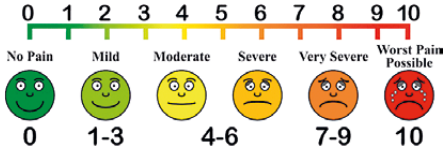
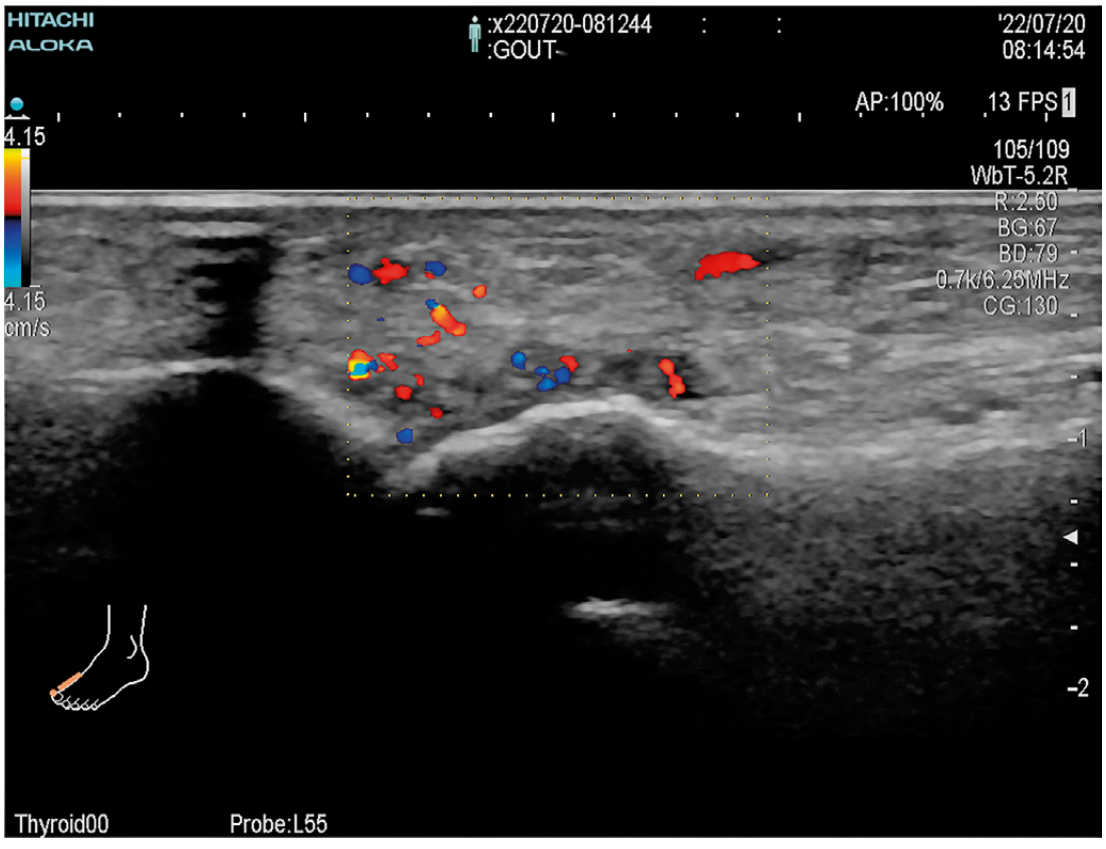
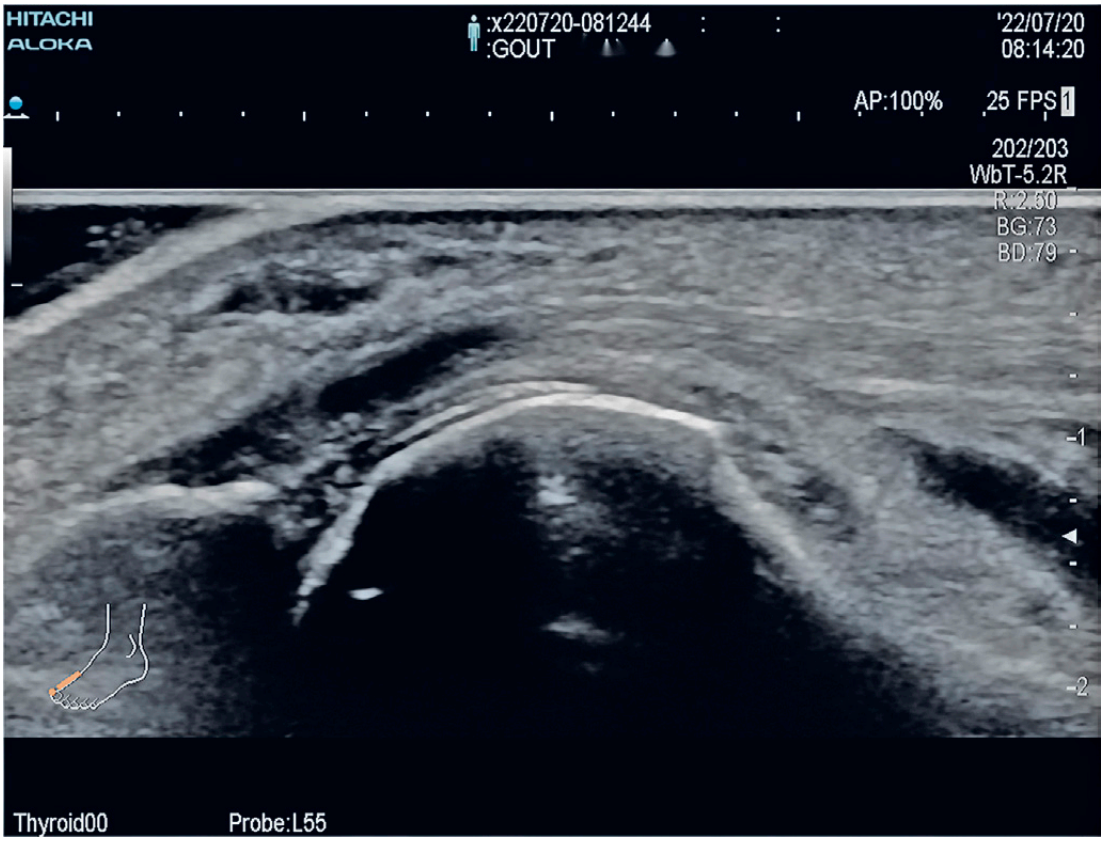
Supplementary Material 1. Questionnaire on Clinical Data of Gout Patients in MTP1

