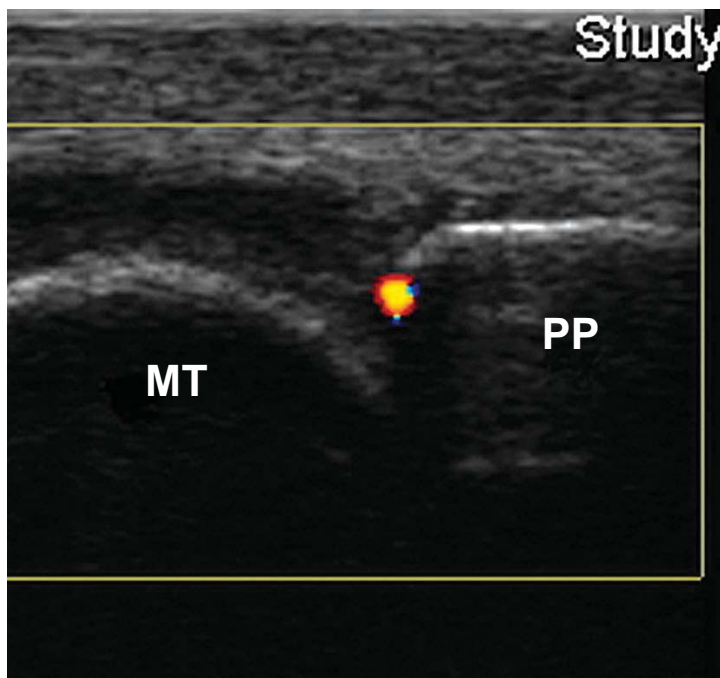


Foot



Crystal-related Gouty Arthritis

Dorsal longitudinal scan of first metacarpophalangeal joint

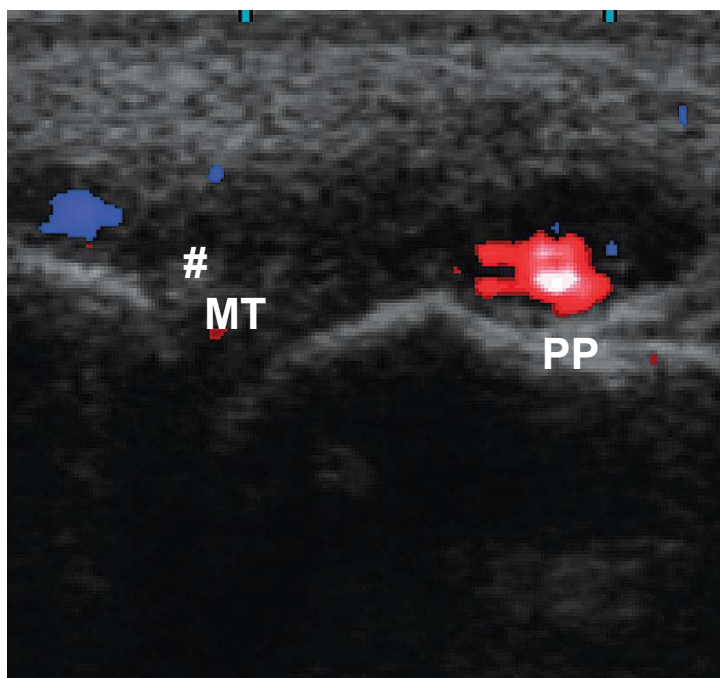
Proliferative synovitis.
Marked joint cavity widening mainly due to synovial proliferation.

MT = metatarsus

PP = proximal phalanx

Lin, Liang-Hung

Grey scale US using a Logiq 5 (General Electrics) with a linear probe (12L)



Crystal-related Gouty Arthritis

Dorsal longitudinal scan of 1st MTP joint

Widening of joint cavity mainly due to with synovial thickening(#). Color Doppler signals present in the synovium.

