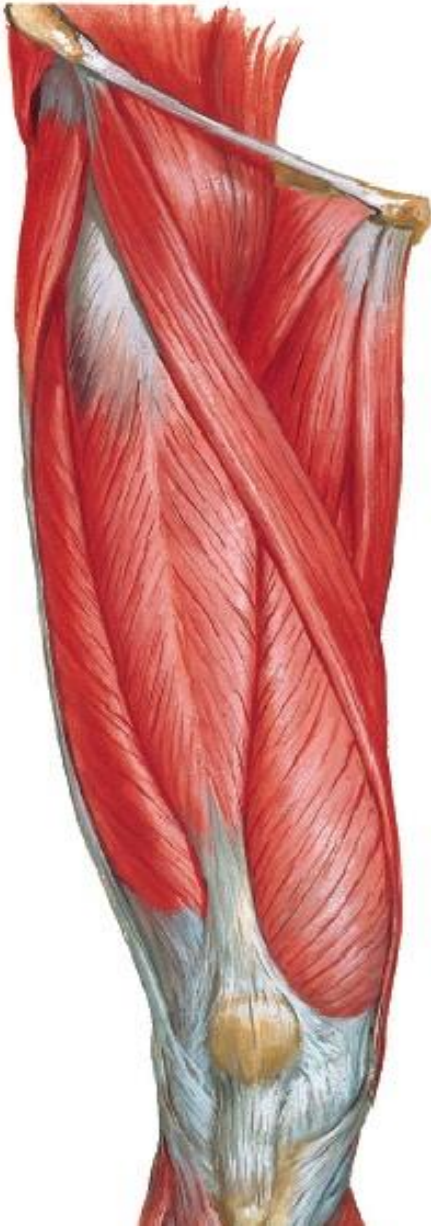


# FRONT OF THE THIGH

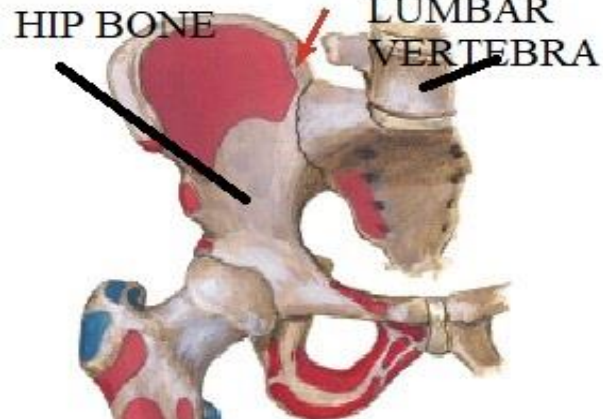


BY

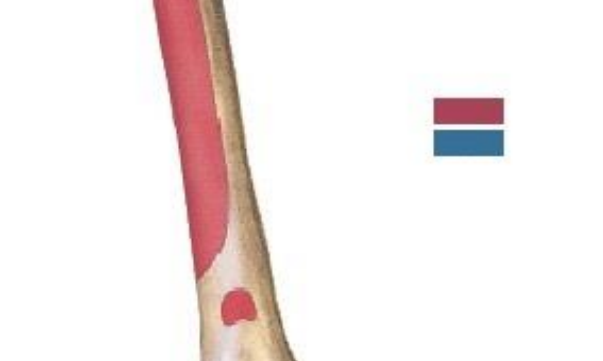
DR ABULMAATY MOHAMED  
ASSISTANT PROFESSOR  
ANATOMY & EMBRYOLOGY  
MUTAH UNIVERSITY

# SKELETON

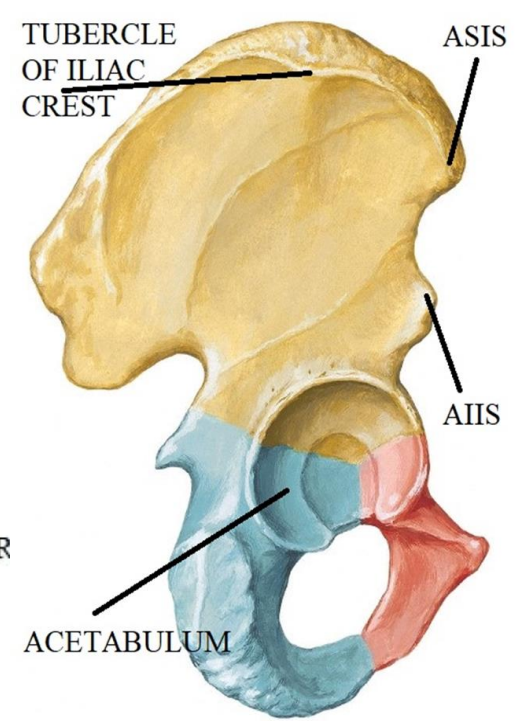
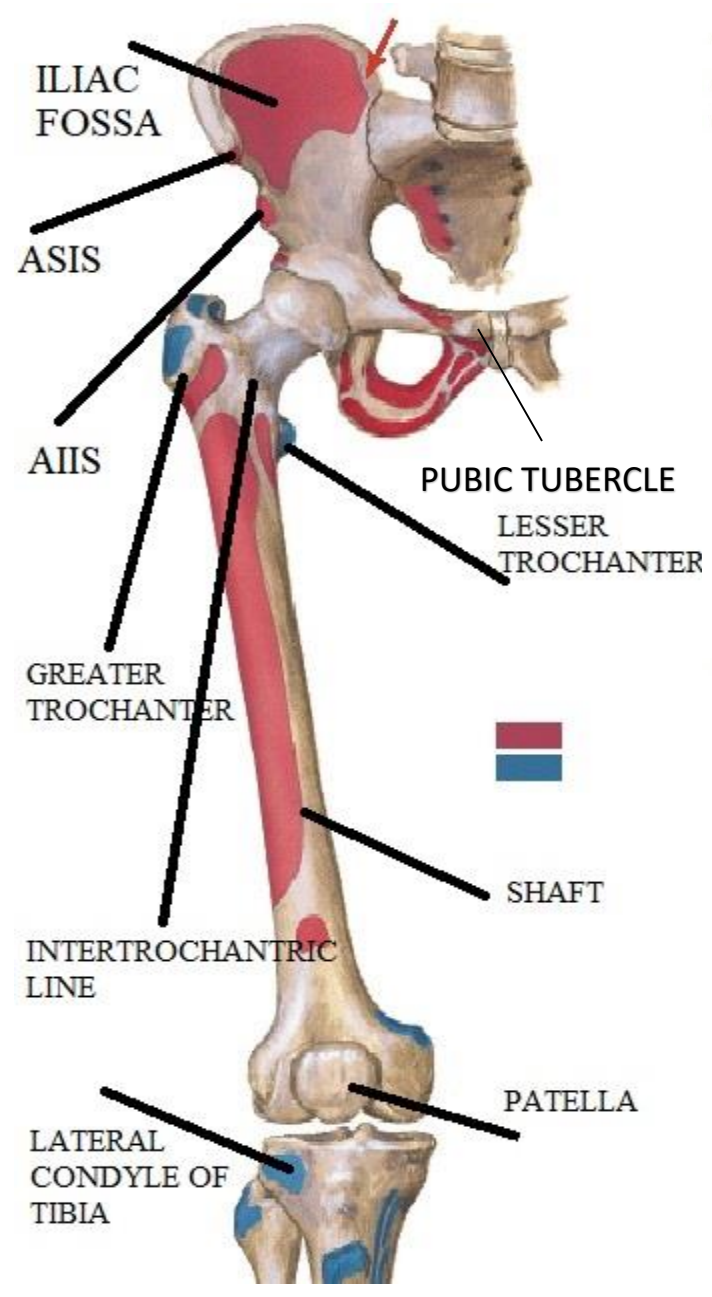
HIP BONE LUMBAR VERTEBRA



