



GP Education
Upper Limb
Night 2

Approved 40
Category 1
points

Welcome – Tonight's Agenda

9.30pm



			RAMSAY
6pm	Dinner & Registration		
6.35 pm-7.10pm	Diagnosing acute shoulder & elbow conditions		Dr John Trantalis
7.10pm to 7.50pm	Arthritis & ligament disruptions - hand/wrist		Dr Jai Sungaran
7.50pm to 9.30pm	4 x 20 min Workshops–Split into 2 groups/switch		
8.40pm	Wrist Xray Workshop	Shoulder Workshop	
	Reception area	Conference room	
8.40pm to 8.50pm	10 min swap / break time		
8.50pm to 9.30pm	Taping, Splinting hand & wrist	Elbow Workshop	Orthocentre

Reception area

Conference room

Excellence in sports injury management and joint replacement surgery

Close

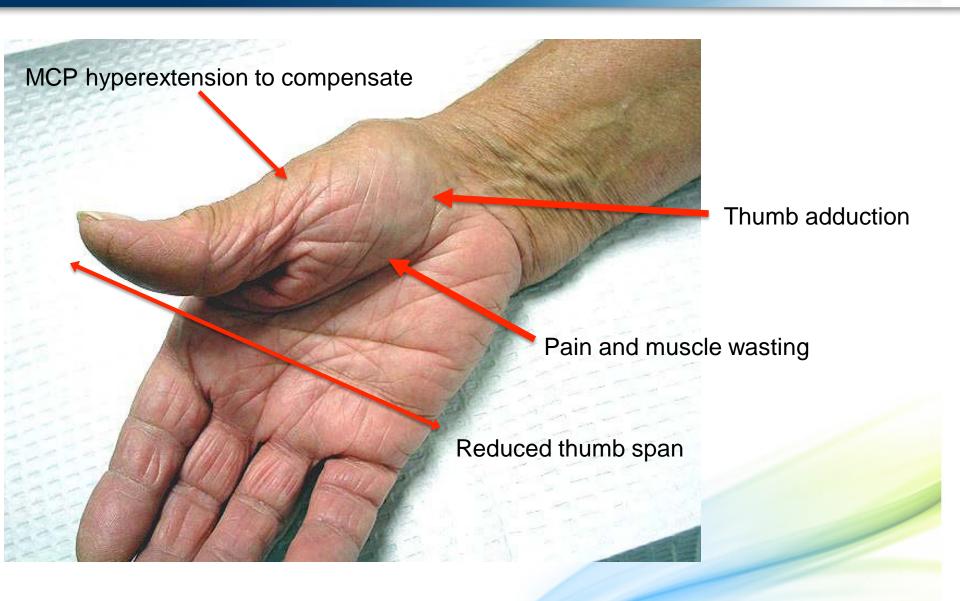
Ligament disruptions and Wrist Arthritis

- Thumb
 - CMC Arthritis
 - UCL injuries
- Fingers
 - DIP arthritis and mucous cysts
 - PIP & MCP arthritis
- Wrist
 - Scapholunate ligament tears
 - TFCC tears
 - Wrist arthritis



