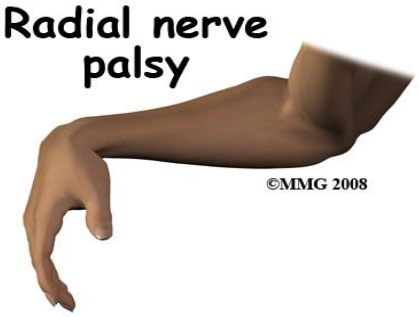
Nervous System

humorous fracture (drop hand)



deformity name:

- Radial Nerve Palsy

nerve injury:

- radial nerve

why injury to the humorous cause drop wrist?

The nerve arises in the axilla, it supplies the triceps in the upper arm (strong extensor of the elbow), Then goes in the **spiral groove of the humorous**, Then supplies the wrist extensors at the elbow level.

How can radial nerve be injured?

- Stab wounds Isolated injury to the posterior branch leads to sensory loss only.
- The radial nerve damaged if humorous is broken, because it runs through the radial groove on the lateral border of this bone.
- Persistent injury to the nerve by applying pressure externally along the route of the radial nerve as in the prolonged use of crutches or extended leaning on the elbows.
    - Saturday Night Palsy (individual falls asleep with the back of their arm compressed by the back of a chair).
    - Honeymoon Palsy (one individual sleeps on the arm of another individual).

can interphalangeal joint be moved?

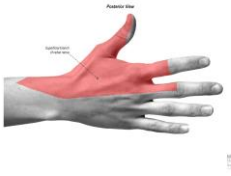
- Only fanning

why ?

Interosseous and lumbricals are intact

sensation?

dorsolateral aspect loss of sensation in the 3 and half Ringer



Radial nerve injuries (it's important to know the lesion at whish level)			
	Saturday night palsy		Isolated posterior interosseous nerve injury
Cause	drunk falling asleep on the edge of a chair compresses the radial nerve in the axilla	Fracture humerus at the spiral groove	Stab wound in the forearm
Motor exam	loss of EXTENSION at the: elbow , wrist, thumb, and fingers (drop wrist)	Normal elbow extension (triceps is supplied higher, spared) but a DROP WRIST (no wrist extension)and no thumb/finger extension	Normal elbow and wrist extension. but can not extend the thumb or fingers (NO WRIST DROP)*
Sensory exam	sensation over the three and a half fingers laterally on the dorsal side.		NO SENSORY LOSS (pure motor nerve)

From surgery team (Lecture 11)

this link maybe helpful:
https://www.youtube.com/watch?v=_Cu6ttAhe8Y