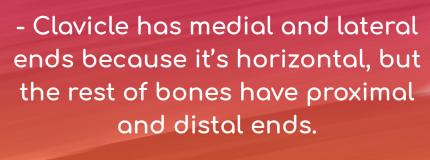


The information in this file is based on the things that was given during practical sessions along with doctors' notes

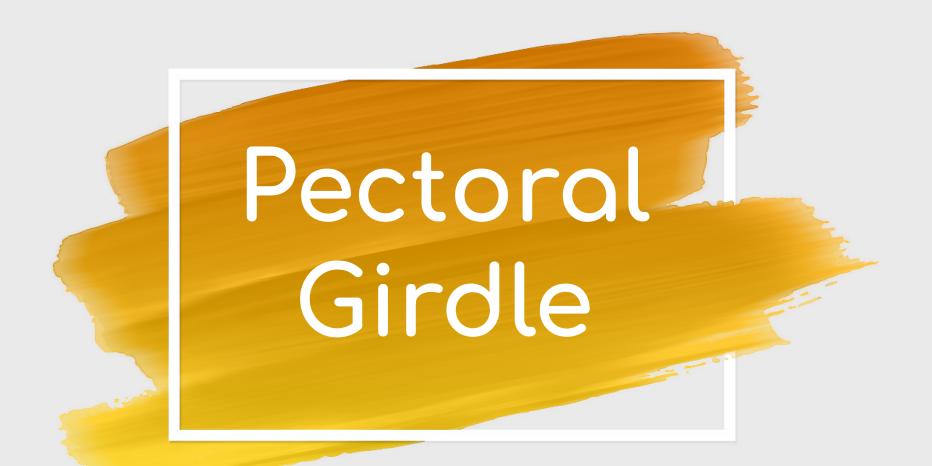
To ensure your grade on each question:

1-Make sure your SPELLING is correct

2-Make sure you write the FULL name or location of the object precisely



- You have to know the features of each bone, and determine the site (right or left).



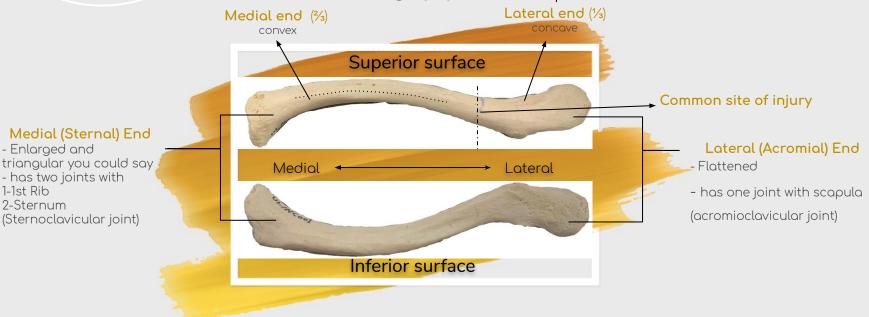
## Pectoral Girdle

# Clavicle "S" Shaped

Shaft

- The only horizontal long bone in our bodies.
  - Doubly curved.
  - subcutoneous.





#### Surfaces:

- Enlarged and

1-1st Rib

2-Sternum

- has two joints with

- <u>Superior Surface is smooth</u> (due to skin attachment)
- Inferior Surface is rough (due to muscle attachment)

### Site determination by:

- Sternal end (medial)
- The convex part of the shaft (medial,anterior)
- smooth surface (superior)

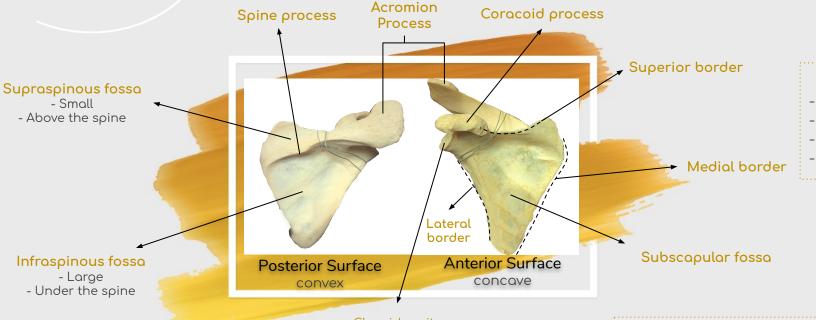
## Scapula

Pectoral Girdle

Flat bone in the posterior side of the thoracic, extends from the 2nd to the 7th rib.



