

The Islamic University

College of Medical Technologies

Department of Radiology Technologies

First Stage

Lecture three: Skeleton of lower limbs

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Practical General Anatomy

LAB 3

Skeleton of lower limbs

Themes of the lecture:-

- 1- Introduction to upper limbs.
- 2- Pectoral Girdle.
- 3- Articulations of Clavicle.
- 4- The upper limb muscles.
- 5 Triceps brachii.

The purpose of the lecture:-

(Introducing the student to the upper limbs and muscles of upper limbs)

Behavior Objectives:-

- 1- To know the definition of the upper limbs.
- 2- In order for the student to learn the details of upper limbs.
- 3- The student should be able to know scientific names of upper limbs.
- 4- The student be able to differentiate bones and muscle of upper limbs.
- 5- The student enumerates all parts of upper limbs and it muscles.

References of the lecture:-

https://books.google.iq/books?id=aK52DwAAQBAJ&printsec=frontcover&dq=general+anatomy+book+pdf&hl=ar&sa=X&redir_esc=y#v=onepage&q&f=false

https://books.google.iq/books?id=6bZEDwAAQBAJ&printsec=frontcover&dq=general+anatomy+book+pdf&hl=ar&sa=X&redir_esc=y#v=onepage&q&f=false

Pelvic girdle

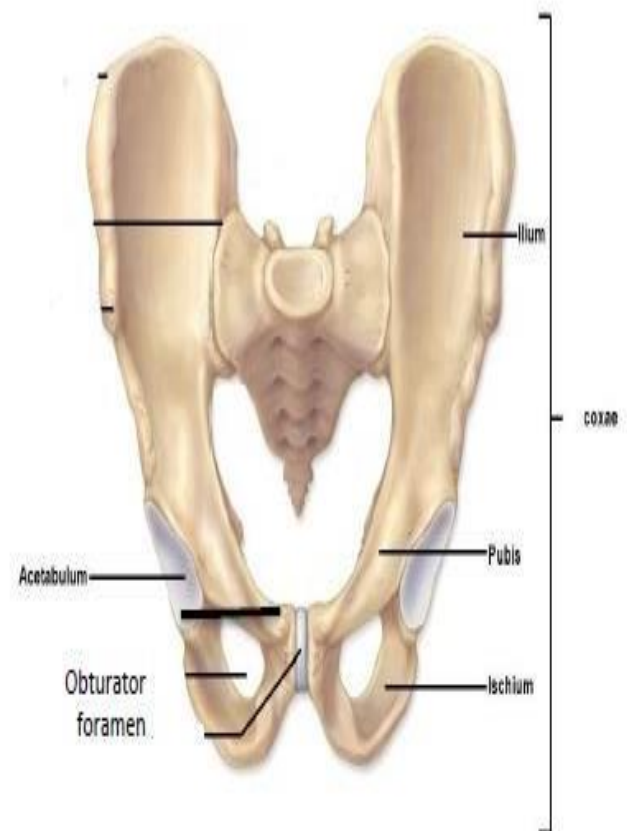
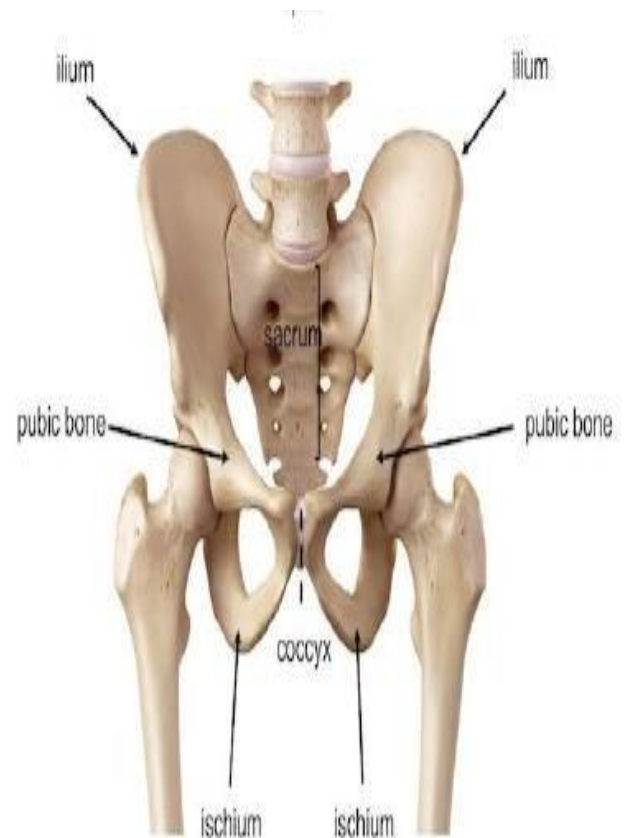
Is the place of attachment for the lower limbs.

