

Bones

I. Inominate (L. with no name)

A. Ilium (L. flank)

1. Iliac crest
 - a. Anterior superior iliac spine (short, sharp bony process)
attachments – inguinal lig., sartorius & tensor fascia lata m.
 - b. Tubercle of crest
attachments – external oblique
2. Anterior border
 - a. Anterior inferior iliac spine
attachments – rectus femoris m. & iliofemoral lig
3. Posterior border
attachments – sacrotuberous lig.
 - a. Posterior superior iliac spine
attachments – gluteus maximus m.
 - b. Greater sciatic notch (L. sciaticus, the hip joint)
function – transmits piriformis m., superior & inferior gluteal a. & v., internal pudendal a. & v., & sciatic, pudendal, & superior & inferior gluteal n.
4. Gluteal surface
attachments – gluteus maximus, gluteus medius & gluteus minimis m.
 - a. Posterior gluteal line
 - b. Anterior gluteal line
 - c. Inferior gluteal line
5. Iliac fossa (L. a trench or ditch)
attachments – iliacus m.
6. Sacropelvic surface
 - a. Iliac tuberosity
attachments – dorsal sacroiliac, interosseous sacroiliac & iliolumbar lig, & quadratus lumborum m.
 - b. Articular surface
function – articulates with sacrum

B. Pubis (pubic bone)

1. Body
 - a. Pubic crest
attachments – rectus abdominis & adductor longus m.
 - b. Tubercle
attachments – inguinal lig.
2. Superior pubic ramus
attachments – pectineus, obturator internus & obturator externus m.
 - a. Pecten pubis (pectineal line) (L. comb)
attachments – conjoint tendon, & lacunar & pectineal lig.
 - b. Obturator groove
function – transmits obturator n., a. & v.
 - c. Iliopubic eminence (L. to stand out, project)
attachments – pubofemoral lig.
3. Inferior pubic ramus
 - a. External surface
attachments – gracilis, adductor brevis & obturator externus m.
 - b. Internal surface
attachments – obturator internus m.

C. Ischium (G. ischion, hip joint, haunch)

1. Body
 - a. Lesser sciatic notch
function – transmits obturator internus tendon, pudendal n., & internal pudendal a. & v.
 - b. Ischial spine
attachments – sacrospinous lig. & superior gemellus m.
2. Ischial ramus
 - a. Anterior surface

- attachments – obturator externus & adductor magnus m.
 - b. Posterior surface
 - attachments – obturator internus m.
- 3. Ischial tuberosity
 - attachments – sacrotuberous lig., & adductor magnus, semimembranosus, semitendinosus, biceps femoris & quadratus femoris m.
- 4. Obturator foramen
 - function – transmits the obturator n., a. & v.
- D. Acetabulum
 - 1. Lunate surface
 - functions – articulates with head of femur
 - 2. Notch
 - attachments – lig. of the head of the femur (teres)
- II. Femur (L. thigh)
 - A. Head
 - 1. Fovea (L. pit)
 - attachments – lig. of the head (teres)
 - B. Neck
 - 1. Intertrochanteric line
 - attachments – joint capsule, iliofemoral lig. & vastus lateralis & vastus medialis m.
 - 2. Intertrochanteric crest
 - a. Quadratic tubercle
 - attachments – quadratus femoris m.
 - C. Shaft
 - 1. Lesser trochanter (G. trochanter, a runner)
 - attachments – iliopsoas m.
 - 2. Greater trochanter
 - attachments – piriformis, gluteus maximus, gluteus medius, gluteus minimus & vastus lateralis m.
 - a. Trochanteric fossa
 - attachments – obturator internus & externus m.
 - 3. Gluteal tuberosity
 - attachments – gluteus maximus, adductor magnus & vastus lateralis m.
 - 4. Linea aspera (L. rough line)
 - attachments – adductor brevis, adductor longus, adductor magnus, short head of biceps femoris, vastus lateralis, & vastus medialis m. & intermuscular septum
 - D. Distal end
 - 1. Medial supracondylar line
 - attachments – vastus medialis m.
 - 2. Lateral supracondylar line
 - attachments – short head of biceps femoris m.
 - 3. Popliteal surface
 - attachments – medial head of gastrocnemius & plantaris m.
 - 4. Medial epicondyle
 - a. Adductor tubercle
 - attachments – adductor magnus m.
 - 5. Lateral epicondyle
 - attachments – lateral head of the gastrocnemius m.
 - 6. Medial condyle (G. knuckle)
 - 7. Lateral condyle
 - 8. Intercondylar fossa
 - attachments – anterior & posterior cruciate lig.
 - 9. Patellar surface
 - function – articulates with patella
- III. Patella (L. small plate)
 - A. Anterior surface
 - B. Posterior surface
 - 1. Facet for lateral femoral condyle
 - 2. Facet for medial femoral condyle
 - C. Apex
 - attachments – patellar lig.
 - D. Base