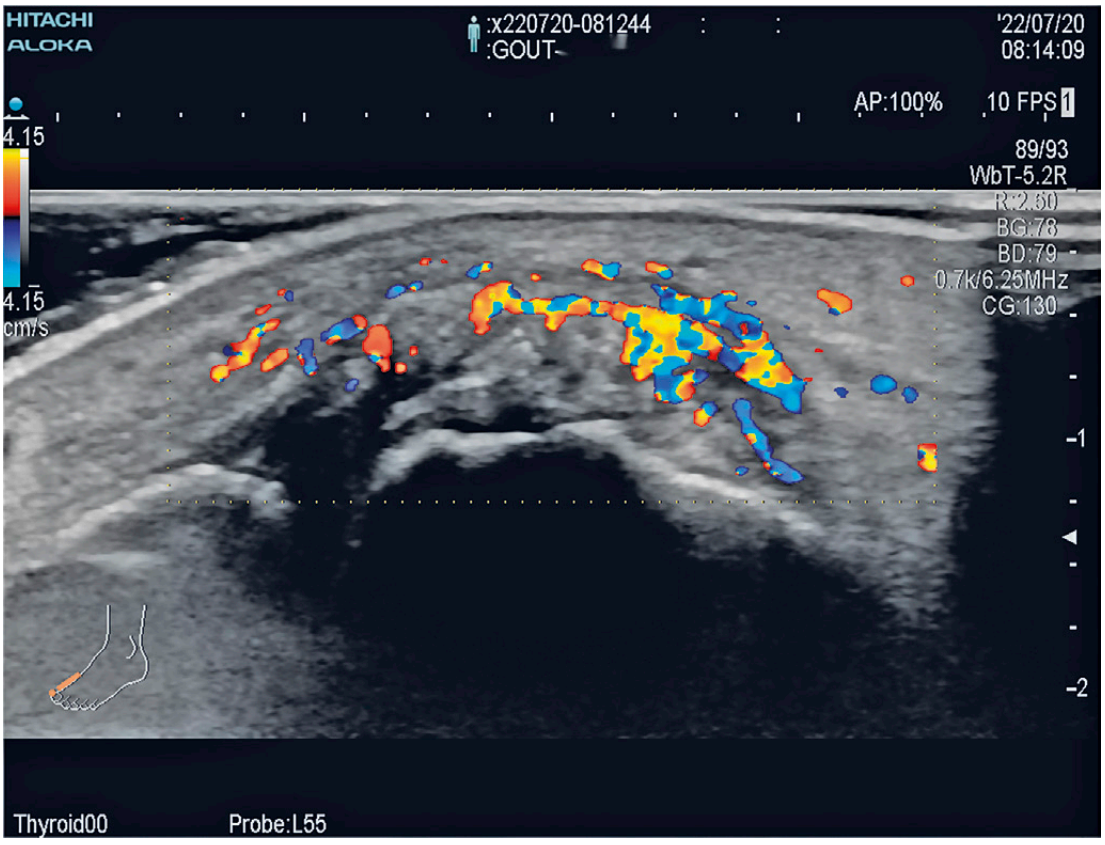
Questionnaire on Clinical Data of Gout Patients in The 1st MTP				
1	Name:			
2	Age (year):			
3	Gender:	man ☐		woman ☐
4	BMI (kg/m²):			
5	Gout duration (year):			
6	Frequency of Gout Attacks:	0 time/year ☐	once per year ☐	more than or equal to twice per year ☐
7	SUA (mmol/L):			
8	Family History:	Yes ☐		No ☐
9	Traumatism history:	Yes ☐		No ☐
10	Pain Score: (visual analog scale ranged from 0-10)			

