El to EPL tendon Transfer Dr Stuart Myers





Orthopaedic Hand Surgeon, Sydney Orthopaedic Specialists

www.myhand.com.au



SSOS SYDNEY ORTHOPAEDIC SPECIALISTS

Post Undisplaced Colles



Allow Fracture to heal

Hand Therapy – Regain full ROM wrist

 Maintain thumb range of motion





Testing EPL function





Pre-op Check



Passive ROM
Thumb
Wrist

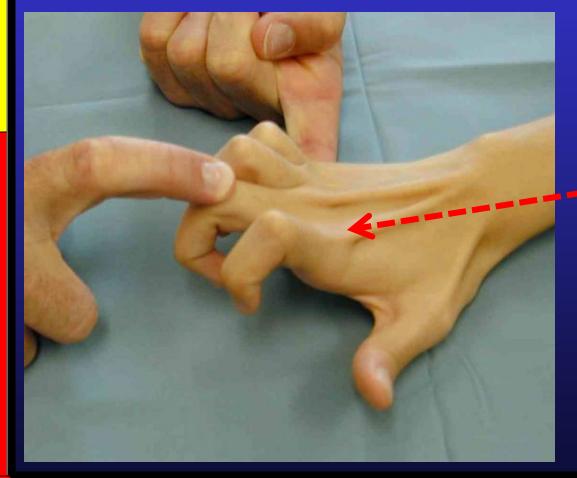
 Exclude Thumb OA
 May become irritable after 6 weeks in a cast in retropulsion

Ultrasound wrist



 Ultrasound wrist after fracture if concern re bone spike - this may rupture tendon transfer

