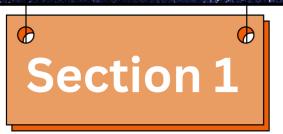
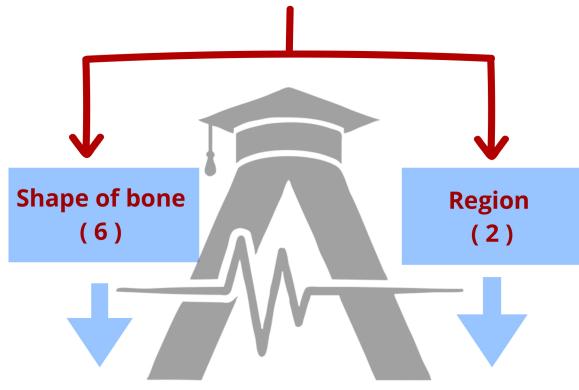


منصة ادرينالين التعليمية حامعة سناء

Anatomy



classification of bones:



1- Long bone

1- Axial skeleton

2- Short bone

2- appendicular ستواصل 04232374 skeleton

3- Flat bone

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4- irregular bone

- 5- Pneumatic bone
- 6- Sesamoid bone

According to bone shape

1- Long bones

• Site: Upper limb and lower limb

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- كل نوع هنتكلم فيه عن
- site
- example
- function

Example

Upper limb: Humerus, Radius, Ulnar, Phalanges

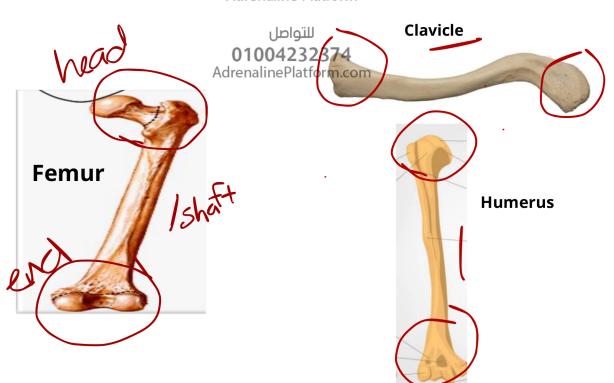
Lower limb: Femur, Tibia, fibula

• Function : Movement

عبارة عن head و shaft و

منصة ادرينالين التعليمية

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2- Short bone

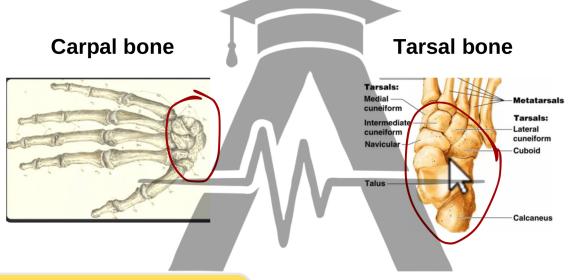
• Site: in Hand and Foot

• Example

Hands: Carpal bone

Foot: Tarsal bone

• Function : Resist compression forces



3- Flat bone

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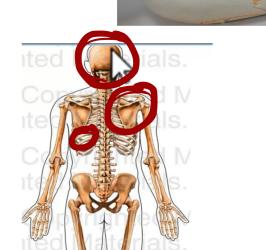
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Site:

- Skull
- Scapula
- Sternum
- Ribs

Function: Protection

Bones of skull roof

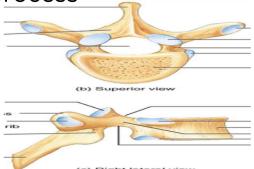


4- Irregular bone

Structure: Bones with projecting process

Example: Vertebrae

Function: muscle attachment



5- Pneumatic bone

pneumo = air

Bones containing air called air sinuses.

