

## Unit 37: Topographic anatomy: **Lower limb: gluteal and thigh regions**

### Guide for the practical class using Anatomedia online

#### Topography of gluteal and thigh regions

1. Go to An@tomedica, **lower limb** module-regions-frames: **01 and 05** (Surface margins of lower limb, Regions of lower limb)
  - Activate 'can you identify' to demarcate the lower limb (from abdomen, pelvis and back) and distinguish anterior and posterior regions
2. Go to An@tomedica, **lower limb** module-regions-frame: **04** (Aperture to lower limb)
  - Click on underlined text to identify space under the inguinal ligament, obturator canal and sciatic foramina
  - Activate 'can you identify' to demarcate apertures of lower limb, paths of different apertures, paths of main neurovascular bundles
3. Go to An@tomedica, **lower limb** module-regions-frames: **08 and 09** (Femoral sheets and femoral canal, Femoral triangle roof and its opening)
  - Turn on the 'lm' button to demarcate femoral triangle
  - Click on underlined text to review muscles and fascia of femoral triangle, contents of femoral sheet compartments, anatomy of femoral hernia and structures in femoral triangle roof
  - Activate 'can you identify' to see boundaries of femoral ring, contents of femoral sheet and contents of femoral triangle roof
4. Go to An@tomedica, **lower limb** module-regions-frame: **10 to 13** (Femoral triangle walls and floor, nerves and vessels, arrangement within femoral triangle)
  - Click on underlined text to review structures forming walls and floor of femoral triangle, its neurovascular and muscular contents
  - Activate 'can you identify' to see walls and contents of femoral triangle
5. Go to An@tomedica, **lower limb** module-regions-frame: **14 and 15** (Anterior and medial compartments of thigh)
  - Click on underlined text to review muscles, vessels and nerves of anterior and medial compartment of the thigh
  - Activate 'can you identify' to see components anterior and medial compartments

6. Go to An@tomedica, **lower limb** module-regions-frame: **21 and 22** (Gluteal region roof, floor and foramina)

-Click on underlined text to review cluneal nerves, muscles of gluteal region and structures passing through greater and lesser sciatic foramina

-Activate 'can you identify' to see structures in superficial and deep compartments of gluteal region

7. Go to An@tomedica, **lower limb** module-regions-frames: **23 and 24** (Gluteal region nerves and vessels, Posterior compartment of thigh)

-Click on underlined text to review nerves and vessels of gluteal region and contents of posterior compartment of thigh

-Activate 'can you identify' to see neurovascular structures of gluteal region and all structures in posterior compartment

### **Lower limb muscles of gluteal region and thigh**

8. Go to An@tomedica, **lower limb** module-systems-frames: **22 and 23** (Sartorius and pectineus, quadriceps femoris)

-Click on underlined text to identify names, positions, attachments, function and supply of individual muscles presented on these frames

-Activate 'can you identify' to see positions and attachments of these muscles

9. Go to An@tomedica, **lower limb** module-systems-frames: **24, 25 and 26** (Thigh medial compartment muscles, gluteal muscles, hamstring muscles)

-Click on underlined text to identify names, positions, attachments, function and supply of individual muscles presented on these frames

-Activate 'can you identify' to see positions and attachments of these muscles

### **Nerves and blood vessels of gluteal region and thigh**

10. Go to An@tomedica, **lower limb** module-systems-frame: **45** (Lumbosacral plexus)

-Click on underlined text to review branches of the lumbosacral plexus, those arising directly from lumbar and sacral plexuses, variations in their anatomy and their clinical importance

-Activate 'can you identify' to visualize nerves arising from anterior/posterior divisions of lumbar/sacral plexuses

11. Go to An@tomedica, **lower limb** module-systems-frame: **46, 47 and 48** (Femoral, obturator and sciatic nerves)

-Click on underlined text to review divisions, paths and branches of femoral, obturator and sciatic nerves

-Activate 'can you identify' to visualize branches of above nerves

12. Go to A@tomedica, **lower limb** module-systems-frame: **51 and 54** (Femoral and popliteal arteries, Deep veins of lower limb)

-Click on underlined text to review branches of the femoral artery, their variations and clinical relevance, the arrangement of peripheral veins and their tributaries

-Activate 'can you identify' to visualize the above arterial branches and venous tributaries

### **Dissection of gluteal region and thigh**

13. Go to An@tomedica, **lower limb** module-dissection-frames: **01 to 06** (Femoral triangle: LAYER-BY-LAYER DISSECTION)

-Turn on the colored buttons to highlight different dissected structures, from surface to deep

-Activate 'can you identify' to see dissected structures

14. Go to An@tomedica, **lower limb** module-dissection-frames: **07 to 11** (Anterior thigh: LAYER-BY-LAYER DISSECTION)

-Turn on the colored buttons to highlight different dissected structures, from surface to deep

-Activate 'can you identify' to see dissected structures

15. Go to An@tomedica, **upper limb** module-dissection-frames: **21 to 26** (Gluteal region: LAYER-BY-LAYER DISSECTION)

-Turn on the colored buttons to highlight different dissected structures

-Activate 'can you identify' to see dissected structures

16. Go to An@tomedica, **upper limb** module-dissection-frames: **27 to 31** (Posterior thigh: LAYER-BY-LAYER DISSECTION)

-Turn on the colored buttons to highlight different dissected structures

-Activate 'can you identify' to see dissected structures