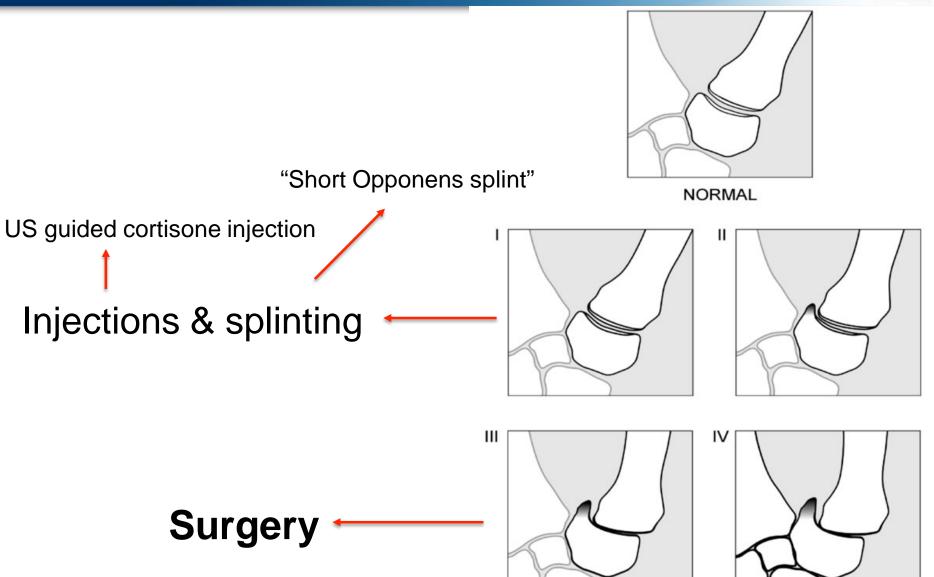
THUMB CMC ARTHRITIS





As a general guide....





THUMB CMC ARTHRITIS





THUMB CMC ARTHRITIS



- Key points
 - Xray does not correlate with symptoms or disability

 Injections and splints can still help if done properly

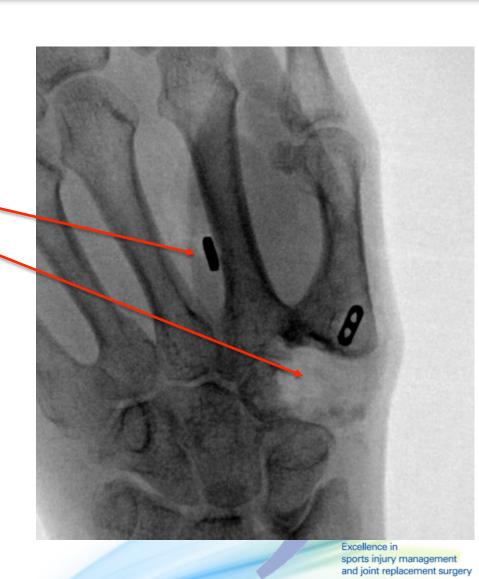
Surgery = Pain relief



TRAPEZIECTOMY



- Trapeziectomy with button suspension
- Free space for articulation
- Prevents thumb migration
- Start moving within 2 weeks
- Splint removed at 4 weeks



POST OP DAY 12





NEW OPTIONS



- Pyrocarbon joint replacement
- Preserves bone
- Maintains height
- Some improved grip strength
- Intra-op decision



