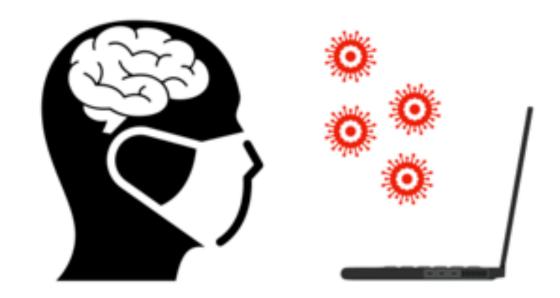
Simulated CBDs for PAH SpRs Project



Mr Simon Wimsey

Hand Surgery Topics



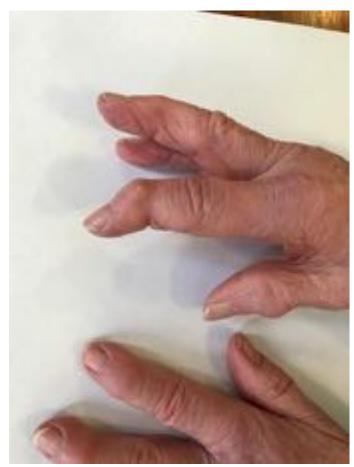
Hosted on www.school-of-Andry.com

78 year old lady
Presents with bilateral
hand and finger pain for
1 year











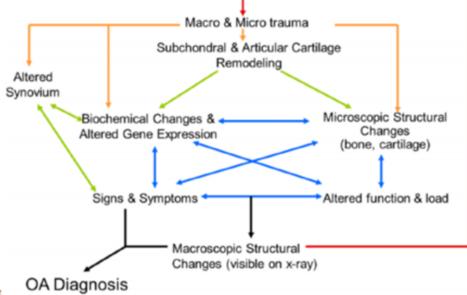


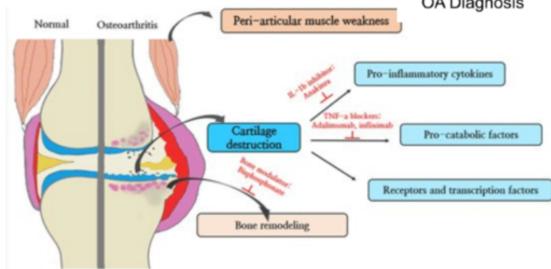






Pathophysiology of OA









Management

Conservative

```
analgesics
splints
hand therapy
warm wax
taping
```

Surgical

fusion joint replacement









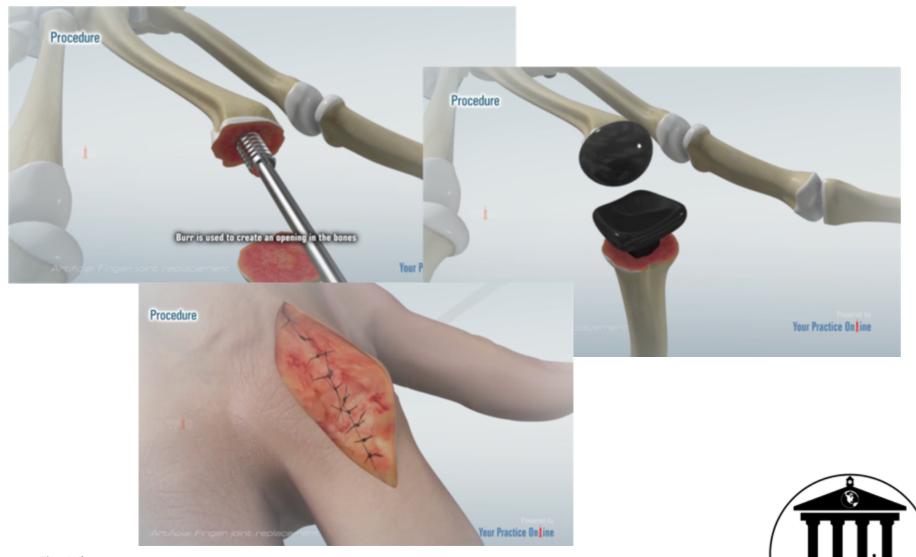




Practice On line









38 year old male Injury with garden shears Finger pulp injury



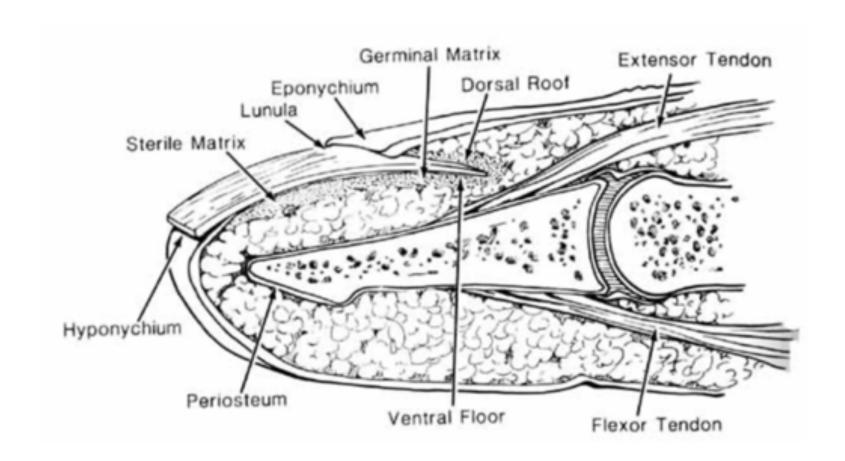




First aid
Antibiotics
Tetanus status
Management











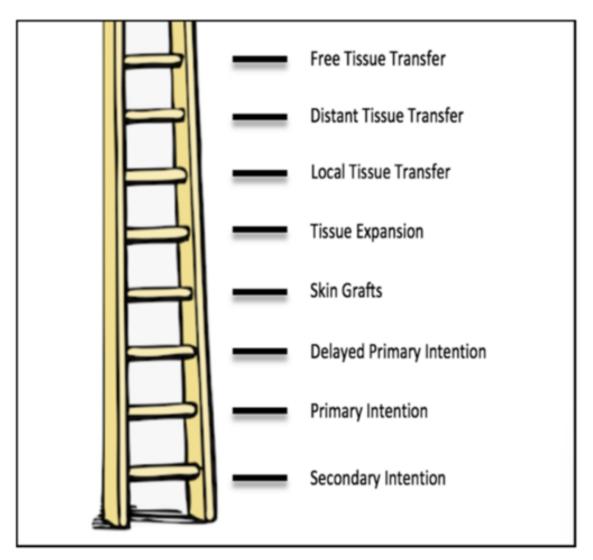
Management

Conservative (cling film)

