

# Vasu Pai MS, MCh, FRACS

### "Proximal Humerus Fracture"

A proximal humerus fracture is a common injury to the shoulder.

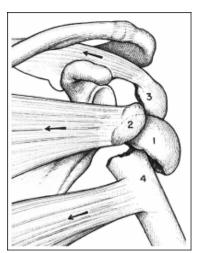
More common in elderly individuals due to osteoporosis.

90% heals with non-operative treatment

Some reequires Hemiarthroplasty or internal fixation

### Where is the broken bone in a proximal humerus fracture?

A proximal humerus fracture occurs when the ball, of the ball-and-socket shoulder joint, is broken. The fracture is actually at the top of the arm bone.

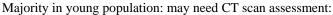


# What is the treatment of a proximal humerus fracture?

- 1. Most often, proximal humerus fractures are not badly displaced, and csn be treated with simple management in sling.
- 2. In more severe or badly displaced fractures, surgery may be necessary.

**In old people:** In surgery, either the fracture pieces are put back together and held in position, or the broken bones are removed and as shoulder replacement is performed.

**In young and some selected old people**: If the fragments of bone can be fixed, either spins, crews, wires, large sutures, or a plate will be used to hold the bones in place.





What are the common complications?

- 1. General complication of anaesthesia
- 2. 1% chance of infection after surgery: requiring antibiotics and sometimes cleaning of the wound
- 3. Nerve damage: may have problem in elevating shoulder. Majority may improve with time

- 4. Instability: joint replacement: Sense o joint coming out of the socket. Sometimes requiring re-operation
- 5. Failure to heal. May require re-operation and bone grafting.

#### Outcome surgery:

85-90% good to excellent

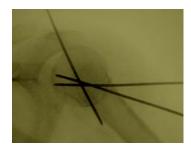
# Different ways of treating fracture proximal humerus?

### 1. Commonest: Sling for 3 weeks

Gentle Pendulum exercises Active mobilisation after 3 wks Avoid sports for 3 months

### 2. Manipulation and wire application:

Requires General anesthesia
Wires are passed through the skin
Problems: infection at the site of pins
Pin migration



### 3. Open reduction and fixation?

Open the fracture from the front and fix with a plate



### **4.Joint replacement:**

Small subgroup requires joint replacement Joint is performed with a cut in front of the joint Requires post op physio [Refer total should joint] 1% chance of infection Small chance of shoulder instability Small chance of nerve damage

