#### **DISCLAIMER:**

LIMITED LONGER TERM RESULTS ARE AVAILABLE FOR THIS PROCEDURE. ANY USE OF THE TECHNIQUE IS AT THE DISCRETION OF THE TREATING SURGEON. THE LACK OF WIDE SPREAD EXPERIENCE MUST BE CONSIDERED IN ANY DECISION TO USE THE PROCEDURE - AND SUCH DETAILS SHOULD BE DISCLOSED TO THE PATIENT.

# **ANAFAB Procedure** for Scapho-lunate dissociation

Assoc. Prof. Michael Sandow FRACS Wakefield Orthopaedic Clinic University of Adelaide

June 2019

# **Scapho-lunate dissociation**

Characterized by: Scapho-lunate diastasis Dorsal scaphoid subluxation Scaphoid flexion Lunate extension

Dorsal

Volar

#### ANAFAB Surgical Technique

# Dorsal Longitudinal incision through 3<sup>rd</sup> compartment, EPL left out and 4<sup>th</sup> compartment elevated but left intact

Dorsal Scapho-lunate ligament attachments identified - marked with 2.5mm drill

Dorsal

#### Volar

### Longitudinal incision along line of FCR and through sheath to volar capsule and radius

Scaphoid-trapezium ligament attachments identified - marked with 2.5mm drill K-wire inserted along scaphoid axis using targeting jig or Imaging

<u>3mm</u> cannulated drill over k-wire to create scaphoid tunnel. Drill dorsal to volar to ensure the proximal scaphoid drill hole is correctly positioned

