

Dr Kwan Yeoh

www.orthosports.com.au

47-49 Burwood Road, Concord
29-31 Dora Street, Hurstville
119-121 Lethbridge Street, Penrith

Scaphoid injuries

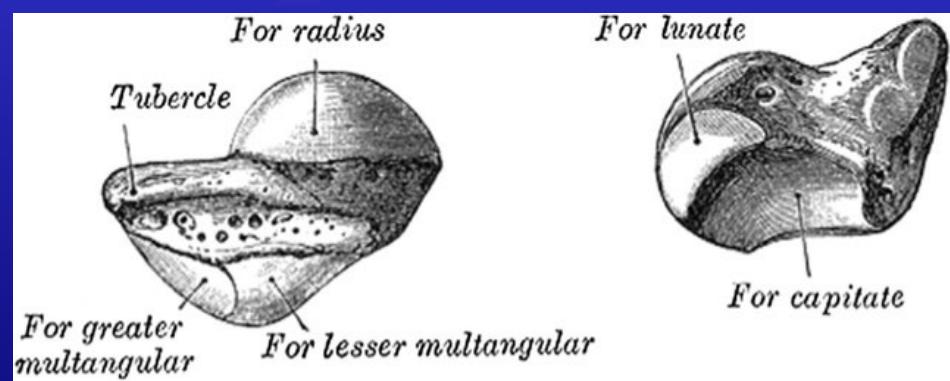


ORTHOSPORTS

ORTHOPAEDIC & SPORTS MEDICINE SERVICE

Dr Kwan Yeoh
Hand, Upper Limb & General Orthopaedic Surgery

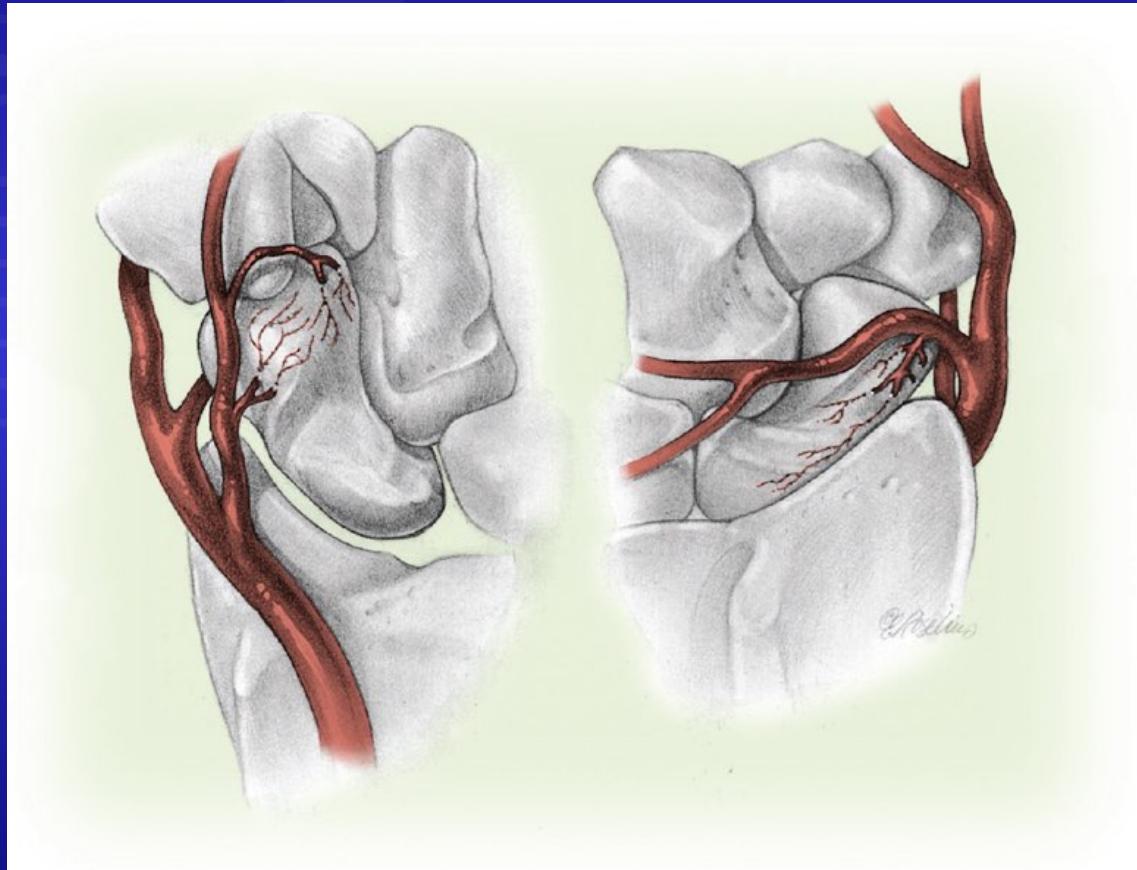
The importance of the scaphoid



Panchal-Kildare S, Malone K. *Skeletal Anatomy of the Hand*. *Hand Clinics*. 2013 Nov;29(4):459–71.

Dr Kwan Yeoh
Hand, Upper Limb & General Orthopaedic Surgery

The importance of the scaphoid



Geissler WB, Slade JF. chapter 18 - Fractures of the Carpal Bones. Sixth Edition. Green's Operative Hand Surgery. Elsevier Inc; 2011. 69 p.

Types of scaphoid injury

- » Fracture
- » Ligaments
 - » Scapholunate ligament
- » Combination
- » Acute vs chronic
- » Associated with other injuries

