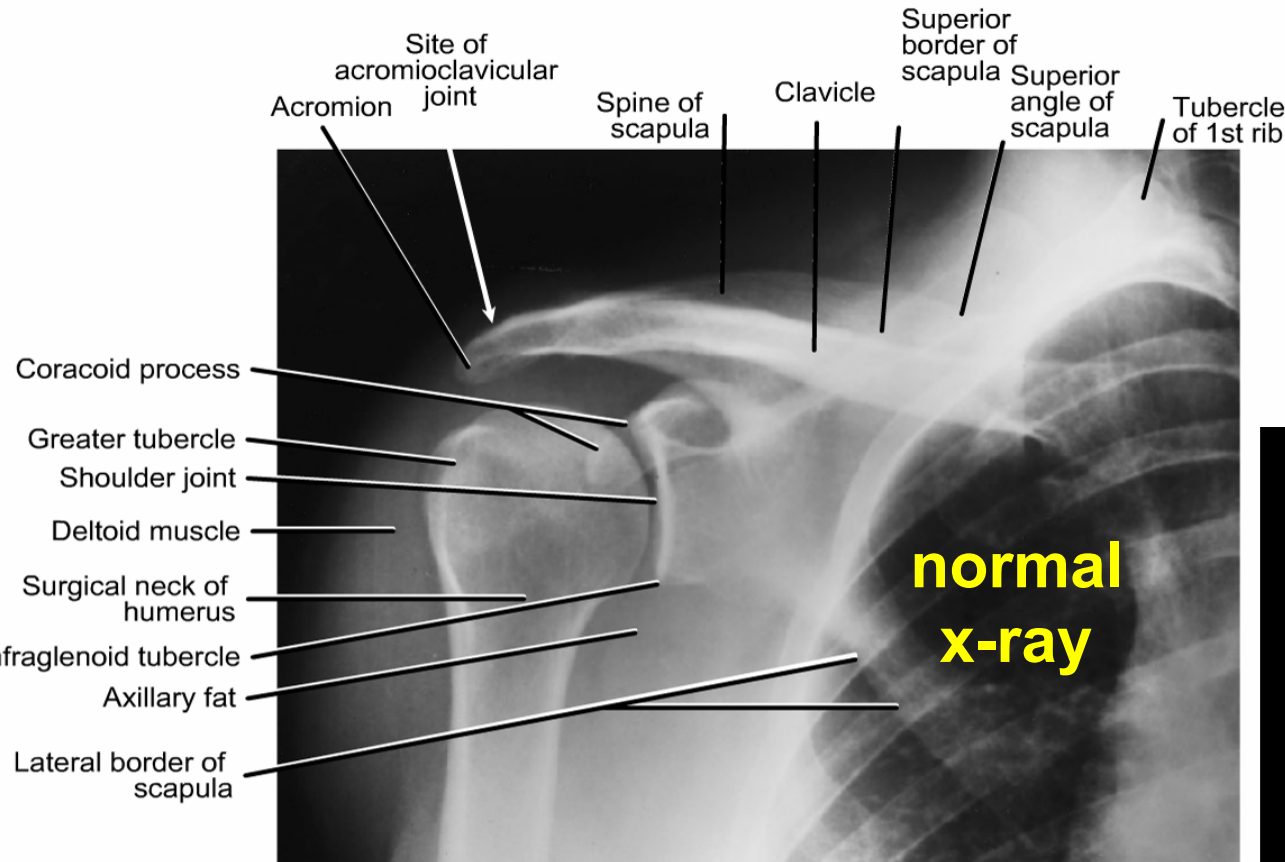
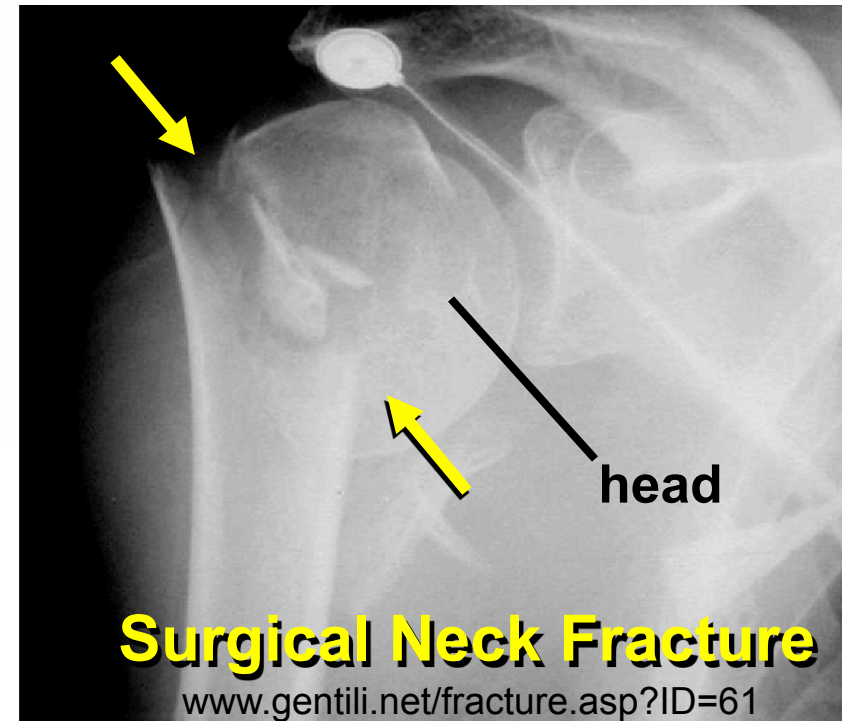
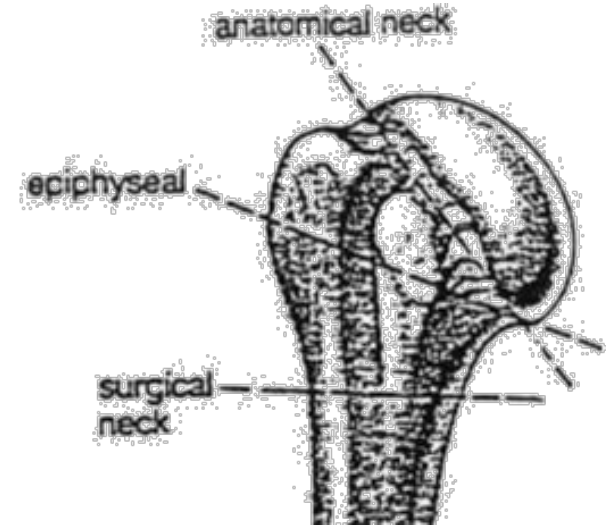


