

### SAQ 8

A 35 yr old male presents to your Emergency Department following a motorbike accident. He has an isolated right wrist injury.

#### a. List 4 abnormalities seen on his x-rays (4 Marks)

1 Mark for each of:

- *Ulna styloid # - well corticated & likely old*
- *Crowding of proximal carpal row on AP view especially scaphoid & lunate*
- *Dorsal dislocation of proximal carpal row on lateral view / Peri-lunate dislocation*
- *Bone fragment seen between lunate & capitate on AP view - avulsion #*

#### b. List 2 relevant negatives (2 Marks)

1 Mark for:

- *No scaphoid # - high association with this injury pattern*

1 Mark for any of:

- *Nil laceration visible*
- *Nil air within soft tissue*
- *No splint in situ*

#### c. List 8 complications associated with this injury (4 Marks)

1/2 mark each up to 4 marks from:

*Acute*

- *Pain*
- *Swelling*
- *Neurological injury - median nerve compression*
- *Vascular injury - uncommon*
- *Pressure necrosis*

*Intermediate*

- *Compartment syndrome*
- *GA risk*
- *Operative risk if ORIF required - infection etc.*

*Late*

- *Carpal instability*
- *Stiffness*
- *Post traumatic osteoarthritis*
- *Complex regional pain syndrome*
- *Loss of function / income*
- *PTSD*

*Answers taken from McRae Practical Fracture Treatment 5th Ed. and Medscape Perilunate Fracture Dislocations Treatment & Management (<http://emedicine.medscape.com/article/1240108>)*