MUSCULOSKELETAL SYSTEM

< MUSCLES OF GLUTEAL REGION >

< ANATOMY >

DONE BY: BUTHAINAH MFM
Sciatic Foramina

Sacrotuberosus ligament from the medial part of sacrum toward tuberosity. Intersection with Sacrospinous ligament to form greater sciatic foramen & lesser sciatic foramen.

There are a physical barrier between the pelvis and perineum, it was formed through pelvic muscles diagram (pelvic floor).

**Sciatic Foramina: Connections**

- **Greater sciatic foramen** exit of pelvic inside toward the lower limb posterior.
- **Anterior** the lingual lig and between the hip bone the exit of inferior lower limb toward femoral triangle.
- **Lesser sciatic foramen** interns toward the perineum.
- The Neurovascular bundle which feeds perineum go from the greater sciatic foramina to Lesser sciatic foramen.
- **Piriformis muscle** the only muscle that deep toward Greater sciatic foramen.
  - Attachment: sacrum anterior
  - Insert: greater trochanter of femur.
- All the nerve of sacral plexus cross Greater sciatic foramen also all the branch is below the Piriformis muscle except superior gluteal nerve is above.
- **Obturator internus** muscle the only muscle cross the Lesser sciatic foramen, part of this muscle one inside the pelvic and other on in the perineum, so this muscle part of pelvic floor.
  - Attachment: obdurate foreman
  - Insert: greater trochanter of femur
- The branch of sacral plexus that feed the primum just cross the Lesser sciatic foramen (pudendal.n/internal pudendal.n/obturator internus.n) also internal pudendal artery.
- The pudendal.n important to know that exit from Greater sciatic foramen and inter Lesser sciatic foramen.
Muscles of Gluteal Region

- **The deep layer** is posterior to femur and and deep to superficial muscle.
- **Gluteus Maximus** mainly extensor action if buttock bulging you can feel the body posterior contraction, its **posterior medial** to pelvis fossa.
  - **orientation**: medial superior to inferior lateral
  - **Attachment**: iliac crest, sacrum
  - **Insert**: deep, to the bone its self (superior posterior of femur)
  - **superficial**, ilia tuba trochanter in fascia
- **Gluteus Medius m,Gluteus minimus m ,Tensor fasciae latae** abductor and slit medial rotation (anterior fibers).
- **Gluteus Medius/minimus**
  - **Orientation**: deep anterior later of pelvis fossa.
  - **Attachment**: between anterior and posterior gluteal line in illum
  - **Insert**: grater trochanter.
- **Tensor fasciae latae** muscle fiber with in ilia tuba trochanter in fascia.
- ilia tuba trochanter its thicken lateral from fascia lata.
- **Relations Neurovascular bundle**:
  - Between the Gluteus Medius and gluteus minimus ➔ superior gluteal nerve and artery.
  - Between the gluteus Maximus and piriformis ➔ inferior gluteal nerve and artery.
- The gluteus Maximus muscle has relation with deep layer.
- All the fiber of deep layer cross the hip joint posterior so give us lateral rotators.
- sciatic nerve superficial to all the deep muscle except the piriformis muscle.

**Surface Anatomy of Buttock**

- gluteal fold = sulcus skin fold.