Humeral Surgical Neck Fractures

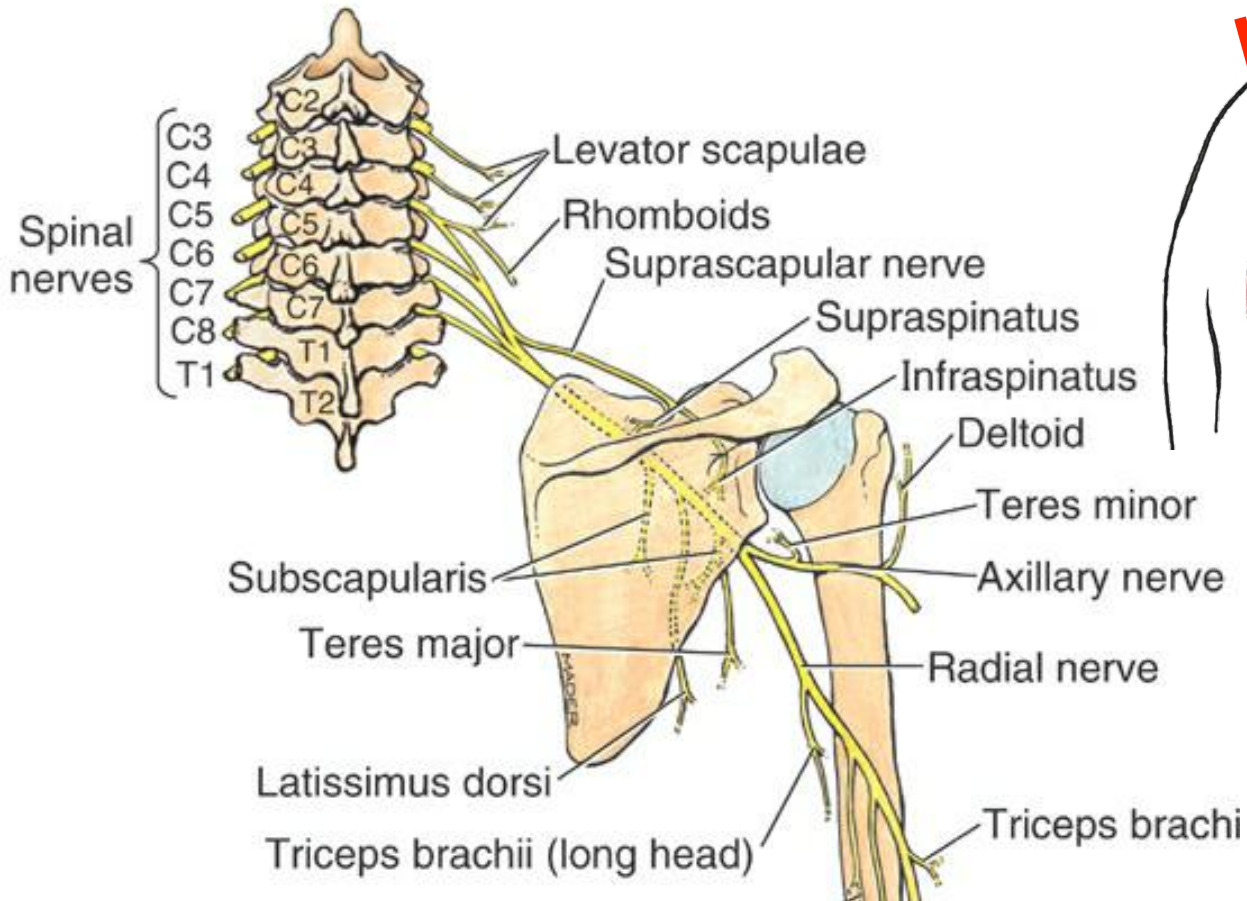


2005 *Grant's Atlas*

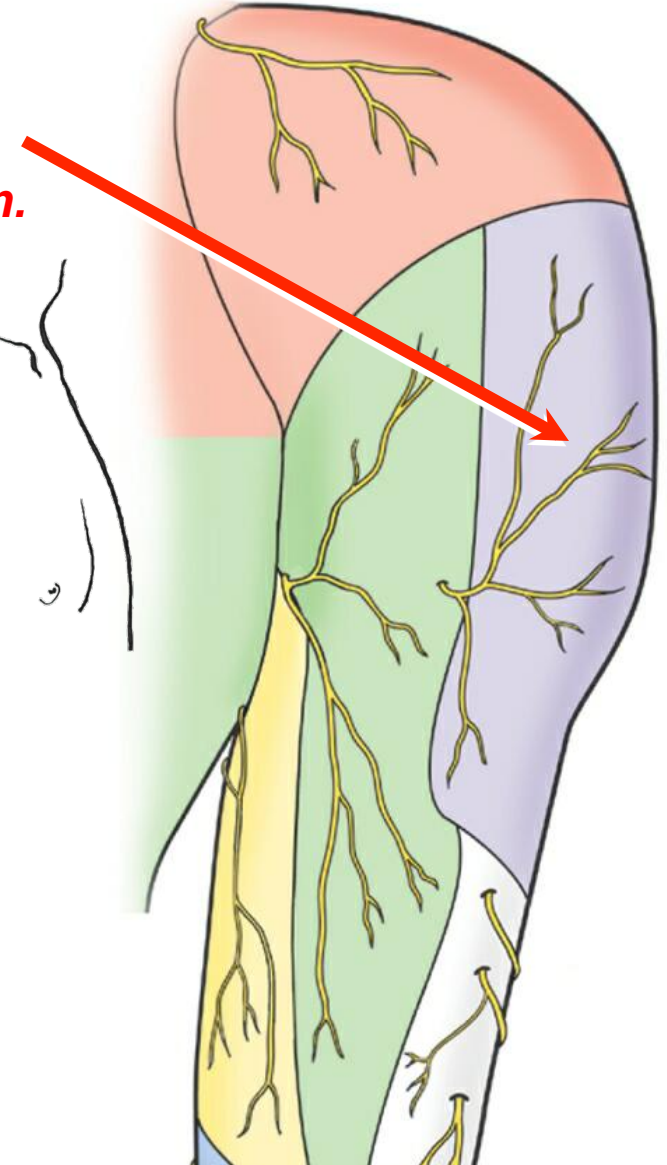


Axillary Nerve Palsy