attachments – quadriceps femoris m.

IV. Tibia

A. Proximal end

1. Medial condyle
2. Lateral condyle
attachments – iliotibial tract
3. Anterior intercondylar area
attachments – menisci & anterior cruciate lig.
4. Intercondylar eminence
5. Posterior intercondylar area
attachments – menisci & posterior cruciate lig.
6. Fibular facet
function – articulates with fibula
7. Tibial tuberosity
attachments – patellar lig.

B. Shaft

1. Medial surface
2. Lateral surface
3. Anterior border
4. Interosseous border
attachments – interosseous membrane
5. Posterior surface
 - a. Soleal line
attachments – soleus & popliteus m.

C. Distal end

1. Lateral surface
 - a. Fibular notch
function – articulates with fibula
2. Medial malleolus (L. a hammer)
attachments – deltoid lig.

V. Fibula

A. Head

function – articulates with tibia
attachments – biceps femoris m.

B. Shaft

attachments – interosseous membrane, extensor digitorum longus, extensor hallucis longus, flexor hallucis longus, peroneus brevis, peroneus longus, peroneus tertius & tibialis posterior m.

C. Lateral malleolus

function – articulates with talus

VI. Tarsal bones

A. Talus (L. ankle bone)

1. Head
2. Body
function – articulates with tibia

B. Calcaneus (L. the heel)

attachments – extensor digitorum brevis & extensor hallucis brevis m.

1. Sustentaculum tali (L. sustentare, to support)
 - a. Groove for the flexor hallucis longus tendon
2. Calcaneal tuberosity
attachments – calcaneal tendon, abductor digiti minimi, abductor hallucis, flexor digitorum accessorius & flexor digitorum brevis m.

C. Navicular (L. navicula, boat)

attachments – tibialis posterior m.

D. Medial cuneiform (L. cuneus, wedge)

attachments – peroneus longus & tibialis anterior m.

E. Intermediate cuneiform

attachments – tibialis posterior m.

F. Lateral cuneiform

G. Cuboid (G. resembles a cube)

attachments – flexor hallucis brevis m.

VII. Metatarsals

- A. Base
 - function – articulates with tarsals
 - attachments – adductor hallucis, flexor digiti minimi, peroneus brevis, peroneus longus (1), peroneus tertius (5), tibialis anterior (1) & tibialis posterior (2–4) m.
- B. Shaft
 - attachments – plantar & dorsal interossei
- C. Head
 - function – articulates with proximal phalanx
 - attachments – adductor hallucis m.

VIII. Phalanges

- A. Base
 - function – articulates with metatarsal of proximal phalanx
 - attachments – abductor digiti minimi, abductor hallucis, adductor hallucis, dorsal interossei, extensor digitorum longus (2–5), extensor hallucis brevis, extensor hallucis longus (1), flexor digitorum longus (2–5), flexor digiti minimi, flexor hallucis brevis & flexor hallucis longus (1) m.
- B. Shaft
 - attachments – flexor digitorum brevis, dorsal interossei & palmar interossei m.
- C. Head
 - function – articulates with distal phalanx