

• 13% of all fractures seen in emergency depts

Occurs in all ages

Often fall on outstretched hand

 Hand and carpus are compressed, bent or rotated relative to the forearm

 Often referred as a Colles # - while not technically fitting the classification

"It doesn't look right"





Or may look like this....





Factors affecting outcome include:-

- Radial shortening more than 2mm (tightens TFCC, ulna becomes long, may limit rotation)
- Radial inclination more than 15degs (causes alteration in loading)
- Dorsal angulation more than 10degs (can reduce flexn and rotatn)
- Articular step 1-2mm (correlates with increased pain/decreased ROM, strength)

Common problems which affect recovery

• +ve ulnar variance

TFCC injury

Unstable DRUJ

Adherent scar

Ulnar variance normal is 0 +/- 2 mm

- A. Normal = same length
- B. Negative = shorter
- C. Positive = longer



TFCC injury

- -prominent distal ulna
- -ulnar carpal slump

May look like this:-



TFCC Tests:-

Articular shear

Axial load

Re-location test

• G.R.I.T.

TFCC tear

Articular shear



FIGURE 16. Ulnomeniscotriquetral dorsal glide test used to assess the TFCC. From Hertling D, Kessler RM: Management of Common Musculoskeletal Disorders: Physical Therapy Principles and Methods. Philadelphia, J. B. Lippincott, 1990; with permission.

• TFCC load

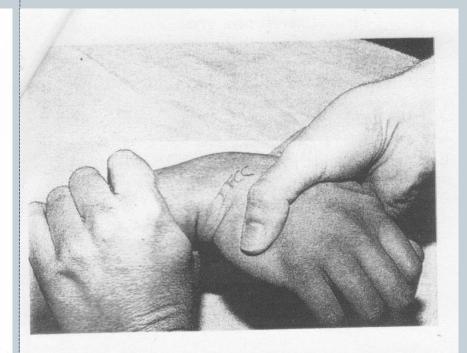
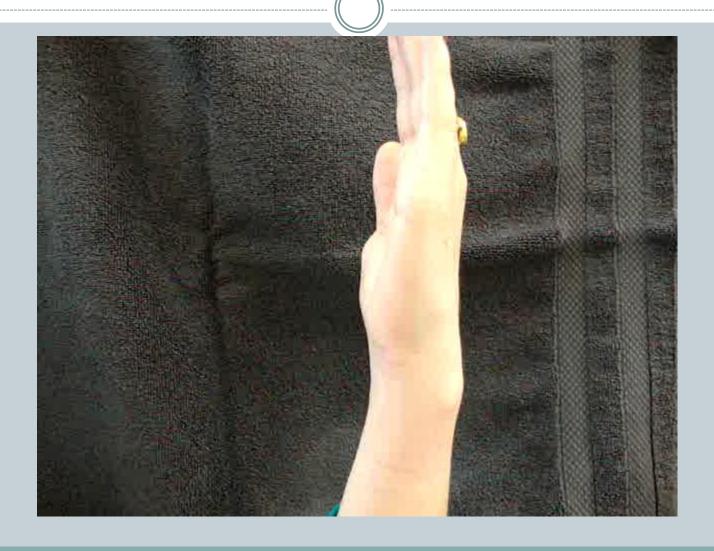


FIGURE 15. TFCC load test performed to detect TFCC tears or ulnocarpal abutment.

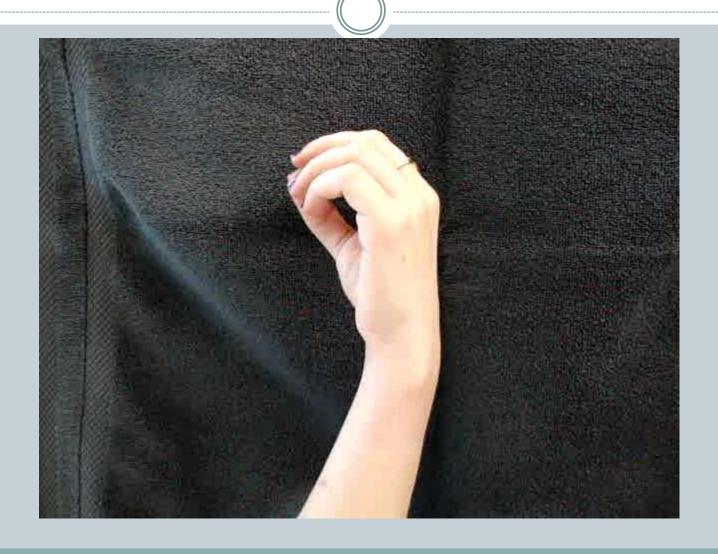
G.R.I.T.