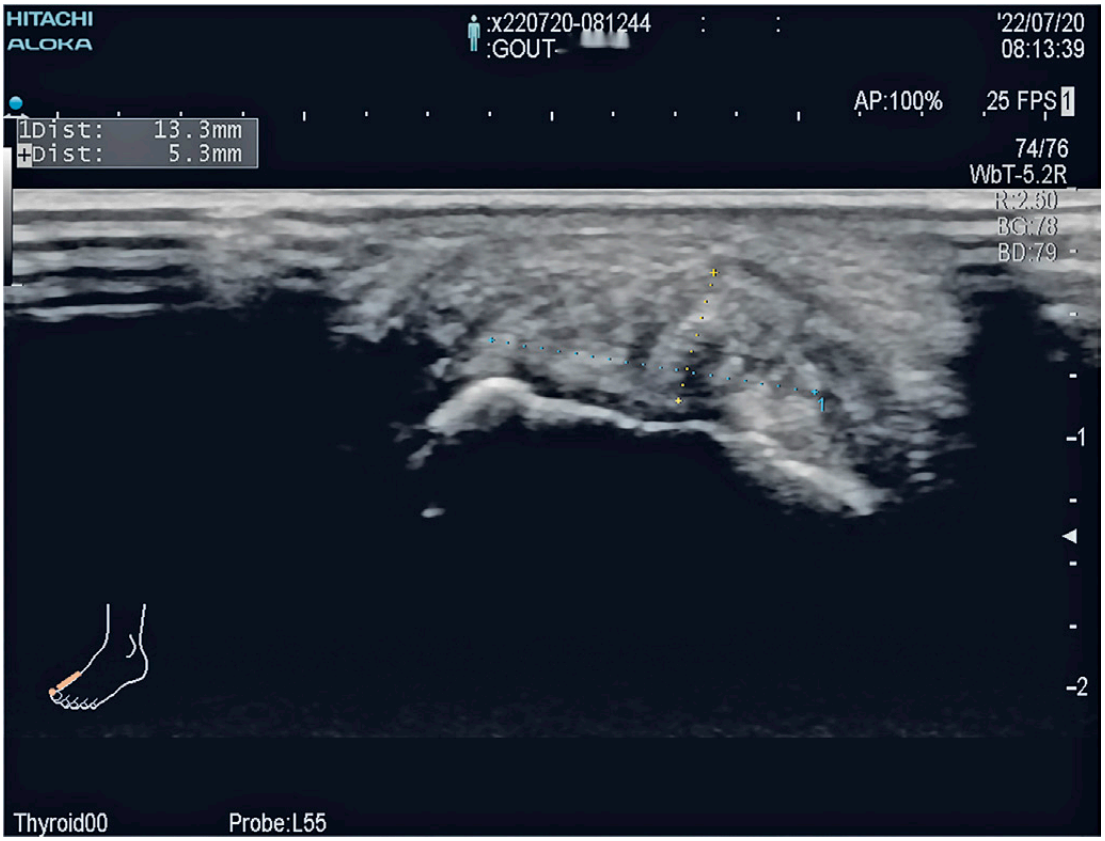
Supplementary Material 2. Static and dynamic images