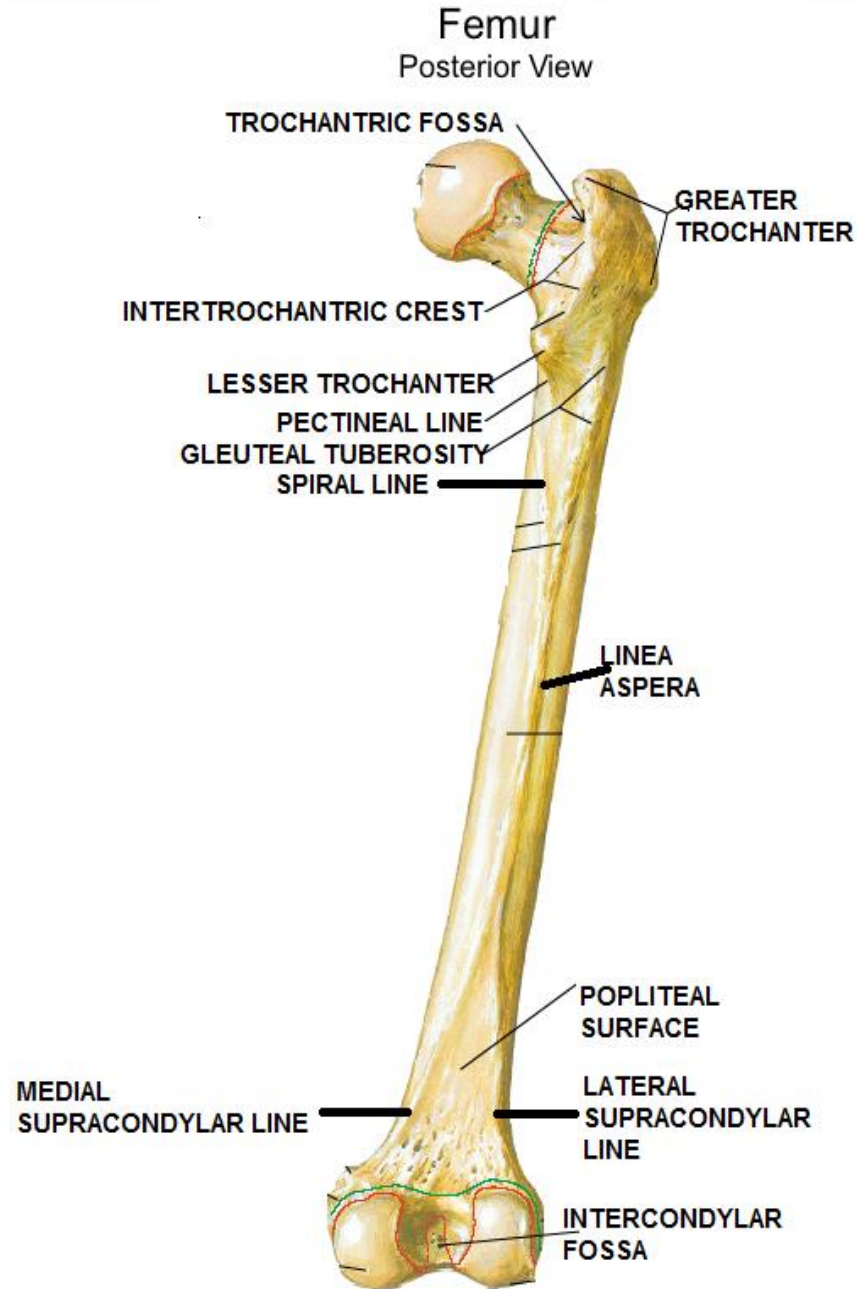
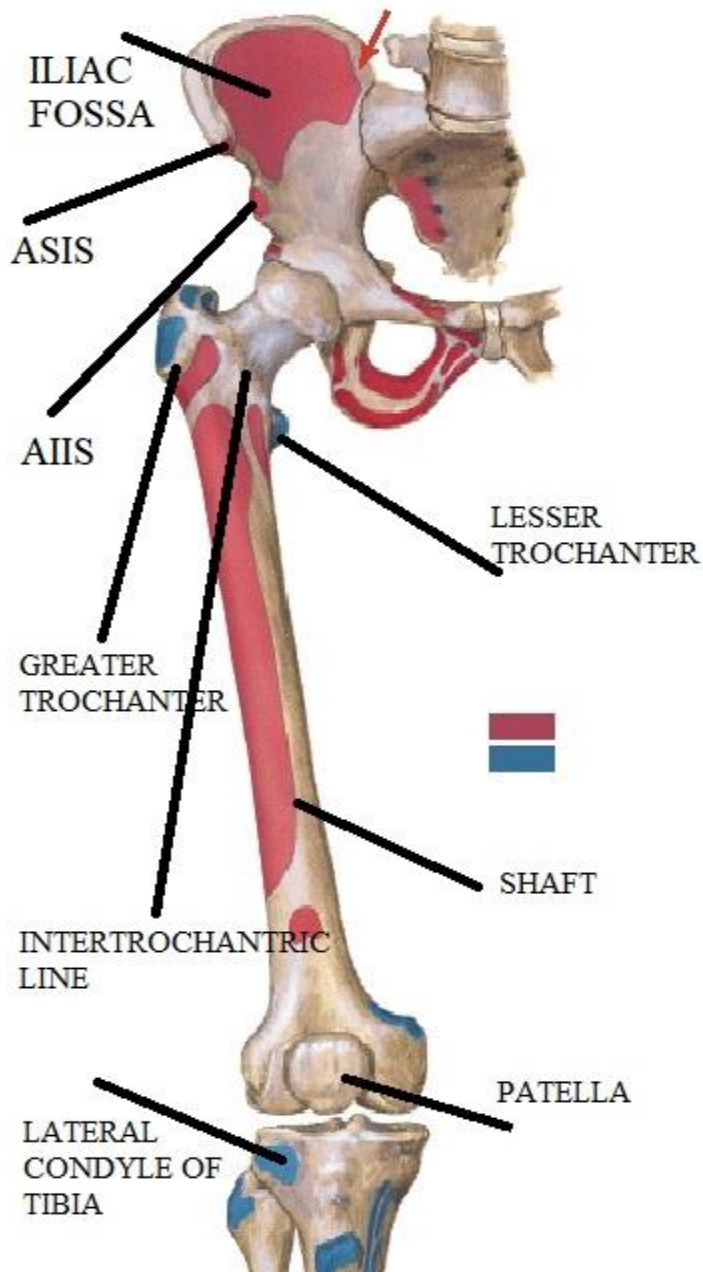
FEMUR

