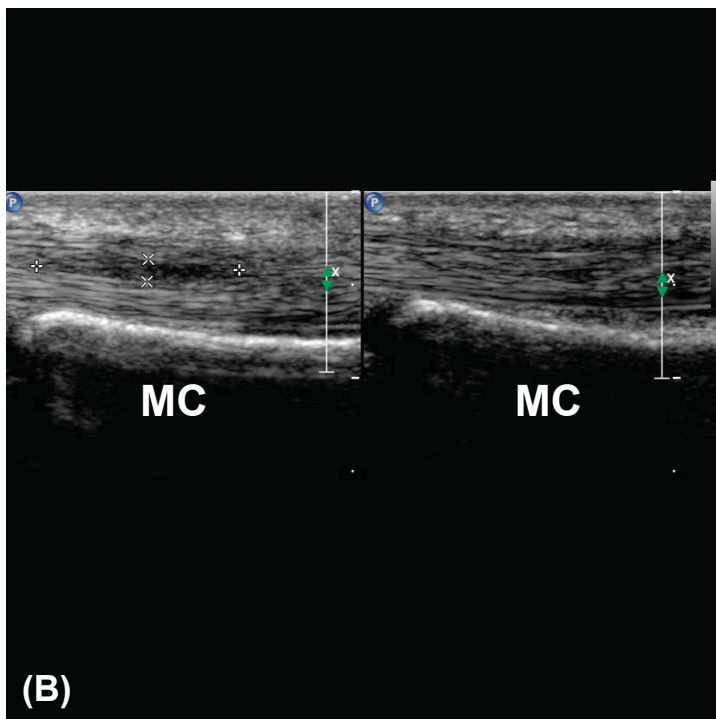
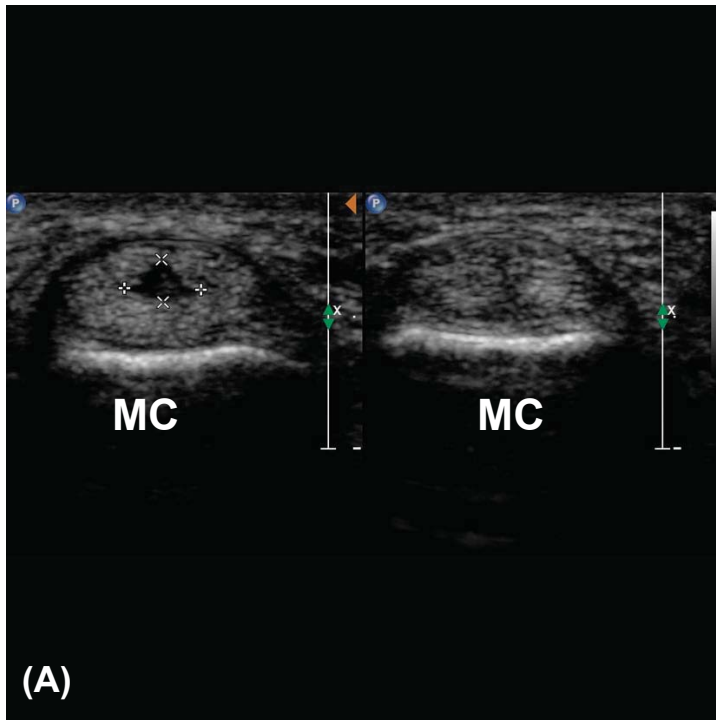


# Hand



## Other Diseases Tendon Tear

**Volar transverse scan (A) and longitudinal scan of 3<sup>rd</sup> MCP (B).**

(A) Transverse scan of digital flexor tendon shows a hypoechoic lesion in the deep part of the superficial flexor tendon in left side US image. Normal contralateral flexor tendon is shown in right side of US image.