It's formed by paired ring bones(left and right) called **coxae** or **hip bone**, articulating with the sacrum ,each coxae consist of three parts:

- .**ilium**: is the upper part .1
- .**Pubis**: is the anterior part .2
- .**ischium**: the posterior part .3

Acetabulum cavity : for articulates with the .head of the femur bone

Obturator foramen: for the passage of nerve and blood vessels



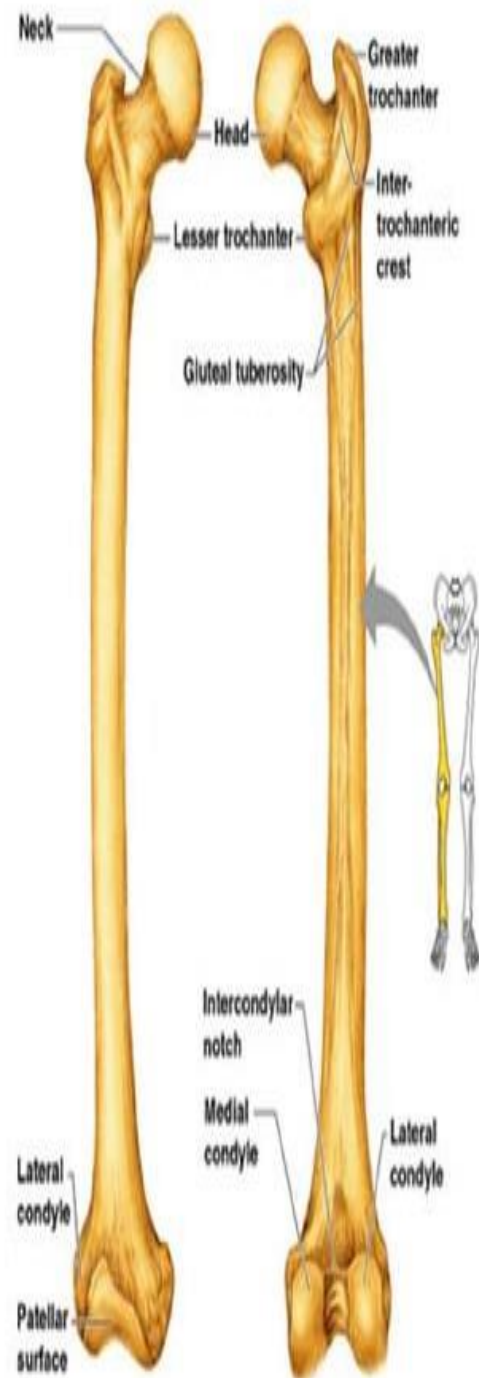
Lower limbs bones

1- Thigh

It contains a single bone called **femur** which is the longest and strongest bone in the skeleton.

2- Patella (knee)

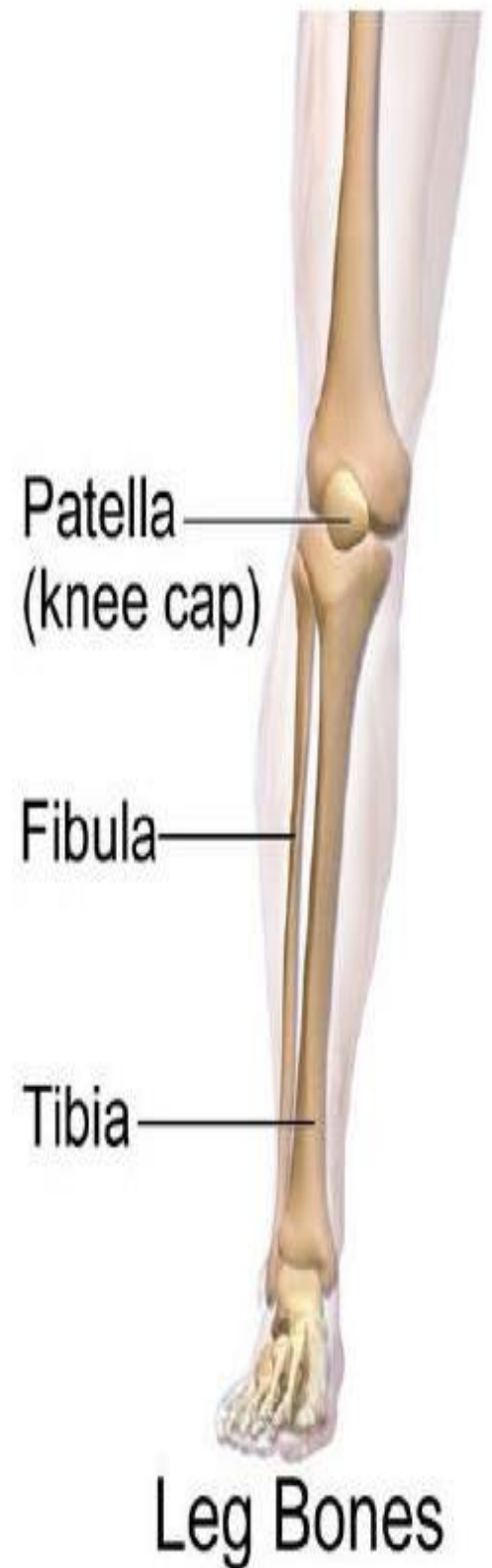
It articulates with the **patellar groove** of the femur.



