

OSTEOLOGY 3

Skeleton and joints of the pelvic girdle, the ilium, the pubis, the ishium, joints of the pelvis, the pelvis as a whole. Skeleton of the free lower limb, the femur, the patella, the hip joint, bones of the leg, the tibia, the fibula, the knee joint, bones of the foot (tarsal bones, the calcaneus, the talus, the navicular, the cuboid, the cuneiforms), the ankle joint, the subtalar joint, the talocalcaneonavicular joint, the calcaneocuboid joint, metatarsal bones, talometarsal joints, bones of the toe, the metatarsophalangeal joints, the interphalangeal joints (proximal, distal)

STRUCTURES TO BE RECOGNIZED^{i,ii}

BONES

Hip bone (coxal bone, pelvic bone)

Acetabulum

- Acetabular margin
- Acetabular fossa
- Acetabular notch
- Lunate surface

Ischiopubic ramus

Obturator foramen

Greater sciatic notch

Ilium

- Body of ilium
- * Supra-acetabular groove
- Ala of ilium (wing of ilium)
- Arcuate line
- Iliac crest
- * Outer lip
- *Tuberculum of iliac crest
- * Intermediate zone
- * Inner lip
- * Anterior superior iliac spine
- * Anterior inferior iliac spine
- * Posterior superior iliac spine
- * Posterior inferior iliac spine
- * Iliac fossa
- Gluteal surface
- * Anterior gluteal line
- * Posterior gluteal line
- * Inferior gluteal line
- Sacropelvic surface
- * Auricular surface
- * Iliac tuberosity

Ischium

- Body
- Ramus
- * Ischial tuberosity
- Ischial spine
- Lesser sciatic notch

Pubis

- Body

- * Pubic tubercle
- * Symphyseal surface
- * Pubic crest
- Superior pubic ramus
- * Iliopubic ramus
- * Pecten pubis
- * Obturator crest
- * Obturator groove
- * Anterior obturator tubercle
- * Posterior obturator tubercle
- Inferior pubic ramus

Pelvis

- Pelvic cavity
- Pubic arch
- Subpubic angle
- Greater pelvis
- Lesser pelvis
- Linea terminalis
- Pelvic inlet
- Pelvic outlet

Femur

- Head
- Fovea for ligament of head
- Neck
- Greater trochanter
- Trochanteric fossa
- Lesser trochanter
- Intertrochanteric line
- Intertrochanteric crest
- Shaft of femur
- Linea aspera
- * Medial lip
- * Lateral lip
- Pectineal line
- Gluteal tuberosity
- Popliteal surface
- Medial supracondylar line
- Lateral supracondylar line
- Medial condyle
- Medial epicondyle
- Adductor tubercle

Lateral condyle

- Lateral epicondyle
- Groove for popliteus

Patellar surface

Intercondylar fossa

Intercondylar line

Patella

Base of patella

Apex of patella

Articular surface

Anterior surface

Tibia

Superior articular surface

Medial condyle

Lateral condyle

- Fibular articular facet

Anterior intercondylar area

Posterior intercondylar area

Intercondylar eminence

- Medial intercondylar tubercle
- Lateral intercondylar tubercle

Shaft

- Tibial tuberosity

- Medial surface

- Posterior surface

- * Soleal line

- Lateral surface

- Anterior border

- Medial border

- Interosseous border

Medial malleolus

- Malleolar groove

- Articular facet

Fibular notch

Inferior articular surface

Fibula

Head

- Articular facet

- Apex of head

Neck

Shaft

- Lateral surface
- Medial surface
- Posterior surface
- * Medial crest
- Anterior border
- Interosseous border
- Posterior border
- Lateral malleolus
- Articular facet
- Malleolar fossa
- Malleolar groove
- Talus**
- Head
- Navicular articular surface
- Anterior facet for calcaneus
- Neck
- Middle facet for calcaneus
- Sulcus tali
- Body
- Trochlea of talus
- * Superior facet
- Lateral malleolar facet
- * Lateral process
- Medial malleolar facet
- Posterior process
- * Groove for tendon of flexor hallucis longus
- * Lateral tubercle
- * Medial tubercle
- Posterior calcaneal articular facet
- Calcaneus**
- Calcaneal tuberosity
- Medial process
- Lateral process
- Calcaneal tubercle
- Sustentaculum tali (talar shelf)
- * Groove for tendon of flexor hallucis longus
- Calcaneal sulcus
- Tarsal sinus
- Anterior talar articular surface
- Middle talar articular surface
- Posterior talar articular surface
- Groove for tendon of fibularis

- longus
- Fibular trochlea
- Articular surface for cuboid
- Navicular**
- Tuberosity
- Medial cuneiform**
- Intermediate cuneiform**
- Lateral cuneiform**
- Cuboid**
- Groove for tendon of fibularis longus
- Metatarsals (I-V)**
- Base
- Shaft
- Head
- Tuberosity of first metatarsal bone
- Tuberosity of fifth metatarsal bone
- Phalanges**
- Proximal phalanx
- Middle phalanx
- Distal phalanx
- Tuberosity of distal phalanx
- Base of phalanx
- Shaft of phalanx
- Head of phalanx

JOINTS

Joints of vertebral column:

- Anterior longitudinal ligament
- Iliolumbar ligament
- Posterior sacrococcygeal ligament
- Anterior sacrococcygeal ligament

Joints of pelvic girdle:

- Obturator membrane
- Obturator canal
- Pubic symphysis
- Superior pubic ligament
- Inferior pubic ligament
- Sacro-iliac joint
- Anterior sacro-iliac ligament
- Posterior sacro-iliac ligament
- Sacro-tuberous ligament

- Falciform process
- Sacrospinous ligament
- Greater sciatic foramen
- Lesser sciatic foramen
- Joints of free lower limb:**
- Hip joint
- Iliofemoral ligament
- * Transverse part
- * Descending part
- Ischiofemoral ligament
- Pubofemoral ligament
- Acetabular labrum
- Transverse acetabular ligament
- Knee joint
- Lateral meniscus
- Medial meniscus
- Transverse ligament of the knee
- Anterior cruciate ligament
- Posterior cruciate ligament
- Fibular collateral ligament
- Tibial collateral ligament
- Patellar ligament
- Tibiofibular joint (superior tibiofibular joint)
- Tibiofibular syndesmosis (inferior tibiofibular joint)
- Ankle joint
- Subtalar joint (talocalcaneal joint)
- Transverse tarsal joint
- Talocalcaneonavicular joint
- Calcaneocuboid joint
- Cuneonavicular joint
- Intercuneiform joints
- Tarsometatarsal joints
- Intermetatarsal joints
- Metatarsophalangeal joints
- Intephalangeal joints of foot

ⁱ in specimens and models

ⁱⁱ All the above structures are to be found and recognized during your laboratory class. Nevertheless, knowledge about other structures mentioned in your textbooks and atlases is obligatory as well. We can ask about them in the intermediate test and the final examination test. Some textbook figures can appear in the MCQ questions.