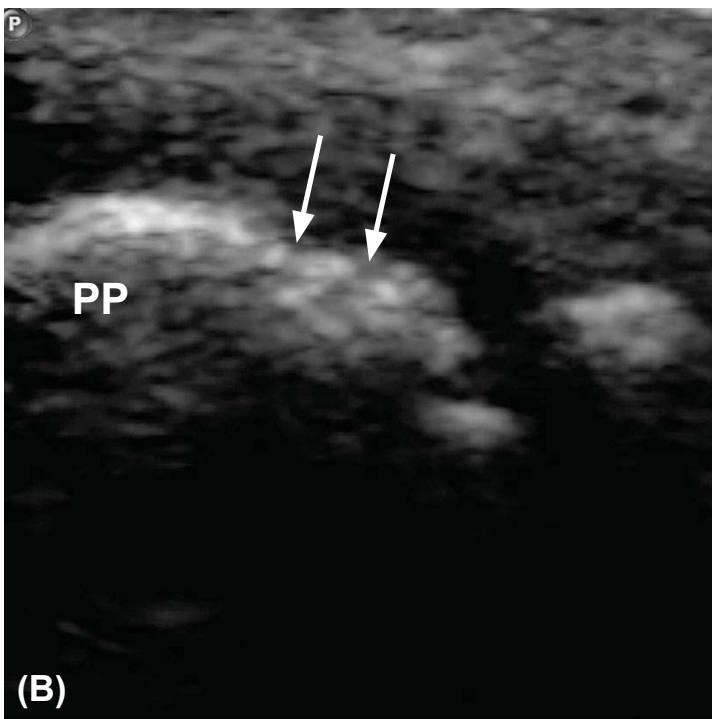
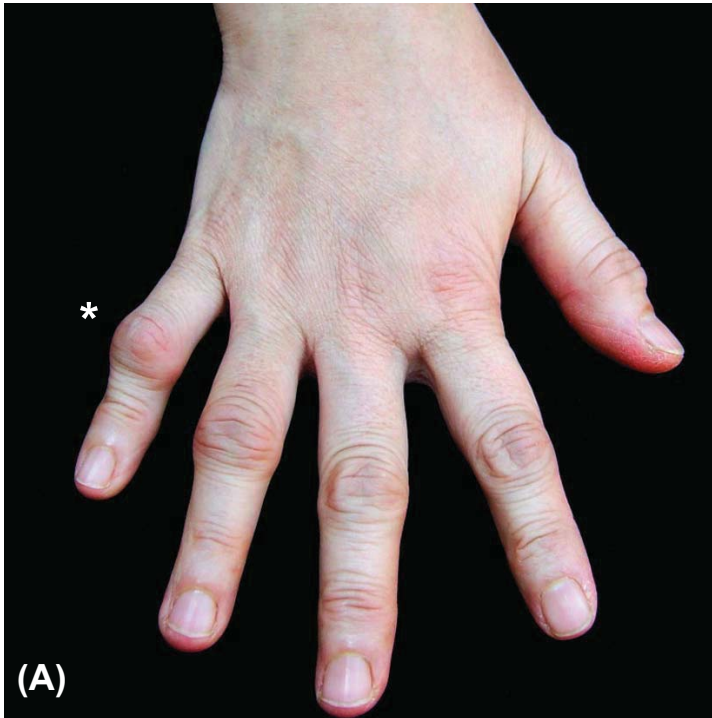
(B) Longitudinal scan shows the corresponding focal partial tear.

MC = metacarpal

**Chen, Hsin-Hua**

Grey scale US using a Philip iU22 with a linear array probe (7-15MHz)

# Hand



## Other Diseases

### RAPUS

Gross picture of right hand of a patient with RAPUS

(A) and dorsal longitudinal scan with 4<sup>th</sup> PIP full flexion posture (B).

(A) Deformed 5<sup>th</sup> PIP joint (\*).