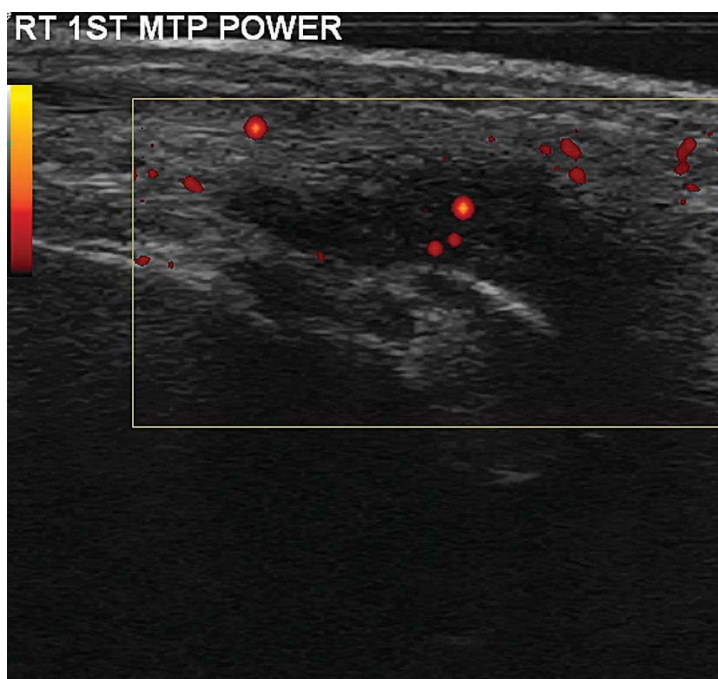
MT = metatarsus

PP = proximal phalanx

Chen, Hsin-Hua

Color Doppler US using a Logiq 500 (General Electrics Medical Systems,Milwaukee,WI) with a linear probe (7-12MHz)

Foot



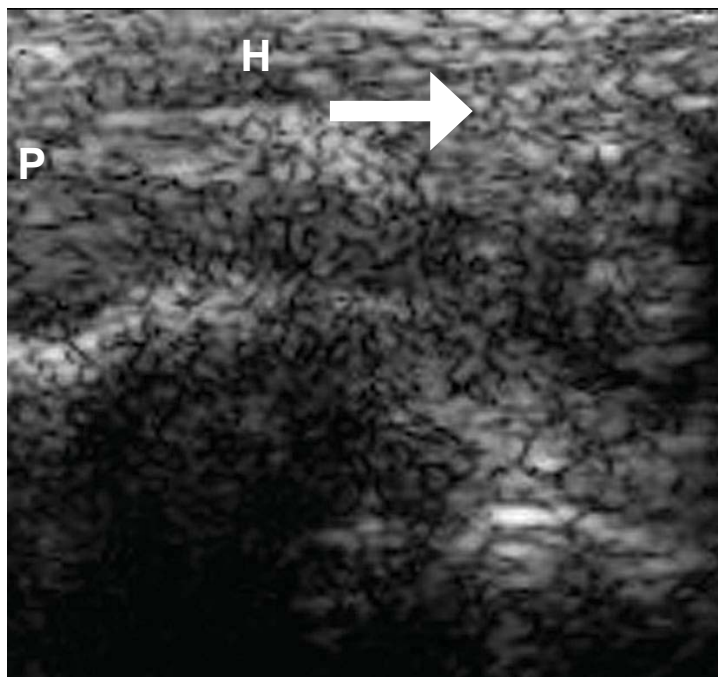
Crystal-related Gouty Arthritis

Dorsal longitudinal scan of first metatarsophalangeal joint

Extended joint capsule with marked synovial fluid accumulation. High vascularity was found by power doppler mode.

Kuo, Chang-Fu

Grey scale US using a Logiq 9 (General Electric Medical Systems, Milwaukee, WI) with a volumetric probe (4D16L), with power doppler