Stable



Low nonunion rate

Unstable

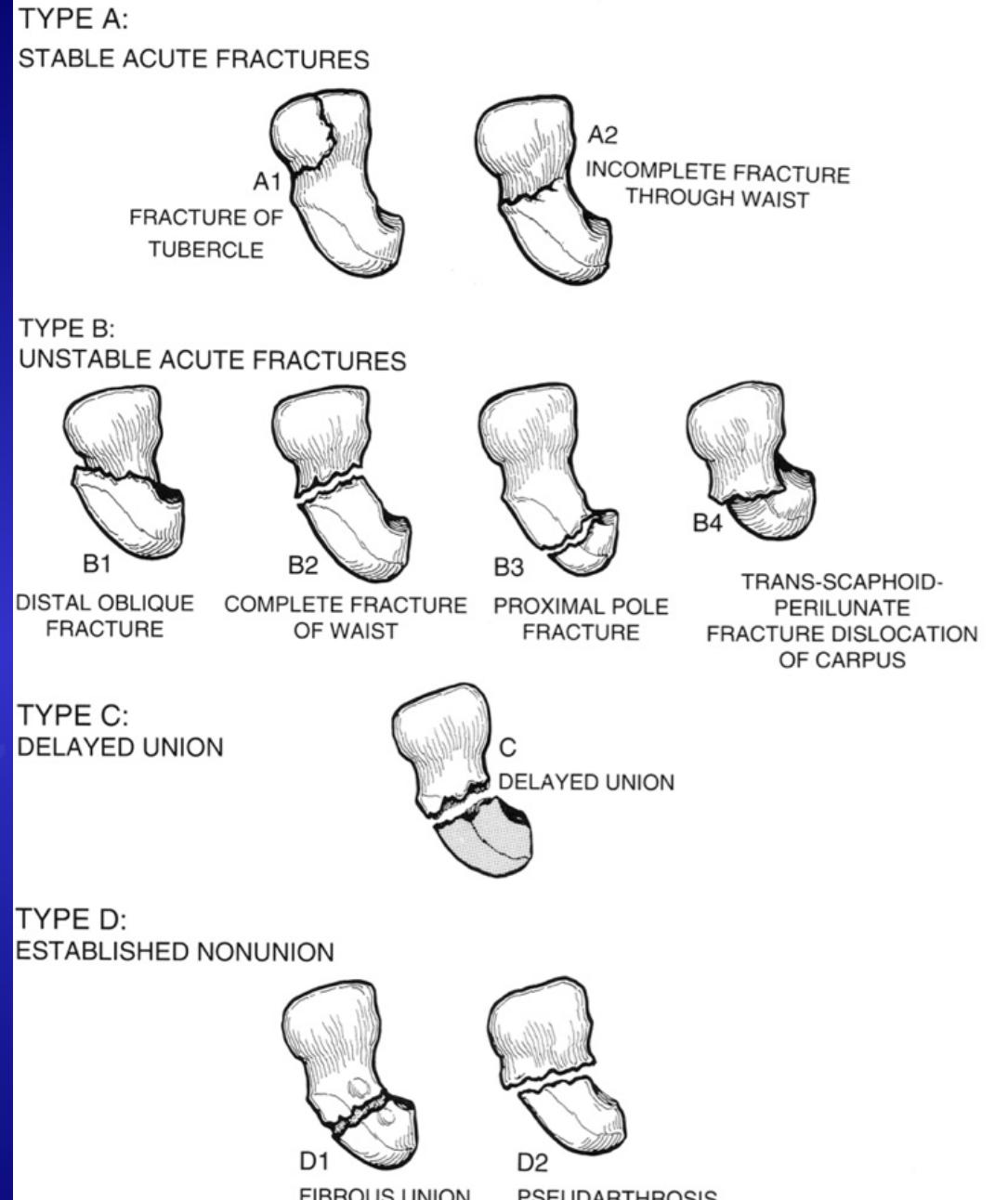


High nonunion rate



Surgical fixation

Stable Unstable Delayed Nonunion



Dr Kwan Yeoh
Hand, Upper Limb & General Orthopaedic Surgery

Acute presentation

History

- » How?
- » When?
- » What?
- » Where?