- Gripping rotatory impaction test
- Test grip in neutral, supination, pronation
- Compare against the unaffected side
- Useful as a measure of improvement also

relocation



Ulnar carpal tape



?add an ulnar gutter splint

- down the line....





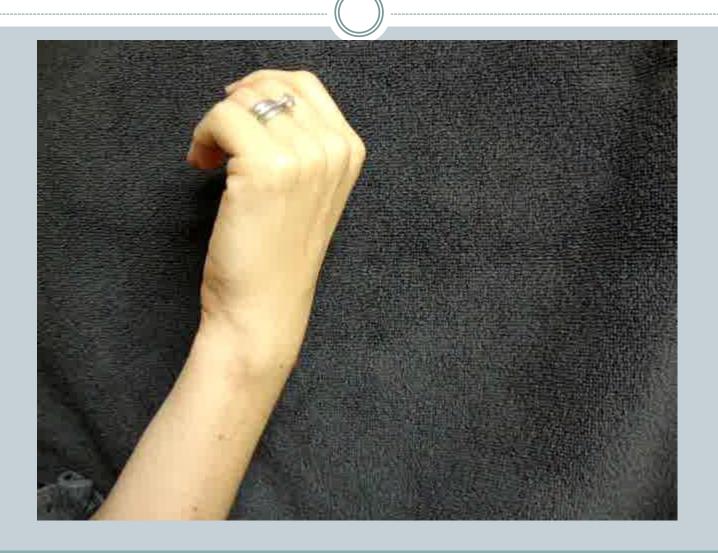
boomerang



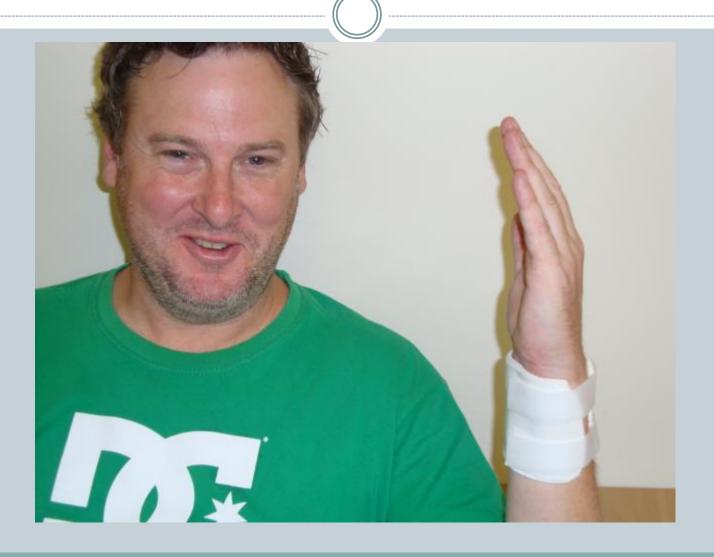
DRUJ instability

- #distal radius most common cause
- Accurate alignment and stabilisation of the radius will correct
- Initial wide displacement and radial shortening
- persistent DRUJ instability
 - IOM, ECUsubsheath, ulno-carpal ligs, and LTinterosseous ligs secondary stabilisers