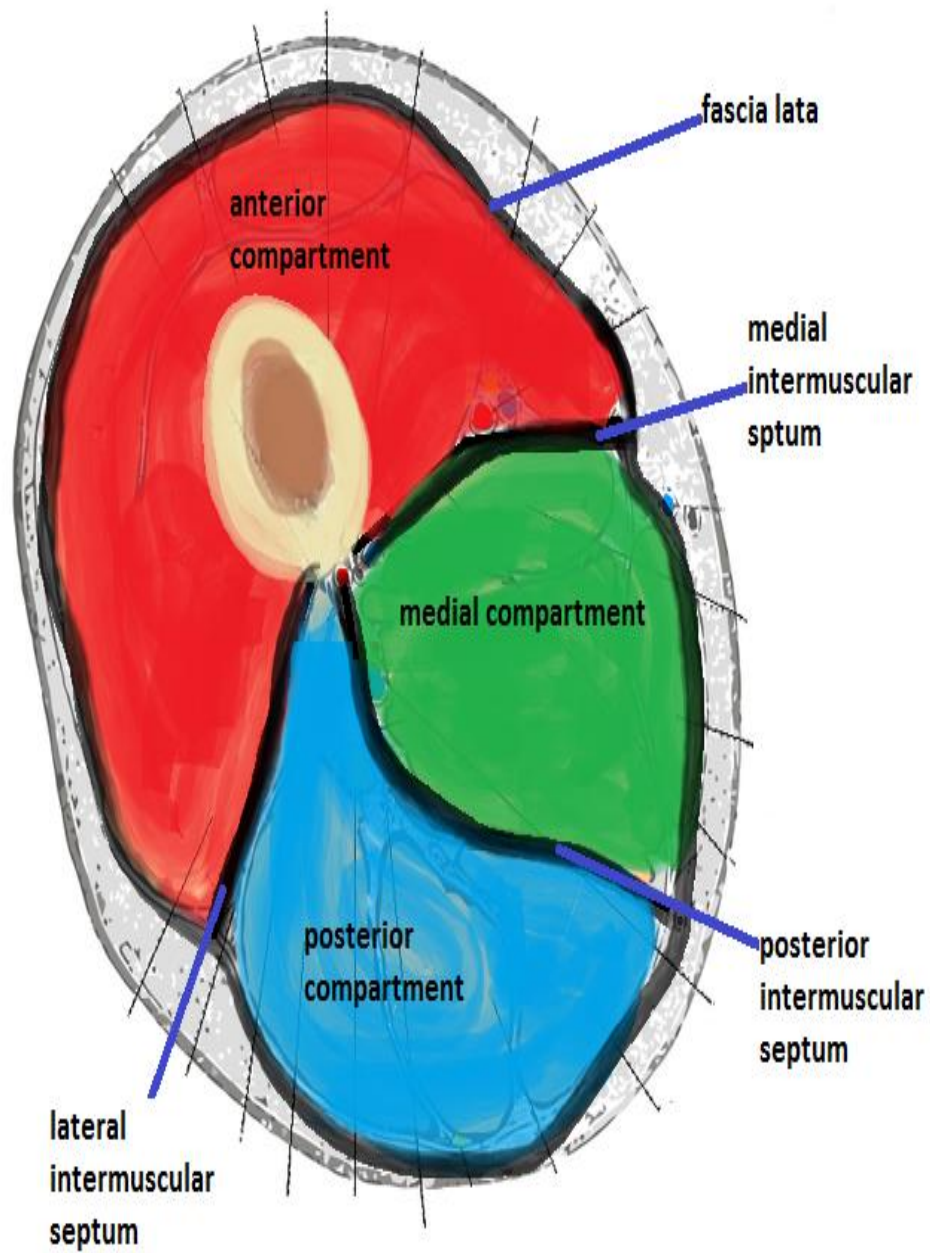
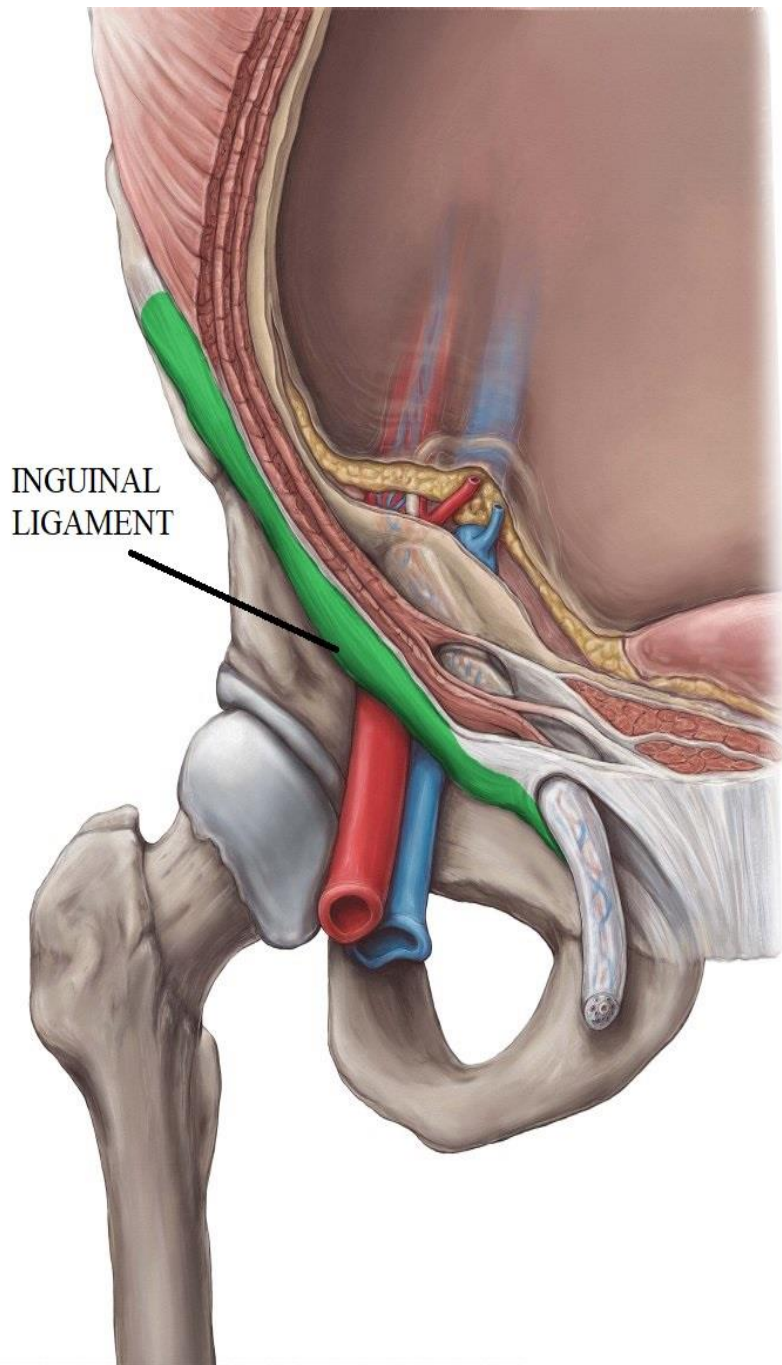


HEAD OF FIBULA TIBIAL TUBEROSITY



# SKELETON





# SUPERFICIAL FASCIA OF THE THIGH

## Contents:

### A-cutaneous nerves:

#### 1-Ilio inguinal n.:-

From the lumbar plexus

Supply the skin below medial part of inguinal ligament

#### 2-Femoral br. of genitofemoral n.:-

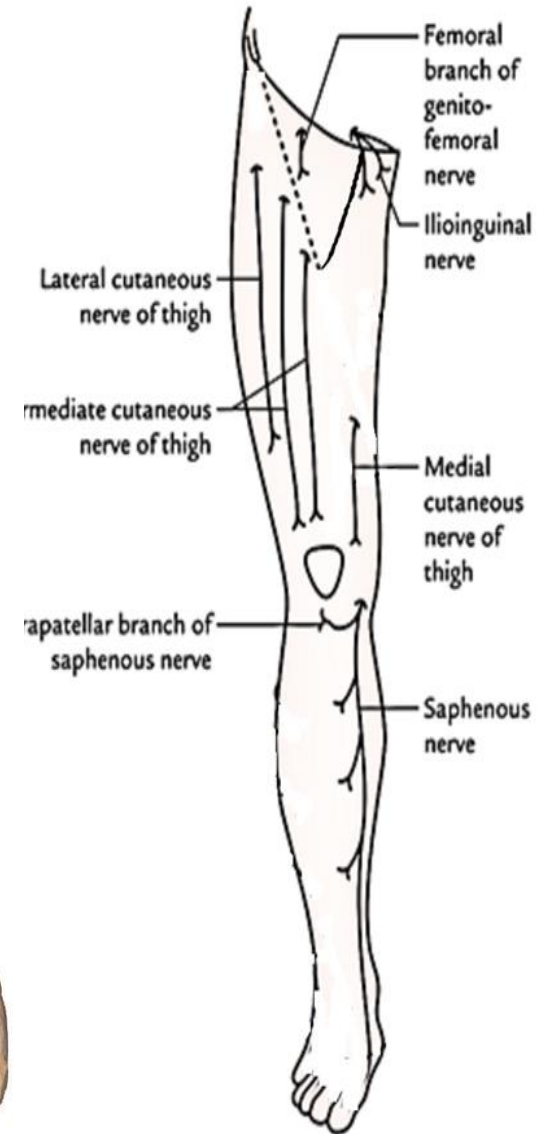
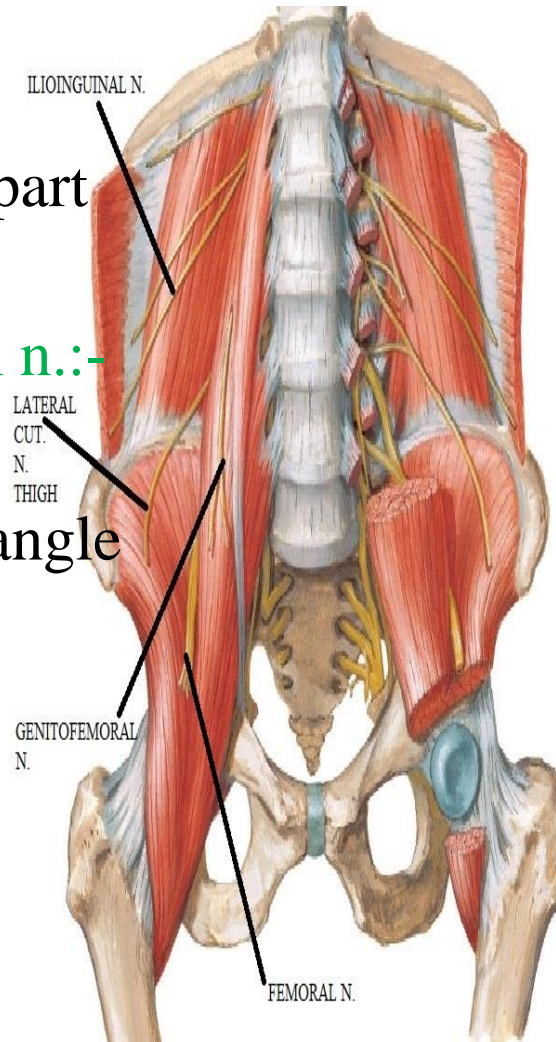
From the lumbar plexus