Pre-op Check



 Check for 2 index extensor tendons
 EI on the ulnar side and deeper

Essential Instruments

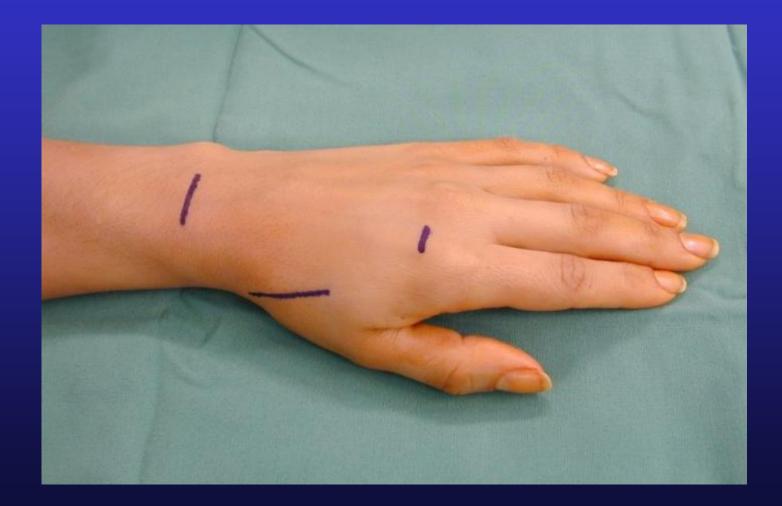


Essential Instruments

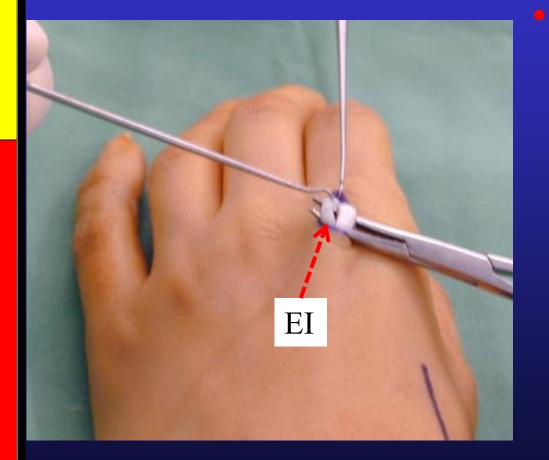
• Tendon passer



Incisions



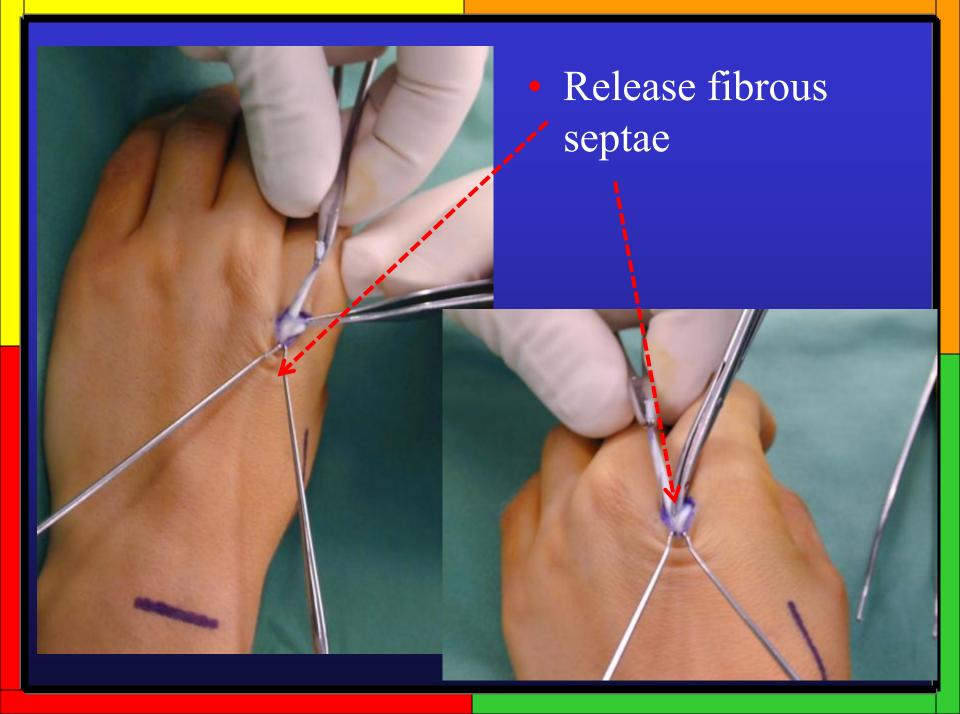
EI harvest



Put a suture through end of EI in case it is difficult to retrieve in the proximal wrist wound

 Often some fibrous septae which need to be released



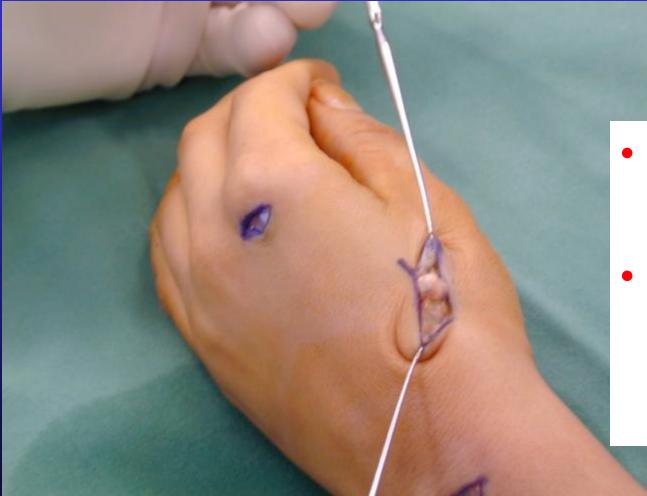




Tendon retrieved proximally

 Wrap tendon in moist gauze to keep it off skin

Thenar incision



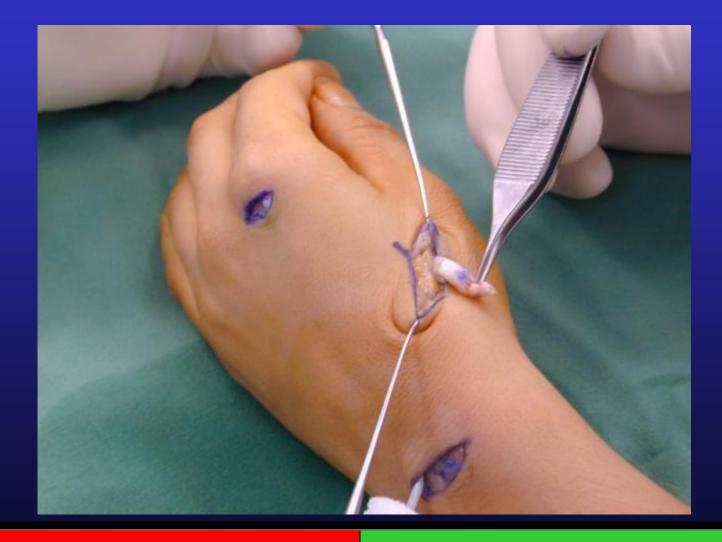
• Beware SRN

• Find EPL tendon end

Tendon grabber Easier to find correct tendon plane adjacent to EPL stump

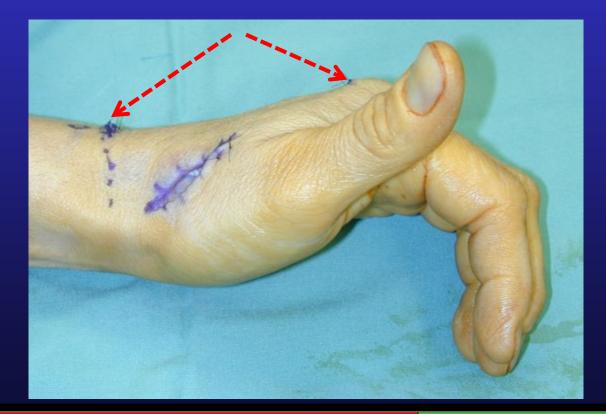


EPL distal tendon



Close 2 donor wounds 1st

• Before tendon junction



Tendon junction



 +/- As tight as possible – it will stretch

30 or 40 Ticron sutures

+/- Never too tight!!!



Testing tension



Wrist DF thumb can touch index

Testing tension



Wrist neutral thumb fully extends

In practice I find this is too loose!!!

Cast 6 weeks



• Wrist DF 30 - 40 *

• Thumb extended

Hand Therapy

- Crepe bandage after cast remove
- Scar massage
- Transfer will stretch within 6 weeks



The End

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