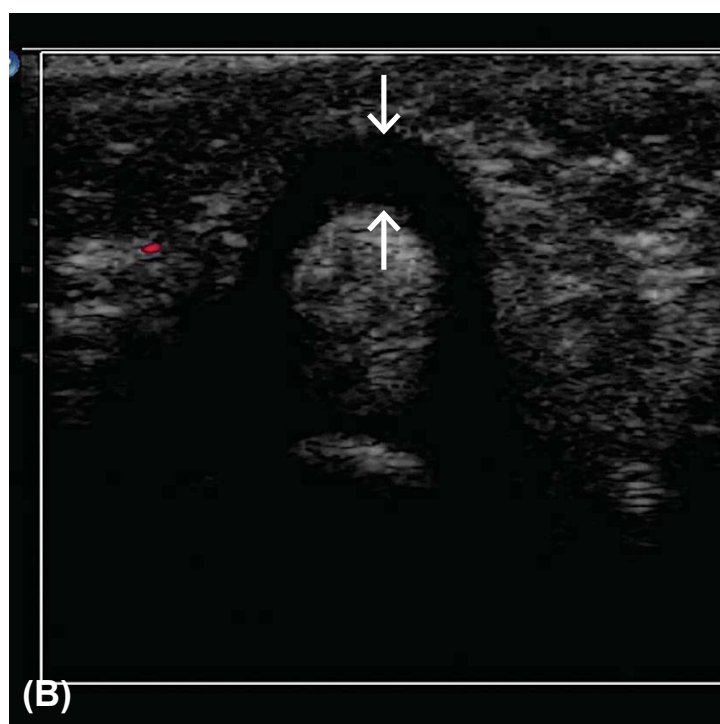
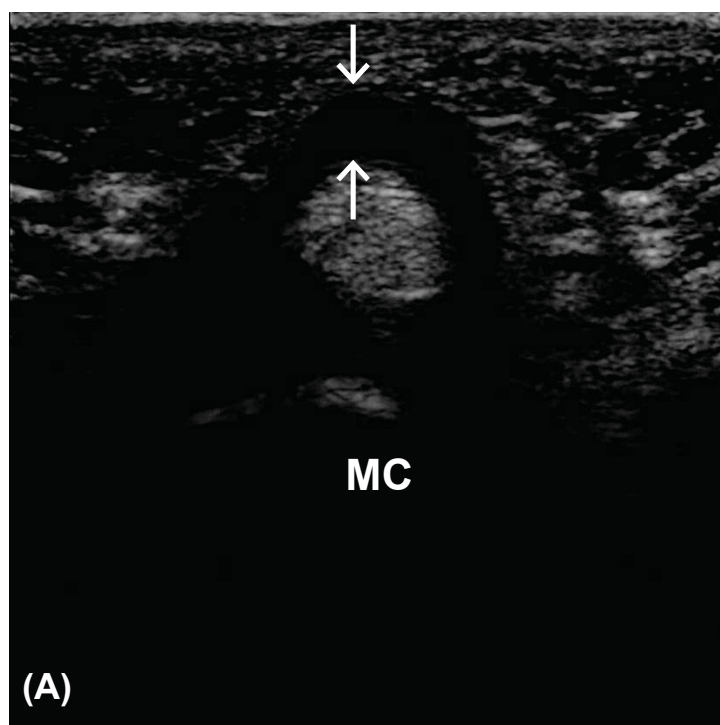
(B) Longitudinal scan performed over 4<sup>th</sup> PIP joint with maximal flexion posture shows a focal bony erosion over proximal phalanx periarticular region with loss of anechoic overlying hyaline cartilage (arrows).

PP = proximal phalanx

Chen, Hsin-Hua

Grey scale US using a Logiq 5 (General Electrics)

# Hand



## Other Diseases

### Flexor Tenosynovitis (Degenerative)

Rt 3<sup>rd</sup> MCP joint and flexor tendon

**Volar Transverse with Gray scale (A) and Power Doppler (B) images**

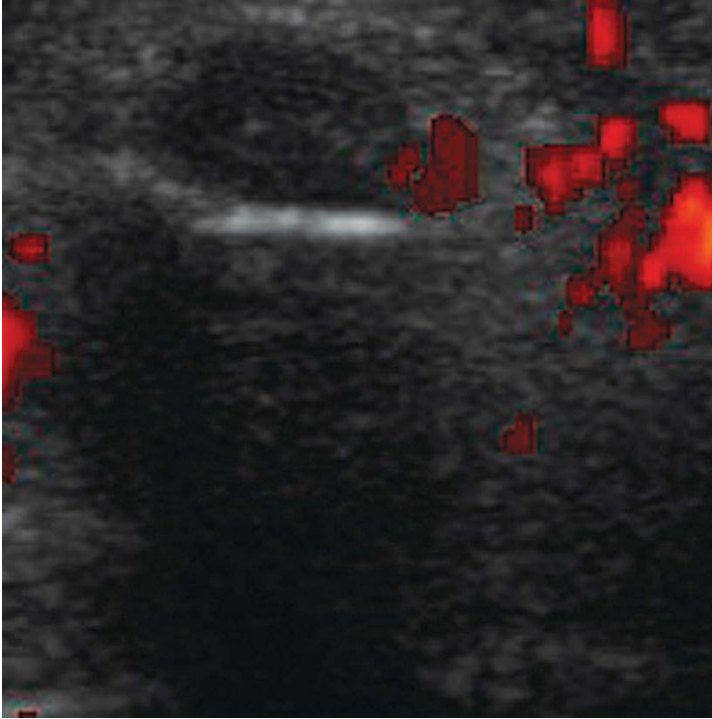
Gray scale image shows marked widening of tendon sheath (arrows). No Doppler signal is found in the tendon sheath in power Doppler image, suggesting a degenerative process.