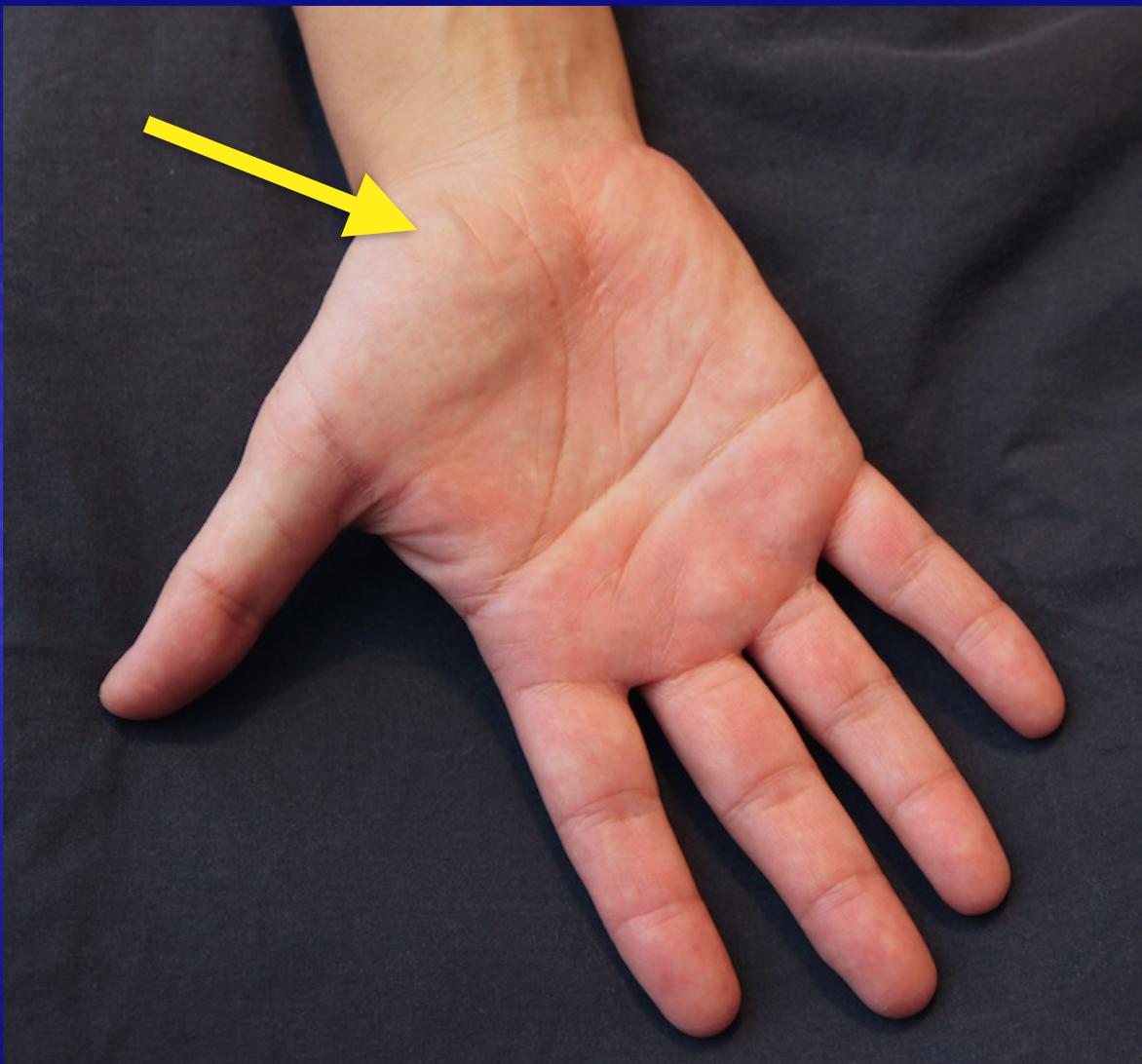




ORTHOSPORTS

ORTHOPAEDIC & SPORTS MEDICINE SERVICE

Dr Kwan Yeoh
Hand, Upper Limb & General Orthopaedic Surgery





ORTHOSPORTS

ORTHOPAEDIC & SPORTS MEDICINE SERVICE

Dr Kwan Yeoh
Hand, Upper Limb & General Orthopaedic Surgery

Examination



Tender

X-ray



Treat



No fracture

Immobilise



Wait 1-2 weeks

Repeat examination



Tender

X-ray



Treat



No fracture

CT/MRI



ORIGINAL ARTICLE

(*J Orthop Trauma* 2015;29:e245–e252)

Cost-Effectiveness of Diagnostic Strategies for Suspected Scaphoid Fractures

Zhong-Gang Yin, MD, Jian-Bing Zhang, MD, and Ke-Tong Gong, MD

ORIGINAL ARTICLE

Cost effectiveness of adding magnetic resonance imaging to the usual management of suspected scaphoid fractures

