Humeral Surgical Neck Fractures

Coracoid process
Greater tubercle
Shoulder joint
Deltoid muscle
Surgical neck of humerus
Infraglenoid tubercle
Axillary fat
Lateral border of scapula

Site of acromioclavicular joint
Spine of scapula
Clavicle
Superior border of scapula
Superior angle of scapula
Tubercle of 1st rib

Friday, 4 August 2017

2005 Grant’s Atlas

normal x-ray

Surgical Neck Fracture
www.gentili.net/fracture.asp?ID=61
Axillary Nerve Palsy

Axillary n. (C5, C6): superior lateral brachial cutaneous n.

posterior view
UBP Injury – Erb’s Palsy

- Increase in angle between neck & shoulder
- Traction (stretching or avulsion) of upper ventral rami (e.g., C5,C6)

LBP Injury – Klumpke’s Palsy

- Excessive upward pull of limb
- Traction (stretching or avulsion) of lower ventral rami (e.g., C8, T1)
Upper Brachial Plexus Injury – Erb’s Palsy

- Appearance: drooping, wasted shoulder; pronated and extended limb hangs limply ("waiter’s tip palsy")
- Loss of innervation to abductors, flexors, & lateral rotators of shoulder and flexors & supinators of elbow
- Loss of sensation to lateral aspect of UE
- More common; better prognosis
Lower Brachial Plexus Injury – Klumpke’s Palsy

- Much rarer than UBPIs and Erb’s Palsy
- Loss of C8 & T1 results in major motor deficits in the muscles working the hand: “claw hand”
- Loss of sensation to medial aspect of UE
- Sometimes ptosis or full Horner’s syndrome
- Much rarer (1%) but poorer prognosis