MC = metacarpal

**Chen, Hsin-Hua**

Power Doppler US using a Philip iU22 with a linear probe (7-12MHz)

# Hand



**Chen, Ying-Chou**

Power Doppler Ultrasonography using CGM OPUS 5000

## Other Diseases

### Primary Sjogren's Syndrome, Extensor Tenosynovitis

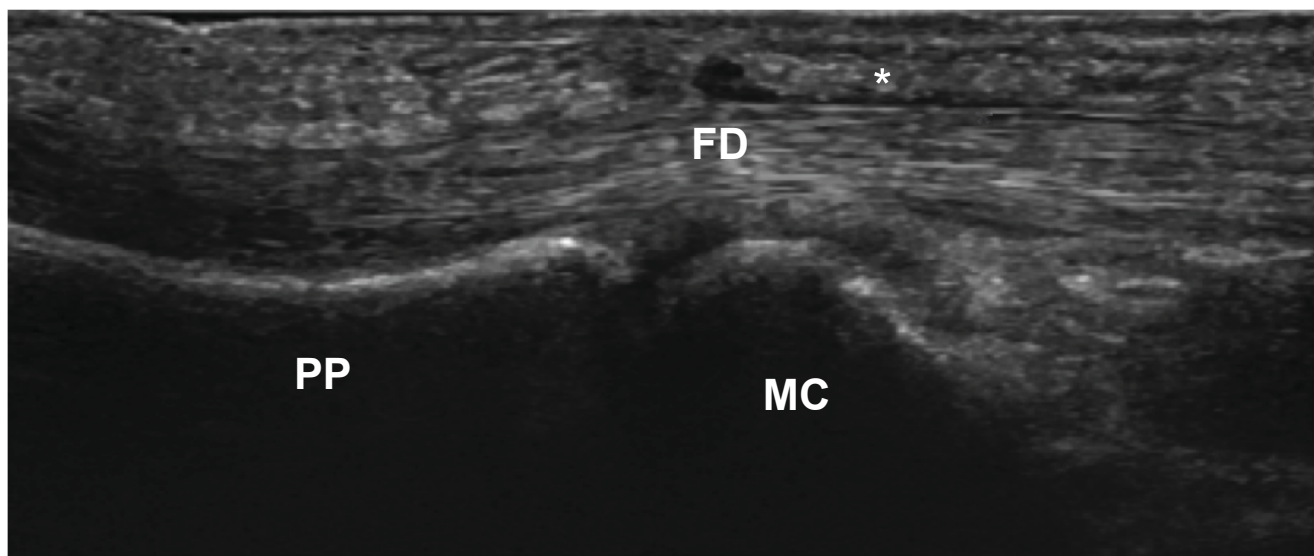
Right 3<sup>rd</sup> metacarpophalangeal joints

Transverse images obtained with a 7.5 MHz transducer over the dorsal aspect of the 3<sup>rd</sup> metacarpophalangeal joints

Power Doppler signals in more than half the synovium of the metacarpophalangeal joints.

# Hand

## Other Diseases



### Lai, Kuo-Lung

Gray scale US using a GE E9 (General Electrics) with a linear probe (15MHz)