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



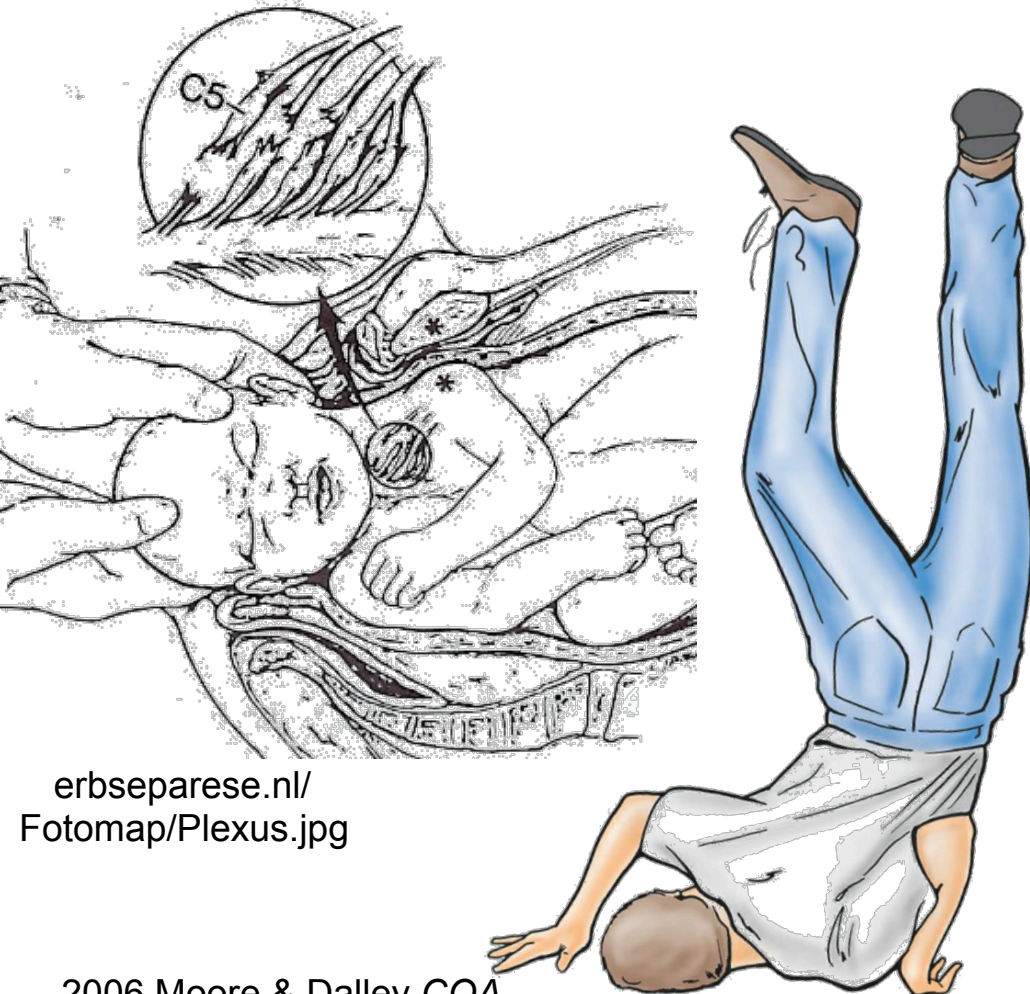
posterior view



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)