3- Leg

The portion of the lower limb between the knee and the ankle, contains two bones:

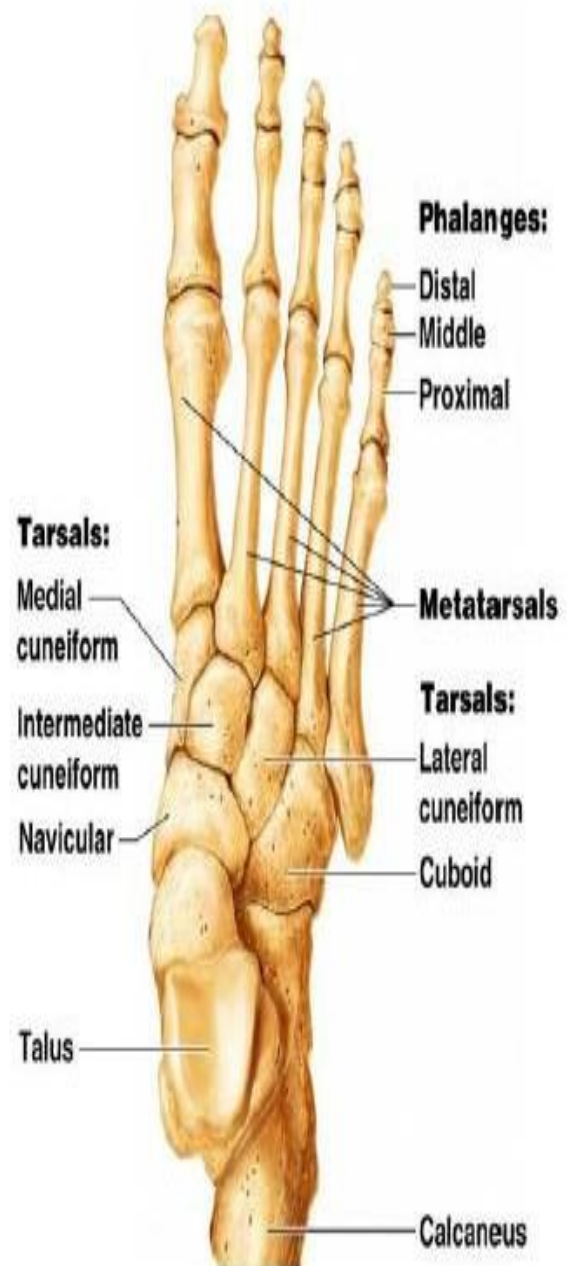
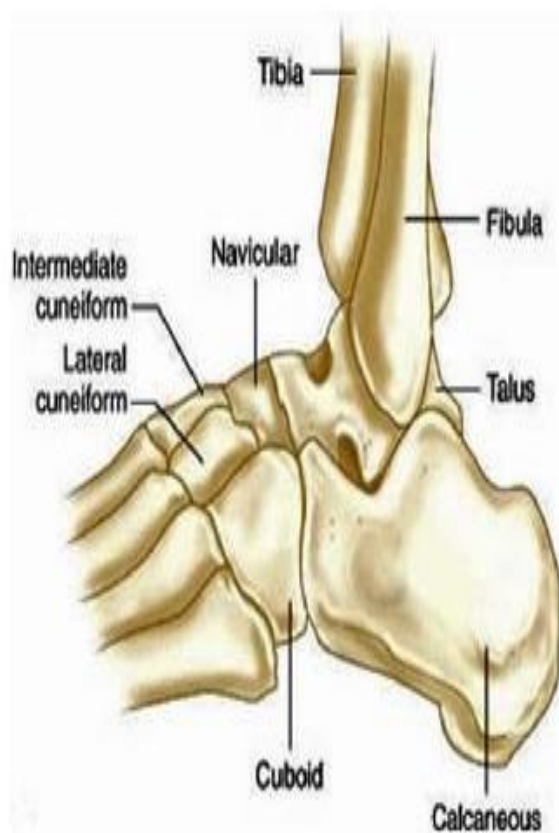
- **Tibia.**
- **Fibula.**



4- Ankle (Tarsals)

The ankle consists of **seven** bones, the **Talus** articulates with tibia and fibula to form the **ankle joint**.

The **Calcaneus** located inferior and lateral to the talus, it supports other ankle bones.



5-Foot

Foot consists of **metatarsals** and **toe**.

The great toe have **two** phalanges and other toe have **three** phalanges.