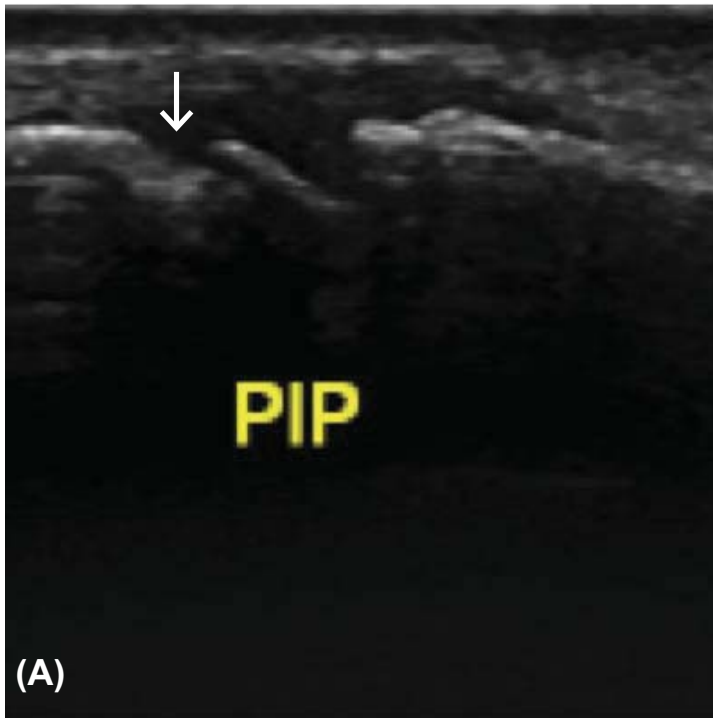
### Trigger finger

#### Longitudinal scan

Trigger finger. Longitudinal US scan at volar aspect of MCP showed A1 pulley (\*) thickening. FD: flexor digitorum tendon, MC: metacarpal head, PP: proximal phalanx.



# Hand



## Other diseases

### Erosive OA

#### Longitudinal scan of PIP joint

(A) Longitudinal US scan at dorsolateral side of 3rd PIP joint showed a bone erosion (arrow) at proximal phalanx head.

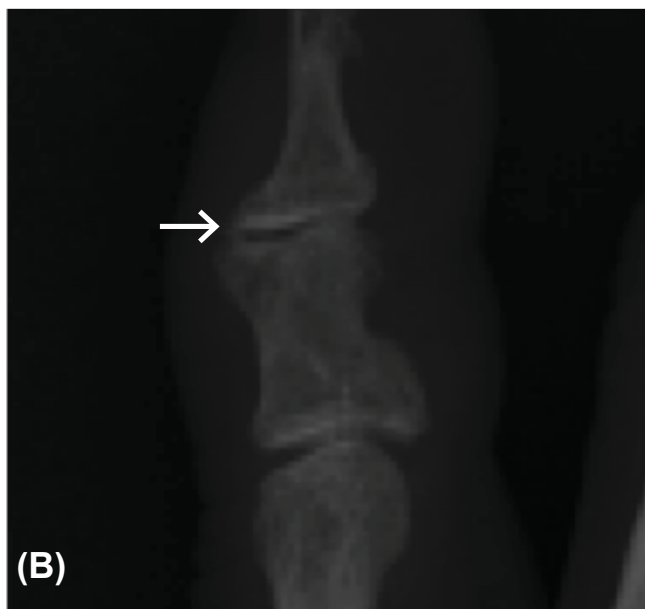
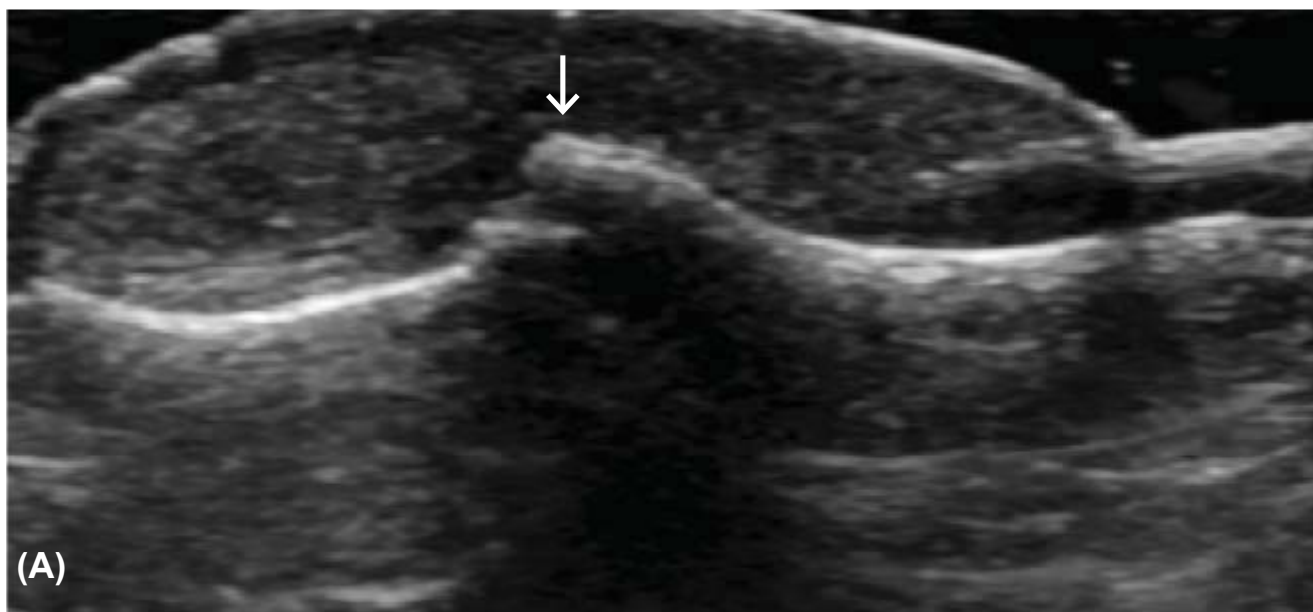
(B) X-ray showed joint space narrowing, tiny spur and a bone erosion (arrow) at the 3rd PIP joint.

