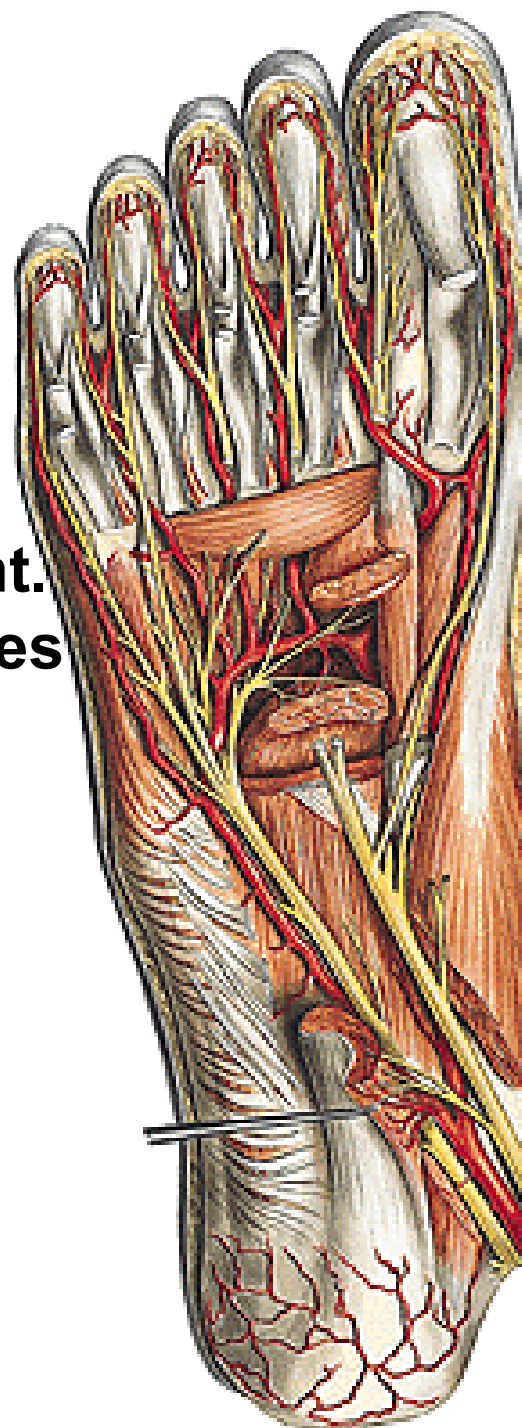


A. plantaris med.

- r. spf.
- r. prof.

A. plantaris lat.

- arcus plantaris
- aa. metatarsales plant.
- aa. digitales plantares



Illustrations were copied from:

**Atlas der Anatomie des Menschen/Sobotta.
Putz,R., und Pabst,R. 20. Auflage. München:
Urban & Schwarzenberg, 1993)
Netter: Interactive Atlas of Human Anatomy.
Windows Version 2.0**