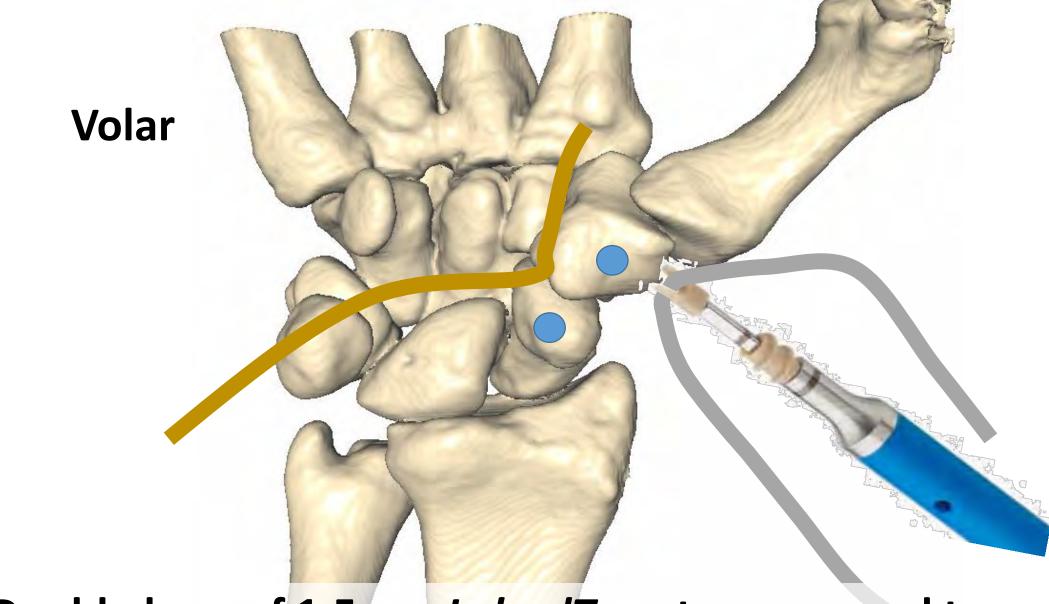




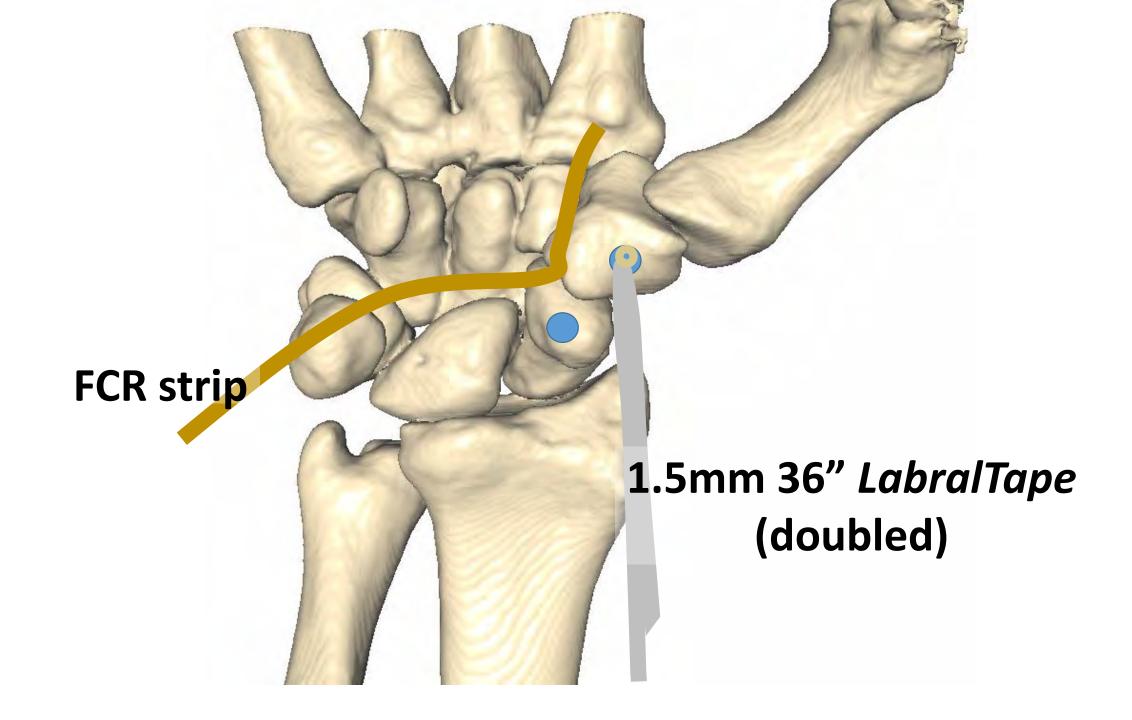
2.5mm wide 15cm long distally based strip of FCR - passing pin, and No.2 Nylon to strip, distal to proximal