Crystal-related Chronic Tophaceous Gout

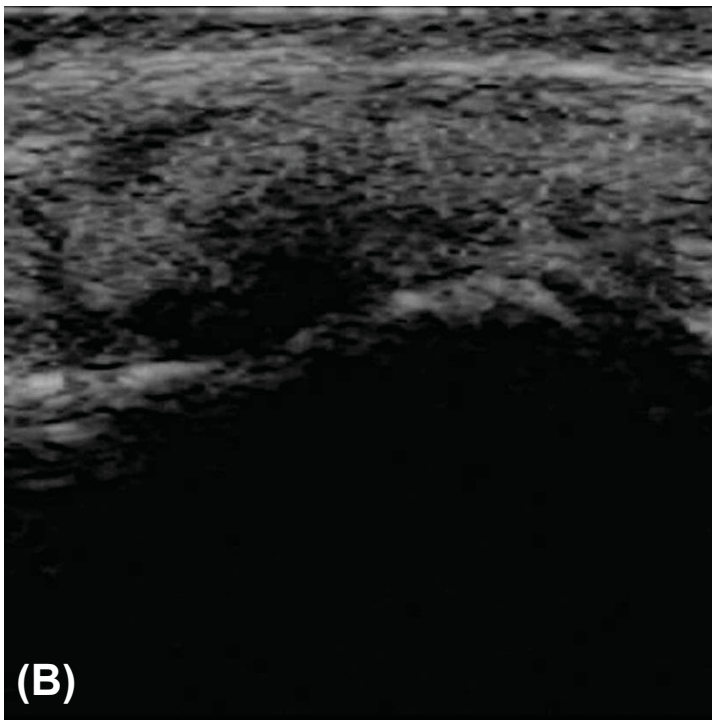
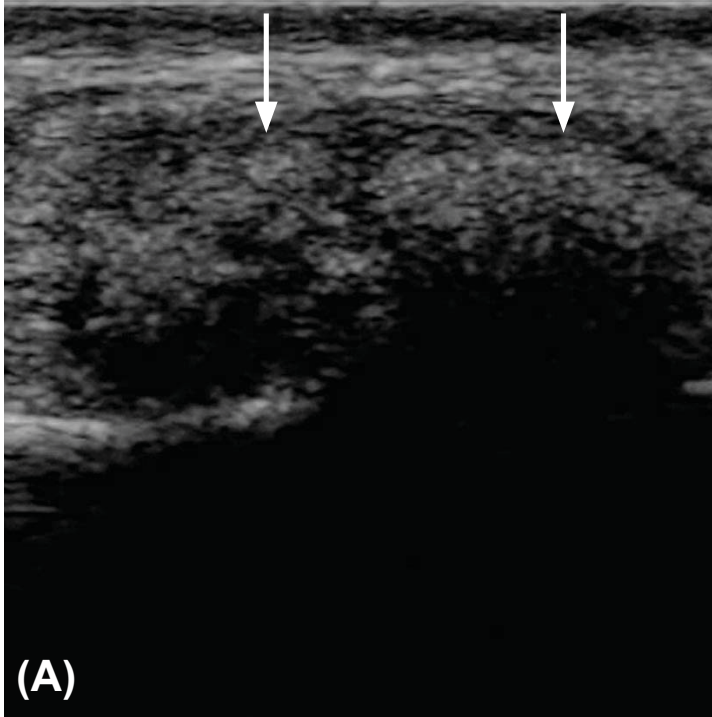
Longitudinal scan along the plantar fascia

Punctate pattern of “urate sand” is identified in the hypodermis (arrow) and along the proximal plantar fascia. Abbreviations: Hypodermis (H), Plantar fascia (P)

Chen, Ying-Chou

Grey scale US using CGM OPUS 5000

Foot



Crystal-related Tophi

Longitudinal scan over medial aspect of 1st MTP joint (A) and power Doppler image (B).

Longitudinal scan over medial aspect of 1st MTP shows an intraarticular heterogenous hyperechoic lesion with or without acoustic shadow (arrows) (A).

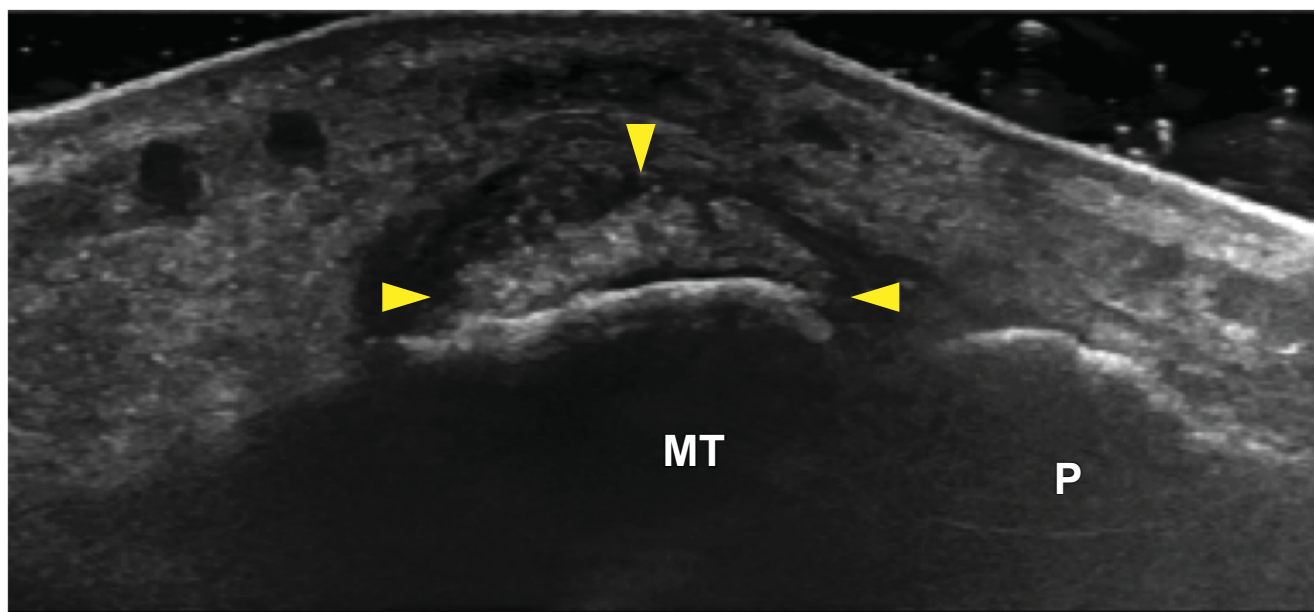
PDUS shows no Doppler signal within joint cavity. The above findings are compatible with tophi deposition within 1st MTP joint cavity(B).