Lai, Kuo-Lung

Gray scale US using a GE E9 (General Electronics) with a linear probe (15MHz)

# Hand

## Other Diseases



### Heberden's node (DIP OA)

#### Longitudinal scan of DIP joint

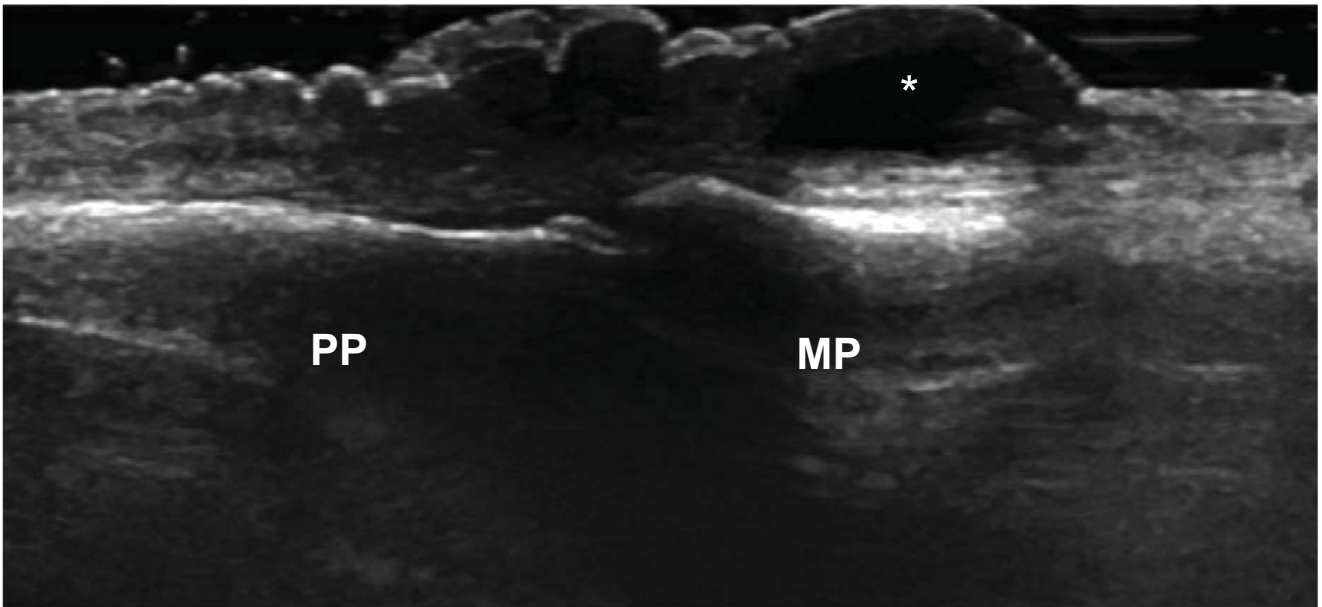
Heberden's node (DIP OA). (A) Longitudinal US scan at dorsal side of 5th DIP joint showed bony protruding (arrow) (B) X-ray showed joint space loss and spurs (arrow) at the 5th DIP joint.

**Lai, Kuo-Lung**

Gray scale US using a GE E9 (General Electrics) with a linear probe (15MHz)

# Hand

## Other Diseases



**Lai, Kuo-Lung**

Gray scale US using a GE E9 (General Electronics) with a linear probe (15MHz)

### **Ganglion cyst**

#### **Longitudinal scan**

Ganglion cyst. Longitudinal US scan at the dorsum of PIP joint showed an anechoic cyst (\*) with posterior enhancement at the extensor tendon. PP: proximal phalanx, MP: middle phalanx.

Shoulder

Elbow

Wrist

Hand

Hip

Knee

Ankle

Foot

Others