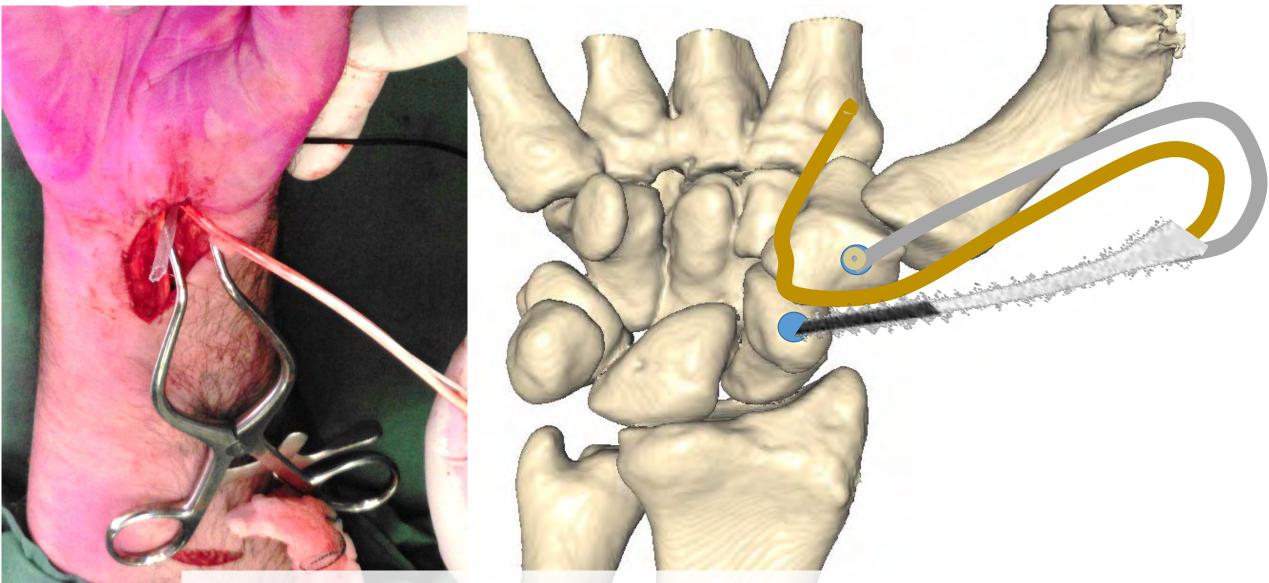


### 2.5mm wide 15cm long distally based strip of FCR

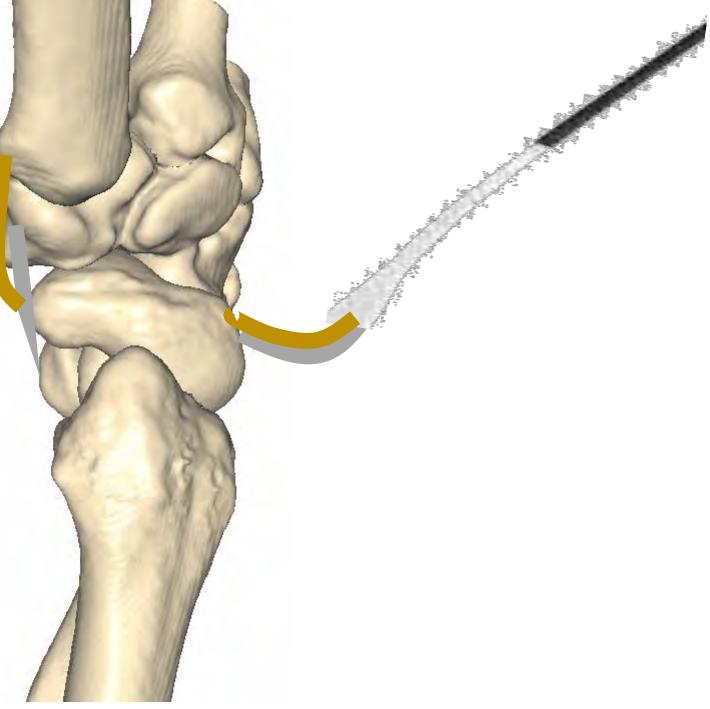


Double loop of 1.5mm LabralTape tape secured to Trapezium (lateral facet) using 3.5mm SwivelLock anchor