- Surgical
 - VY advancement flap
 - Cross finger flap





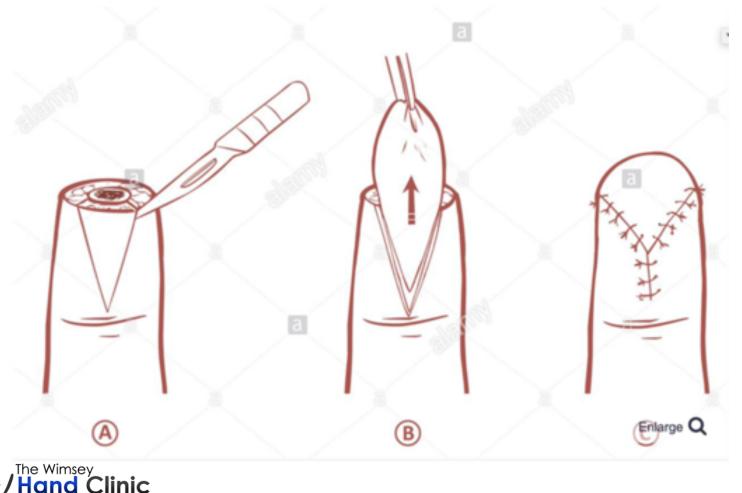


Reconstructive ladder

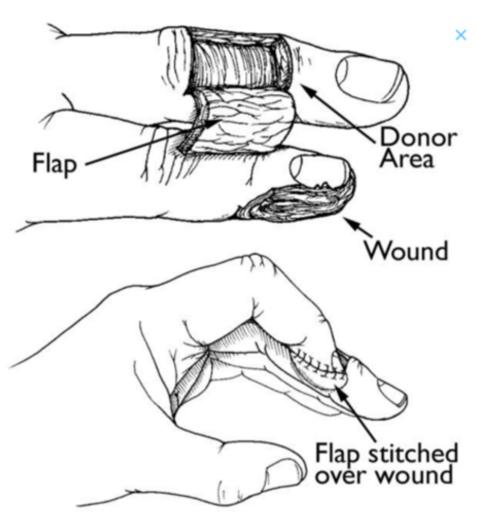




VY advancement flap









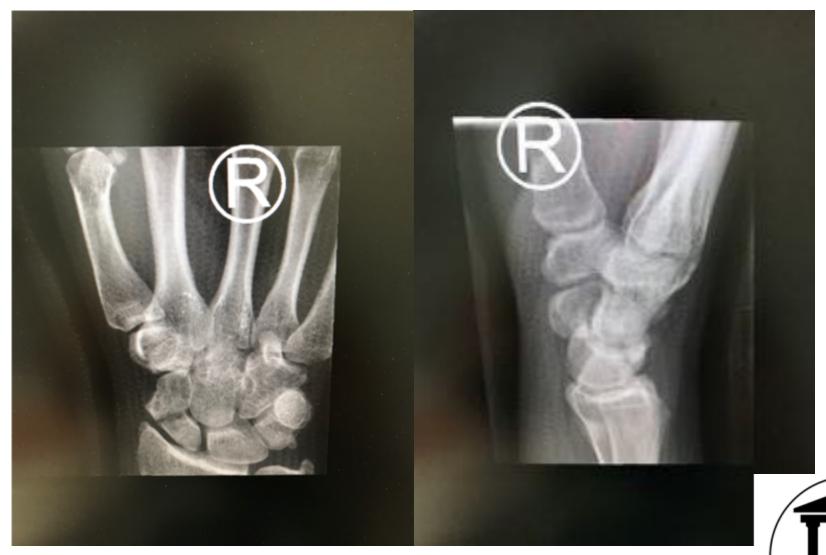




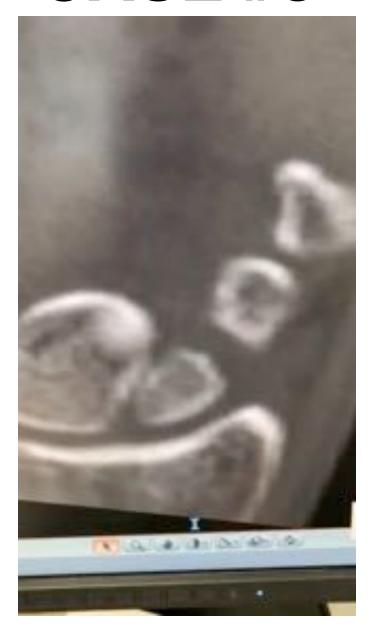
