

Alternative Procedures to Preserve Motion

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Denervation

- Posterior & Anterior Interosseous
- Perforating branches of cutaneous nerves
(Dorsal Ulnar & Superficial Radial)
- ? Charcot joint
- Inject first

Distal Pole Scaphoid Resurfacing

- Not commonly performed
- True longterm outcome awaited
- Pyrocarbon appears to work well
- Is it denervation of joint?



Distal Scaphoid Excision

- In early SNAC with fixed DISI
- No Capitate involvement
- Improves ROM & reduces pain

Scaphoidectomy + 4 Corner Fusion

- Need normal Lunate fossa
- Problems:
 - non-union
 - Tendon adhesion / attrition
 - Prominent metal with newer plates



Prox. Row Carpectomy

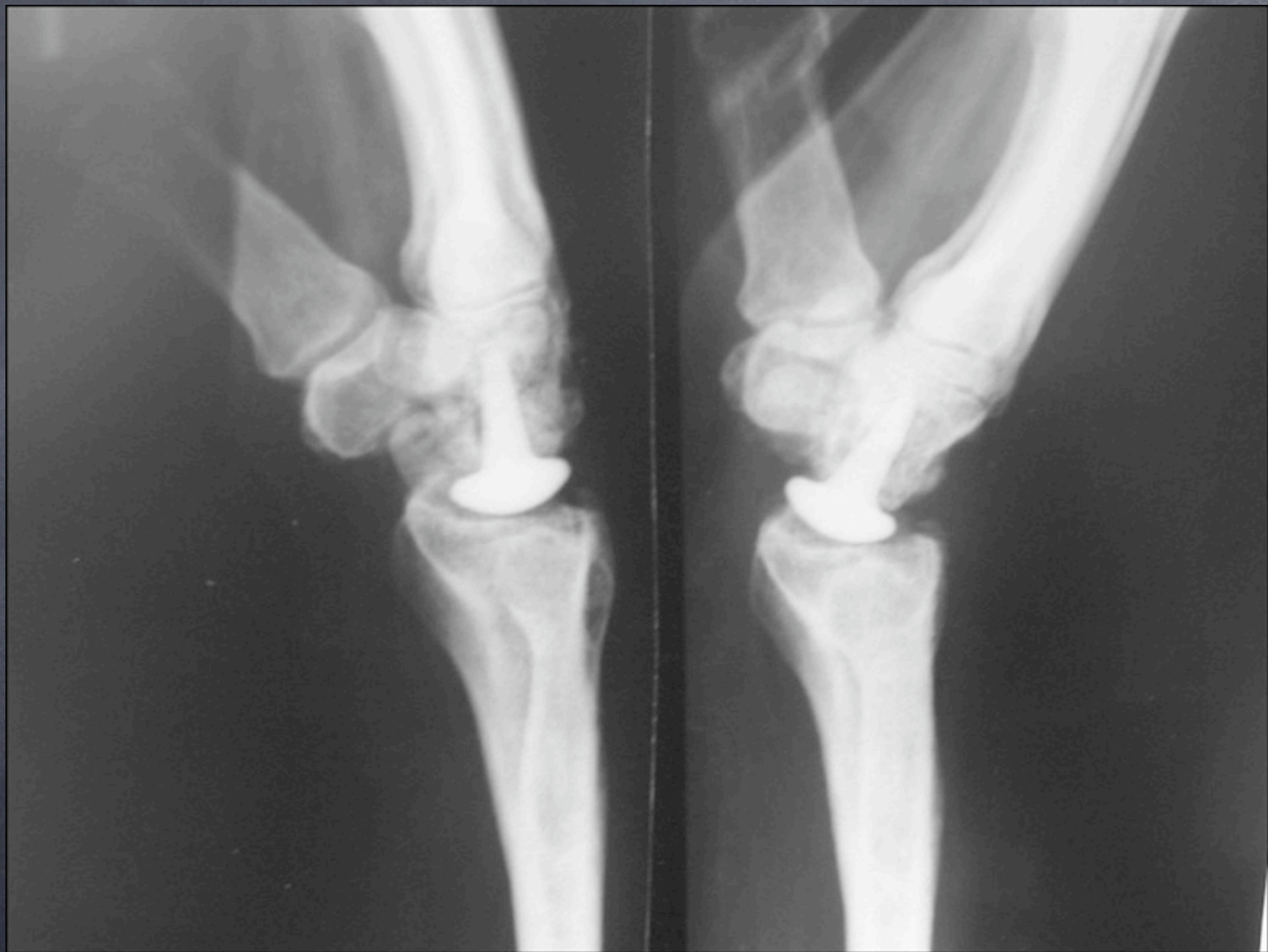
- Good in cases where carpal height already reduced
- Need normal proximal pole of Capitate & normal lunate fossa
- Or?.....



...Capitate Resurfacing

- Pyrocarbon implant
- Similar elastic properties to bone
- Appears not to cause pain when articulating with arthritic surface ?due to denervation
- Salvage is wrist fusion





Proximal Pole Scaphoid

- Biomechanically makes no sense
- Clinically seems to work
- ?denervation
- Salvage depends on other joints





Kienböcks

- Surgical Options for Stage IV
 - Remove: Proximal row (?capitate involved)
 - Replace: Pyrocarbon vs Silicone



Post-Op X-ray of pyrolytic carbon implant in Kienbock's patient.

Discussion

- Pain vs ROM
- Patient selection
- Role of Hand Therapists
- Long term outcome

Thank You

