# **BONES OF UPPER LIMB**

## Shoulder joint:

Articulation: Thus occur between the rounded head of the humerous and the shallow pear shaped glenoid cavity of the scapula.

- The glenoid cavity is depended by the presence of a fibrocartilaganous rim called the glenoid rim.
- **Type**:synovial ball and socket joint.
- **Capsule:**This surround the joint and is attached medially to the margin of the glenoid cavity outside the labrium. Laterally it is attached to the anatomic neck of the humerous.
- The capsule is thin and lax allowing wide range of movement. It's is strengthens by wide fibrous slips from the tendon of the subscapluras suprasipantas infraspinatus and teres minor muscle.(the rotate cuff muscle)
- The glenohumeral ligaments are three weak band of fibrous tissue that strengthens the front of capsule

• The transvers humeral ligament strengthens the capsule and bridges the gap between the two tuberosites.



## **ELBOW JOINT:**

**Articulation:** Thi occurs between the trochlea and capitullem of the humerous and the trochlear notch of the ulna and the head of the humerous.

**Type:** compound synovial hinge joint.

#### Capsule

Anteriorly it is attached above humerous to the upper margins of coranoid And radial fossa and to the front of the medial and lateral epicondyles amd below to the margin of the coranoid process of the ulna to the ulnaer ligament, which surround the head of the radius .

Posterioraly it is attached to above to the margin of the olecranin fossa of the olecranin fossa of the humerous and below to the



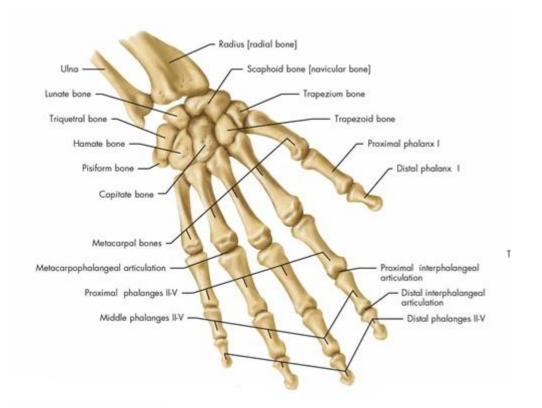
upper margin and side of the olecranin process of the ulna and to the annualar ligament.

## WRIST JOINT:

**Articulation** between the distal end of the radius and the articular disc above and the scaphoid lunate and triqutral bone below

- The proximal articular surface from an clipsoid concave surface which is adopted to the distal elipsoid convex surface.
- **Type** synovial clipsoid joint.
- **Capsule** The capsule enclose the joint and is attached above to the distal end of the radius and ulna below to the proximal row of carpel bone.
- **Capsule** Anterior and posterior ligament strengthens the capsule.
- Medial ligament attached to the styloid process of the ulna and to the triqutral bone.
- The lateral ligament is attached to the styloid process of the radius and to the scaphoid bone.
- **Synovial membrane** This line the capsule is attached to the margin of the articular surface. The joint cavity does not communicate with that of the distal radioulnar joint or with the joint cavities of the intercarpel joint.

• Nerve supply Anterior interosseous nerve and the deep branch of the radial nerve.

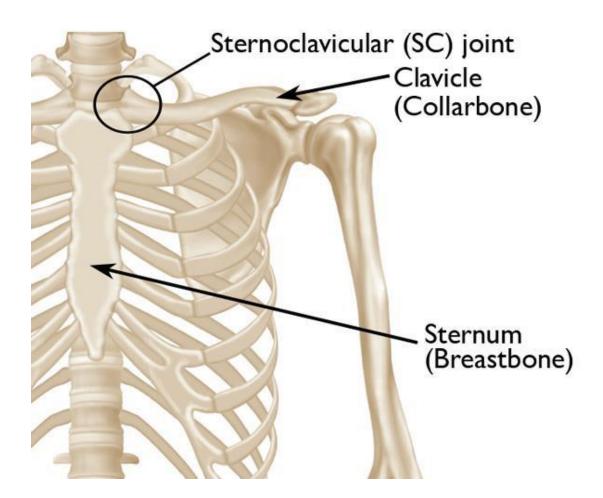


#### Bones of shoulder GIRDLE:

- The clavicle
- The scapula Bones of arm: humerous Forearms bone: radius and ulna.
- Hand carpel bone are eight
- Metacarpel 8
- Phalanghes 14

