

# Frequently Askes Queations

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## Frequently Asked Questions – Joints of Upper Limb

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### 1. What is the only bony joint connecting the upper limb to the trunk?

? **Sternoclavicular joint** — a saddle synovial joint functionally acting as ball-and-socket.

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### 2. Why is the sternoclavicular joint rarely dislocated?

Because it has **strong ligaments** (costoclavicular, interclavicular) and a **complete articular disc** that absorbs shock and adds stability.

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### 3. Which joint allows gliding movements between clavicle and scapula?

? **Acromioclavicular joint** — a **plane synovial joint** stabilized by **coracoclavicular ligament**.

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### 4. What is the main ligament stabilizing the acromioclavicular joint?

? **Coracoclavicular ligament** — made of **conoid** (medial) and **trapezoid** (lateral) parts.

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### 5. What are the bones forming the shoulder (glenohumeral) joint?

? **Head of humerus** and **glenoid cavity of scapula** (deepened by glenoid labrum).

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### 6. Why is the shoulder joint highly mobile but less stable?

- Shallow glenoid cavity.
- Loose capsule.

- Large humeral head.
  - Stability depends mainly on **rotator cuff muscles (SITS)**.
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**7. Name the muscles forming the rotator cuff.**

? **SITS** – Supraspinatus, Infraspinatus, Teres minor, Subscapularis.

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**8. Which tendon is intracapsular but extrasynovial in shoulder?**

? **Long head of biceps brachii tendon.**

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**9. What are the main ligaments of the shoulder joint?**

- **Coracohumeral, glenohumeral, transverse humeral, coracoacromial, and capsular** ligaments.
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**10. Which bursa lies between supraspinatus and acromion?**

? **Subacromial (subdeltoid) bursa.**

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**11. What is the “painful arc” syndrome?**

Pain during **60°–120° abduction** due to **supraspinatus tendinitis** under the coracoacromial arch.

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**12. Which nerve is most commonly injured in shoulder dislocation?**

? **Axillary nerve** — leads to deltoid paralysis and loss of sensation over the “regimental badge” area.

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**13. What type of joint is the elbow?**

? **Complex hinge-type synovial joint** (humeroulnar + humeroradial).

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**14. Name the ligaments strengthening the elbow joint.**

- **Ulnar collateral, radial collateral, and annular ligament** of radius.

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**15. What is the carrying angle and why is it important?**

? Angle between the long axes of humerus and forearm (10–15° in males, 15–20° in females).

**Significance:** Keeps forearm clear of hips during walking.

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**16. What is “pulled elbow” (nursemaid’s elbow)?**

Partial dislocation of **head of radius** from **annular ligament** — common in children after a sudden jerk.

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**17. Name the joints involved in supination and pronation.**

? **Superior and inferior radioulnar joints** (pivot type).

Axis passes through **head of radius** ? **head of ulna**.

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**18. What are the muscles of pronation and supination?**

- **Pronation:** Pronator teres, Pronator quadratus (median nerve).
  - **Supination:** Supinator, Biceps brachii (radial & musculocutaneous nerves).
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**19. What is the function of the interosseous membrane?**

- Connects radius and ulna.
  - Transmits forces from radius to ulna.
  - Provides muscle attachment.
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- Maintains forearm stability.
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**20. What type of joint is the wrist (radiocarpal)?**

? **Ellipsoid (condyloid) synovial joint.**

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**21. Which bones participate in wrist articulation?**

- **Radius** and **articular disc** (above) with **scaphoid, lunate, triquetral** (below).
  - **Ulna does not** participate directly.
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**22. What are the major ligaments of the wrist?**

? **Palmar radiocarpal, dorsal radiocarpal, ulnar collateral, radial collateral.**

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**23. What is the most commonly fractured carpal bone?**

? **Scaphoid** — tenderness in anatomical snuffbox, risk of avascular necrosis.

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**24. What type of joint is the 1st carpometacarpal joint of thumb?**

? **Saddle-type synovial joint.**

Allows flexion, extension, abduction, adduction, opposition, and circumduction.

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**25. What movement enables opposition of the thumb?**

? Combined **abduction, flexion, and medial rotation** at 1st CMC joint.

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**26. Which joints in the hand share a common synovial cavity?**

? **Intercarpal, midcarpal, and CMC (2nd–5th)** joints share a cavity.

The **1st CMC** and **pisotriquetral** are separate.

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**27. What type of joint is the MCP joint?**

? **Condylloid (ellipsoid) synovial joint.**

Permits flexion, extension, abduction, adduction, and circumduction.

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**28. What type of joint is the interphalangeal (IP) joint?**

? **Hinge-type synovial joint** allowing flexion and extension only.

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**29. Which ligaments prevent hyperextension at MCP and IP joints?**

? **Palmar (volar) plates.**

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**30. What is the “axis” for finger abduction and adduction?**

? The **middle finger** acts as the central axis — can abduct both ways but cannot adduct.

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**31. What deformity results from rupture of extensor tendon at DIP joint?**

? **Mallet finger** — distal phalanx droops.

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**32. What deformities are typical of rheumatoid arthritis?**

? **Swan-neck** (PIP hyperextension, DIP flexion) and **Boutonnière** (PIP flexion, DIP hyperextension).

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**33. What causes “trigger finger”?**

Thickening of **fibrous flexor sheath** ? tendon catches during motion ? finger “snaps” on extension.

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**34. What is Dupuytren’s contracture?**

Fibrosis of **palmar aponeurosis** ? flexion deformity at MCP and PIP joints, usually of ring and little fingers.

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### 35. Why is thumb opposition important?

It enables **precision grip** and fine motor control unique to humans.

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### 36. What is the role of deep transverse metacarpal ligaments?

They connect the 2nd–5th MCP joints, **maintaining the palmar arch** and alignment during grip.

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### 37. Which joint allows the greatest mobility in the upper limb?

? **Glenohumeral (shoulder) joint.**

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### 38. Which joint provides greatest stability in upper limb?

? **Elbow joint** — strong ligamentous support and interlocking bony architecture.

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### 39. What are the three joints forming the elbow complex?

? Humeroulnar, Humeroradial, and Superior radioulnar joints.

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### 40. What movements occur at the radiocarpal joint?

? Flexion, extension, abduction, adduction, and circumduction.

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### ? **Summary Insight**

Every joint of the upper limb is adapted for **maximum mobility with functional stability**, supported by **ligaments, muscle tone, and joint congruence**.

Pathologies often reflect overuse, trauma, or degeneration of these stabilizing structures.