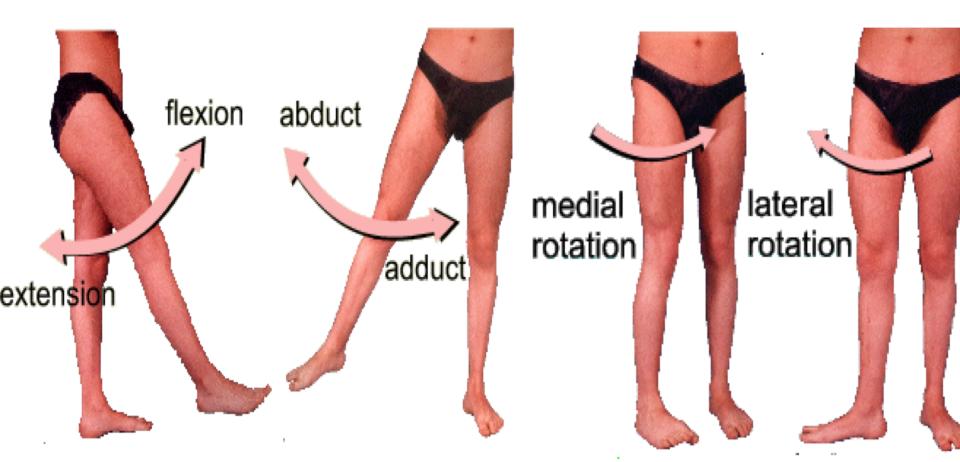
# ANTERIOR & MEDIAL COMPARTMENTS OF THIGH

## **OBJECTIVES**

#### At the end of the lecture, students should:

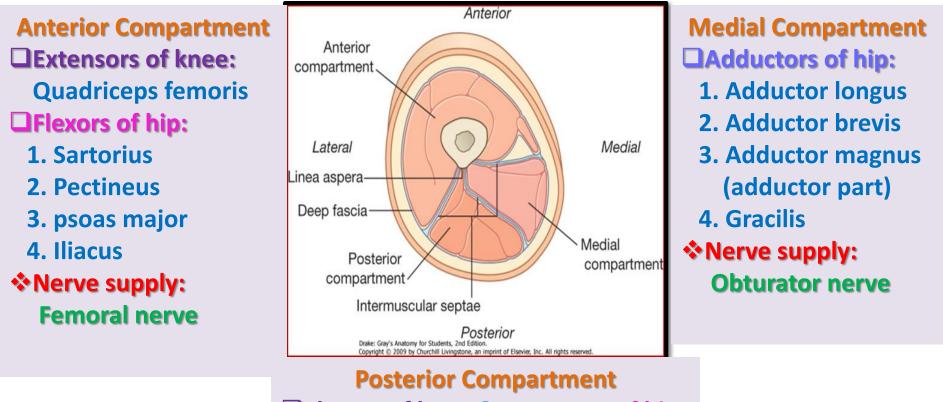
- List the name of muscles of anterior compartment of thigh.
- Describe the anatomy of muscles of anterior compartment of thigh regarding: origin, insertion, nerve supply and actions.
- List the name of muscles of medial compartment of thigh.
- Describe the anatomy of muscles of medial compartment of thigh regarding: origin, insertion, nerve supply and actions.
- Describe the anatomy of femoral triangle & adductor canal regarding: site, boundaries and contents.

# HIP JOINT



#### The thigh is divided into 3 compartments

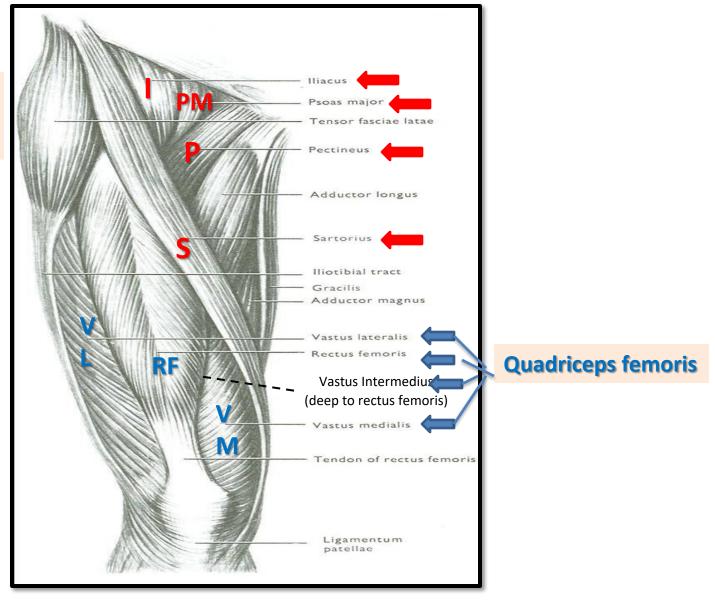
by 3 intermuscular septa (extending from deep fascia into femur)