The shoulder GIRDLE consist of The clavicle The scapula

- **The clavicle:** The clavicle is a long slender bone that lies horizontally across the root of the neck just beneath the skin.
- It i also called collar bone.
- It connects upper limbh to the trunk



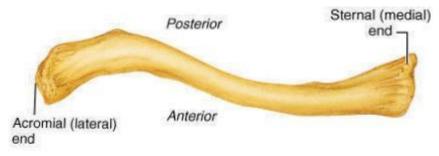
## End and surfaces:

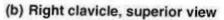
It's consist of

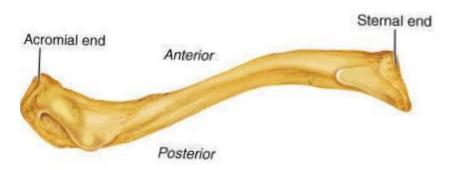
- Sternal end
- Acromial end
- Body (shaft)

It consists of four surface

- Inferior
- Superior
- Anterior
- Posterior







Articulation: it articulate

Medially: with manubrium of sternum and first costal cartilage at sternoclavicle joint.

**LATERALLY:** with the acromiam process of scapula at acromclavicular joint.

#### Surfaces:

**CORANOID TUBURCEL:** near the end of the clavicle give attachment to the conoid process.

**Trapezoid line:** near the acromial end of the clavicle end, give attachment to the trapezoid ligament.

**Subclavin Grove:** Is the medial third of the shaft of the clavicle give attachment to the subclavis muscle.

**Impression costoclavicular ligament:**rough depressed oval area at sternal end that give attachment to the costoclavicular ligament.

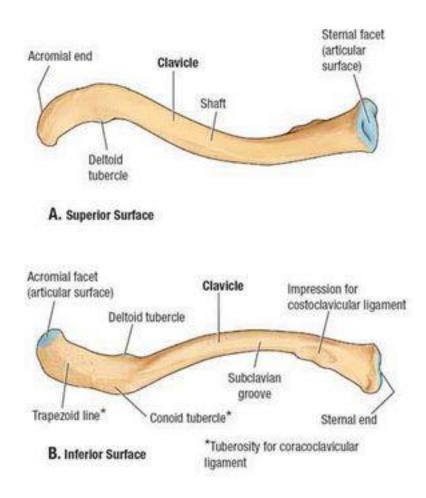
## Superior surface:

Attachment for sternoclavicular muscle at medial two third of the clavicle

Attachment for trapizus muscle at one third of the clavicle.

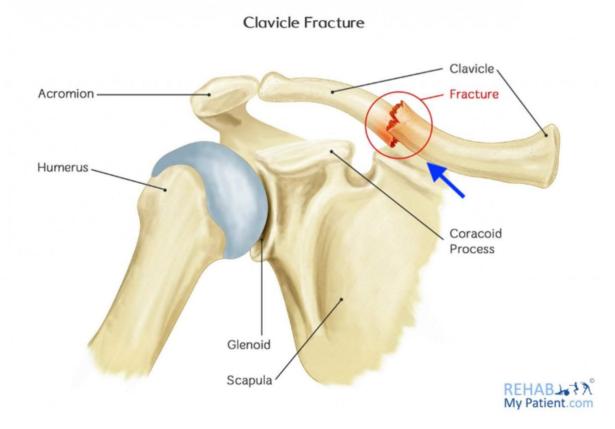
**Anterior surface:** attachment for pactorilis major muscle at medial two third of the clavicle

**Attachment** for the deltoid muscle lateral one third of the clavicle



# FRACTURE OF THE CLAVICLE:

 The fracture is occur as result of a fall of the shoulder or outstretched hand. The force is transmit along the clavicle which breaks to its weakest point the junction of the middle and outer thirds. • After the fracture, the lateral fragment is depressed by the weight of the arm, and it is pulled midally and forward by strong adductor muscle of the joint, especially the pectorallis major.



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