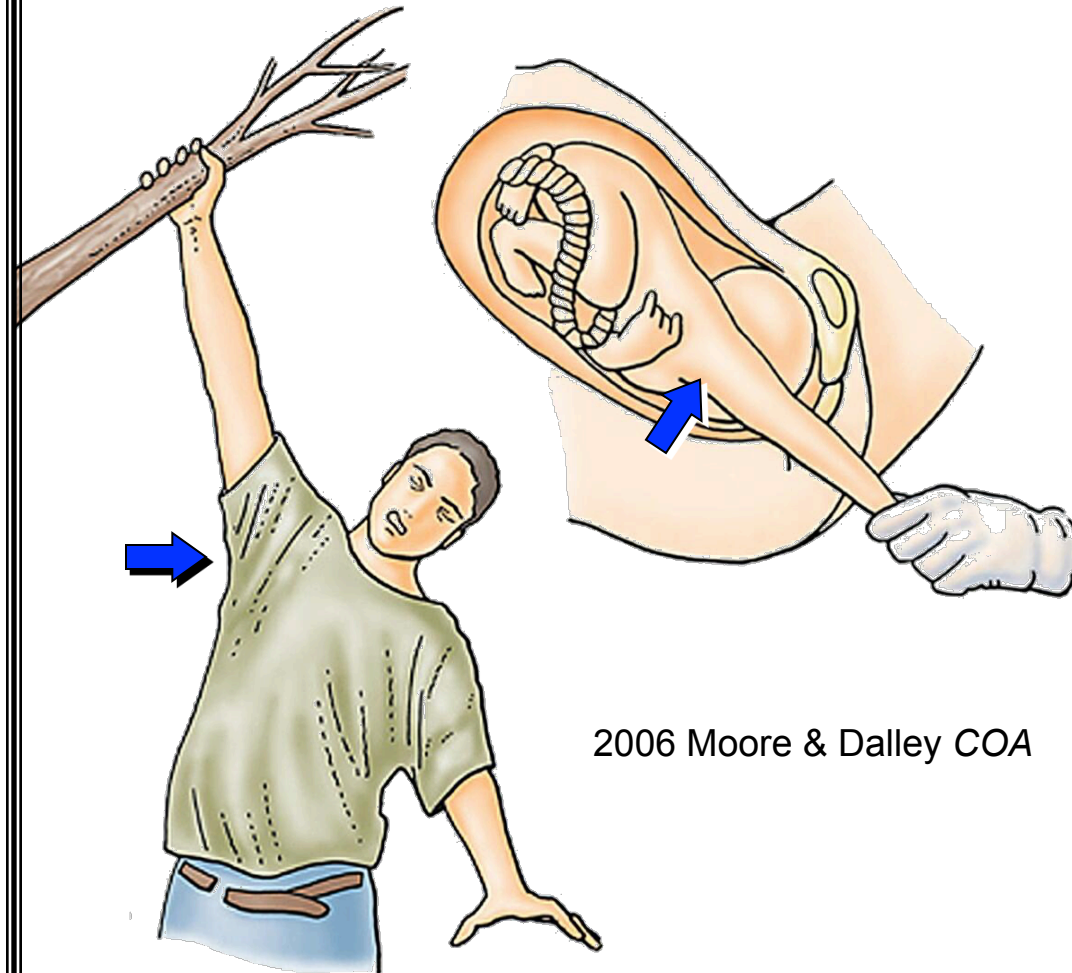


[erbseparese.nl/
Fotomap/Plexus.jpg](http://erbseparese.nl/Fotomap/Plexus.jpg)

2006 Moore & Dalley COA

LBP Injury – Klumpke’s Palsy

- Excessive upward pull of limb
- Traction (stretching or avulsion) of lower ventral rami (e.g., C8, T1)



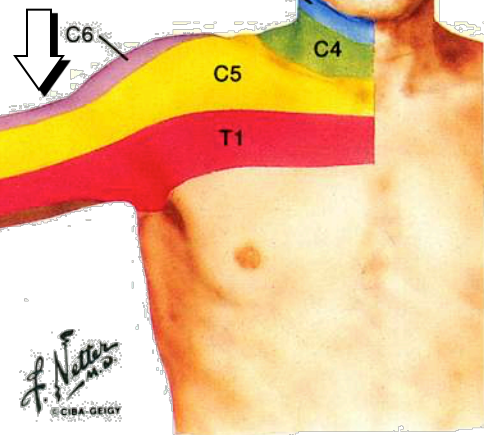
2006 Moore & Dalley COA