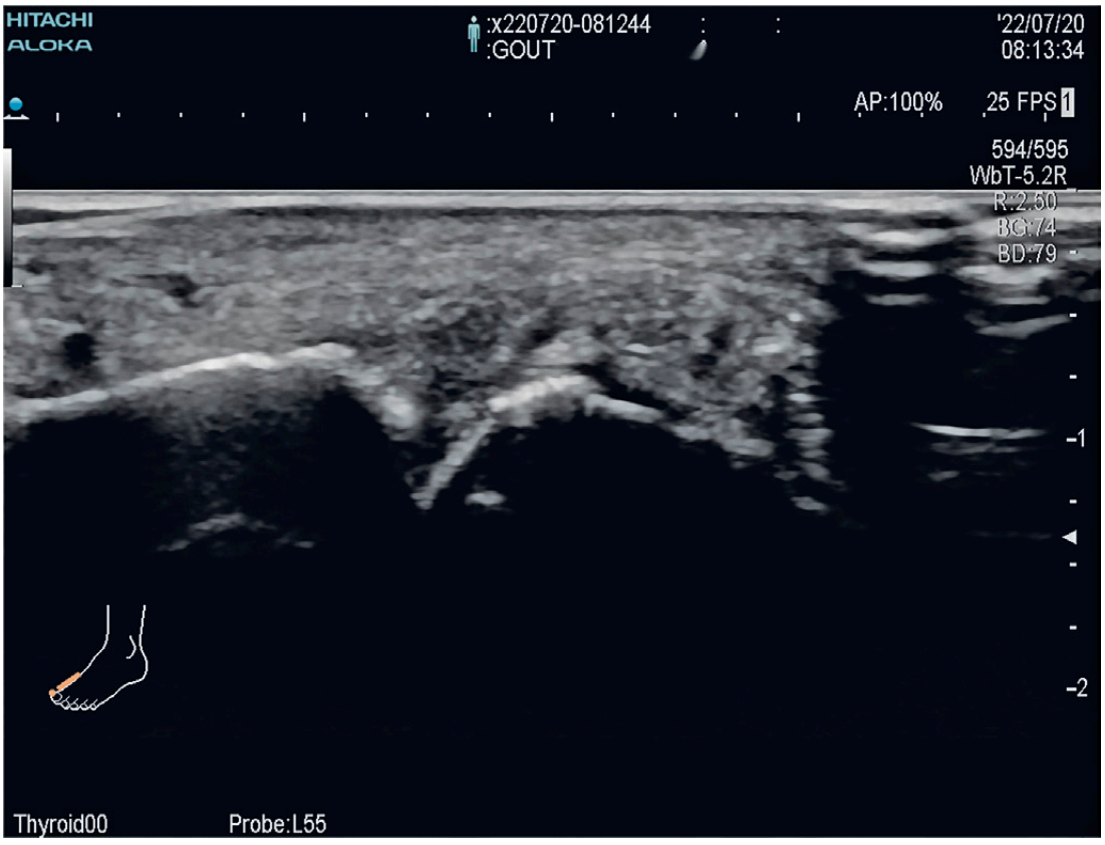
See folder static and dynamic images, static dynamic images named subject images 1-6, dynamic images named video 1-4.