• Site: Skull bones surrounding the nose

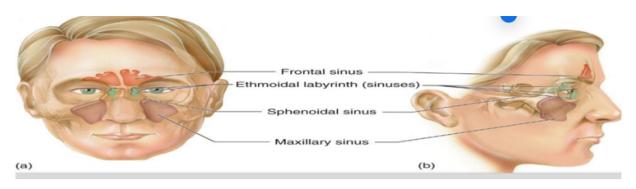
• Example: para-nasal sinuses in the skull

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1- They decrease the weight of skull.

2- Resonance of voice 1004232374

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6- Sesamoid bone



Small nodules of bones which are embedded in some muscle tendons near their insertion or origin

- **Example :** Patella (largest sesamoid bone), embedded in the tendon of the quadriceps femoris muscle in front of knee joint.
- Function: They diminish friction between tendons and underlying bones



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According to Regions



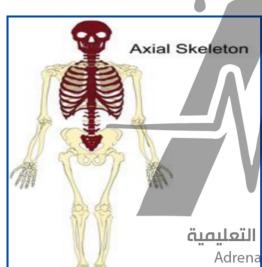


Axial Skeleton

Appendicular Skeleton



Appendicular Skeleton



منطة احرينالين التعليمية Adrenaline Platform



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للتواصل

Head: Skull

Neck: Hyoid bone

chest: Ribcage

Back: Vertebral column

- Shoulder girdle: (connect upper limb to axial skeleton)
- Upper limb
- Hip girdle (connect lower limb with axial skeleton)
- Lower limb

Appendicular Skeleton

Upper limb

shoulder girdle:

- clavicle
- Scapula

Arm:

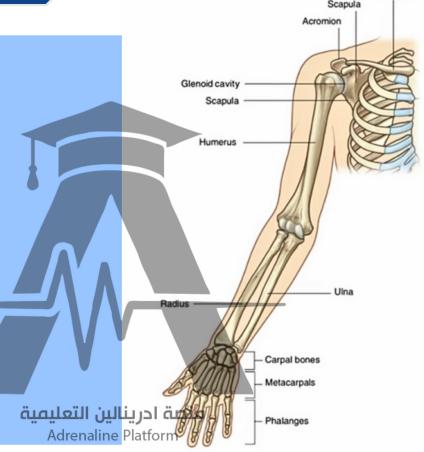
Humerus

Forearm:

- Radius
- Ulna

Hands:

- carpsl
- metacarpal
- phalanges



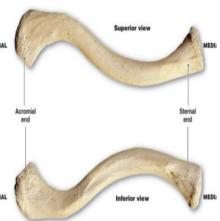
للتواصل 01004232374 AdrenalinePlatform.com 1- clavicle

Site

Anterior bone of shoulder girdle

Structure

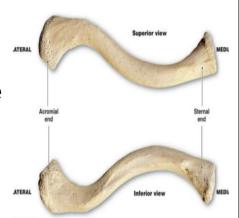
- It is formed of medial and lateral ends.
- It lies horizontally in the human body.****



Clavicle

Joints related

1. Sternoclavicular joint: saddle synovial joint between the medial end of the clavicle and the manubrium of the sternum.



Posterior

Acromion process

Spine

2- Scapula

Site

Posterior bone of shoulder girdle

Structure

-It is a triangular flat bone.

Joints related

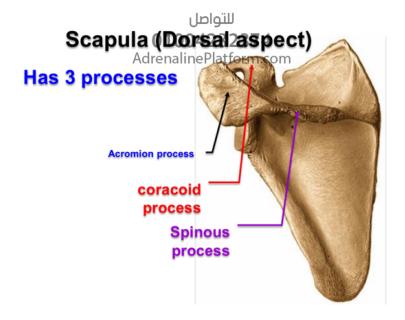
1. Shoulder joint: Ball and socket synovial joint between the glenoid cavity and the head of humerus.

عصہ ادریتانیل التعلید Adrenaline Platform

Anterior

Coracoid process

Acromion



Arm: Humerus

Site

Bone of the arm

Structure

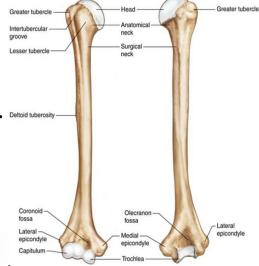
- It is formed of upper end including head, Shaft and lower end.