Click or Scan



There are:

- 3 Process
- 3 Borders
- 3 Fossa
- 1 Cavity

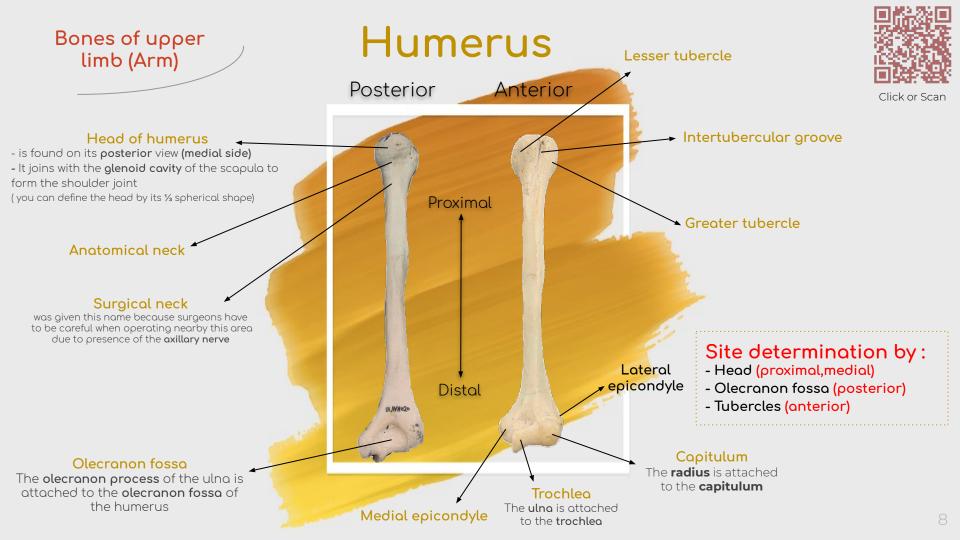
Glenoid cavity

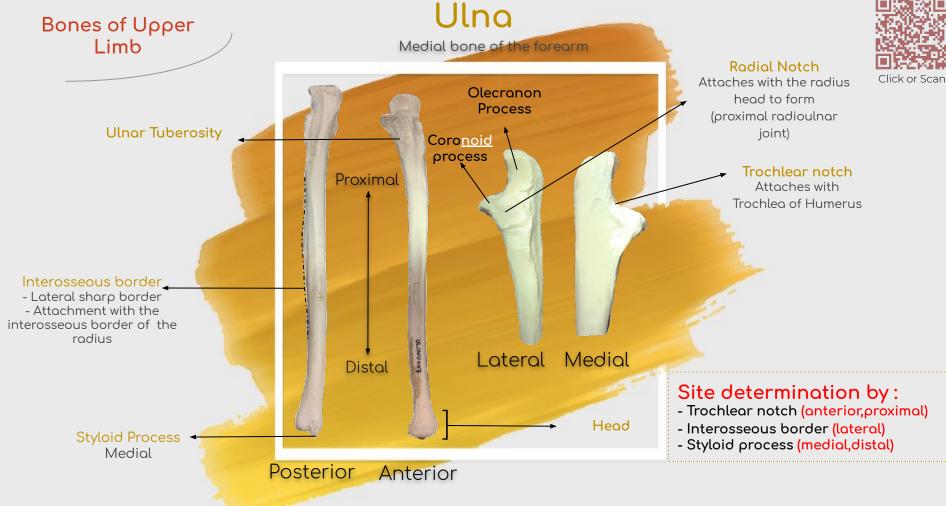
lateral Cavity : "glenoid" articulate with humerus to make (shoulder joint)