S Brooks, F M Cicuttini, S Lim, D Taylor, S L Stuckey, A E Wluka

Br J Sports Med 2005;39:75–79. doi: 10.1136/bjsm.2003.007435



ORTHOPAEDIC & SPORTS MEDICINE SERVICE

Dr Kwan Yeoh
Hand, Upper Limb & General Orthopaedic Surgery



MRI: Dr Roberto Schubert, Radiopaedia.org, rID: 14726

Dr Kwan Yeoh

Hand, Upper Limb & General Orthopaedic Surgery

Chronic presentation

Other possible causes of pain

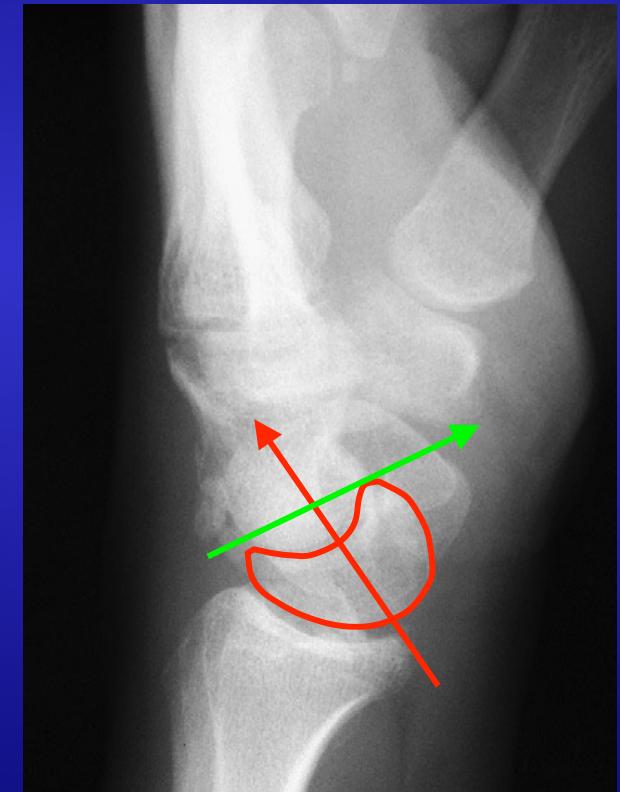


Arthritis
Ligament injury
“Overuse” condition

Other possible causes of pain



Arthritis
Ligament injury
“Overuse” condition



Manuel J, Moran SL. The diagnosis and treatment of scapholunate instability. Hand Clinics. 2010 Feb;26(1):129–44.