Supply the skin of femoral triangle

#### 3-Lateral cut. n. of thigh :-

From the lumbar plexus

Supply the skin of lateral side of thigh & knee



# SUPERFICIAL FASCIA OF THE THIGH

## Contents:

### A-cutaneous nerves:

#### 4-Intermediate cut. n. of thigh:-

From the femoral nerve

Divide into 2 branches

Supply the skin of front of thigh

#### 5-Medial cut. n. of thigh :-

From the femoral nerve

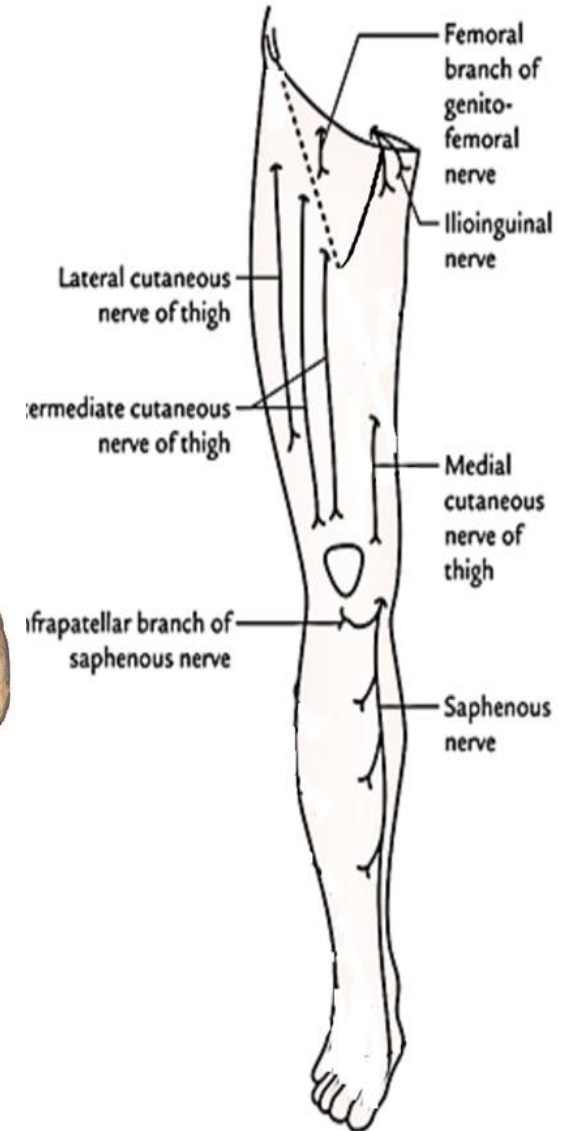
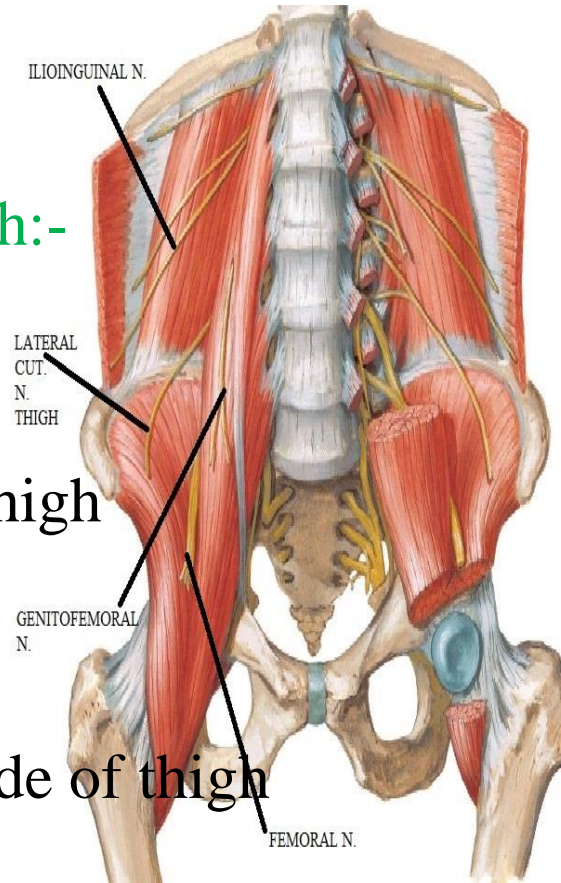
Supply the skin of medial side of thigh

### N.B.:- Patellar plexus:

Site: - In front of knee

Formation: - terminal branches of lateral, intermediate, medial cut. Nerves of Thigh

Plus infrapatellar branch of saphenous nerve



# SUPERFICIAL FASCIA OF THE THIGH

## Contents:

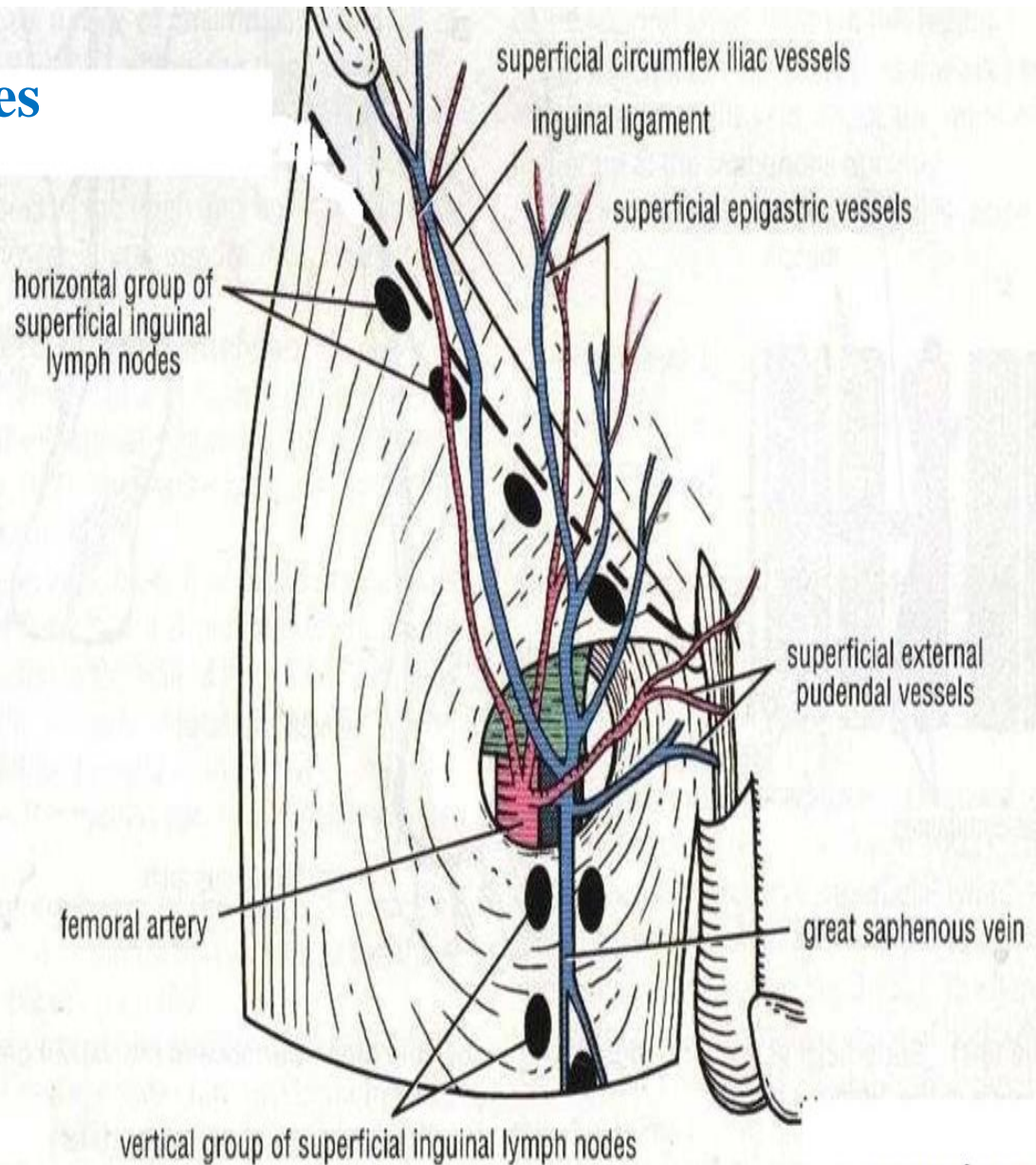
### B-superficial inguinal arteries

- 1-Superficial ext. pudendal
- 2-superficial epigastric
- 3-Superficial circumflex iliac