THUMB UCL INJURY



Skier's thumb or Gamekeeper's thumb

Axial and radial deviation force

UCL & dorsal capsule

Stener lesion



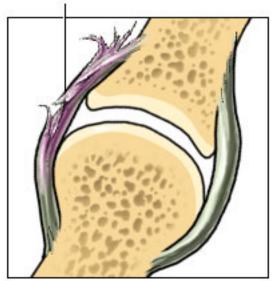
THUMB UCL INJURY



 Partial rupture can be managed in a splint for 6/52 then test

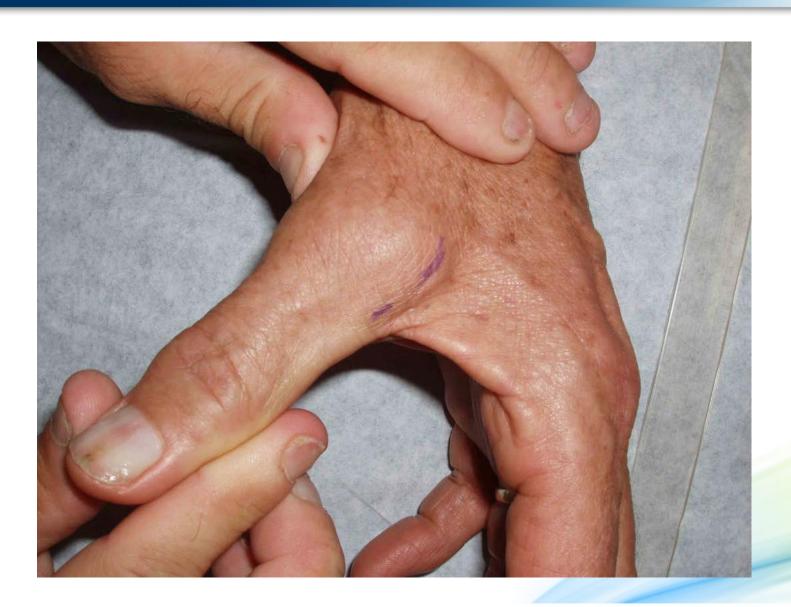


Partial tear through the ligament





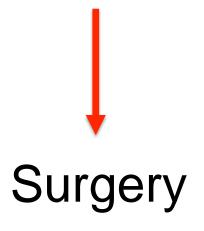
THUMB UCL INJURY

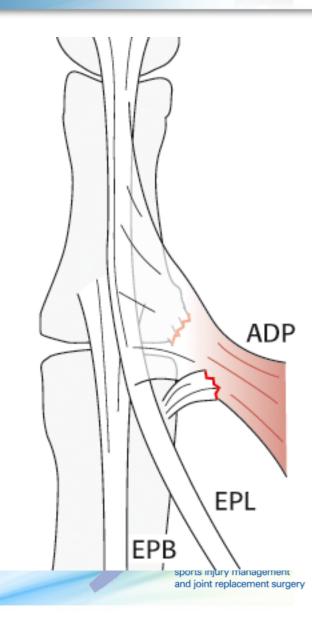


THUMB UCL RUPTURE



- Stener lesion
- Complete rupture
- Delayed presentation





PIP JOINT INJURIES

People caring for people

RAMSAY

RAMSAY

RAMSAY

REALTH CARE

BEODIS CRIMBE QUE BEODIS

- Volar plate fracture
- Collateral ligament rupture



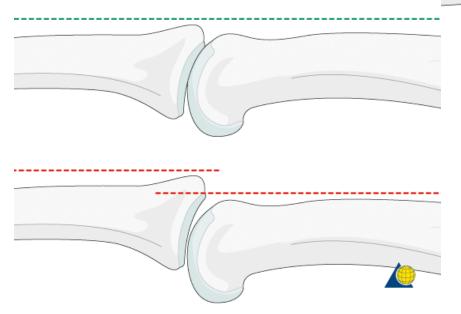


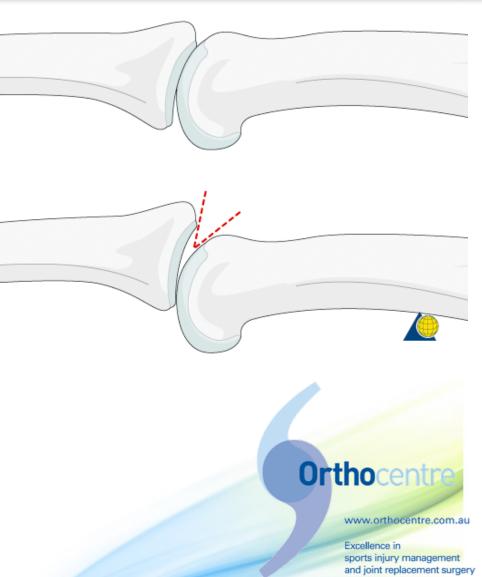


