(Anterior Fascial Compartment of the Thigh)

Nerve supply: Femoral nerve except psoas major which is innervated by lumbar plexus

Blood supply: Femoral Artery

(Medial Fascial Compartment of the Thigh)

| OBTURATOR EXTERNUS | ADDUCTOR MAGNUS | ADDUCTOR BREVIS | ADDUCTOR LONGUS | GRACILIS | Muscle |
|--|---|----------------------------|---|---|----------|
| Outer surface of obturator membrane and pubic and ischial rami | Ischio-pubic ramus | Inferior ramus of pubis | Body of pubis, medial to pubic tubercle | Inferior ramus of pubis, ramus of ischium | Origin |
| Medial surface of greater trochanter | mainly linea aspera, gluteal tuberosity and medial supracondylar line | (linea aspera) | Particular of the first of factors | Upper part of shaft of tibia on medial surface (SGS) area | Insertio |
| Laterally rotates thigh at hip joint | | Adducts thigh at hip joint | | Adducts thigh at hip joint; flexes leg at knee joint | Action |

Nerve supply: Obturator Nerve

Blood supply: Profunda Femoris Artery and Obturator Artery

(Gluteal Region)

| tilting of the pelvis to the unsupported side | | | | |
|---|------------------------|--|---|---------------------|
| Both muscle contract reflex on each side alternatively during walking to prevent | | | | GLUTUES MINIMUS |
| Abduction (main abductor of the hip joint) Medial rotation/anterior (here) | Superior gluteal nerve | Greater trachanter of femur | | GLUTEUS MEDIUS |
| Assist gluteus maximus in extending the knee joint | | lliotibial tract | lliac crest | TENSOR FASCIAE LATA |
| (main extensor of the hip joint) Supports the Extended knee joint through lilotibial tract Plays an important role in climbing cycling and upstairs | Inferior gluteal nerve | Inserted into the illotibial tract The lower deeppart is inserted into the gluteal tuberosity of femur | 2-Back of sacrotuberous ligament 3-Back of sacrotuberous ligament | SECTION MAXIMOS |
| Action | N-S | Insertion | Origin | Muscle |

Short LATERAL ROTATOR muscles of the hip joint: 1. PIRIFORMIS

- 2. SUPERIOR GEMELLUS
 3. OBTURATOR INTERNUS
 4. INFERIOR GEMELLUS
- QUADRATUS FEMORIS
- 6. OBTURATOR EXTERNUS

(Posterior Fascial Compartment of the Thigh)

| Marva supply : Sciatio narva | ADDUCTOR MAGNUS HAMSTRING PORTION ISCHIAL PART | SEMIMEMBRANOSUS | SEMITENDINOSUS | BICEPS FEMORIS | Muscle |
|------------------------------|--|---------------------------------|---|--|-----------|
| Scietic norve | | Ischial tuberosity | | Long head: ischial tuberosity Short head: linea aspera, lateral supracondylar ridge of shaft of femur | Origin |
| 11-1 | Adductor tubercle of femur | Medial condyle of tibia | Upper part of medial surface of shaft of tibia (SGS area) | Head of fibula | Insertion |
| | | Tibial portion of sciatic nerve | | Long head: tibial portion of sciatic nerve Short head: common peroneal portion of sciatic nerve | N.S |
| 14 | Extends thigh at hip joint | | Flexes and medially rotates leg at knee joint; extends thigh at hip joint | Flexes and <u>laterally</u> rotates leg at knee joint; long head also extends thigh at hip joint | Action |

Nerve supply: Sciatic nerve

Blood supply: Branches of the profunda femoris artery

(Anterior Fascial Compartment of the Leg.)

| PERONEUS TERTIUS | EXTENSOR HALLUCIS LONGUS | EXTENSOR DIGITORUM LONGUS | TIBIALIS ANTERIOR | Muscle |
|------------------|--|---|---------------------------------------|--------|
| | The anterior surface of shaft of fibula | | Lateral surface of the shaft of tibia | Origin |
| | at subtalar and transverse tarsal joints while any muscle got (peroneus) in its name will Everts foot at subtalar and transverse tarsal joints | (in other words to stand up on the heels) In addition any muscle that got (tibialis) in its name will invert the foot | The main actions of these muscles are | Action |

Nerve supply: Deep Peroneal Nerve Blood supply: Anterior Tibial Artery

(Lateral Fascial Compartment of the Leg)

| PERONEUS BREVIS | PERONEUS LONGUS | Muscle |
|---|---|-----------|
| Body of pubis, medial to pubic tubercle | The lateral surface of shaft of fibula | Origin |
| | Base of first metatarsal and the medial cuneiform bone (passes through a groove in the Cuboid bone. | Insertion |
| | both flex the foot at the ankle joint Evert the foot at the subtalar and transverse tarsal joints | Action |

Nerve supply: Superficial Peroneal Nerve

Blood supply: Branches from the Peroneal Artery

(Posterior Fascial Compartment of the Leg) Superficial:

| | This muscle some times is absent | | PLANTARIS |
|--|--------------------------------------|---|---------------|
| Together with gastrocnemius and plantaris is powerful plantar flexor of ankle joint; provides main propulsive force in walking and running | surface of calcaneum | Shafts of tibia and fibula | SOLEUS |
| Plantar flexes foot at ankle joint Flexes knee joint | Viz tondo callegación interpretarios | Lateral head from lateral condyle of femur Medial head from above medial condyle | GASTROCNEMIUS |
| Action | Insertion | Origin | Muscle |

Deep:
1. POPLITEUS
2. FLEXOR DIGITORUM LONGUS

3. FLEXOR HALLUCIS LONGUS

4. TIBIALIS POSTERIOR

Nerve supply: Tibial Nerve

Blood supply: Posterior Tibial Artery

(Muscles of the Sole of the Foot)

FIRST LAYER:

2- FLEXOR DIGITORUM BREVIS 3-ABDUCTOR DIGITI MINIMI 1- ABDUCTOR HALLUCIS

3-FLEXOR DIGITORUM LONGUS TENDON 4- FLEXOR HALLUCIS LONGUS TENDON SECOND LAYER: 1-QUADRATUS PLANTAE 2-LUMBRICALS

THIRD LAYER:

3- FLEXOR DIGITI MINIMI BREVIS 1-FLEXOR HALLUCIS BREVIS 2-ADDUCTOR HALLUCIS

FOURTH LAYER:

3-TIBIALIS POSTERIOR TENDON 2-PERONEUS LONGUS TENDON 1-INTEROSSEI