MIKE FOSTER Hand Wrist and Elbow Surgeon Non Union of a Hand Fracture Protocol

Problem

A fracture of one of the hand bones has either failed to heal.

Cause

- The most common cause for non union is related to the degree of trauma at initial injury.
- The complicating factors include smoking, diabetes and issues with splinting or plastering.

Diagnosis

- The non union site will be painful.
- Plain x-rays usually will identify the problem. Occasionally CT scan or MRI scan will delineate the problem further.

Treatment

- Operation to restore the anatomy, through ORIF (Open Reduction and Internal Fixation)
- Non unions often require bone grafting, either from the distal radius, or iliac crest, to fill voids related to the collapsed bone.

Potential Complications

 Infection, haematoma, stiffness. The bone can still fail to heal or heal in a slightly malunited position.

Post Op Care

- Analgesia, elevation, casting or splinting.
- Wound review at two weeks
- Mobilisation under the care of hand therapists if fixation is stable
- Union usually takes six to eight weeks