### C- Superficial inguinal veins

- 1-Superficial ext. pudendal
- 2-superficial epigastric
- 3-Superficial circumflex iliac
- 4-& great saphenous v

### D- superficial inguinal LNs



# DEEP FASCIA OF THE THIGH (FASCIA LATA)

**Special features :**

**A-saphenous opening :**

**Def.:** oval opening in deep fascia

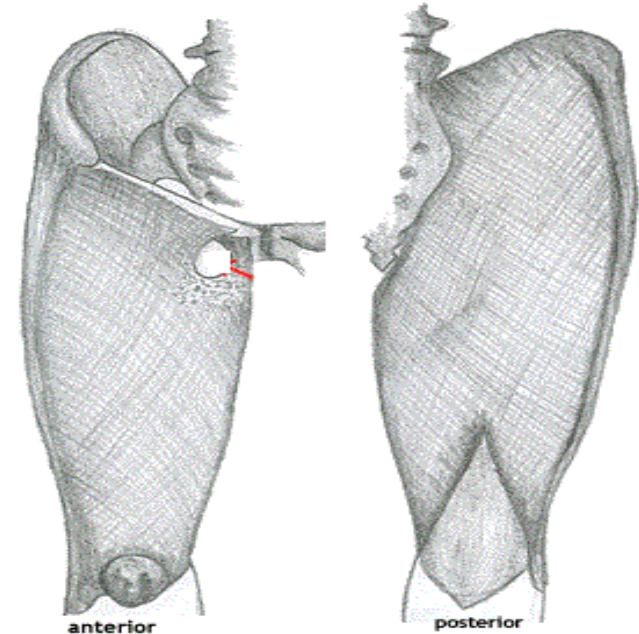
4 cm below & lateral to pubic tubercle.

**pierced by:**

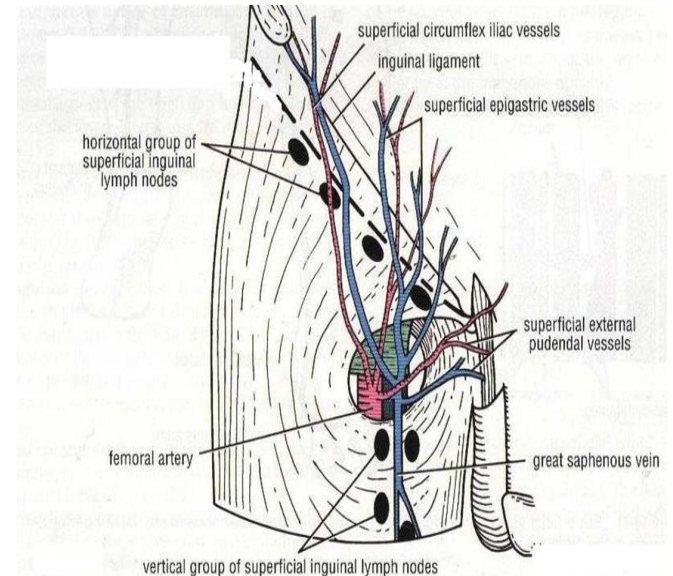
1- Superficial inguinal arteries??

2- Great saphenous V.

3-lymphatics from superficial to deep inguinal LN.