20 year old student Fell playing netball 5 months ago Subsequent fall 4 weeks ago Ongoing pain and clicking in right wrist





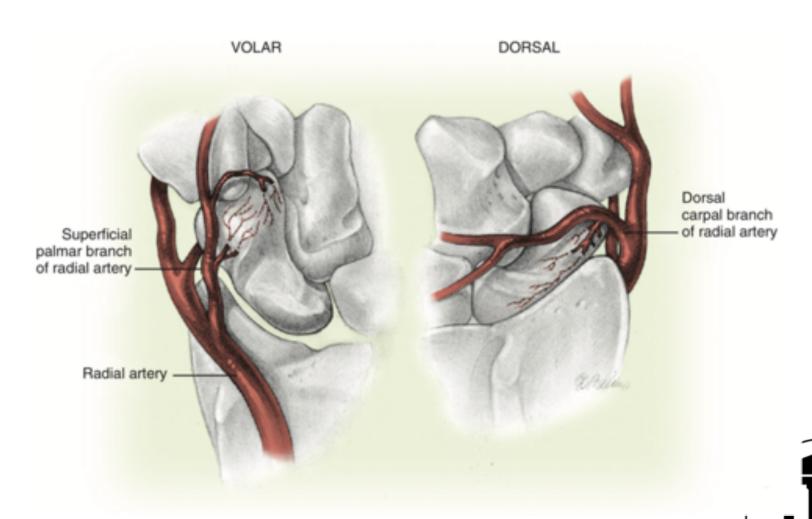






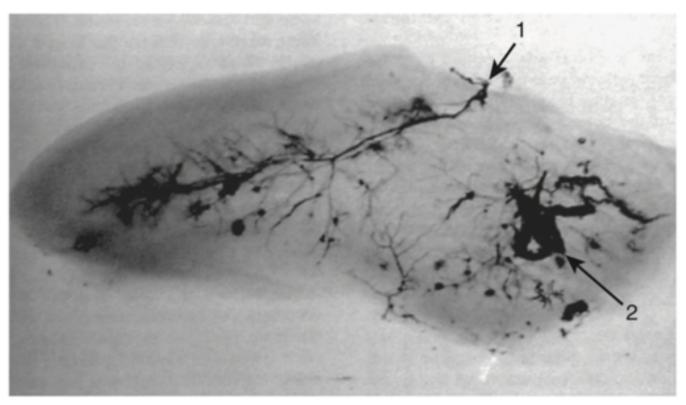








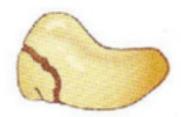
Gelbermann et al, J Hand Surg [Am] *5:508-513, 1980* Studied the intraosseous anatomy using injection techniques