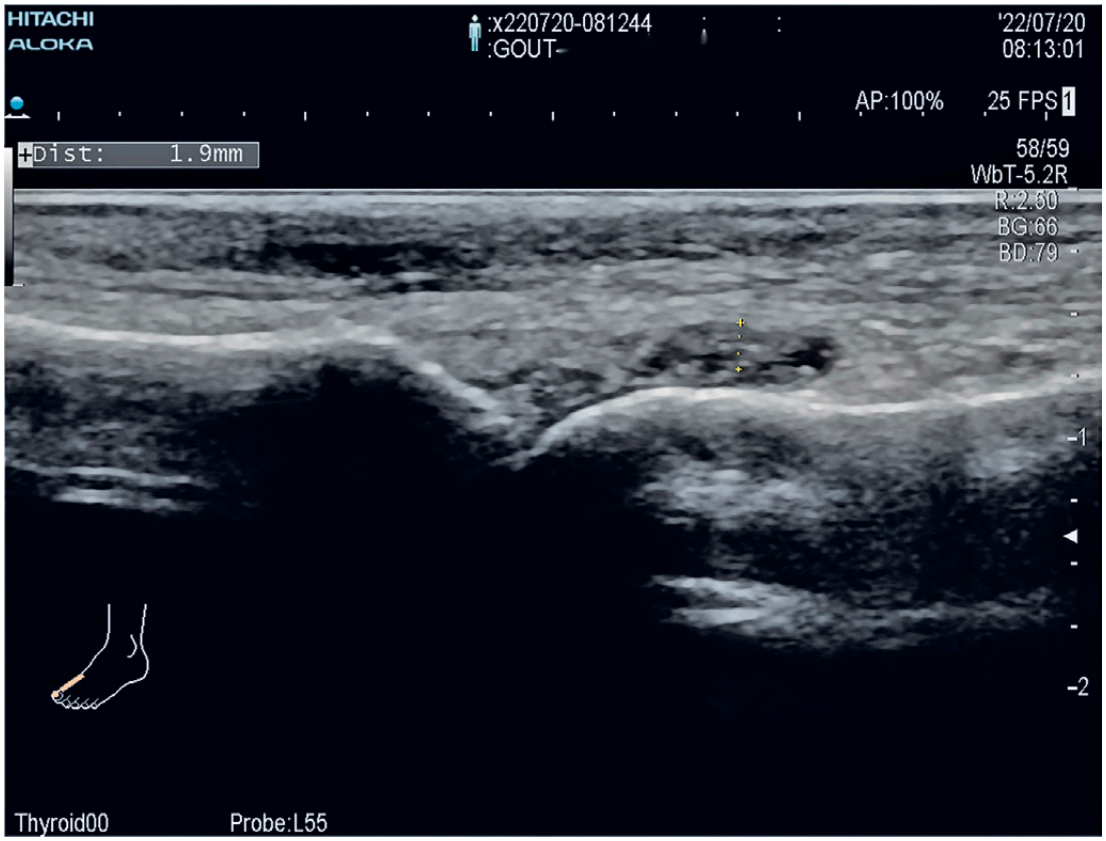



HITACHI
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08:14:20
AP:100%
25 FPS
202/203
WbT-5.2R
R:2.50
BG:73
BD:79
-1
-2
Thyroid00
Probe:L55


HITACHI
ALOKA
:x220720-081244
:GOUT
'22/07/20
08:14:09
AP:100%
10 FPS
4.15
4.15
cm/s
89/93
WbT-5.2R
R:2.50
BG:78
BD:79
0.7k/6.25MHz
CG:130
-1
-2
Thyroid00
Probe:L55


HITACHI
ALOKA
:x220720-081244
:GOUT
'22/07/20
08:13:39
AP:100%
25 FPS
1Dist: 13.3mm
+Dist: 5.3mm
74/76
WbT-5.2R
R:2.50
BG:78
BD:79
-1
-2
Thyroid00
Probe:L55


HITACHI
ALOKA
:x220720-081244
:GOUT
'22/07/20
08:13:34
AP:100%
25 FPS
594/595
WbT-5.2R
R:2.50
BG:74
BD:79
-1
-2
Thyroid00
Probe:L55



Video 1. Two-dimensional dynamic imaging of tophi and HAG in MTP1 of the left foot in a 73-year-old man
Video 2. Two-dimensional dynamic imaging of the synovium and HAG in MTP1 of the left foot in a 73-year-old man
Video 3. Dynamic color flow signal of the synovium in MTP1 of the right foot in a 49-year-old male
Video 4. Dynamic color flow signal of tophi in MTP1 of the left foot in a 63-year-old female

Supplementary Material 3. Sample size selection for consistency test

	Method	Alpha	Power	Volume
Thickness of synovium (cm)	Bland–Altman	0.05	0.95	12
Blood of synovium	Kappa	0.05	0.95	46
Blood of tophi	Kappa	0.05	0.8	118