**fascia lata**





# DEEP FASCIA OF THE THIGH (FASCIA LATA)

## Special features :

### B-iliotibial tract:

Def.: thickened deep fascia of lateral side of thigh

### Attachment:

**Above:** tubercle of iliac crest

**Below:** front of lateral tibial condyle

head of fibula

lateral side of patella

capsule of knee joint

### Attached structures:

1-tensor fascia lata : ant. border

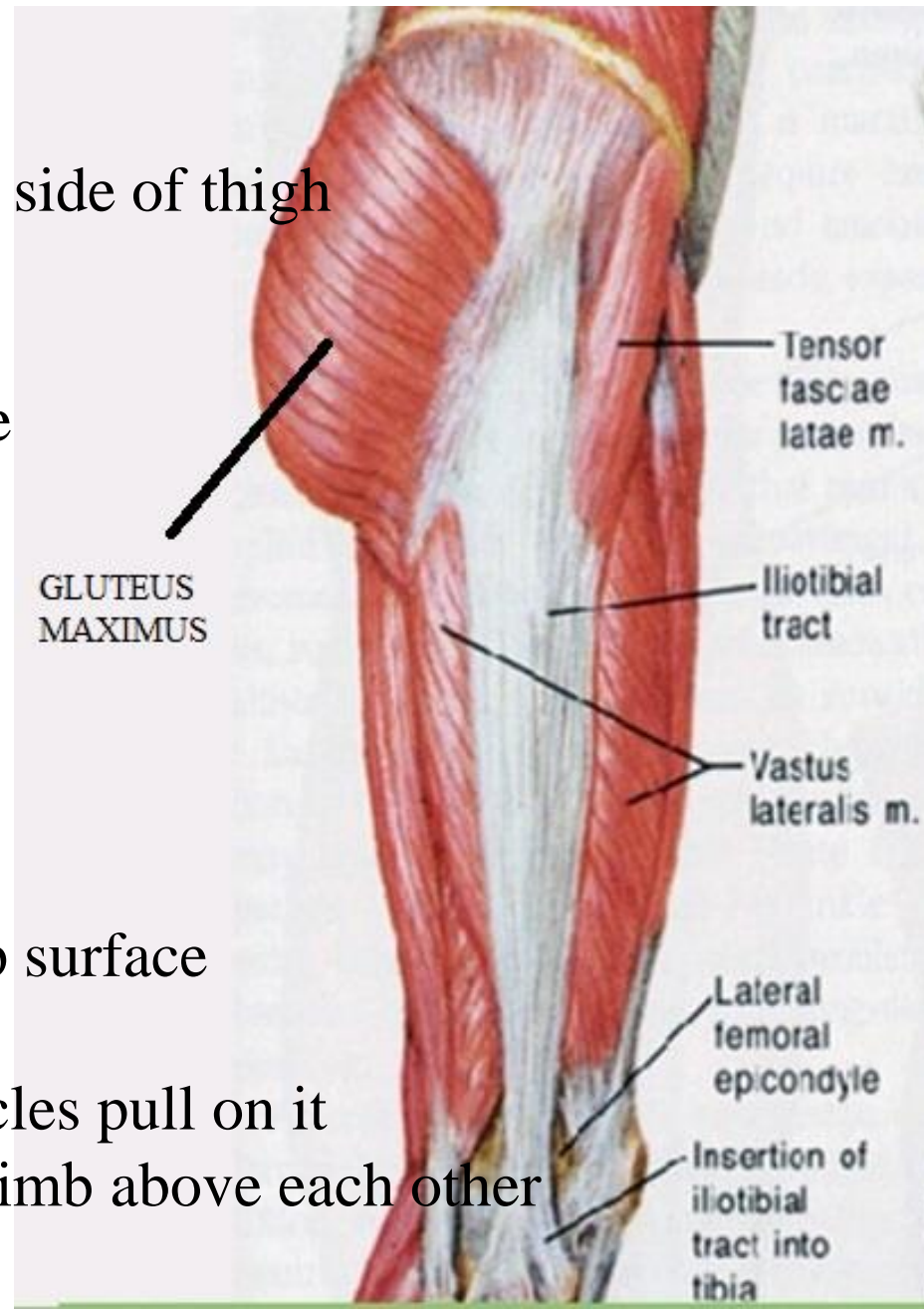
2-gluteus Maximus: post. border

3-lateral intermuscular septum: deep surface

### Function:

In standing position the above muscles pull on it

→ Tense → keep bones of lower limb above each other



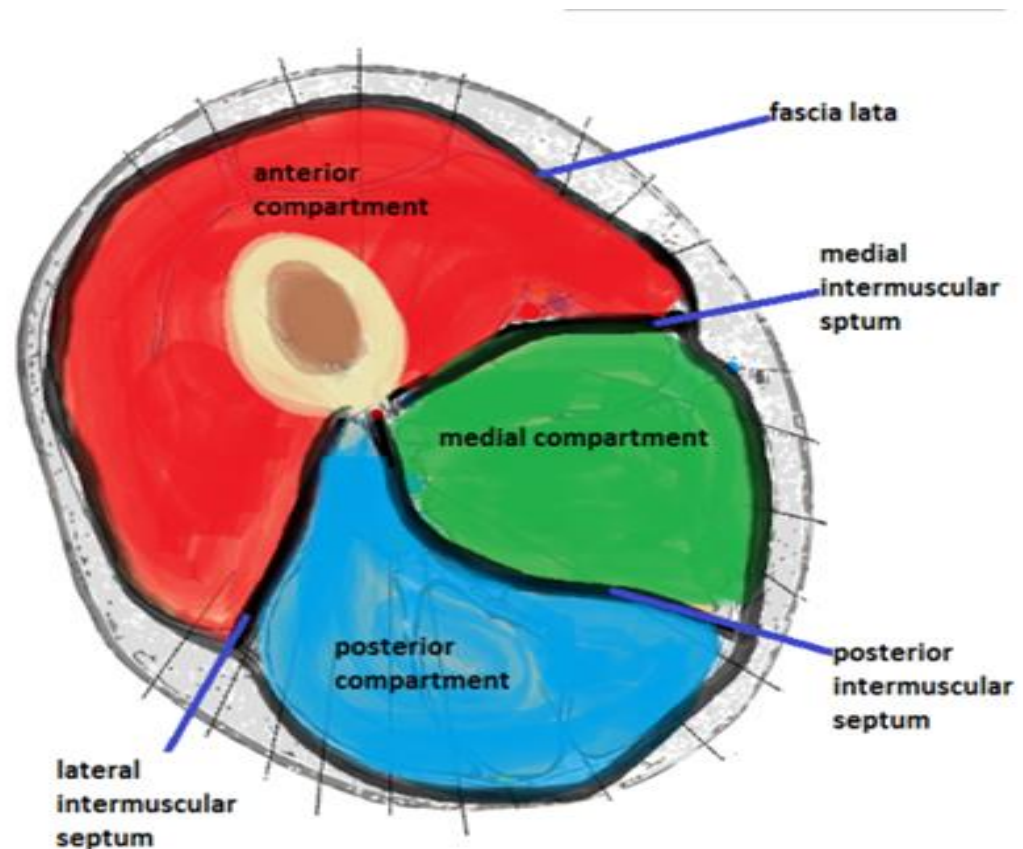
# DEEP FASCIA OF THE THIGH (FASCIA LATA)

**Special features :**

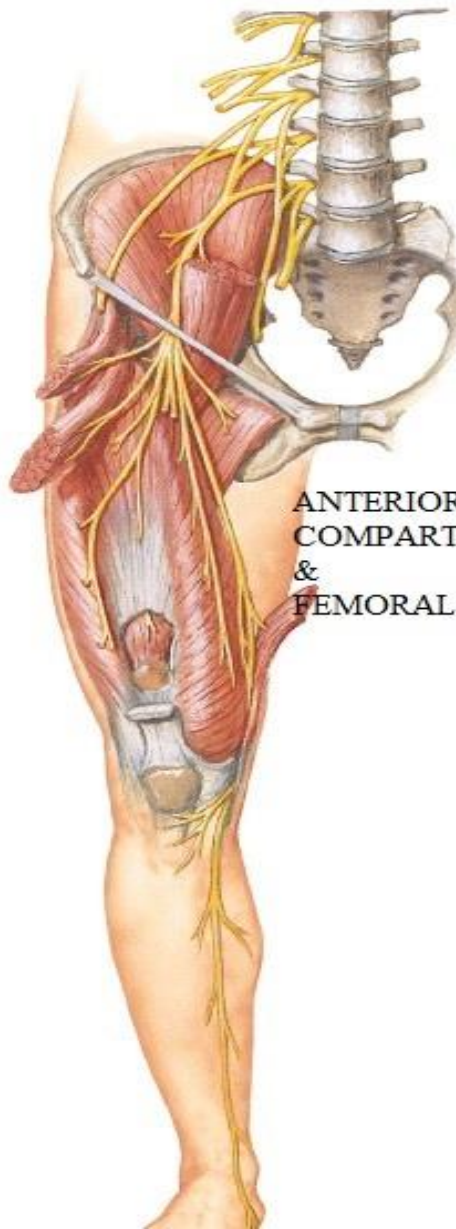
**C-inter muscular septa:**

-medial, lateral, post. → linea aspera of femur

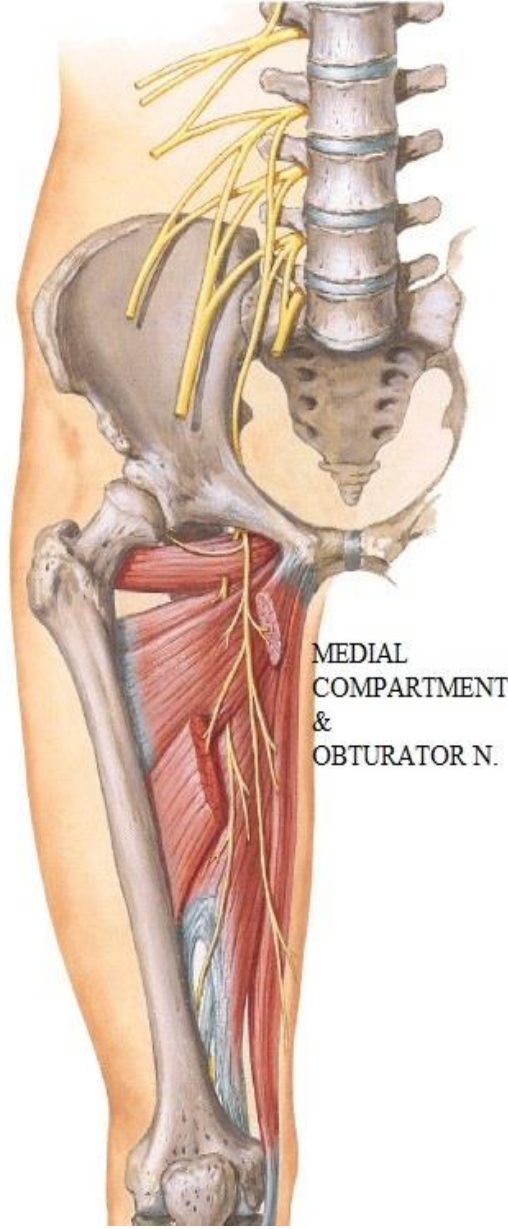
-divide thigh into ant. , medial, post. Compartments



# MUSCLES OF THE THIGH



ANTERIOR  
COMPART  
&  
FEMORAL



MEDIAL  
COMPARTMENT  
&  
OBTURATOR N.



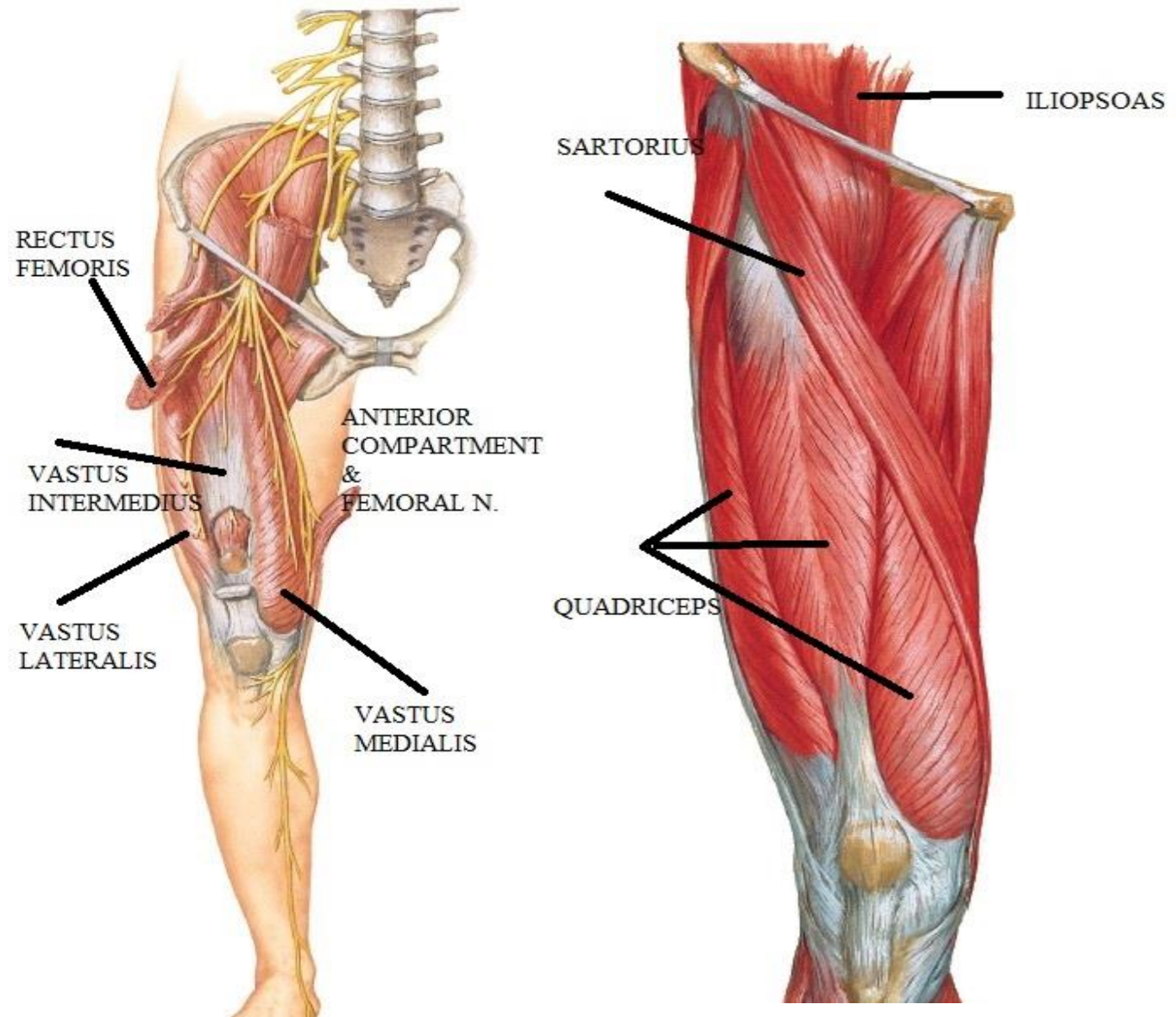
POSTERIOR  
COMPARTMENT  
&  
SCIATIC N.