PIP JOINT INJURIES



 Recognising subluxation can be subtle

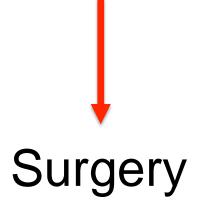




PIP JOINT VOLAR PLATE INJURY



- V sign
- >1/3 joint surface
- Ruptured collaterals

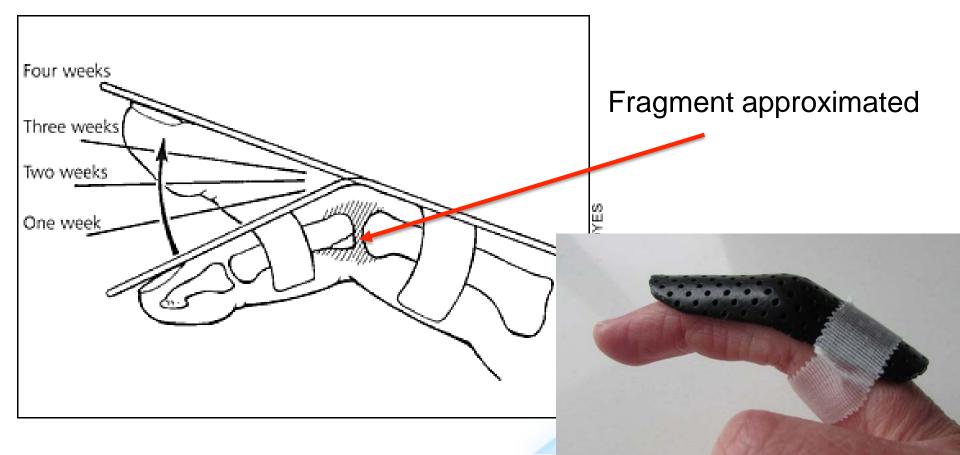




PIP JOINT INJURIES



- Stable injuries can be splinted
- Dorsal blocking splint 3 weeks



PIP JOINT INJURY MISSED

- Delayed injuries can lead to osteoarthritis
- Loss of flexion and grip strength

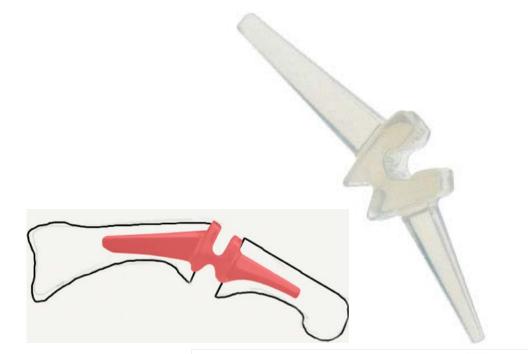


PIP JOINT INJURY MISSED





- Joint replacement can salvage.... sometimes
- Fusion for young patients and border digits



MCP Arthritis



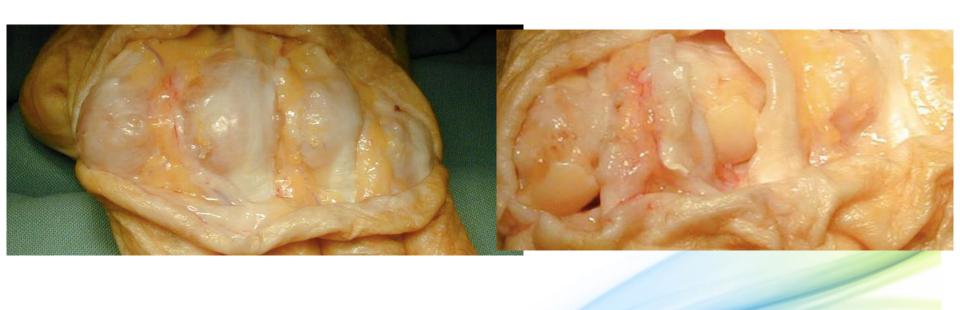
- Traditionally RA but can be isolated OA joints.
- Ulnar drift
- Biologic DMARD eg: etanercept,



