Unit 37:

Lower limb: gluteal and thigh regions

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
Iliac Fascia
Inguinal 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