

Humerus Bone Anatomy Quiz Answer Key PDF

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Explain the clinical significance of the radial groove on the humerus.

The radial groove on the humerus is important because it houses the radial nerve; damage to this groove can result in radial nerve injury, leading to motor deficits such as wrist drop.

Identify and describe the articulation points of the humerus with other bones.

The humerus has three main articulation points: the proximal end articulates with the scapula at the glenohumeral joint, the distal end articulates with the radius and ulna at the elbow joint, and it also connects with the scapula at the glenoid cavity.

What are the potential consequences of a fracture at the surgical neck of the humerus?

The potential consequences of a fracture at the surgical neck of the humerus include axillary nerve injury, which can cause weakness in shoulder abduction and loss of sensation over the lateral aspect of the shoulder.

Which part of the humerus articulates with the glenoid cavity of the scapula?

- A. Greater tubercle
- B. Head ✓**
- C. Shaft
- D. Trochlea

Discuss the importance of the olecranon fossa in elbow joint function.

The olecranon fossa allows the olecranon of the ulna to fit into it during elbow extension, which is essential for joint stability and preventing hyperextension.

Which of the following statements about the humerus are true?

- A. The humerus is part of the lower limb.
- B. The radial nerve runs along the radial groove. ✓**
- C. The humerus articulates with the scapula at the shoulder joint. ✓**
- D. The deltoid tuberosity is located on the distal end.

Which structures are located at the distal end of the humerus?

- A. Medial epicondyle ✓**
- B. Radical groove
- C. Capitulum ✓**
- D. Olecranon fossa ✓**

Which structure is found between the greater and lesser tubercles of the humerus?

- A. Radical groove
- B. Anatomical neck
- C. Inter-tubercular groove ✓**
- D. Olecranon fossa

Which of the following are features of the proximal humerus?

- A. Head ✓**
- B. Greater tubercle ✓**
- C. Trochlea
- D. Lesser tubercle ✓**

Which part of the humerus is most commonly fractured?

- A. Head
- B. Shaft
- C. Anatomical neck
- D. Surgical neck ✓**

The radial nerve runs along which part of the humerus?

- A. Greater tubercle
- B. Anatomical neck
- C. Radical groove ✓**
- D. Olecranon fossa

Which muscles attach to the greater tubercle of the humerus?

- A. Supraspinatus ✓**
- B. Infraspinatus ✓**
- C. teres minor ✓**
- D. Biceps brachii

Which feature of the humerus articulates with the ulna?

- A. Capitulum
- B. Trochlea ✓**
- C. Greater tubercle
- D. Lesser tubercle

What is the primary function of the deltoid tuberosity on the humerus?

- A. Articulation with the ulna
- B. Muscle attachment ✓**
- C. Nerve passage
- D. Blood vessel attachment

Which nerves are associated with the humerus?

- A. Radial nerve ✓**
- B. Ulnar nerve
- C. Median nerve
- D. Axillary nerve ✓**

Which features of the humerus are involved in muscle attachment?

- A. Greater tubercle ✓**
- B. Lesser tubercle ✓**

C. Trochlea

D. Deltoid tuberosity ✓

Describe the role of the humerus in the movement of the upper limb.

The humerus serves as the primary bone of the upper limb, allowing for various movements such as raising the arm, bending at the elbow, and rotating the shoulder, all of which are essential for daily activities and functional mobility.

What is the function of the olecran fossa?

A. Muscle attachment

B. Nerve passage

C. Accommodates the olecran of the ulna ✓

D. Blood vessel passage

How does the structure of the humerus contribute to its function in the shoulder joint?

The rounded head of the humerus fits into the shallow glenoid cavity of the scapula, enabling a high degree of mobility and flexibility in the shoulder joint.

The capitulum of the humerus articulates with which bone?

A. Scapula

B. Ulna

C. Radius ✓

D. Clavicle