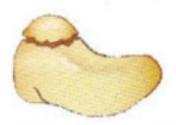




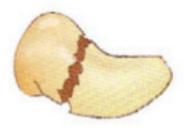
Mayo



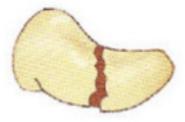
Distal articular surface



Distal tubercle



Distal third



Middle third



Proximal third



van Leerdam 2010



Russe

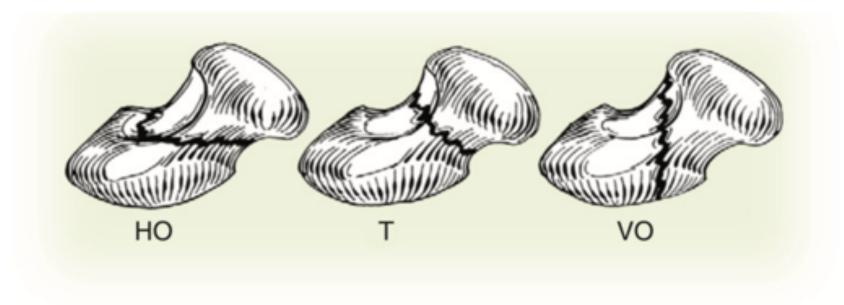
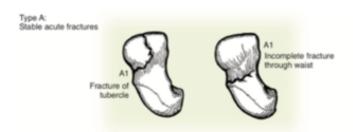


Figure 18.6 Classification of fractures of the scaphoid (Russe). HO, horizontal oblique; T, transverse; VO, vertical oblique. (From Taleisnik J: The Wrist, New York, Churchill Livingstone, 1985. Redrawn by Elizabeth Martin.)



Herbert



Type B:
Unstable acute fractures

B1

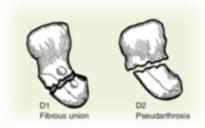
Distal oblique fracture of waist

Complete fracture periunal pole fracture of carpus

Type C: Delayed union



Type D: Established nonunion







Systematic review

- JHS Eur 2011 (Symes et al)
- Identified 8 studies comparing surgery vs conservative management of acute fractures
- No significant difference in
 - Pain, tenderness
 - Cost, functional outcome or patient satisfaction
- Plaster group
 - Above elbow no better than below elbow
 - Scaphoid cast no better than colles
- Surgical group
 - Non-union rate 3x lower (1.7% vs 10%)
 - Quicker return to function
 - Higher complication rate (CRPS, scar sensitivity, screw removal, STT arthritis)





Ongoing research

SWIFFT trial

- randomizing 400+ scaphoid fractures to either conservative or surgical management
- Primary outcome PRWE
- Secondary outcomes
 - Radiographic union
 - Quality of life
 - ROM and grip strength
 - Complications

Scaphoid Waist Internal Fixation for Fractures Trial (SWIFFT) protocol: a pragmatic multi-centre randomised controlled trial of cast treatment versus surgical fixation for the treatment of bi-cortical, minimally displaced fractures of the scaphoid waist in adults

Joseph Dias^{1*}, Stephen Brealey², Surabhi Choudhary³, Liz Cook², Matthew Costa⁴, Caroline Fairhurst², Catherine Hewitt⁵, Stephen Hodgson⁶, Laura Jefferson², Kanagaratnam Jeyapalan⁷, Ada Keding², Paul Leighton⁸, Amar Rangan⁹, Gerry Richardson¹⁰, Claire Rothery¹⁰, Nicholas Taub¹¹, John Thompson¹² and David Torgerson⁵