Posterior Compartment Flexors of knee & extensors of hip: Hamstrings Nerve supply: Sciatic nerve

#### **ANTERIOR COMPARTMENT OF THIGH**

#### NERVE SUPPLY: Femoral nerve

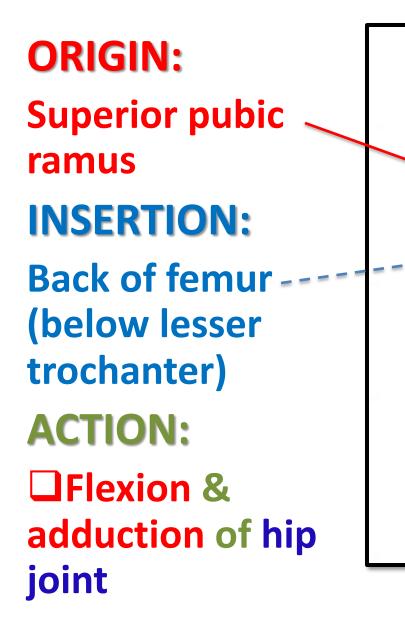


#### **SARTORIUS**

#### ORIGIN **Anterior superior iliac** spine INSERTION **Upper part of medial** surface of tibia **ACTION** (TAILOR'S POSITION) **Flexion**, abduction & lateral rotation of hip joint **Given States Flexion of knee joint**

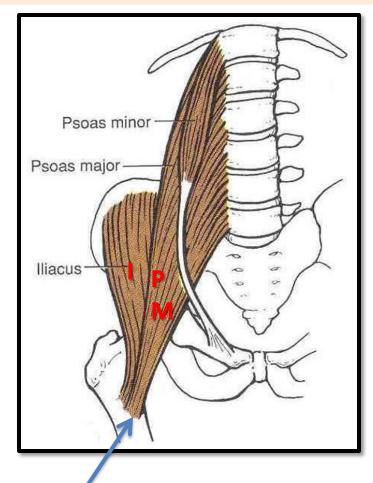








#### **ILIOPSOAS: ILIACUS & PSOAS MAJOR**





Lesser trochanter of femur

Adductor magnus Vastus lateralis Rectus femoris Vastus medialis Tendon of rectus femoris Ligamentum pateilae