Upper Brachial Plexus Injury – Erb’s Palsy

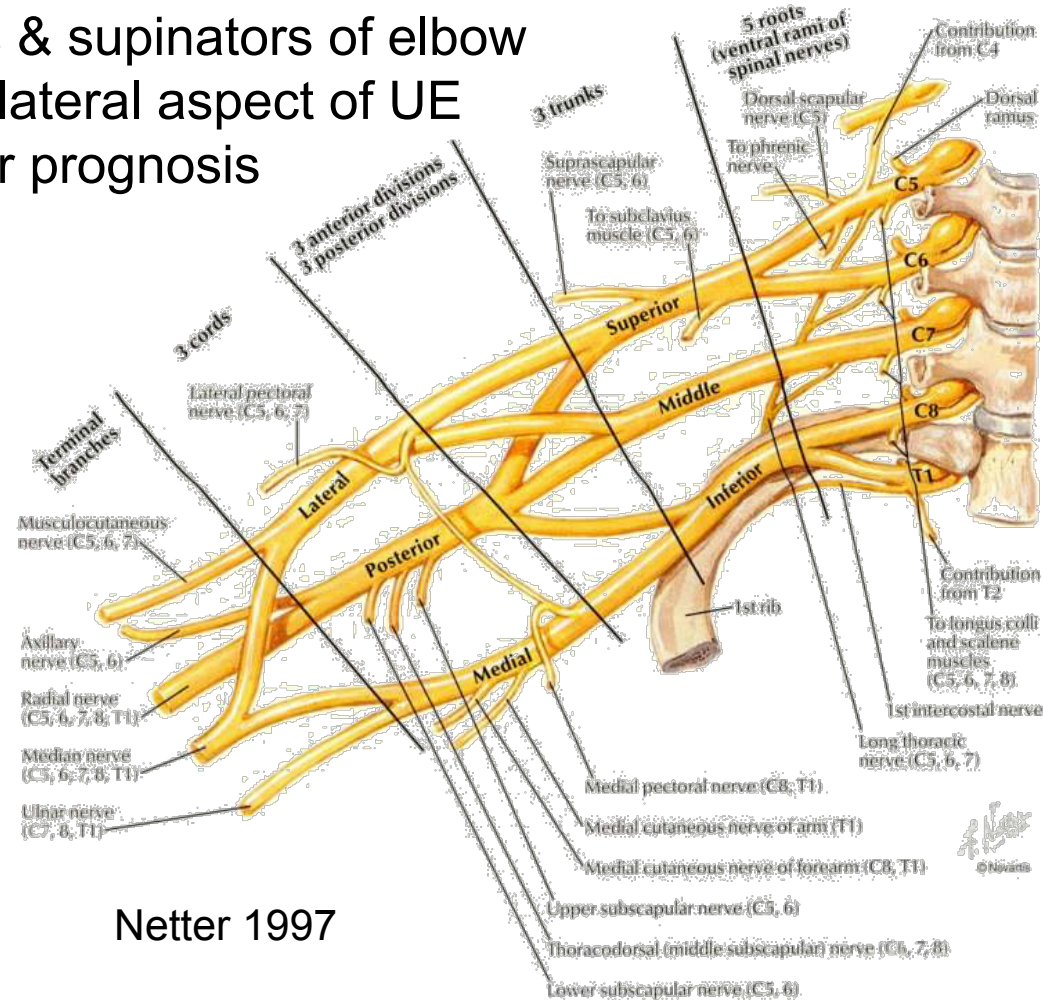
- Appearance: drooping, wasted shoulder; pronated and extended limb hangs limply (“waiter’s tip palsy”)
- Loss of innervation to abductors, flexors, & lateral rotators of shoulder and flexors & supinators of elbow
- Loss of sensation to lateral aspect of UE
- More common; better prognosis



