

The Skin and MUSCULOSKELETAL System



ANATOMY

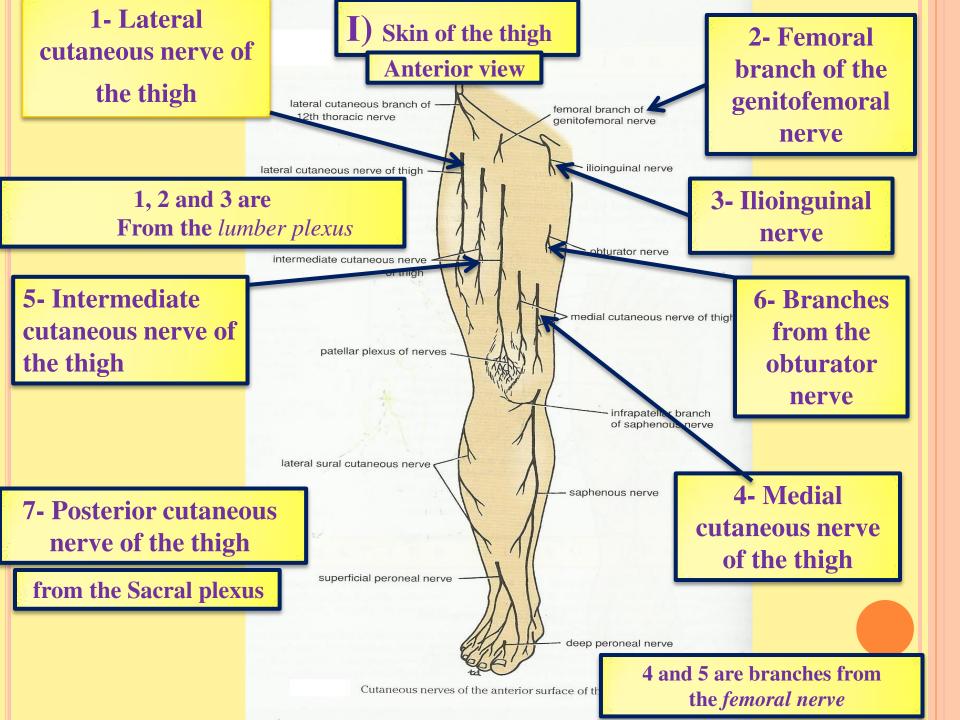
SLIDES **T** SHEET

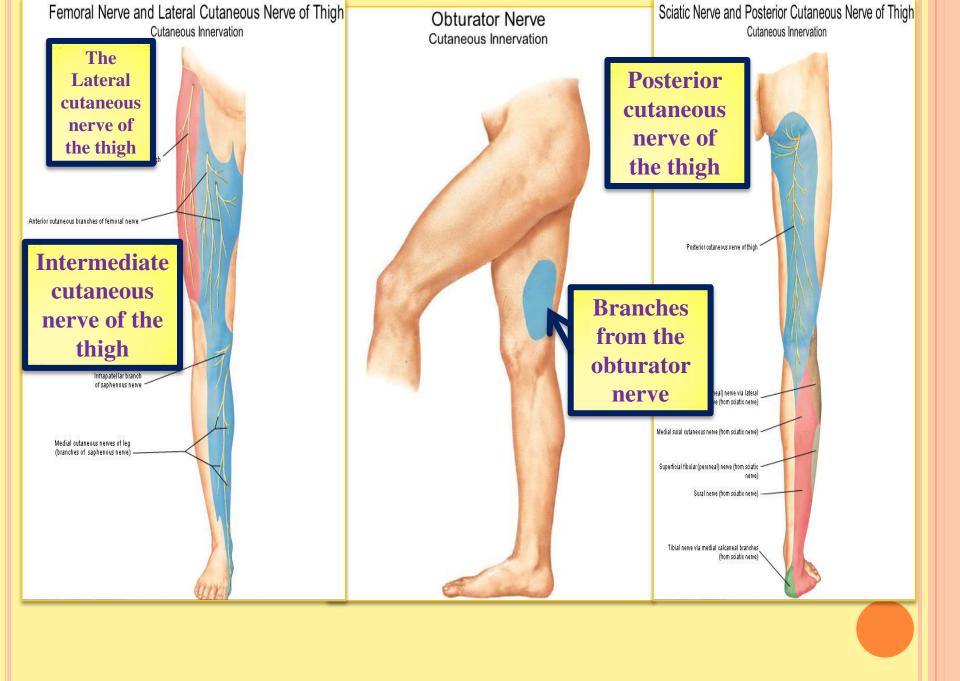
DOCTOR: Dr. Amjad Shatarat

DONE BY:

Number #2- Anatomy of the thigh

ANATYOMY OF THE THIGH





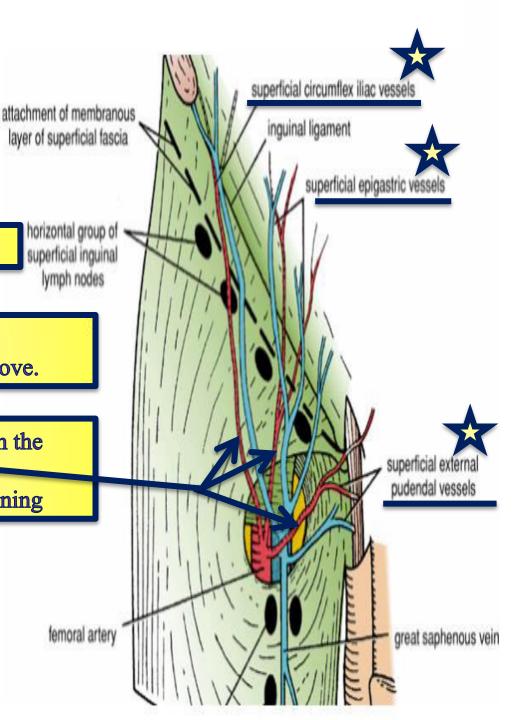
II) Fascia

A- Superficial fascia of the thigh
B- Deep fascia of the thigh
(fascia lata)

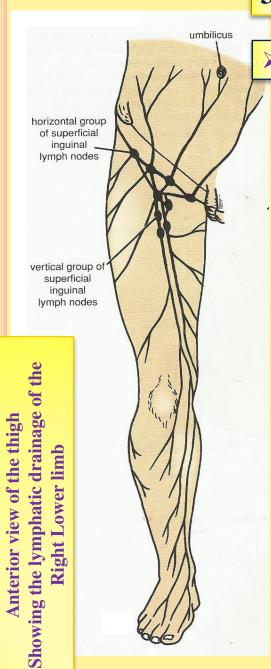
A-The superficial fascia of the thigh

1- Cutaneous nerves all nerves that have been mentioned above.

2- Superficial arteries (branches from the femoral artery) that emerge through the Saphenous opining



3- Superficial inguinal lymph nods



Lies below the inguinal ligament

> Divided into two groups;

horizontal and vertical.

A-The horizontal group lies

below and parallel to the

inguinal ligament.

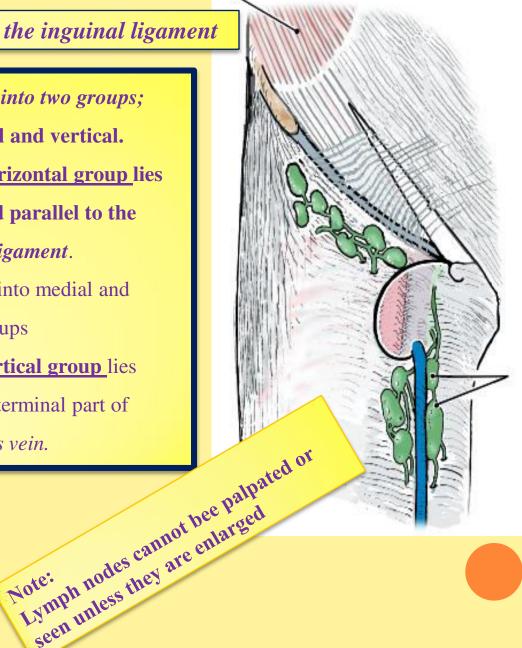
It divides into medial and

lateral groups

B-The vertical group lies

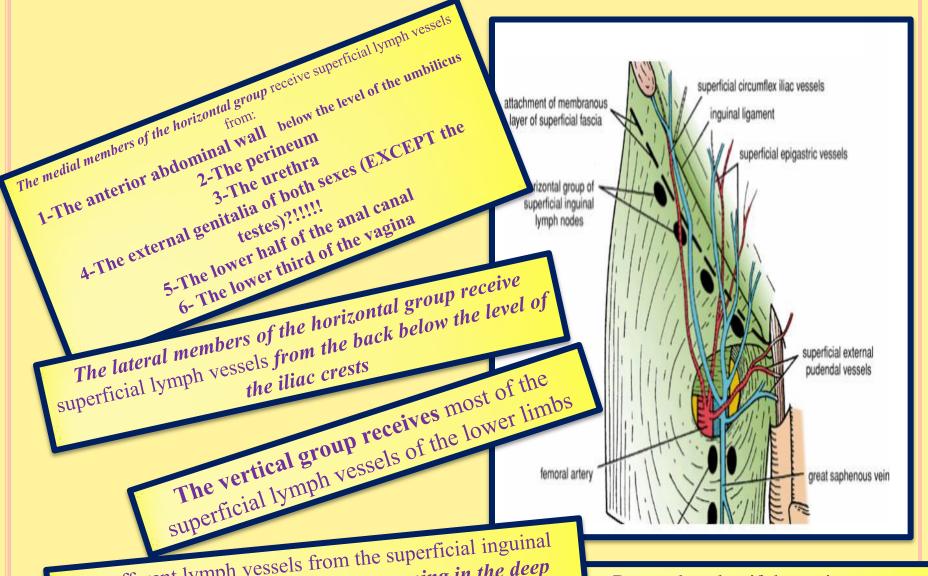
along the terminal part of

Saphenous vein.