Other possible causes of pain

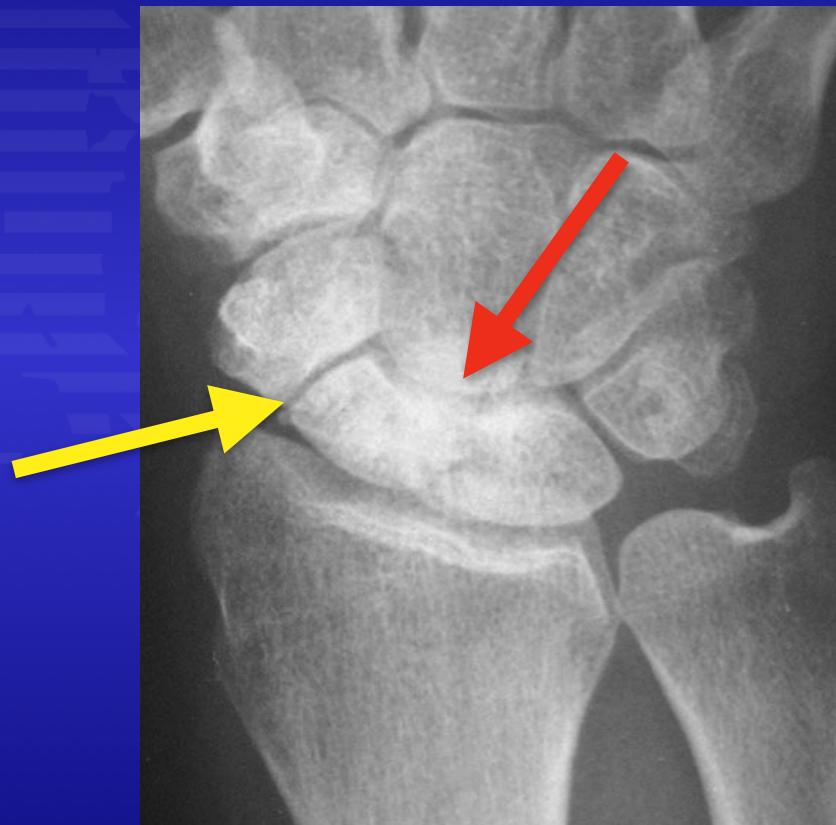


Arthritis
Ligament injury
“Overuse” condition

Long-term sequelae

SNAC

Scaphoid Nonunion Advanced Collapse



Strauch RJ. Scapholunate advanced collapse and scaphoid nonunion advanced collapse arthritis--update on evaluation and treatment. *The Journal of Hand Surgery*. 2011 Apr;36(4):729–35.

Management

Stable



Low nonunion rate

Unstable



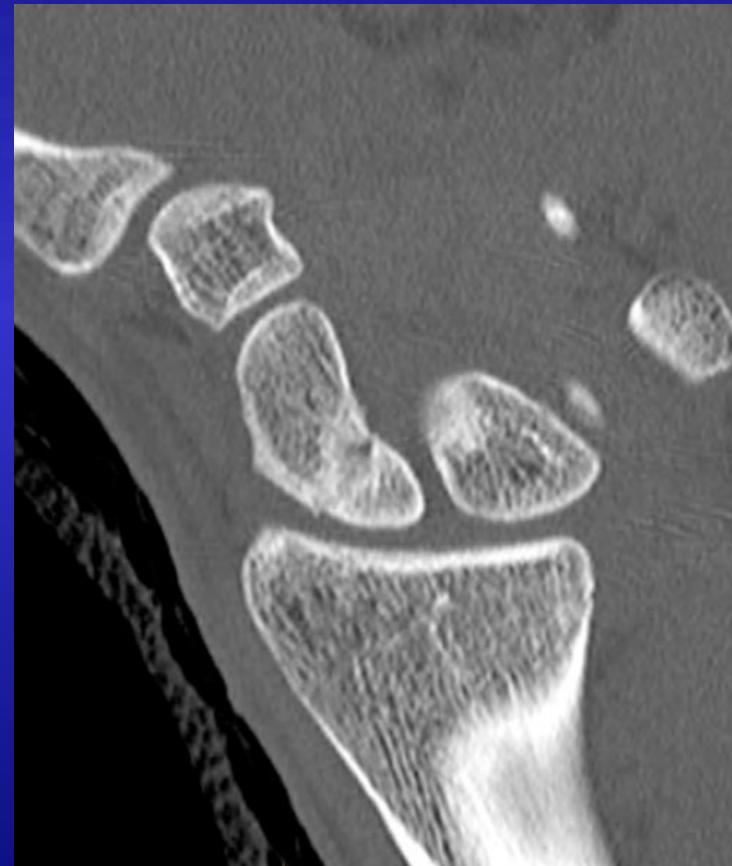
High nonunion rate



Surgical fixation

Nonoperative management

- » For stable fractures
- » Cast immobilisation
- » 8-12 weeks
- » Consider CT to check union