MCP Arthritis

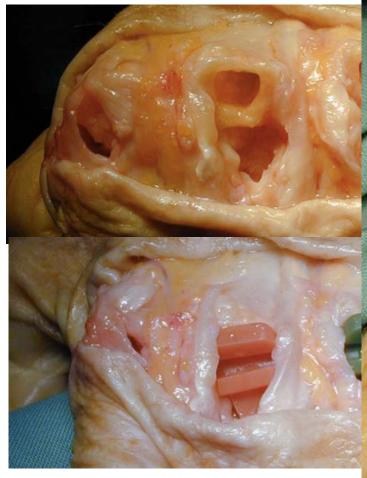


- Joint replacement +/tendon realignment
- "Easier" to replace all 4
- Hand Therapy is key



MCP Arthritis



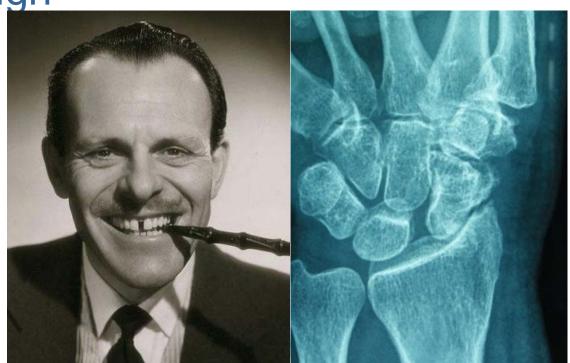




SCAPHOLUNATE LIGAMENT

- Commonly diagnosed as "wrist sprain"
- Pain on grip and twist
- Drills, wrenches, spanners

Terry Thomas sign



SCAPHOLUNATE INSTABILITY



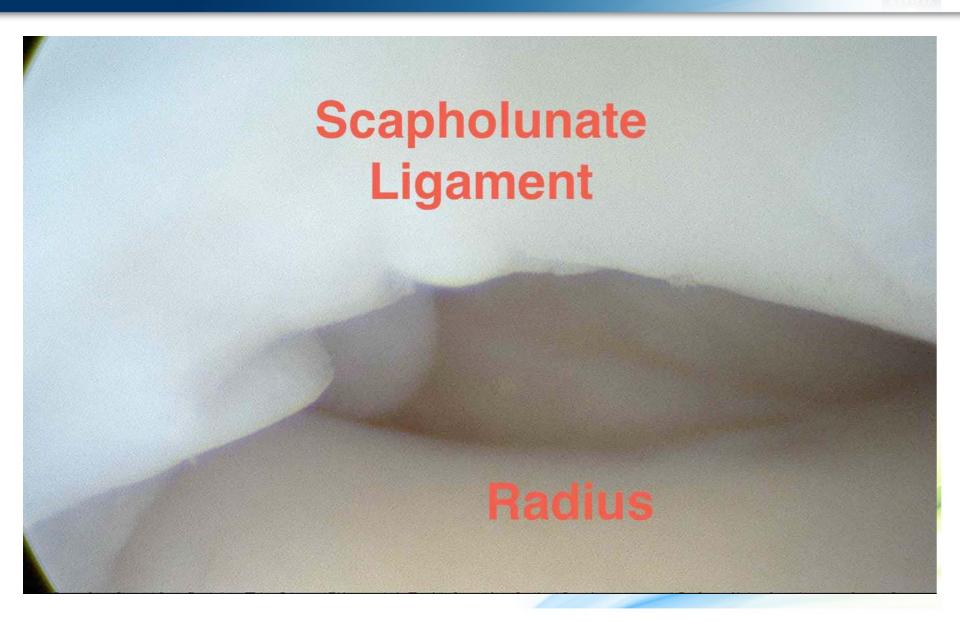
- Pain +/- clicking in wrist
- Tender distal to Lister's tubercle
- Positive Kirk-Watson test (aka Watson's shift)
- Swelling/bruising
- Reduced ROM and grip strength