# MUSCLES OF THE ANTERIOR COMPARTMENT

**1-QUADRICEPS FEMORIS:-** largest muscle in the body

**2- ILIOPSOAS**

**3- SARTORIUS**



# MUSCLES OF THE ANTERIOR COMPARTMENT

## QUADRICEPS FEMORIS

**Origin:** 4 heads

**Vastus intermedius:**

upper 2/3 of ant. & lateral surfaces of shaft of femur

**Vastus medialis :**

lower part of inter trochanteric line

Spiral line

Linea aspera

Medial supracondylar line

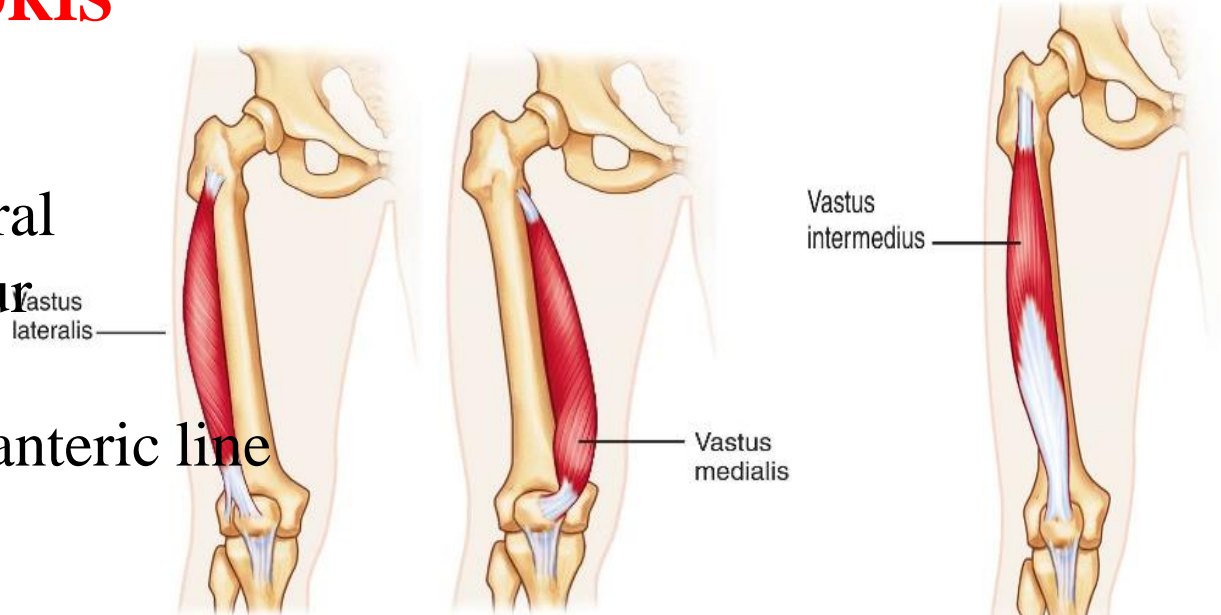
**Vastus lateralis :**

upper part of inter trochanteric line

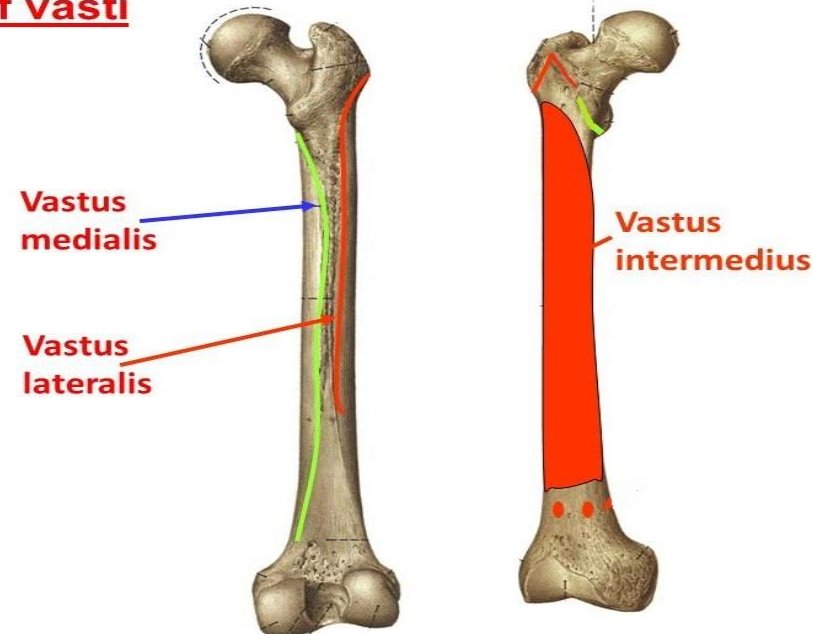
Root of greater trochanter

Gluteal tuberosity

Linea aspera



### Origin of vasti



# MUSCLES OF THE ANTERIOR COMPARTMENT

## QUADRICEPS FEMORIS

**Origin:** 4 heads

**Rectus femoris:**

**straight head:** ant. inf. iliac spine

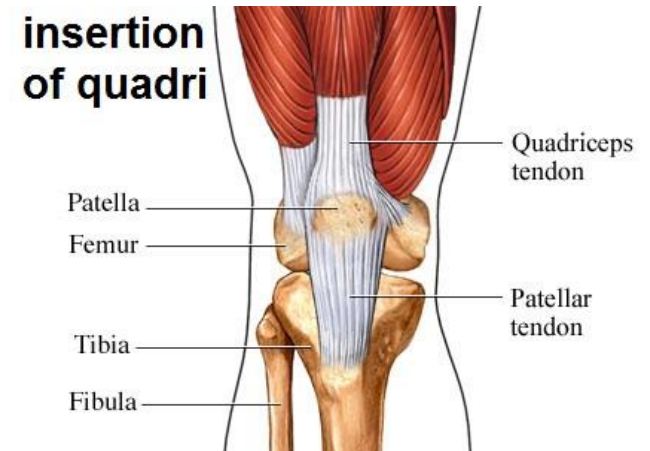
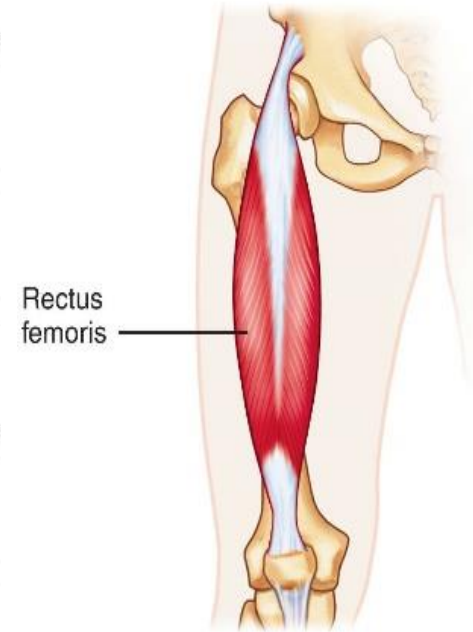
**Reflected head:** groove above acetabulum  
(in the ileum)

**Insertion:**

-base of patella

and lower fibers of vastus medialis & lateralis insert in sides of patella

-ligamentum patellae transmit insertion  
from apex of patella to tibial tuberosity.