Operations for minimally displaced waist fractures

Advantages

Quicker return to function
Quicker return to work

Disadvantages

More complications

No difference

Fracture union rate
Pain levels
Cost

Dr Kwan Yeoh
Hand, Upper Limb & General Orthopaedic Surgery

What operation?

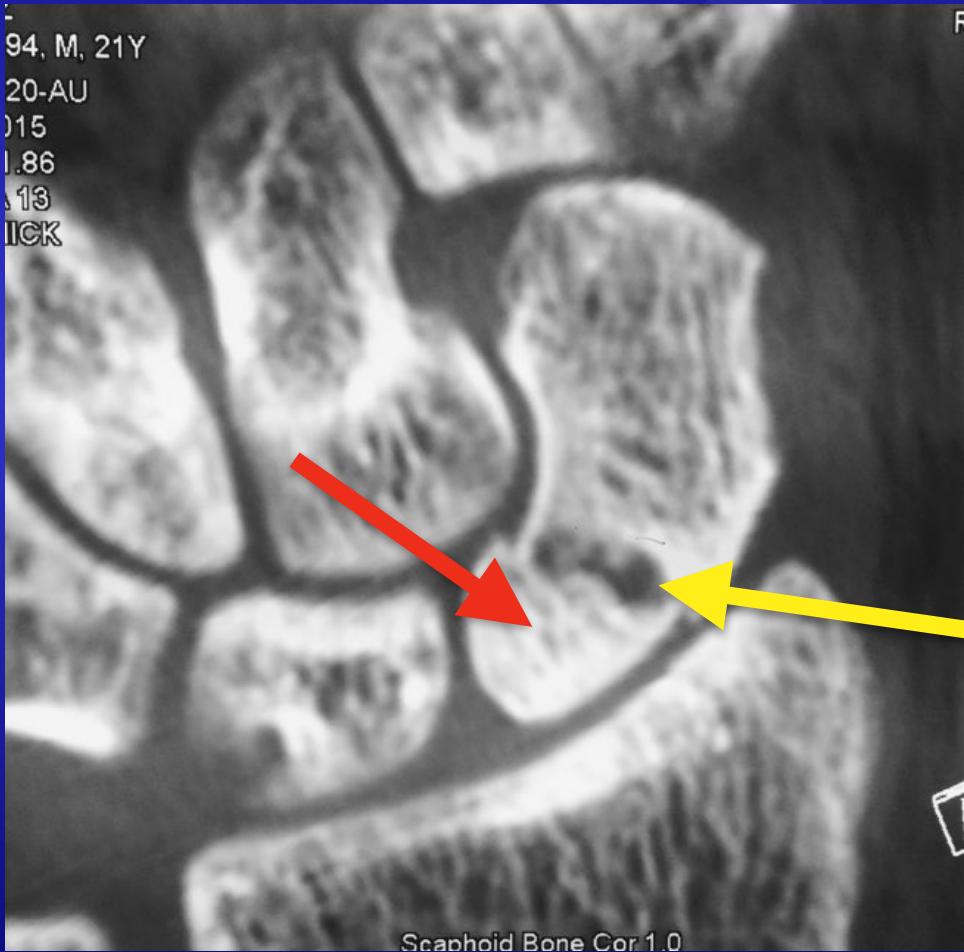


ORTHOSPORTS

ORTHOPAEDIC & SPORTS MEDICINE SERVICE

Dr Kwan Yeoh
Hand, Upper Limb & General Orthopaedic Surgery

Chronic fractures

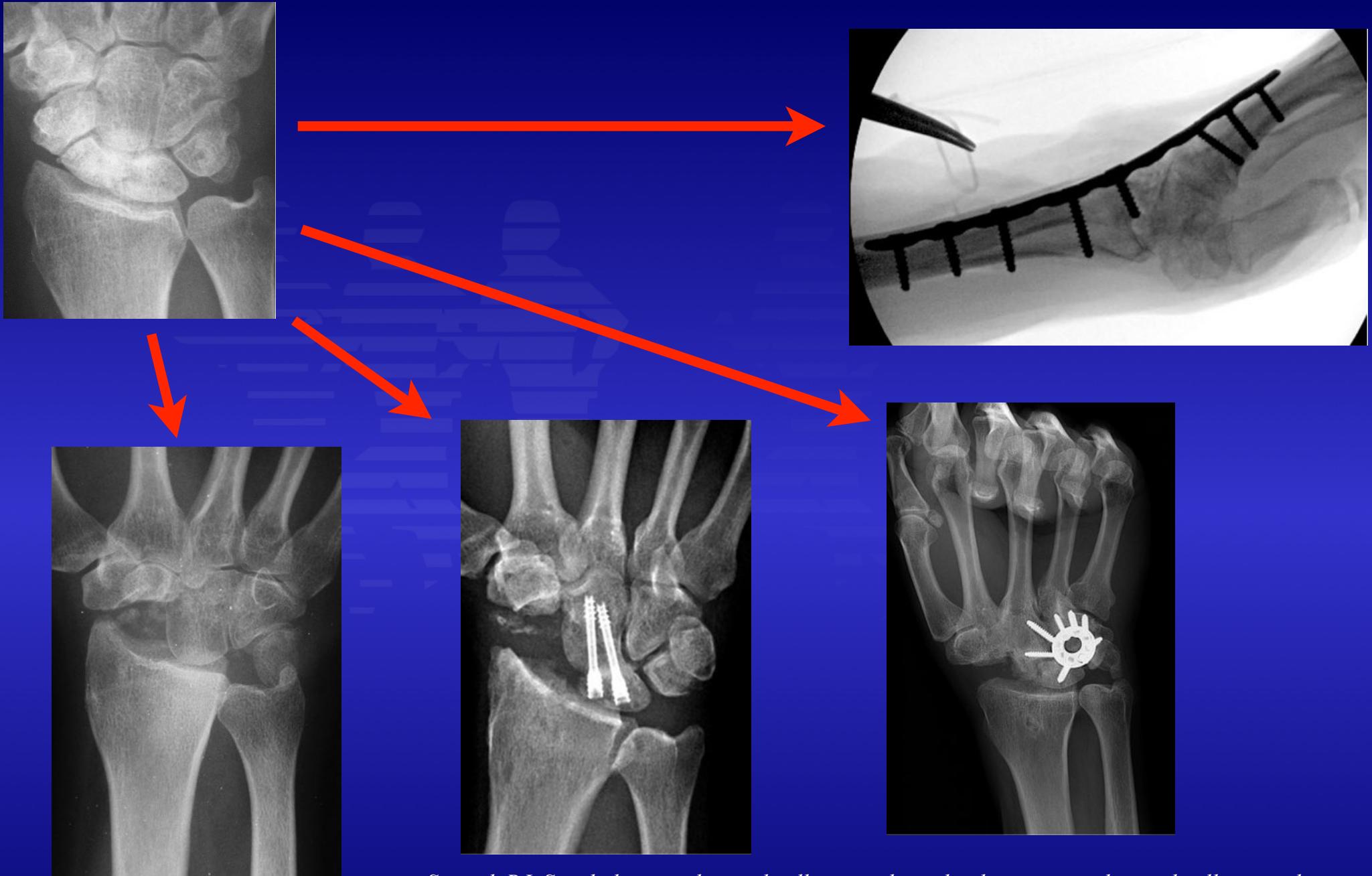


- » Delayed union
- » Malunion
- » Non-union

Salvage



Strauch RJ. Scapholunate advanced collapse and scaphoid nonunion advanced collapse arthritis--update on evaluation and treatment. The Journal of Hand Surgery. 2011 Apr;36(4):729–35.



Strauch RJ. Scapholunate advanced collapse and scaphoid nonunion advanced collapse arthritis--update on evaluation and treatment. *The Journal of Hand Surgery*. 2011 Apr;36(4):729–35.

Dr Kwan Yeoh
Hand, Upper Limb & General Orthopaedic Surgery

Take-home messages

Careful examination

XR & MRI

Consider fixation for stable fractures



Thank you