Chen, Hsin-Hua

Grey scale and power Doppler US using a Philip iU22 with a volumetric probe (4D, 5-13MHz)

Foot

Crystal-related



Lai, Kuo-Lung

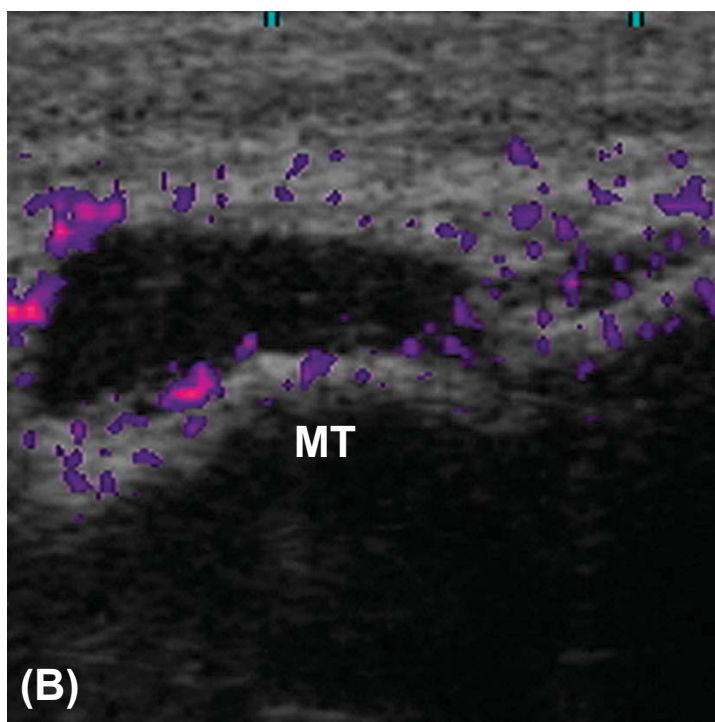
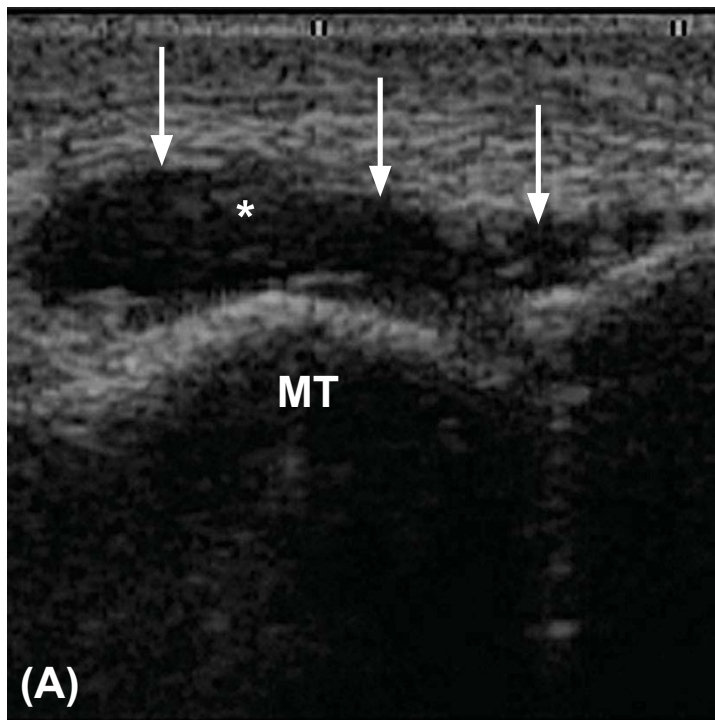
Gray scale US using a GE E9 (General Electrics) with a linear probe (15MHz)