Iliacus Psoas major Tensor fasciae latae

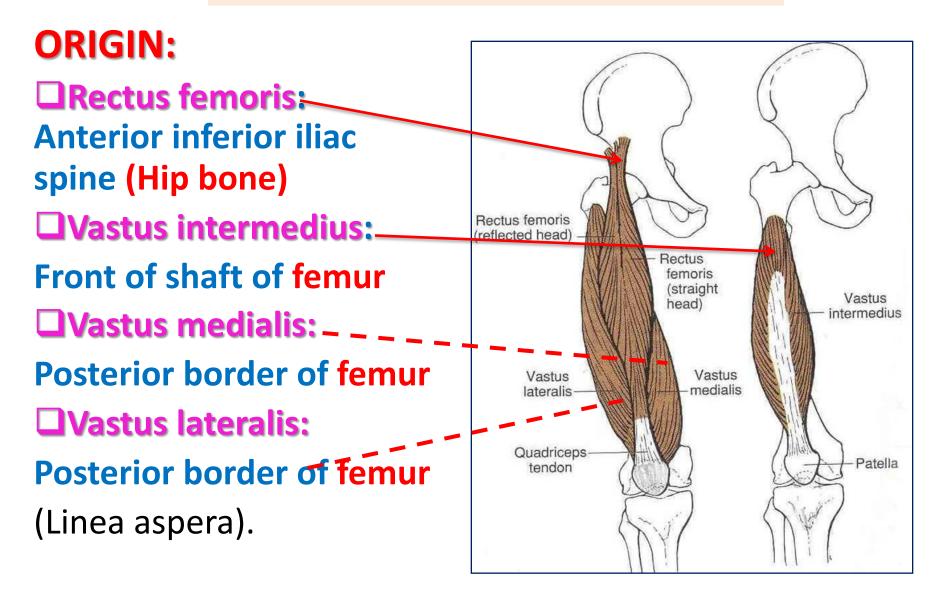
Pectineus

Sartorius

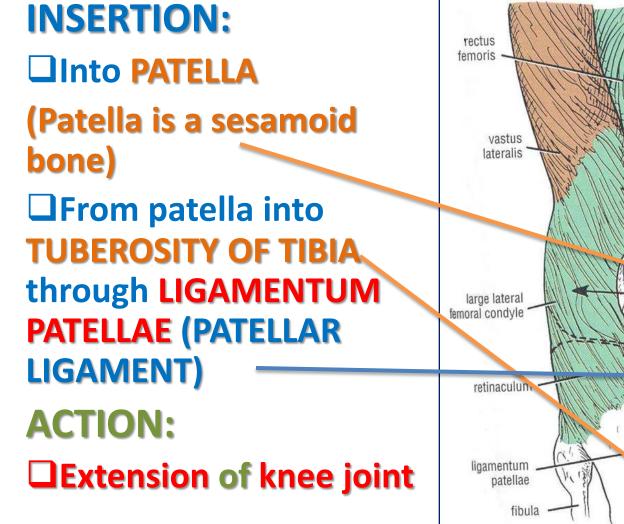
Adductor longus

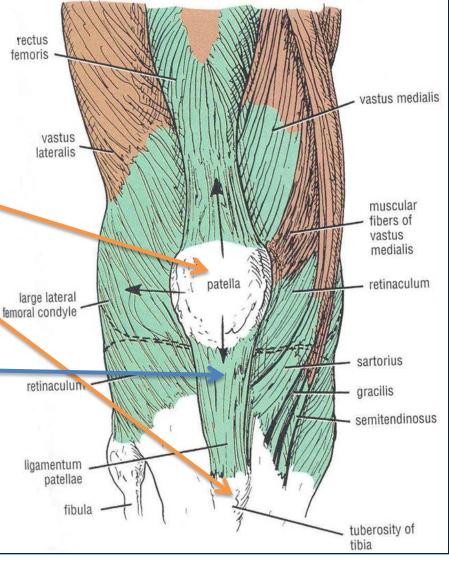
Iliotibial tract Gracilis

## **QUADRICEPS FEMORIS**



#### **QUADRICEPS FEMORIS**



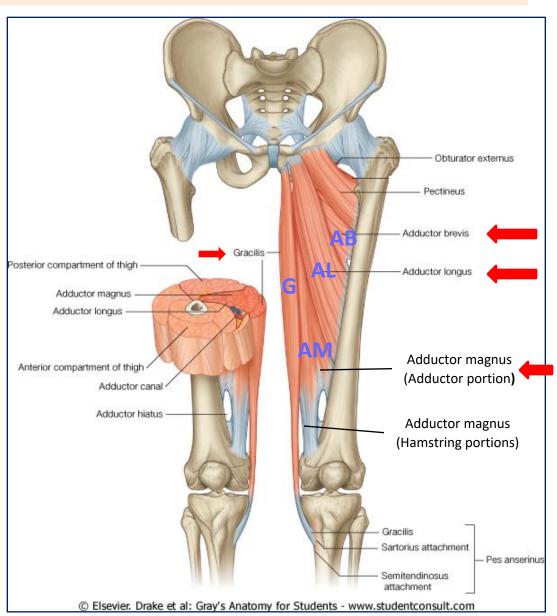


## **MEDIAL COMPARTMENT OF THIGH**

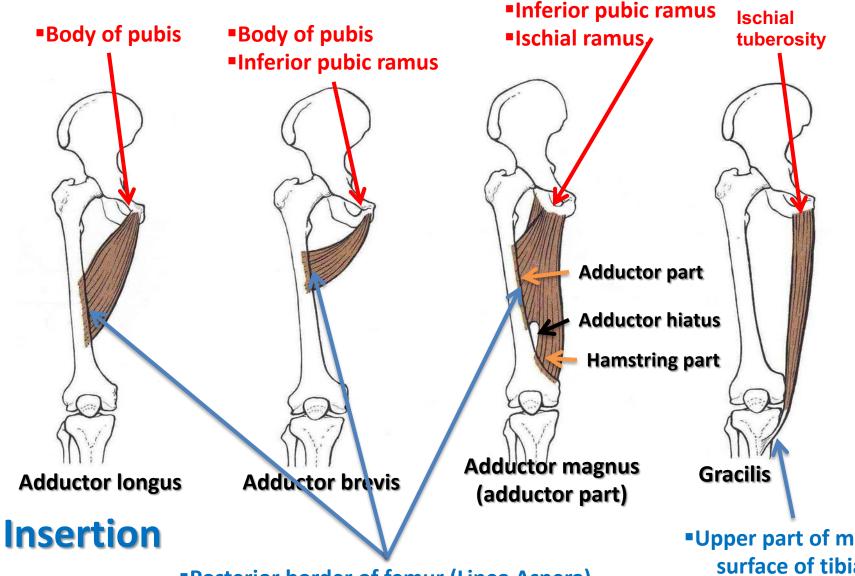
#### **MUSCLES:**

- 1. Adductor longus
- 2. Adductor brevis
- 3. Adductor magnus (Adductor part)
- 4. Gracilis
- **DACTION:**
- ADDUCTION OF HIP JOINT
- N.B.: Gracilis also <u>flexes</u> <u>knee joint</u> + adduction of thigh

