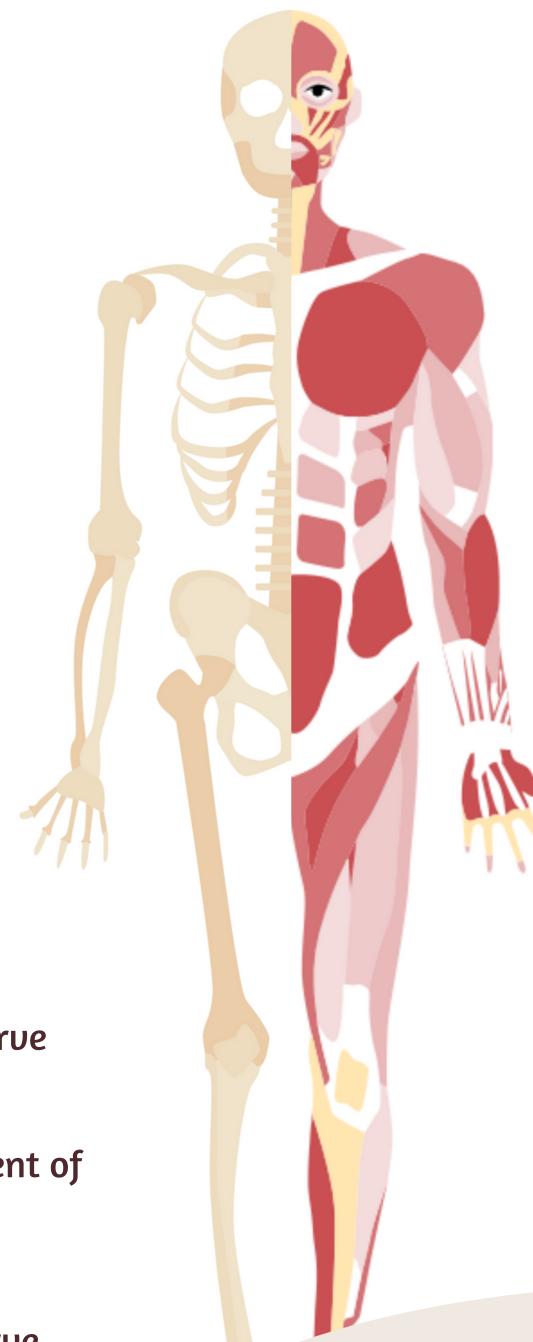


FRONTAL & MEDIAL SIDE OF THE THIGH



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



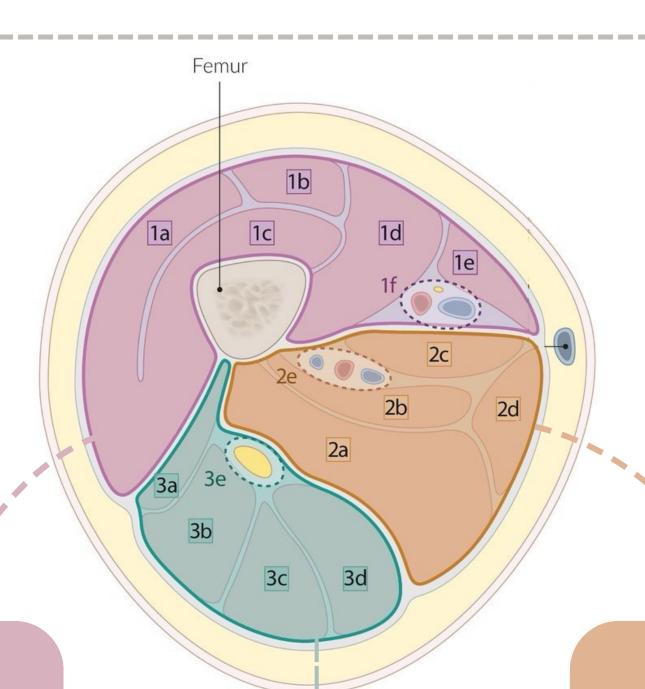
Color Index:

- Main text
- Boys' Slides
- Girls' Slides
- Important
- Dr's Note
- Extra



The Thigh

The Thigh is divided into 3 compartments by 3 inter-muscular septa (extending from deep fascia into femur):



Anterior compartment

Extensors of knee:

Quadriceps femoris

Flexors of hip:

Sartorius
Pectineus
psoas major
Iliacus

Nerve supply:

Femoral nerve

(L2,3,4)

Posterior compartment

Flexors of knee & Extensor of hip:
Hamstrings

Nerve supply:

Sciatic nerve (L4,5,S1,2,3)

Medial compartment

Adductors of hip:

Adductor longus
Adductor brevis
Adductor magnus
(adductor part)
Gracilis

Nerve supply:

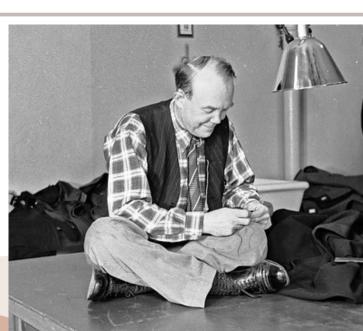
Obturator nerve

(L2,3,4)

Anterior compartment of thigh

	Flexor of hip			
Muscle Name	Sartorius	Pectineus	Iliopsoas (Iliacus + Psoas major)	
Origin	Anterior superior iliac spin (ASIS)	Superior pubic ramus		
Insertion	Upper part of medial surface of tibia	Back of femur (below lesser trochanter)	Lesser trochanter of femur	
Action	(TAILOR'S POSITION) -Flexion, abduction & lateral rotation of hip joint -Flexion of knee joint	Flexion & adduction of hip joint	Flexion of hip joint (the Main flexors)	
Nerve supply	Femoral nerve			
Picture	Sartorius M	Pectineus M.	Psoas Major M. Psoas Minor M. Iliacus M.	

(TAILOR'S POSITION)





Anterior compartment of thigh

	Extensors of knee: Quadriceps femoris			
Muscle Name	Rectus femoris	Vastus intermedius	Vastus medialis	Vastus lateralis
Origin	Anterior inferior iliac spine (AIIS) (Hip bone)	Front of shaft of femur (Ant. & Lat.)		rder of femur d shaft of femur)
Insertion	Into PATELLA (Patella is a sesamoid bone) then From patella into TUBEROSITY OF TIBIA through LIGAMENTUM PATELLAE (PATELLAR LIGAMENT)			
Action	Extension of knee joint			
Nerve supply	Femoral nerve			
pictures	Rectus Femoris M.			

