

# Lower limb: gluteal and thigh regions

## Chapter 5 (Lower limb): (p. 545-583)

### GENERAL OBJECTIVES:

- Muscles of gluteal and thigh regions of the lower limb
- Supply of gluteal and thigh regions of the lower limb

### SPECIFIC OBJECTIVES:

#### **1. Muscles of gluteal region and thigh**

Deep Fascia

Iliofemoral Ligament --> Pectineal Part (Lacunar Ligament)

Fascia Lata --> Iliotibial Tract

Intermuscular Septa (3) --> Compartments (3)

Muscles of Hip and Thigh

Iliac Muscles (From Posterior Abdominal Wall):

Psoas Major & Iliacus (-> 'Ilio-Psoas')

Muscles of Gluteal Region

Tensor Fascia Lata

Gluteus Maximus

Gluteus Medius

Gluteus Minimus

Piriformis

Obturator Internus

Superior Gemellus

Inferior Gemellus

Quadratus Femoris

Anterior Compartment of Thigh

Sartorius

Rectus Femoris, Vastus Lateralis/Medialis/Intermedius ('Quadriceps')

Pectineus

Medial Compartment of Thigh

Gracilis

Adductor Longus

Adductor Brevis

Adductor Magnus

Obturator Externus

Posterior Compartment of Thigh

Semitendinosus

Semimembranosus

Biceps Femoris

#### **2. Topographic anatomy of gluteal region and posterior thigh**

Boundaries:

Roof (Gluteus Maximus)

Floor (with Greater and Lesser Sciatic Foraminae)

Contents:

Sciatic Nerve

Other Branches of Sacral Plexus:

Superior & Inferior Gluteal Nerves, Posterior Cutaneous Nerve of Thigh  
Nerves to Obturator Internus & Quadratus Femoris, Pudendal Nerve  
Superior & Inferior Gluteal Vessels, Internal Pudendal Artery  
Branches of Medial Circumflex Femoral Artery, Anastomoses around Hip Joint

Posterior Compartment of Thigh  
Sciatic Nerve

### **3. Topographic anatomy of anterior and medial thigh regions**

Femoral Triangle

Boundaries:

Base (Inguinal Ligament)  
Roof - with: Great Saphenous Vein  
Superficial Inguinal Lymph Nodes  
Saphenous Opening/Cribriform Fascia

Floor

Lateral & Medial Walls, Apex

Contents:

Femoral Sheath (with lateral, Middle & Medial Compartments)  
Femoral Canal -> Femoral Ring  
Femoral Artery and Branches  
Profunda Femoris Artery  
Medial & Lateral Circumflex Femoral Arteries

Femoral Vein & Tributaries:  
Great Saphenous Vein

Deep Inguinal Lymph Nodes

Femoral Nerve and Branches  
Saphenous Nerve

Subsartorial (Adductor) Canal

Boundaries: Roof, Lateral Wall & Floor (with Hiatus in Adductor Magnus)

Contents: Femoral Artery  
Femoral Vein  
Saphenous Nerve  
Nerve to Vastus Medialis

Anterior Compartment of Thigh

Branches of Lateral Circumflex Femoral Artery  
Terminations of Perforating Arteries  
Muscular branches of Femoral Nerve

Medial Compartment of Thigh

Obturator Foramen  
Obturator Nerve (Anterior & Posterior Divisions)  
Obturator Vessels  
Profunda Femoris Vessels  
Perforating Arteries