HEVTAH CYRE

- Imaging
 - Xray >3mm gap diagnostic
 - Flexed scaphoid
 - Extended lunate
- MRI
 - Interosseous component is most important



ARTHROSCOPIC VIEW



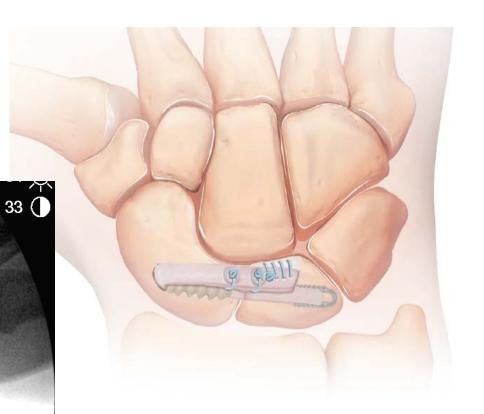
ARTHROSCOPIC VIEW



LIGAMENT RECONSTRUCTION







LIGAMENT RECONSTRUCTION

- Restores interosseous component
- Reduces the incongruous movement
- Lowers chance of SLAC wrist

Stiffness...

SLAC WRIST





TREATMENT OPTIONS







Scaphoid excision and four corner fusion

Total wrist fusion



TREATMENT OPTIONS



Radiocarpal joint replacement

Pain relief and motion preserving

Limitations to carrying capacity

10-15 years but newer designs are more promising







Early CMC arthritis can be best treated by

- A. Activity modification
- B. Regular simple analgesics
- C. Hand therapy and a short opponens splint
- D. All of the above





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22yoM Fell at soccer on right thumb. Painful swollen MCP joint

- A. UCL injury & likely Stener lesion. Refer to Hand Surgeon
- B. Sesamoid fracture. Can use it immediately
- C. UCL injury. Cast for 6 weeks then physio
- D. Avulsion fracture. Immobilise for 4/52





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This fracture of the PIP joint

- A. Must be splinted in extension for 6 weeks
- B. Will require surgical management
- C. Does not require splinting
- D. Dorsal splint at ~30° flexion and gentle ROM





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- Look at the differer with this fracture.
- Joint incongruent
- Fragment >30%





What is your diagnosis and next step?

- A. # Radius. Cast for 6 weeks
- B. # Radius but ?SL ligament rupture. Cast and MRI.
- C. # Scaphoid. Cast for 8 weeks
- D. No fracture seen. Repeat Xray 1/52





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SUMMARY POINTS



- Thumb Partial UCL non op. High grade = Surgery
- Base of thumb OA don't have to just "live with it"
- PIP Check congruence and "V" sign. If >30% needs surgery
- Scapholunate ligament Suspect rupture with high velocity fractures, twisting/rotational forces.

THANK YOU!!



For more information...

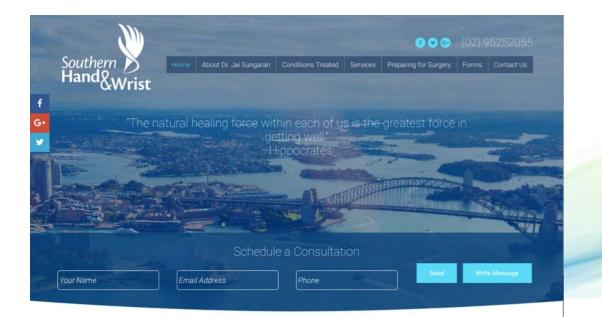
www.handandwrist.com.au or email me: doctorjai@optusnet.com.au



@Shandandwrist



Southern Hand & Wrist



WHAT'S NEXT?



- 1st Workshop
 - Radiology of common hand and wrist conditions
- 2nd Workshop
 - Taping/Casting for acute injuries
 - Buddy taping
 - Dorsal blocking splint / Mallet splint
 - POSI splint
 - Ulnar gutter splint
 - Radial gutter splint
 - Short arm cast