#### **DNERVE SUPPLY:** OBTURATOR NERVE







Posterior border of femur (Linea Aspera)

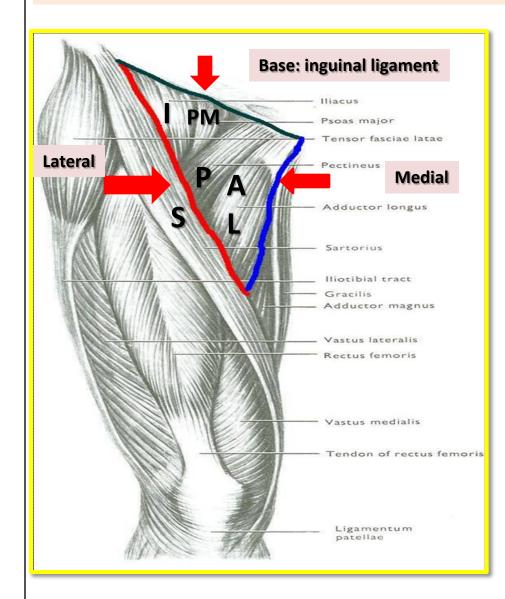
 Upper part of medial surface of tibia (behind sartorius)

#### SITE:

# Upper 1/3 of front of thigh **BOUNDARIES:**

- **Base:** inguinal ligament
- **Lateral:** medial border of sartorius
- **Medial:** medial border of adductor longus
- **ROOF**:
- □ Fasciae: superficial & deep
- **FLOOR:** From medial to lateral
- **Adductor longus**
- **Pectineus**
- **Psoas major**

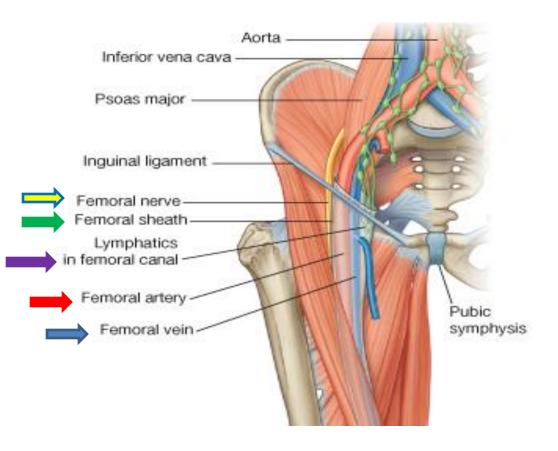
## **FEMORAL TRIANGLE**

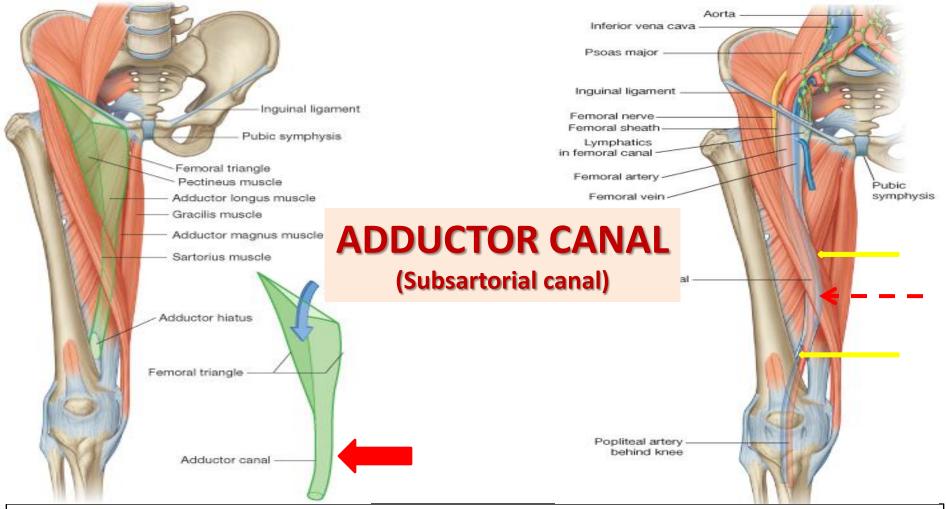


#### **CONTENTS:**

- Femoral vein
- **Germoral artery**
- Both vein & artery are enclosed in a fascial envelope (Femoral sheath)
- Germonal nerve
- Deep inguinal lymph nodes

## **FEMORAL TRIANGLE**





DEFINITION: intermascular passage of <u>A fascial envelope for femoral artery &</u> vein to become the popliteal vessles in the popliteal fossa at the back of knee.
SITE: In middle 1/3 of front of thigh
EXTENT: From apex of femoral triangle to adductor hiatus (in adductor magnus)
BOUNDARIES: \*Roof: Sartorius

\*Floor: Adductor longus & magnus