#### Site determination by:

- Spine process (posterior)
- Glenoid cavity (lateral)
- Subscapular fossa (toward the ribs)

# Bones of Upper Limb





#### Bones of Upper Limb

#### Side determination by:

- Radial tuberosity (anterior)
- Interosseous border (medial)
- Styloid process (lateral, distal)

#### Note that:

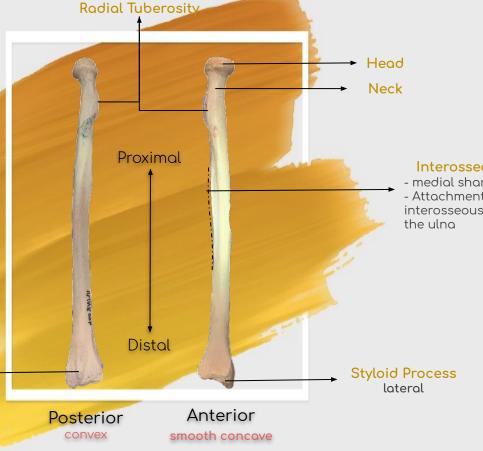
- 1- Both Ulna & Radius have (styloid process) which is taking the same side of the bone it relates to (medial in Ulna) & (lateral in Radius).
- 2- Both have (interosseous border), but in the opposite sides (lateral in Ulna) & (medial in Radius).

**Radial Tubercle** 

## Radius

The lateral bone of the forearm





#### Interosseous border

- medial sharp border
- Attachment with the interosseous border of

#### Bones of Upper Limb

## Hand

Dorsal



Click or Scar

#### Carpals (8 Bones)

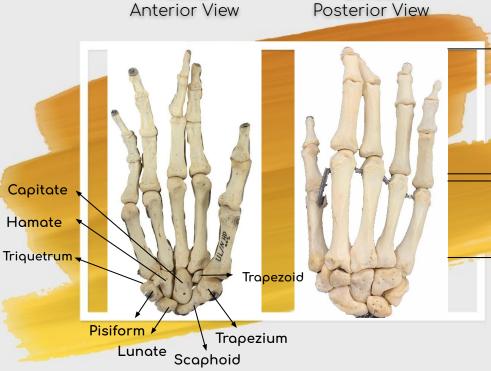
\*From Lateral to medial (starting from thumb)

## Proximal (first) row: Scaphoid, Lunate,

Triquetral & pisiform. (She Looks Too Pretty)

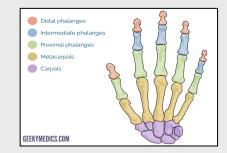
#### Distal (second) row: Trapezium, Trapezoid, Capitate & Hamate. (Try To Catch Her)





Palmar

She Looks Too Pretty, Try To Catch Her



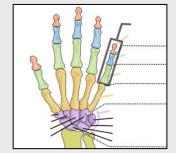
#### Phalanges (14 Bones)

Three for every finger <u>except</u> for the thumb which has 2 phalanges

#### Metacarpals (5 Bones)

\*From Lateral to medial (starting from thumb)

- A long bone i.e each bone has a base, shaft and a head. - Metacarpal 1, 2, 3, 4 & 5



Test yourself!