Note:

seen unless they are enlarged



The efferent lymph vessels from the superficial inguinal nodes pass through the saphenous opening in the deep fascia and join the deep inguinal nodes.

Remember that if the patient presented to you with an enlarged superficial inguinal

lymph nods you should ask about and check the above mentioned areas

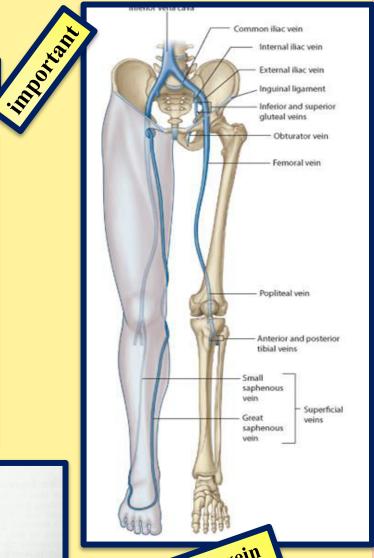
4- Superficial veins

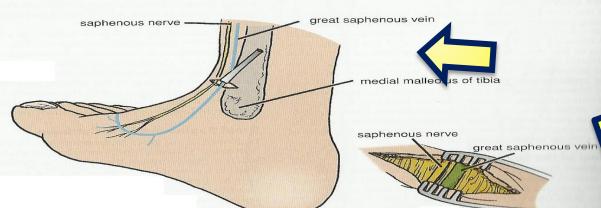
The most important superficial vein is the

Great Saphenous vein.

The great Saphenous vein

- rians the medial end of the dorsal venous arch.
- > passes *directly in front* of *the medial malleolus* of the tibia.
 - rightharpoonup as a scends in a company with the Saphenous nerve. in the superficial fascia over the medial side of the leg.
- > passes behind the knee and then curves around the medial side of the thigh.
 - > pierces the Saphenous opining and then joins the femoral vein about 4cm below and lateral to the pubic tubercle.





Great Saphenous vein Great Saphenous vein cutdown at the ankle? cutdown at the ankle? When we need this procedure procedure

B- Deep fascia of the thigh (fascia lata)

Forms on the anterio-medial side of the thigh the Saphenous opening (fossa ovalis).

Saphenous opening (fossa ovalis) is a gap in the fascia

lata which is covered by loose connective tissue called

cribriform fascia.

The **cribriform fascia** is pierced by:

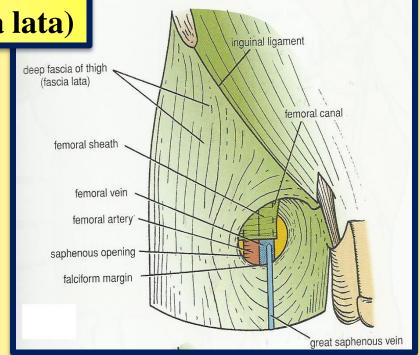
- 1- Great Saphenous vein
- 2- superficial branches of the femoral artery
 - 3- Lymphatics.

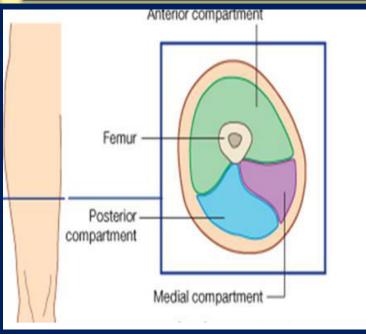
Fascia lata is connected to the linea aspera by

three intermuscular septa;

- 1- Medial intermuscular septum
- 2- Lateral intermuscular septum
- 3- Posterior intermuscular septum

Thus the deep fascia and septa divide the thigh into three compartment; <u>Anterior</u>, <u>Posterior and Medial</u>.