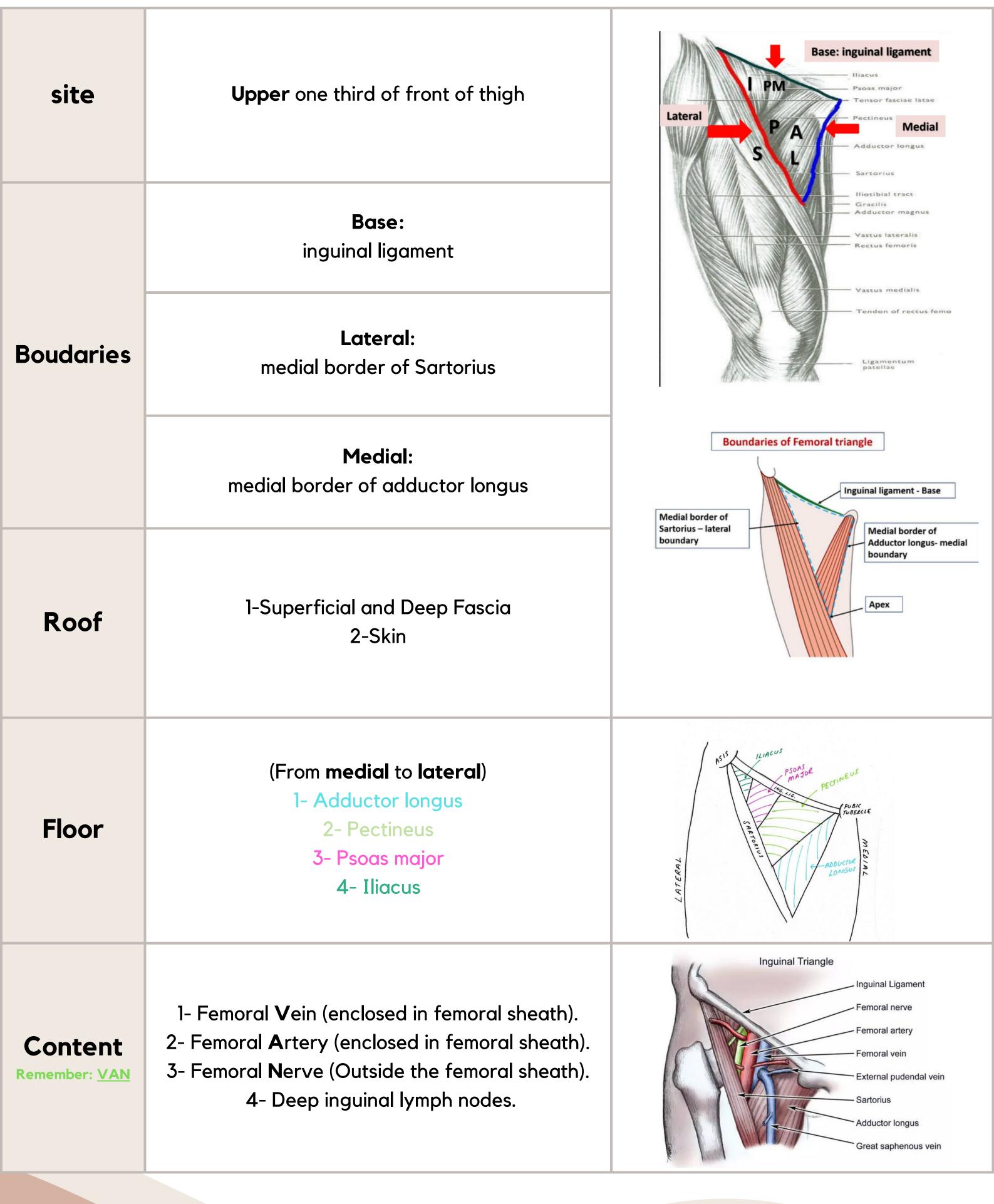
Medial compartment



muscle	Adductor longus	Adductor brevis	Adductor magnus (adductor part)	Gracilis
origin	Body of pubis	-interior bubic		oubic ramus al ramus
insertion	Posterior border of femur (Linea Aspera)		-Upper part of medial surface of tibia (behind sartorius)	
Action	Adduction of hip joint (Insertion ——> origin)		-Adduction of hip joint -flexes knee joint - Adduction of thigh	
Nerve supply	Obturator nerve			
Pictures	Origin: body of pubis Origin: body of pubis, inferior pubic ramus Insertion: Adductor holitus Antienor view Posterior view Antienor view Posterior view		Origin: inferior pubic ramus, ischial ramus Gracilis? Insertion: Upper part of medial surface of tibia	

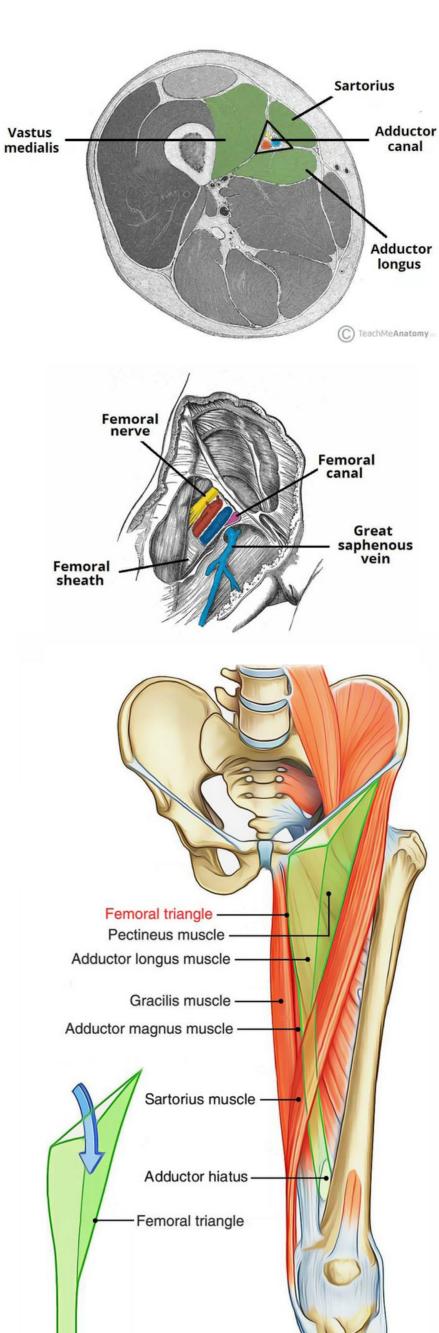
Femoral triangle





Adductor canal (subsartorial canal)

