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- Assignment: Anatomy
- Department: Anaesthesia
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- Section: A
- Semester: 1st

(Joints of upper limbs.)

- Three joints of upper limbs
- Should joint
- Elbow joint
- Wrist joint

1.shoulder joint:-

They lies between the head of the hummers and the clanoid cavity of the scapula.

They are also called ball and socket joint

Capsule: this surround by the joint and attached

- *Medially:* to the margin of the glenoid cavity outside of the librium.
- Laterally: they attached to the anatomical neck of the hummers.

- Ligaments:
- The glenohumeral ligament:

There are three weak binds of the fibrous tissue. That strength the frontal of the scapula.

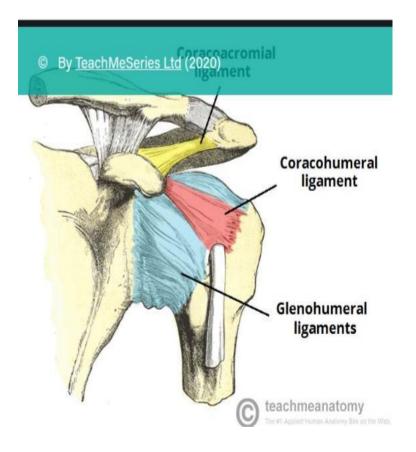
• The transverse humeral ligament:

They strength of scapula and bridge the gap between the two tubersities

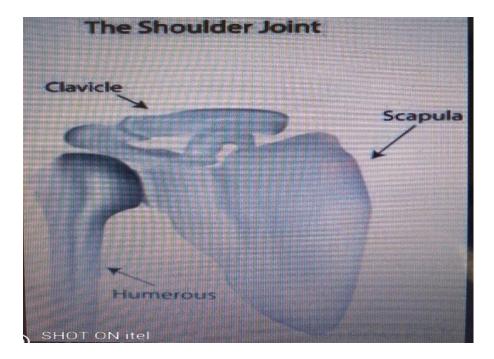
• The coracohumeral ligaments:

Strength the capsule above the stretches from the roots of the coracoid process to the greater tuberosity of the humours

• Acceory ligaments: Function: it's function that to protect the superior aspect of the joint.



• Diagram of shoulder joint.



2. Elbow joint:

- They articulate between the capitillum of the humours and the trochlear notch of ulna and the head of radius.
- The articulate surface are covered with hyalines cartilage.

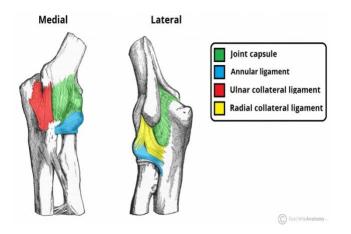
Capsule:

- 1. Anteriorly:
 - Above: To the hummers Along the upper margins of the coronoid and radial fossa.

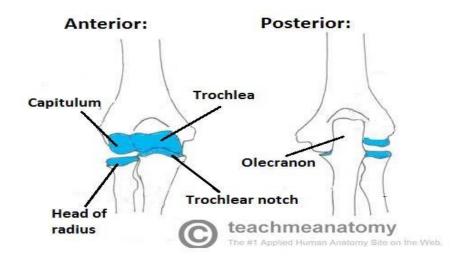
- Front: they of the medial and lateral epicondyle.
- Below: to the margins of the coronoid process of the ulna and to the angular ligaments, which surround the head of the radius.

2. Posteriorly:

- Above: to the margins of olecranon fosaa of the hummers.
- Below: the upper side of the olecranon process of the ulna and to the anular ligaments.
- Ligaments:
- 1. The radial and lateral collateral ligament it's attached.
- 2. By its apex to the lateral epicondyle of the humours.
- 3. By its base of the upper margin of the annular ligaments.

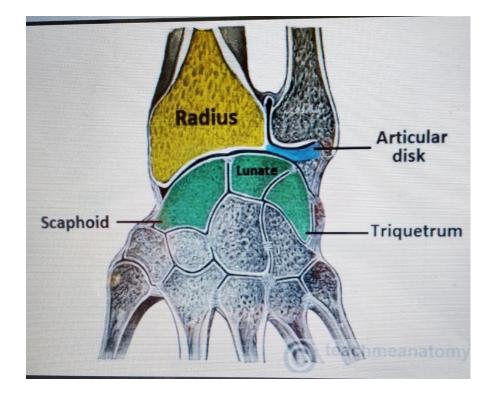


Structure of Elbow joint:



3. Wrist joint:

- They proximal end they make a joint with the radius and the articular dics.
- It's the distal end the articulate with the scaphoid and lunate bones.



- Capsule:
- Above: they attached with the distal end of the radius and ulna
- Below: it's attached with carpel bones.
- Ligaments:

1.*medial ligaments:*

- Origin ulnar styloid process.
- Pisiform palmary
- Provided medial stability.

2.lateral ligaments:

- Styloid process of the radius.
- Scaphoid and lunate radio scaphoid ligaments.
- Provided lateral stability.

Anterior ligaments: they are the most important ligaments for the controlling of motion wrist stability.

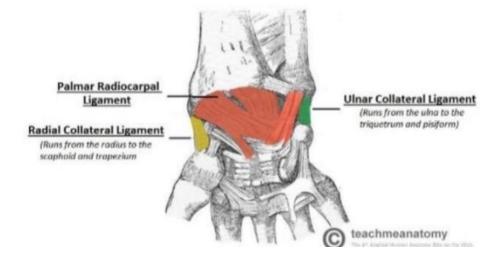
Surface: they present anterior surface of the distal radius.

Ligaments:

Palmar radiocarpal – It is found on the palmar (anterior) side of the hand. It passes from the radius to both rows of carpal bones.

Dorsal radiocarpal – It is found on the dorsum (posterior) side of the hand. It passes from the radius to both rows of carpal bones.

Radial collateral – Runs from the radial styloid process to the scaphoid and trapezium.

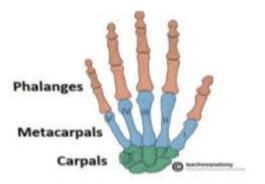


Bones of hands

Carpal bones (Proximal) – A set of eight irregularly shaped bones. These are located in the wrist area.

Metacarpals – There are five metacarpals, each one related to a digit

Phalanges (Distal) – The bones of the fingers. Each finger has three phalanges, except for the thumb, which has two.



Carpel of bones

Organized two rows

Proximal and distal row

Proximal row

- Scaphoid
- Lunate
- Triquetrum
- Pisiform

Distal row

- Trapezium
- Trapezoid
- Capitate
- Hamate