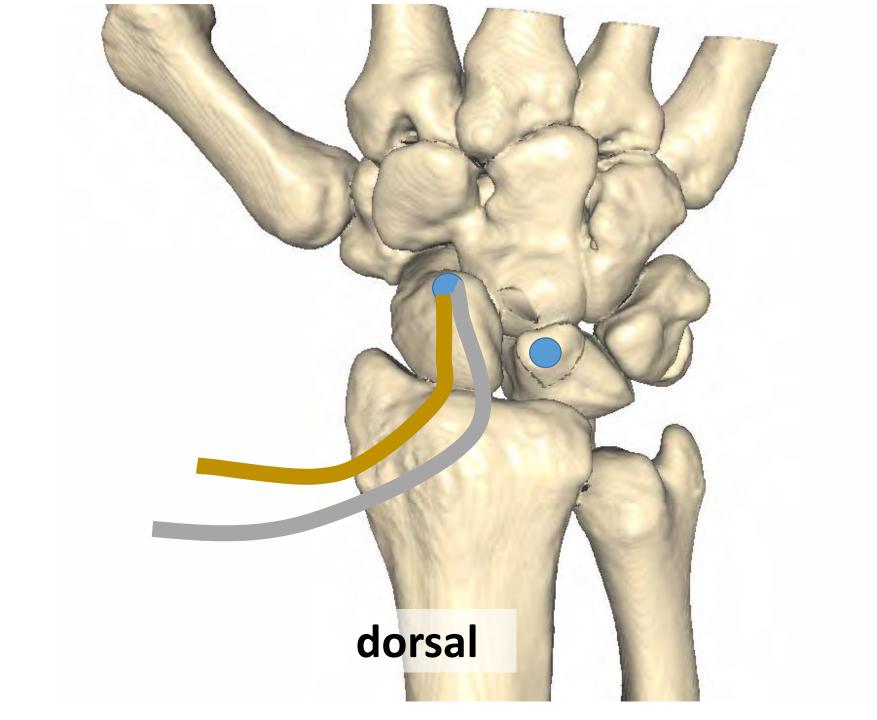


Using Quick Pass Tendon Shuttle, FCR strip and LabralTape passed volar to dorsal through scaphoid Using Quick Pass Tendon Shuttle, FCR strip and LabralTape passed volar to dorsal through scaphoid to dorsal wound





#### **Scapho-trapezium ligament restored**



K-wire inserted to (just) exit on volar-ulnar lunate surface \*\* Care to avoid mid-carpal joint and volar structures \*\*

Curved smooth instrument through Midcarpal joint protects and guides. <u>Check with imaging.</u>

#### <u>3mm</u> drill to create lunate tunnel

Advance drill just to breach volar cortex. Ensure k-wire does not advance!!!

Extend the volar FCR wound and blunt dissect across the volar capsule and under the carpal tunnel contents.

Locate and retrieve the tendon shuttle as it exits the volar lunate.

Tendon and Labral Tape are then loaded into Quick Pass tendon shuttle....

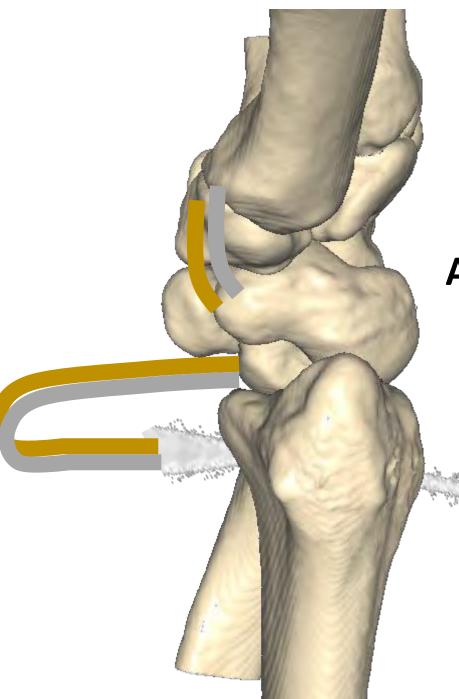
... and advanced through lunate to volar wound.

# **Dorsal Scapho-lunate ligament restored.**

Using imaging, locate radial drill hole in central radial styloid – aim to exit adjacent to lister's tubercle

and the share of the stand of the

Quick Pass Tendon shuttle advanced volar to dorsal through radial styloid.



FCR can sometimes be a bit short. Add suture extension if needed.

#### **Volar Long Radio-lunate ligament restored.**

# Apply adequate tension to FCR tendon and labral tape to reduce carpal bones, and secure dorsally with (3mm or 4 mm) interference screw

Determine screw size with Stepped Sound device

# The interference screw fixation of the FCR tendon and labral tape is augmented by an additional Swivel-Lock anchor more proximally on the dorsal radius.