Wobbly DRUJ



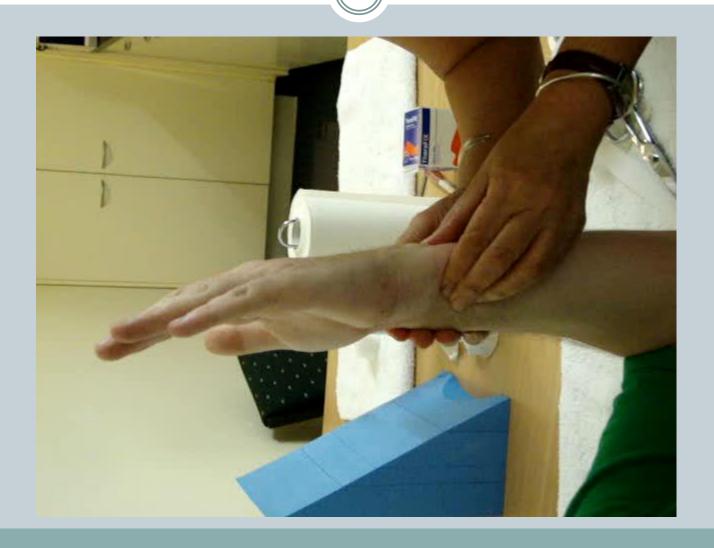
Grant



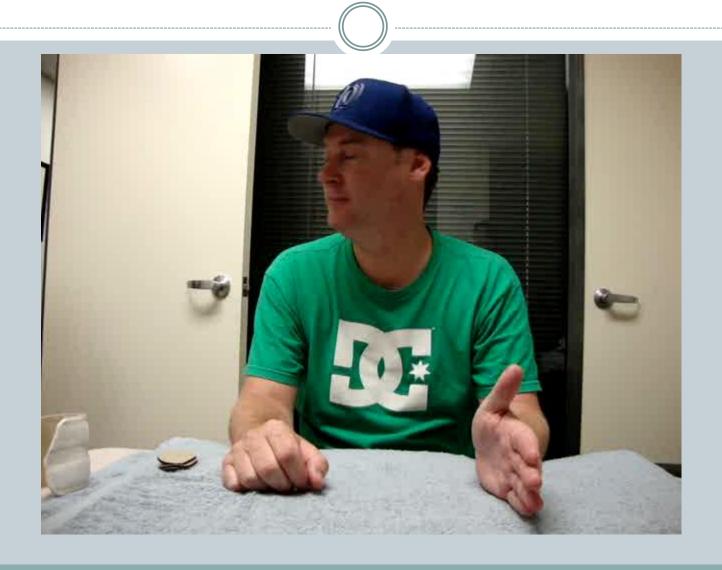
Gt Barrier Island



Ulnar lift





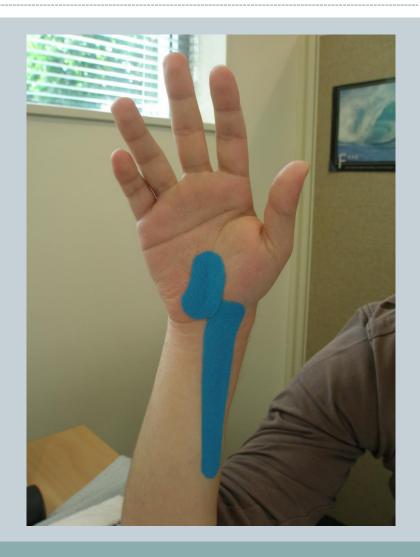


Adherent scar





Try kinesio tape





Mulligan



Gain after MWM and tape



Unable to place hand fully flat





Tape to reposition CMCJ

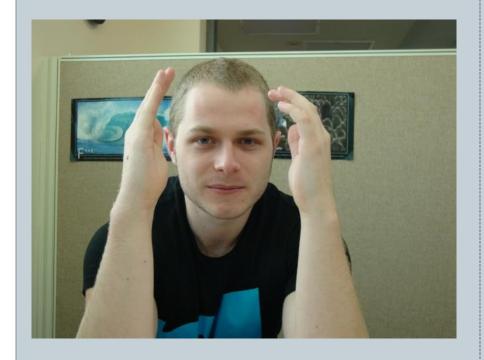




In summary:-

If it looks like this:

Try this:-





If it wobbles :-

If it sticks/catches

Try this-

Try this-





Reposition the 1st MC/thumb-

Try MWMs

And tape -





Acknowledgements

patients and relatives

colleagues at Handworks

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