Definition	Intermuscular passage of A fascial envelope for femoral artery & vein to become the popliteal vessels in the popliteal fossa at the back of knee.
Site	In middle one third of front of thigh
Extent	From apex of femoral triangle to adductor hiatus (in Adductor magnus)
	Roof : Sartorius
Boundaries	Floor: Adductor longus + Adductor magnus

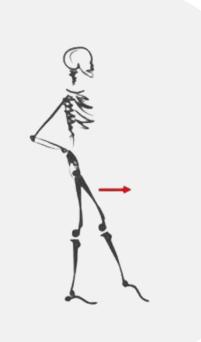


Adductor canal

SUMMARY of Muscle Action

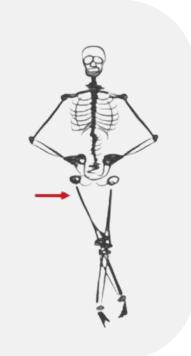
Flexion

Sartorius pectinous iliopsoas



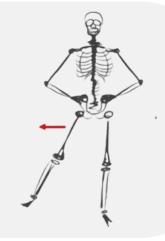
Adduction

pectinous Adductor longus Adductor brevis Adductor magnus (Adductor Part) Gracilis



Abduction

Sartorius



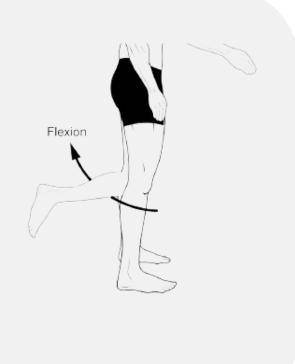
Lateral rotation

Sartorius



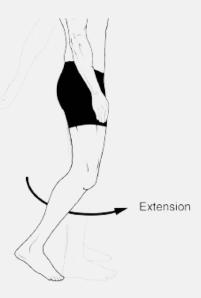
Flexion

Sartorius Gracilis



Extension

Rectus femoris Vastus lateralis Vastus medialis Vastus intermedius



SUMMARY of Innervation

MEDIAL COMPARTMENT "OBTURATOR NERVE"

ANTERIOR COMPARTMENT "FEMORAL NERVE"

1

Which one of the following muscles is supplied by femoral nerve?

- A) Sartorius
- B) Gracilis
- C) Adductor longus
- D) Adductor brevis

2

The site of the <u>femoral triangle</u> is:

- A) Lower One third of back of thigh
- B) Upper One third of front of thigh
- C) Lower tow third of front of thigh
- D) Upper tow third of front of thigh

3

All the muscles listed below are inserted into Linea aspera EXCEPT:

- A) Adductor brevis
- B) Adductor longus
- C) Adductor magnus
- D) Gracilis

The floor of <u>subsartorial canal</u> is:

- A) Adductor longus
- B) Adductor brevis
- C) Adductor magnus
- D) A and C

5

The floor of Femoral Trinagle includes all of the following except:

- A) Iliacus
- B) Gracilis
- C) Psoas major
- D) Adductor longus



1-A 2-B 3-D 4-D 5-B

SAQS

Describe the anatomy of femoral triangular. Includes Site, borders and contents:



Located in upper one third of thigh.

• Borders:

Medially: Medial border of Adductor longus

Laterally: Medial border of Sartorius

Base: Inguinal ligament

Roof: Superficial and deep fascia - Skin

Floor(medial to Lateral): Adductor longus - pectineus - Psaos Major -

Iliacus

Contents:

Femoral Vein

Femoral Artery

Femoral Nerve

deep inguinal lymph nodes

Describe the anatomy of Adductor(Supsartorial) Canal. Includes Site, borders and contents:





Intermuscular passage of fascial envelope for **femoral artery and femoral vein** to become the **popliteal Vessels** in the popliteal fossa at the back of the knee

Located in Middle one third of thigh.

Extend from Apex of Femoral Triangle to the adductor Hiatus.

• Borders:

Roof: Sartorius musle

Floor: Adductor longus - Adductor magnus



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