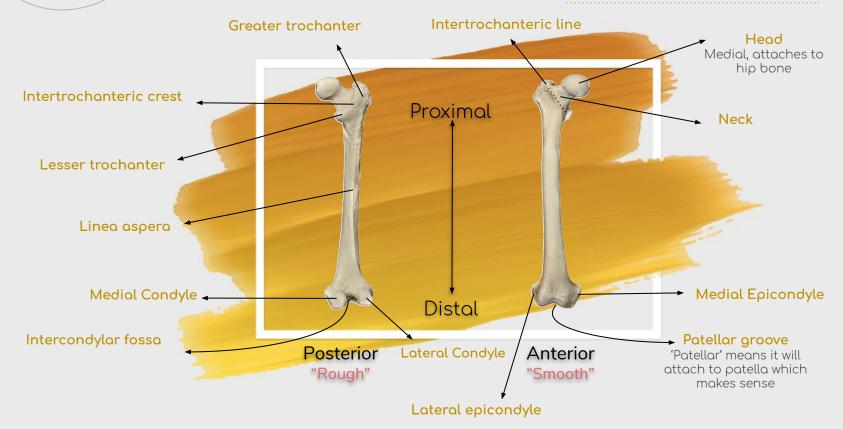
## Bones of Lower Limb

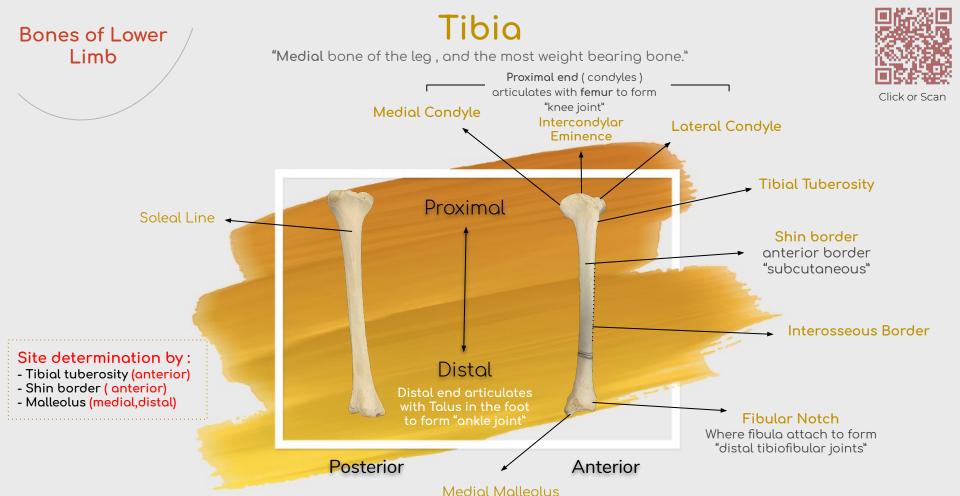
## Femur

#### Site determination by:

- Head (proximal, medial)
- Epicondyles (anterior)
- Condyles (posterior)







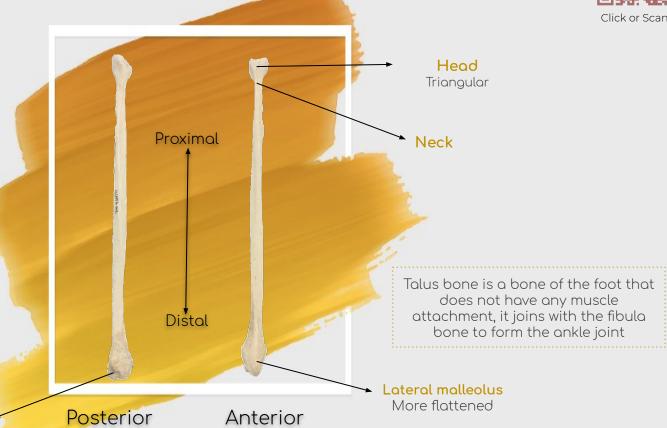
#### Bones of Lower Limb

## Fibula



#### Identification:

- Look for the malleolar fossa to know if its posterior or anterior
- Look for the flattened side to know if its the head or the lateral malleolus