- It lies vertically in the Human body. Delicid Luberos

Joints related

- 1. Shoulder joint
- 2. Elbow joint: Hinge synovial joint

between: Lower end of humerus articulating with trochlear notch of ulna and superior surface of head of radius.





للتواصل

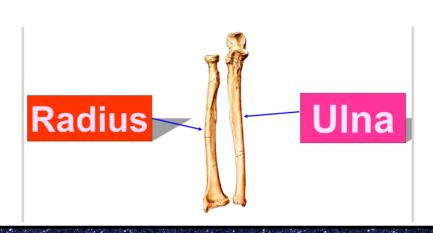
Radius

Lateral

Joints: 4

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- **Ulnar** Medial
- Joints: 3



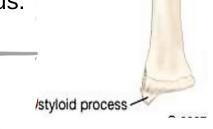
Radius

Structure

- It is formed of upper end including head, shaft and lower end.
- It lies vertically in the Human body.

Joints related

- 1. Elbow joint: Mentioned before.
- **2. Superior radioulnar joint:** It is pivot synovial joint between the head of radius and ulna.
- **3. Wrist joint:** It is ellipsoid synovial joint between lower end of radius and carpal bones (scaphoid and lunate).
- **4. Inferior radioulnar:** It is formed by head of ulna articulating with the ulnar notch of radius.



head of radius

radius

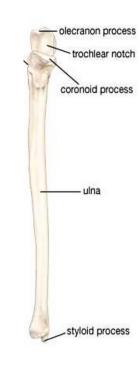
Structure

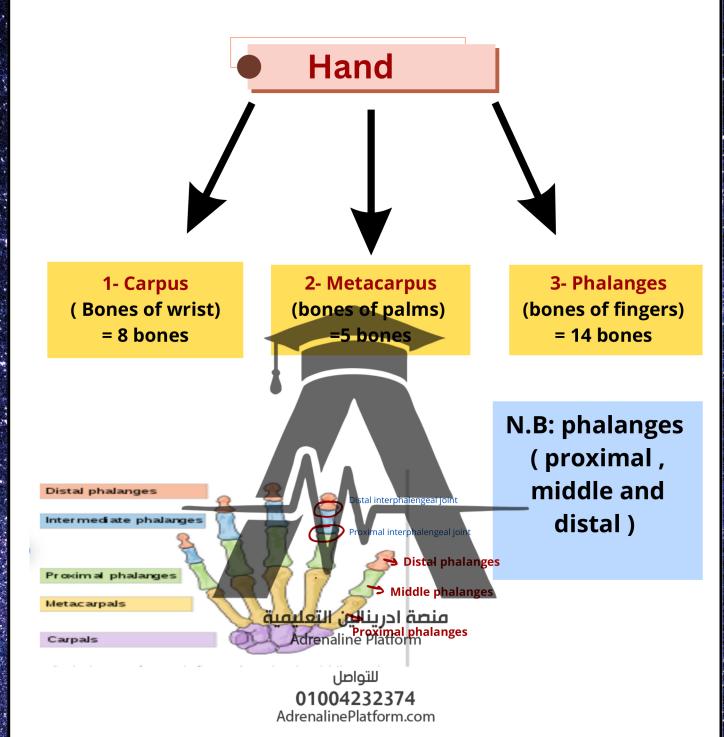
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- It is formed of upper end including trochlear notch, shaft and lower end including head.
- It lies vertically in the Human body.

Joints related

- 1. Elbow joint: Mentioned before.
- **2. Superior radioulnar joint:** It is pivot synovial joint between the head of radius and ulna.
- **3. Inferior radioulnar:** It is formed by head of ulna articulating with the ulnar notch of radius.





Joints related

- In the medial 4 fingers there are 3 phalanges for each finger (proximal, middle and distal) with 2 interphalangeal joints in between.
- The thumb has 2 phalanges (proximal and distal) with interphalangeal joint in between.