

**SKELETON OF THE LOWER  
EXTREMITY**  
*(ossa membri inferioris)*

# **SKELETON OF THE LOWER EXTREMITY**

## ***(ossa membri inferioris)***

- Organ of support and locomotion
- In comparison with the UE– more robust bones
- Very limited mobility (joints)

## Skeleton of pelvic girdle

hip bone/pelvic bone– **os coxae**  
(**os ilium, os ischii, os pubis**)

## Skeleton of free extremity

femur– **femur**

knee-cap – **patella**

Shin bone– **tibia**

fibula– **fibula**

Tarsal bones– **ossa tarsi**

Metatarsal bones– **ossa metatarsi**

Phalanges of toes (**ossa digitorum pedis – phalanges**)

# **Cingulum membri inferioris**

# **Os coxae (hip bone)**

**os ilium, os pubis, os ischii**

- Flat bone- it is formed by the fusion of three primary bones at the end of teenage years

**acetabulum**

**facies lunata**

**fossa acetabuli**

**incisura acetabuli**

**foramen obturatum**

# **Iliac bone– os ilium**

**corpus**

**ala**

• **medial surface**

**fossa iliaca**

**facies auricularis**

**tuberositas iliaca**

**linea arcuata**

## **crista iliaca**

**spina iliaca anterior superior**

**spina iliaca anterior inferior**

**spina iliaca posterior superior**

**spina iliaca posterior inferior**

**• lateral surface**

**linea glutea posterior**

**linea glutea anterior**

**linea glutea inferior**



# **Sciatic bone– os ischii**

**corpus**

**ramus pars pubica**

**pars acetabularis**

**tuber ischiadicum**

**spina ischiadica**

**incisura ischiadica major**

**incisura ischiadica minor**

# Pubic bone– OS pubis

corpus

ramus inferior  
facies symphysialis  
crista phallica

ramus superior  
eminentia iliopubica  
pecten ossis pubis  
tuberculum pubicum  
sulcus obturatorius

# **Femur – femur**

## **Proximal end:**

**caput femoris**

**fovea capitis femoris**

**collum femoris**

**trochanter major**

**trochanter minor**

**linea intertrochanterica**

**crista intertrochanterica**

**fossa trochanterica**

**corpus femoris**

**linea aspera**

**labium mediale**

**labium laterale (tuberositas glutea)**

**Distal end:**

**condylus medialis**

**condylus lateralis**

**epicondylus medialis**

**epicondylus lateralis**

**facies patellaris**

**facies poplitea**

**fossa intercondylaris**

**linea intercondylaris**

# **Patella – knee-cap**

**basis patellae**

**apex patellae**

**facies articularis patellae- lateral and medial facet**

**facies anterior**

# **OSSIFICATION OF PATELLA**

# **Tibia – shine bone**

## **Proximal end:**

**condylus medialis**

**condylus lateralis**

**facies articularis superior**

**eminentia intercondylaris**

**tuberculum intercondylare mediale**

**tuberculum intercondylare laterale**

**area intercondylaris anterior**

**area intercondylaris posterior**

**facies articularis fibularis**



## **corpus**

**tuberositas tibiae**

**linea musculi solei**

**margo medialis**

**margo anterior**

**margo interosseus**

**Distal end:**

**malleolus medialis**

**sulcus malleoli medialis**

**facies articularis malleoli medialis**

**incisura fibularis**

**facies articularis inferior (distalis)**

# **Fibula – fibula**

## **Proximal end:**

**caput fibulae (facies articularis capitis fibulae)**  
**apex capitis fibulae**

## **corpus:**

**margo anterior**  
**margo medialis**  
**margo posterior**  
**margo interosseus**

## **Distal end:**

**malleolus lateralis**  
**facies articularis malleoli lateralis**  
**sulcus malleoli lateralis**  
**fossa malleoli lateralis**

# **ossa pedis– bones of the foot**

**I. Tarsal bones– ossa tarsi**

**II. Metatarsal bones– ossa metatarsi**

**III. Phalanges of toes– ossa digitorum pedis**

# **Tarsal bones– ossa tarsi (7)**

**talus**

**calcaneus**

**Navicular bone**

**Cuboideal bone**

**Cuneiform bones**

**(mediale, intermedium et laterale)**

# Talus

## Proximal part:

### corpus tali

- **dorsally**: trochlea tali-  
facies superior et maleolaris  
(lateralis, medialis)
- **plantar**: facies articularis calcanearis-  
posterior, media, anterior  
sulcus tali- sinus tarsi
- **processus posterior tali**-  
tuberculum mediale et laterale-  
sulcus tendinis m. flexoris hallucis longi
- **processus lateralis tali**

### collum tali

## **Distal part**

- **caput tali- facies  
articularis navicularis**

# Calcaneus

- **tuber calcanei (processus medialis et lateralis)**
- **sustentaculum tali (sulcus tendinis musculi flexoris hallucis longi)**
- **trochlea peronealis- sulcus tendinis musculi peronei longi**
- **facies articularis cuboidea**
- **facies articularis talaris posterior, media et anterior**  
**sulcus calcanei**  
**sulcus tali + sulcus calcanei = sinus tarsi**



## Navicular bone

- **facies articularis talaris**- concave
- **facies articularis cuneiformis**- convex- 3 facets
- **tuberositas ossis navicularis**- plantar

## cuboid

- **f. articularis calcanearis**, 2 facets for 4th and 5th metatarsal bone
- Surface for articulation with os cuneiforme laterale
- **tuberositas ossis cuboidei**
- **sulcus tendinis musculi peronei longi**

## Cuneiform bones:

### mediale, intermedium et laterale

**mediale:** the largest, edge of wedge-dorsally

**intermedium:** edge of wedge - plantar

**laterale:** edge of wedge - plantar

They participate in the arch foot

# **Metatarsal bones– ossa metatarsi (I. – V.)**

**basis (tuberositas ossis metatarsi I. et V.)**

**corpus**

**caput**

# **Phalanges of toes– ossa digitorum pedis**

**1st – phalanx proximalis et distalis**

**2nd – 5th toe – phalanx proximalis, media et distalis**

**basis phalangis**

**corpus phalangis**

**trochlea (distal phalanx– tuberositas phalangis distalis)**

# Ossa sesamoidea

- **patella**
- Bellow the head of the 1th metatarsal bone: two bones (lateral and medial) **in metatarsophalangeal joint**
- Sometimes also bellow the head of 2nd and 5th met. bone, within the tendon of m.peroneus longus

# **Tank you for your attention!**

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