Anterior view



Bayne & Costas (1990)



Netter 1997

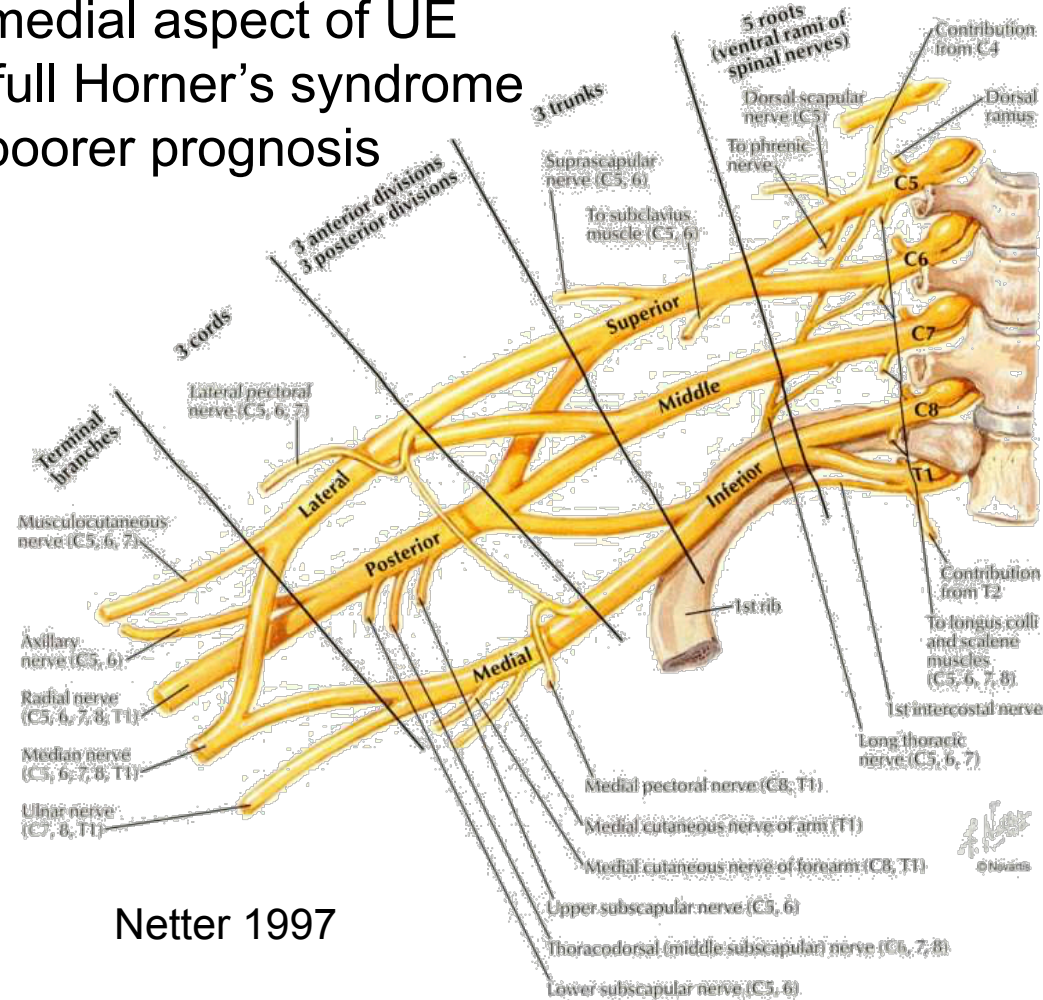
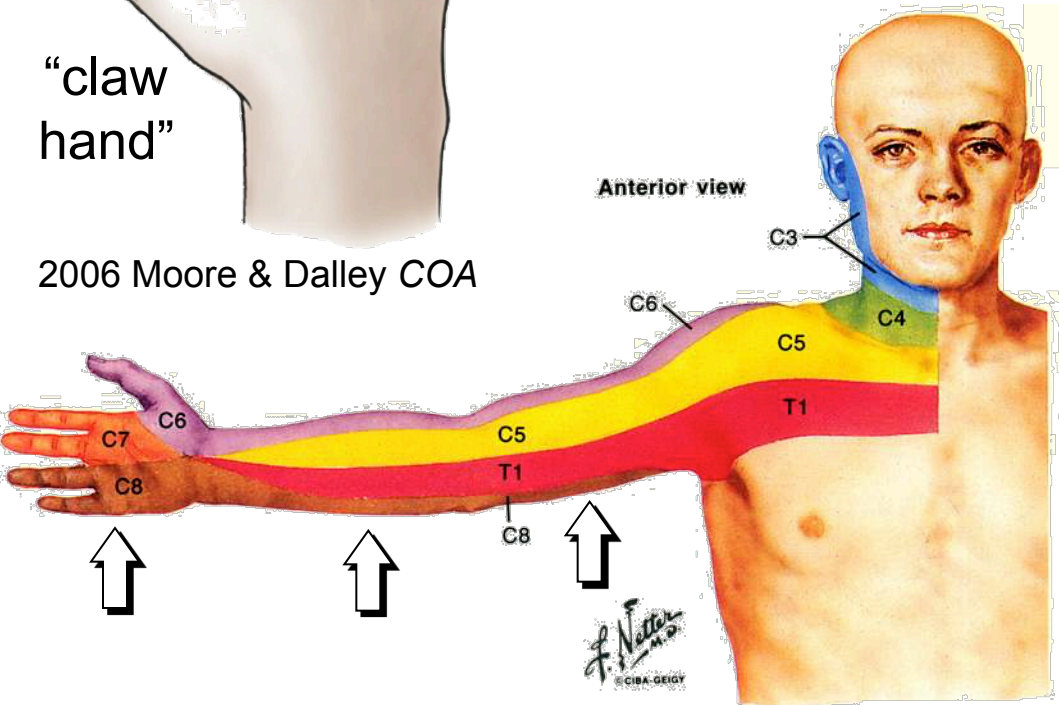
Lower Brachial Plexus Injury – Klumpke’s Palsy

- 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



“claw hand”

2006 Moore & Dalley COA



Netter 1997