# MUSCLES OF THE ANTERIOR COMPARTMENT

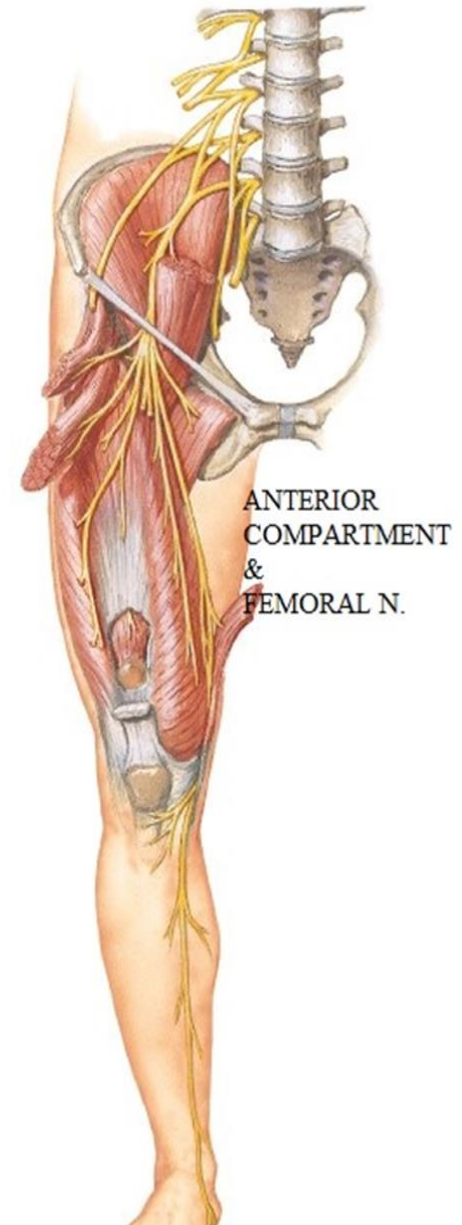
## QUADRICEPS FEMORIS

### Action

- all the muscle: main extensor of knee
- fibers of medialis & lateralis that attach to sides of patella stabilize it during contraction of quadriceps.
- Rectus femoris: flexion of hip joint

**N.S:** Femoral n. br. to each head

all heads of quadriceps



# MUSCLES OF THE ANTERIOR COMPARTMENT

## ILIOPSOAS

Origin:-

Iliacus :- Iliac fossa

psoas major:

T 12 & lumbar vertebrae:  
sides of bodies & transverse  
processes

I.:-

Lesser trochanter

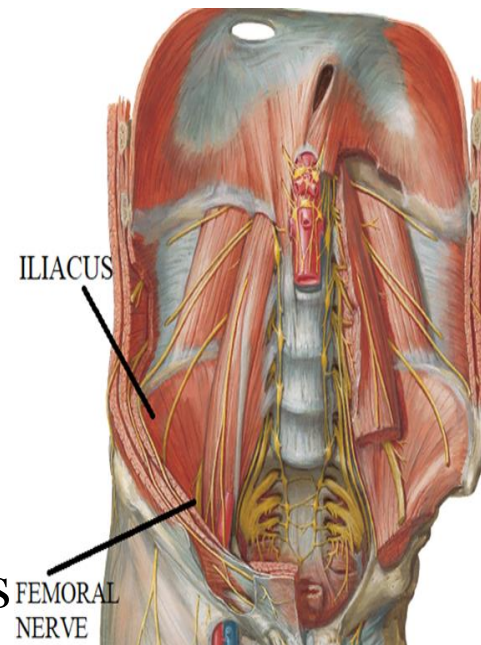
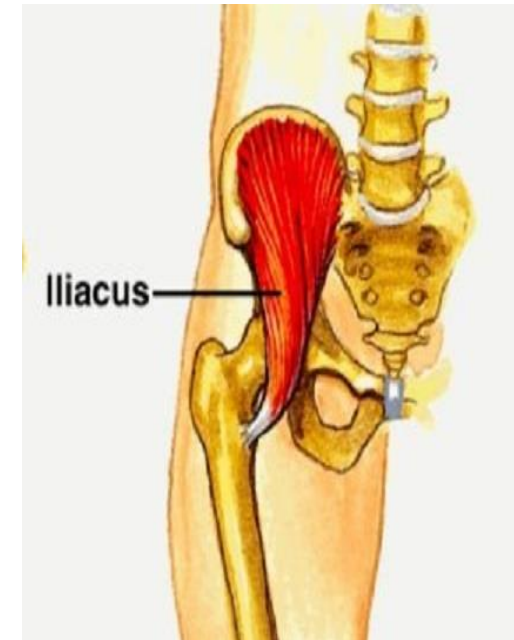
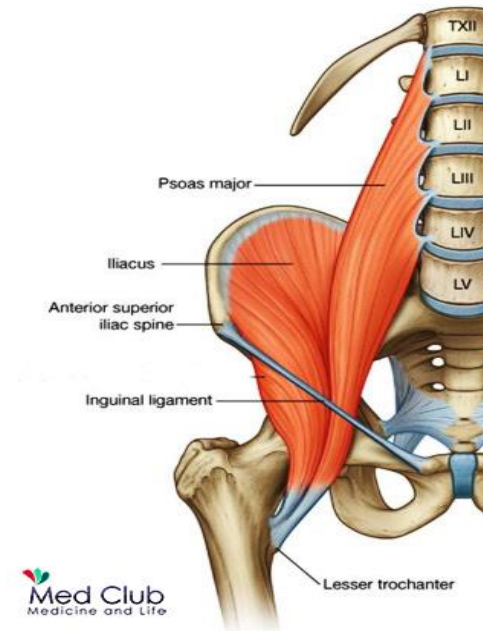
A.:-

Flexion &  
lateral rotation of thigh

N.S.:-

Iliacus :- femoral nerve

PSOAS MAJOR Lumbar plexus





# MUSCLES OF THE ANTERIOR COMPARTMENT

## Sartorius

### Origin:-

Ant. superior iliac spine (ASIS)

### Insertion:-

upper part of medial surface of tibia

### Action:-

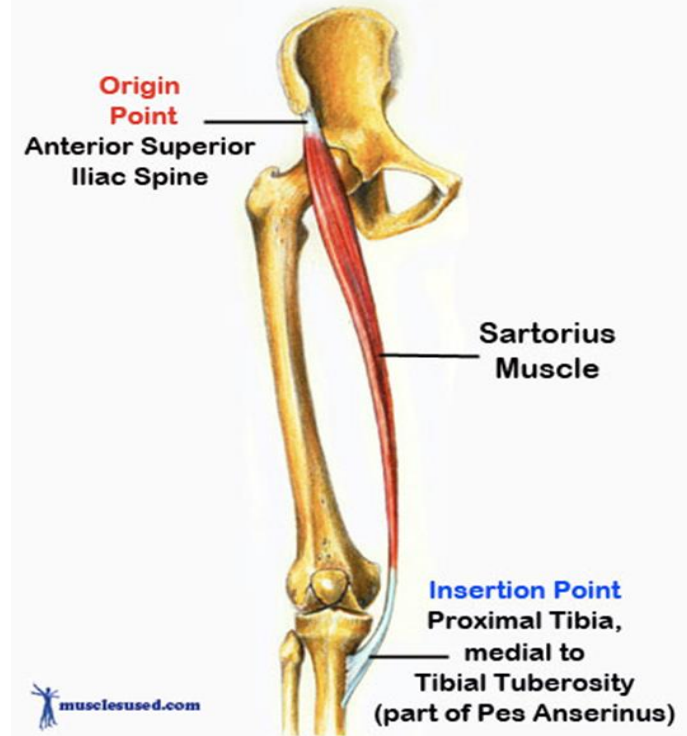
sartor's (cross leg)

- (tailor's) Position :  
flexion , medial rotation of knee & flexion & abduction & lateral rotation of hip

- guy rope : support pelvis above femur

### N.S.:-

femoral n.



# MUSCLES OF THE ANTERIOR COMPARTMENT

## Sartorius

### The sartorius and the muscles of the pes anserinus

Patrice Thiriet

Realisation : Olivier Rastello



THANQ