Tophaceous gouty arthritis

Longitudinal scan of first MTP joint

Tophi and gouty arthritis. Longitudinal US scan at dorsal side of 1st MTP joint showed a heterogeneous hyperechoic mass (tophi, arrowheads) within joint capsule, with hypoechoic rim. MT: metatarsal head, P: proximal phalanx.

Foot



Crystal-related Gouty Arthritis (3rd day)

Dorsal Longitudinal scan
(A) and Power Doppler
image of 1st MTP(B).

(A) Widening of joint cavity
(arrows) with synovial
thickening (*).

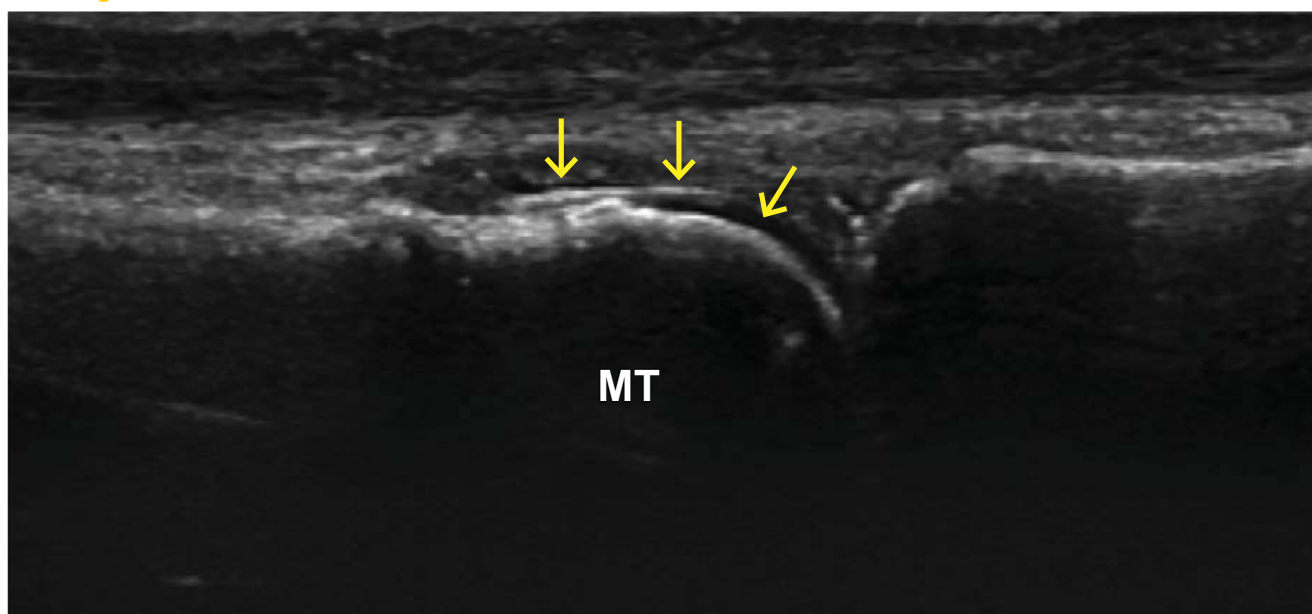
(B) PDUS shows scarce
intrasynovial Doppler signals.
MT = metatarsus

Chen, Hsin-Hua

Grey scale and power Doppler US using a Logiq 500 (General Electrics Medical Systems,Milwaukee,WI) with a linear probe (7-12MHz).

Foot

Crystal-related



Lai, Kuo-Lung

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

Gouty arthritis

Longitudinal scan of first MTP joint

Gouty arthritis. Longitudinal US scan at dorsal side of 1st MTP joint showed a hyperechoic band on the surface of cartilage and was parallel to the bone cortex, named double contour sign (arrows). This sign is specific to gout. MT: metatarsal head, P: proximal phalanx.