Equator University of Science and Technology

Anatomy Department

Course: Anatomy of the limbs

Tutorial (1)

By: Dr. Musab N. Husein

1- A 20-year-old cyclist falls onto his shoulder and presents with pain, swelling, and an obvious deformity over the clavicle. Examination shows drooping of the shoulder and difficulty lifting the arm. X-ray confirms a midshaft clavicle fracture. What are the expected complications?

2- A 25-year-old basketball player develops sudden shoulder pain after a fall with the arm abducted and externally rotated. The shoulder appears flattened with loss of contour. MRI reveals an anterior dislocation of the humeral head leading to weakness of the deltoid and numbness over the lateral shoulder. What is the injured nerve?

3- A 62-year-old painter complains of shoulder pain when raising his arm above his head. Examination reveals weakness of the first 15° of abduction and a painful arc. MRI demonstrates a tear of a **tendon**, what is the the most commonly injured rotator cuff muscle tendon?

4- A 35-year-old woman notices that her shoulder blade protrudes when pushing against a wall (winged scapula) after axillary lymph node dissection for breast cancer. What is the paralyzed muscle and injured nerve here?

5- A 48-year-old woman with a breast lump undergoes clinical staging. Examination shows firm, enlarged lymph nodes in the axilla. What is the diagnosis?

6- A 55-year-old diabetic patient presents with chronic shoulder stiffness and pain. She cannot raise her arm beyond 90° and has limited external rotation. MRI shows fibrosis and thickening of the shoulder joint capsule. What is the diagnosis?

7- A 38-year-old weightlifter complains of shoulder pain and weakness in abduction. Examination shows atrophy of the deltoid and sensory loss over the lateral upper arm. MRI demonstrates compression of a nerve and an artery in the quadrangular space, what are these structures?