FASCIAL COMPARTMENTS OF THE THIGH

Fascial Compartments of the Thigh

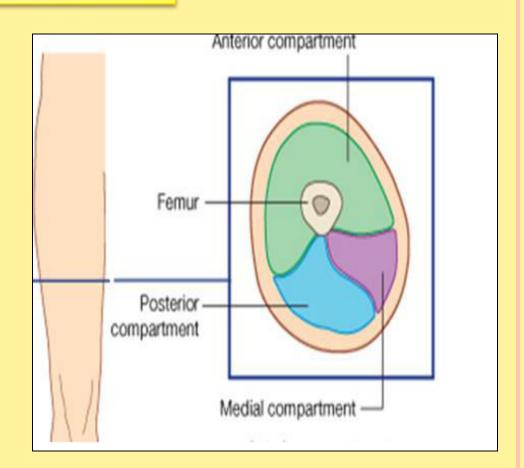
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Thus the deep fascia and septa divide the thigh into three compartment;

Anterior Posterior Medial.



Contents of the Anterior Fascial Compartment of the Thigh

1-Muscles: Sartorius, iliacus, psoas, pectineus, and quadriceps femoris

2-Blood supply: Femoral artery

3-Nerve supply: Femoral nerve

Note: that not all the contents of the anterior compartment have the Same function. For example psoas is the main flexor of the thigh at the hip joint while quadriceps femoris is the main extensor of the leg at the knee joint.

Sartorius

Origin: Anterior superior iliac spine

Insertion: Upper medial surface of shaft of tibia

Nerve supply: Femoral nerve

Actions: Flexes, abducts, laterally rotates thigh at

hip joint

Flexes and medially rotates leg

at knee joint

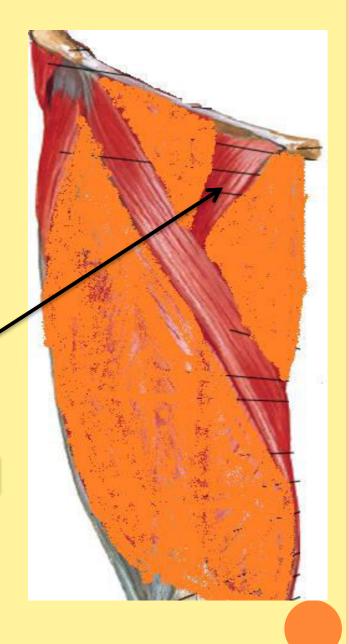
Pectineus

Origin: Superior ramus of pubis

Insertion: Upper end of linea aspera of shaft of femur

Nerve supply: Femoral nerve?

Actions: Flexes and adducts thigh at hip joint



Psoas

Origin: Transverse processes, bodies, and intervertebral discs of the 12th thoracic and five lumbar vertebrae

> Insertion: With iliacus into lesser trochanter of femur

Nerve supply: Lumbar plexus

Actions: Flexes thigh on trunk; if thigh is fixed, it flexes the trunk on thigh as in sitting up from lying down.

Iliacus

Origin: Iliac fossa of hip bone Insertion: With psoas into lesser trochanter of femur

Nerve supply: Femoral nerve

Psoas and Iliacus Muscles ratus lumborum muscle Origin of psoas major muscle from vertebral bodies, transverse s abdominis processes and muscle (cut) intervertebral discs (T12 - L4) and origin of psoas minor muscle lliohypogastric nerve from vertebral bodies (T12, L1) llioinguinal nerve Lumbar plexus Psoas minor muscle Psoas major muscle Lumbosacral trunk Genitofemoral nerve lliac crest Lateral cutaneous Anterior superior Iliacus muscle iliac spine Femoral nerve lliopectineal bursa Superior pubic ramus lliofemoral ligament of hip joint (Y ligament of Bigelow) lliopsoas muscle passes backward

Actions: Flexes thigh on trunk; if thigh is fixed, it flexes the trunk on the thigh as in sitting up from lying down(the same as psoas).

Consisting of:

- 1- The rectus femoris
- 2- The vastus intermedius
- 3- The vastus lateralis
- 4- The vastus medialis

Rectus femoris

Originates by two heads

Straight head from anterior inferior iliac spine

Reflected head from ilium above acetabulum

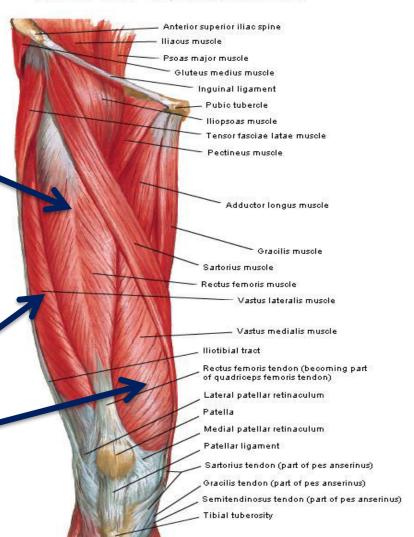
Vastus lateralis

Origin: Upper end and shaft of femur (linear origin)

Vastus medialis

The quadriceps femoris muscle

Muscles of Thigh
Anterior View - Superficial Dissection



Origin: Upper end and shaft of femur (linear origin)