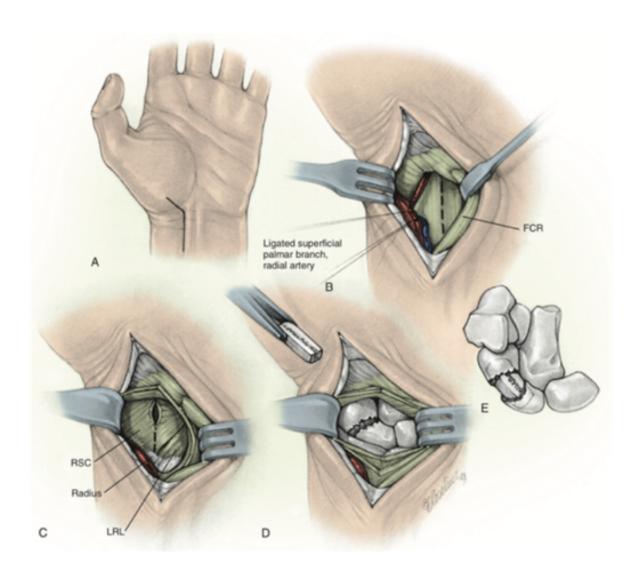


CASE #3 Approaches

- Volar approach
 - Incision made along radial border of thenar eminence and proximally along radial aspect of FCR tendon
 - Sheath of FCR is incised and FCR is retracted ulnarly to protect palmar cutaneous branch of median nerve
 - Longitudinal incision is then made in floor of FCR sheath to expose distal pole and waist of scaphoid
 - Fixation as before





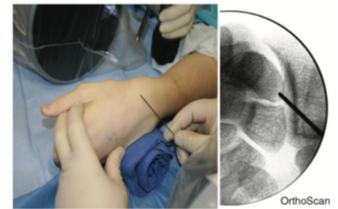






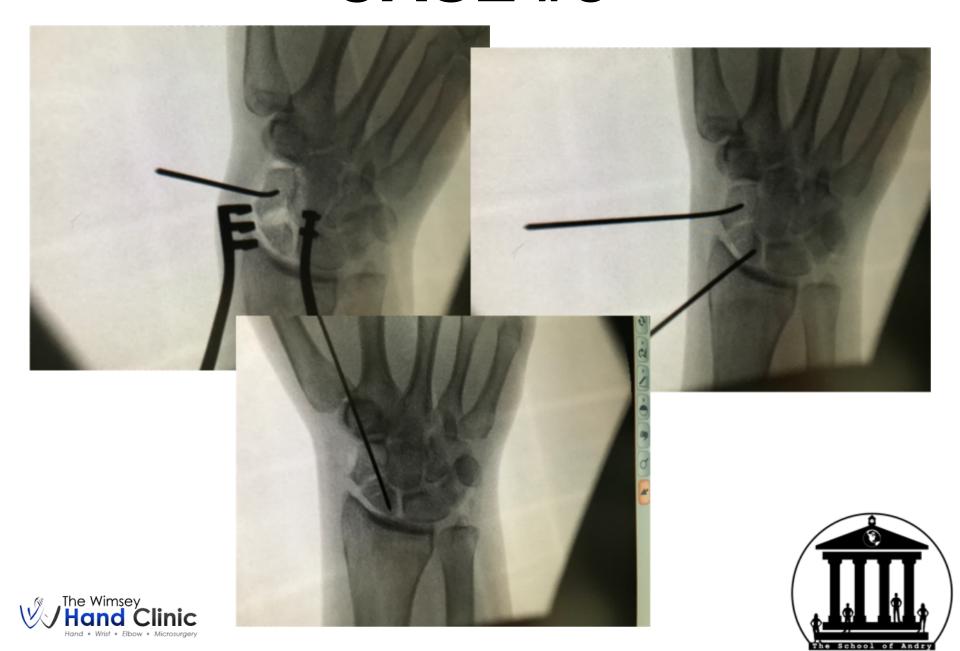
Approaches

- Dorsal approach
 - Incision between 3rd and 4th dorsal compartments over radiocarpal joint
 - EPL tendon released from its sheath and retracted radially
 - Longitudinal incision is then made in wrist capsule, exposing scapholunate joint
 - Reduce fracture if necessary and provisionally hold with kwires
 - Insert headless compression screw















CASE #3My Management Algorithm

- Unsure if there is fracture
 - Get MRI scan
- Unsure of displacement
 - Get CT scan
- Treat in scaphoid cast for 6-12 weeks if stable / undisplaced fracture – image at 2, 6 and 12 weeks
- Fix fracture if
 - Displaced
 - proximal pole
 - clinically indicated (elite athlete, bilateral fractures, part of a more extensive carpal injury / dislocation etc...)





ANY QUESTIONS?