Malleolar fossa

## Hip Bone

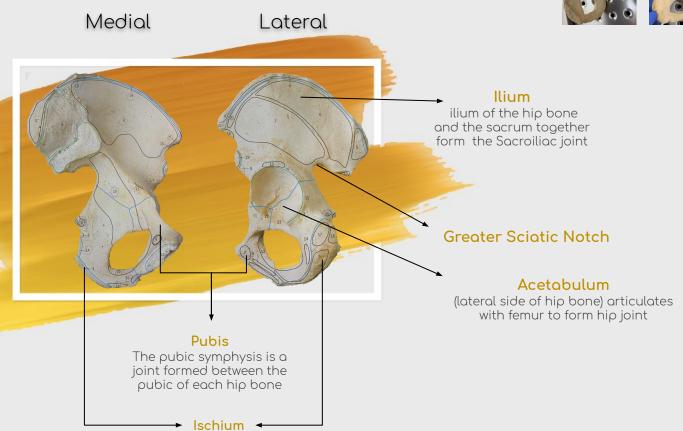
## Bones of the lower limb





#### Site determination by:

- Ilium (superior)
- Acetabulum (lateral)
- Ischium (posterior)





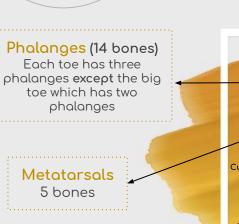
Click or Scan

# Bones of the lower limb

#### Foot



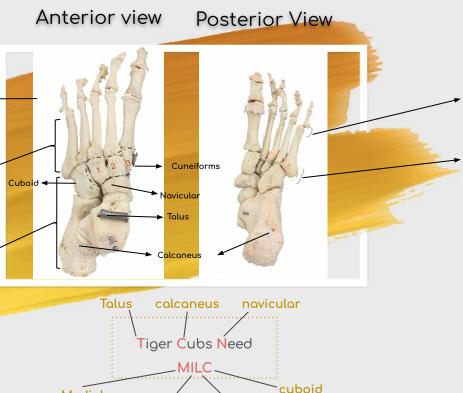
Click or Scan



Tarsals (7 bones)

( medial to lateral)

- Proximal row: Calcaneus, Talus, navicular, cuboid
- Distal row: 3 cuneiforms
  - "medial , intermediate, lateral"



Lateral

cuneiform

Intermediate

cuneiform

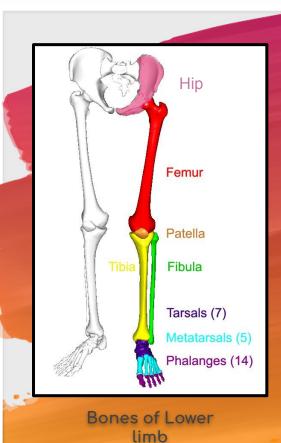
Medial

cuneiform

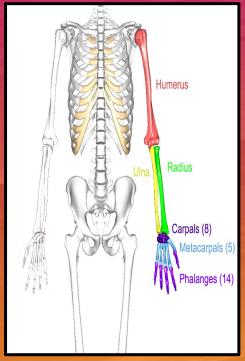
**Head** Distal end

Base Proximal end

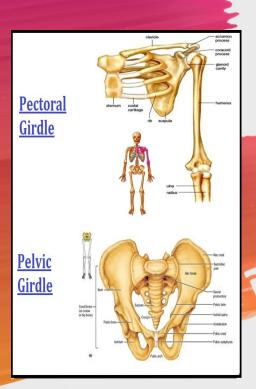




## Summary



Bones of Upper Limb



Bones of two girdles (pectoral is upper, pelvic is lower)

# QUIZ

Now, we suppose you are able to determine the site of each bone that was explained.

☆ Can you guess, what is the site of each previous bone? (right or left)

#### **Answers:**



# Don't stop until you are proud.

### Team Members:

- Duaa Alhumoudi
- Mona Alomiriny
- Rania Almutiri
- Taif Almotiri
- Nourah Alklaib
- Arwa Alqahtani
- Norah Alasheikh
- Sara Alharbi
- --- Najd Alzahrani

- Mishal Althunayan
- Omar alhalabi
- Abdulaziz Alomar
- Khalid Alosaimii
- Hadi Alhemsi
- Nasser Alohali
- Abdulrahman Alotaibi

#### Team Leaders:

- Renad Alhomaidi
- Bassam Alasmari