Add an additional suture to local tissue, or in larger patients, a small interference screw, to secure the FCR/labral tape to the dorsal lunate to prevent in-line slippage.

## "ANAFAB" – Anatomical Front And Back reconstruction

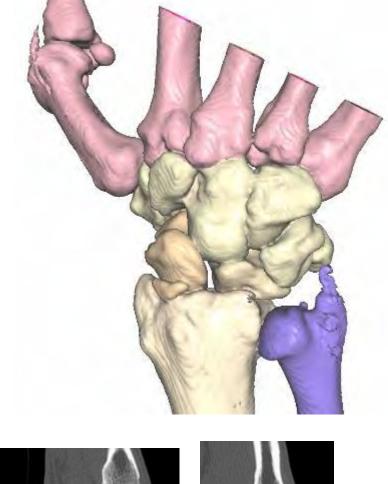
#### Splint 5 days then Cast 6 weeks

### "ANAFAB" – Anatomical Front And Back reconstruction

Splint 5 days then Cast 6 weeks

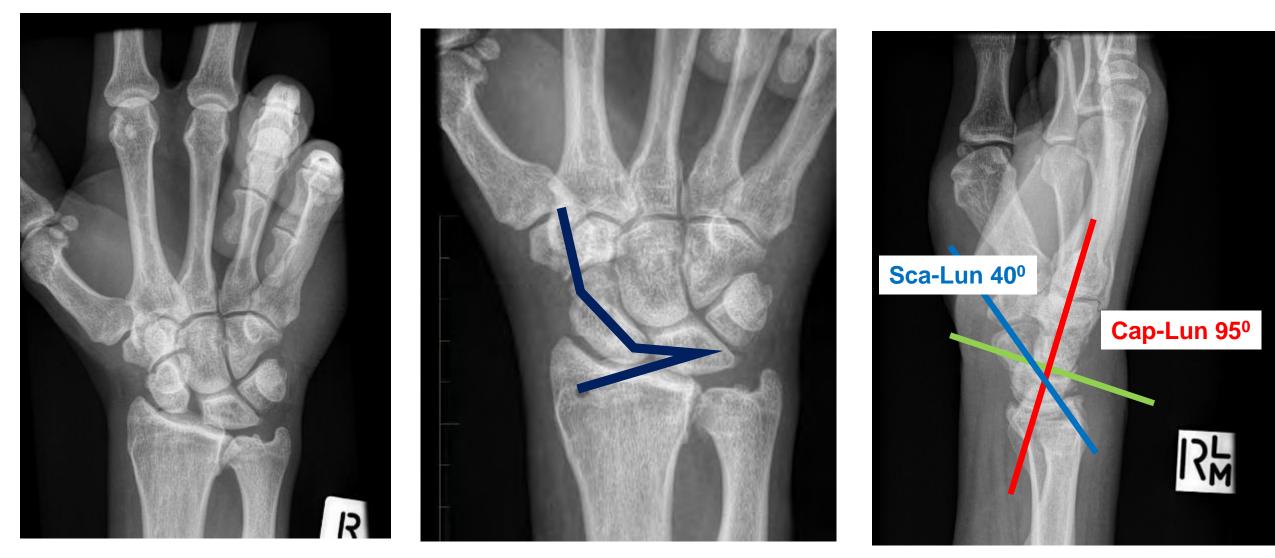


#### 32 y.o. male heavy FOOSH at football









### **Pre-repair**

#### **3 months Post repair**



msandow@woc.com.au

Swivel Lock<sup>™</sup>, QuickPass<sup>™</sup> and Labral Tape<sup>™</sup> are Trade Marked and registered devices from Arthrex. Arthrex have had no part in the development of this technique, nor supplied any funding or support.