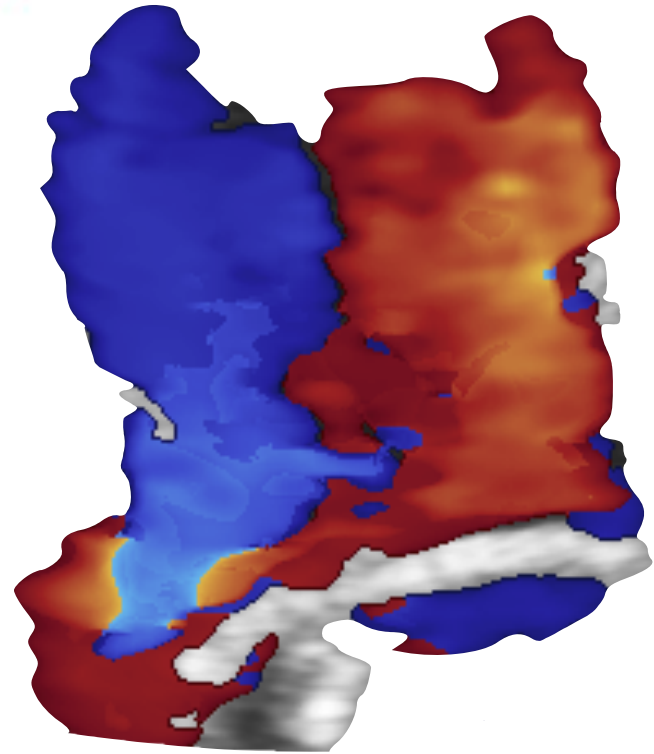




ULTRASOUND
PROGRAM



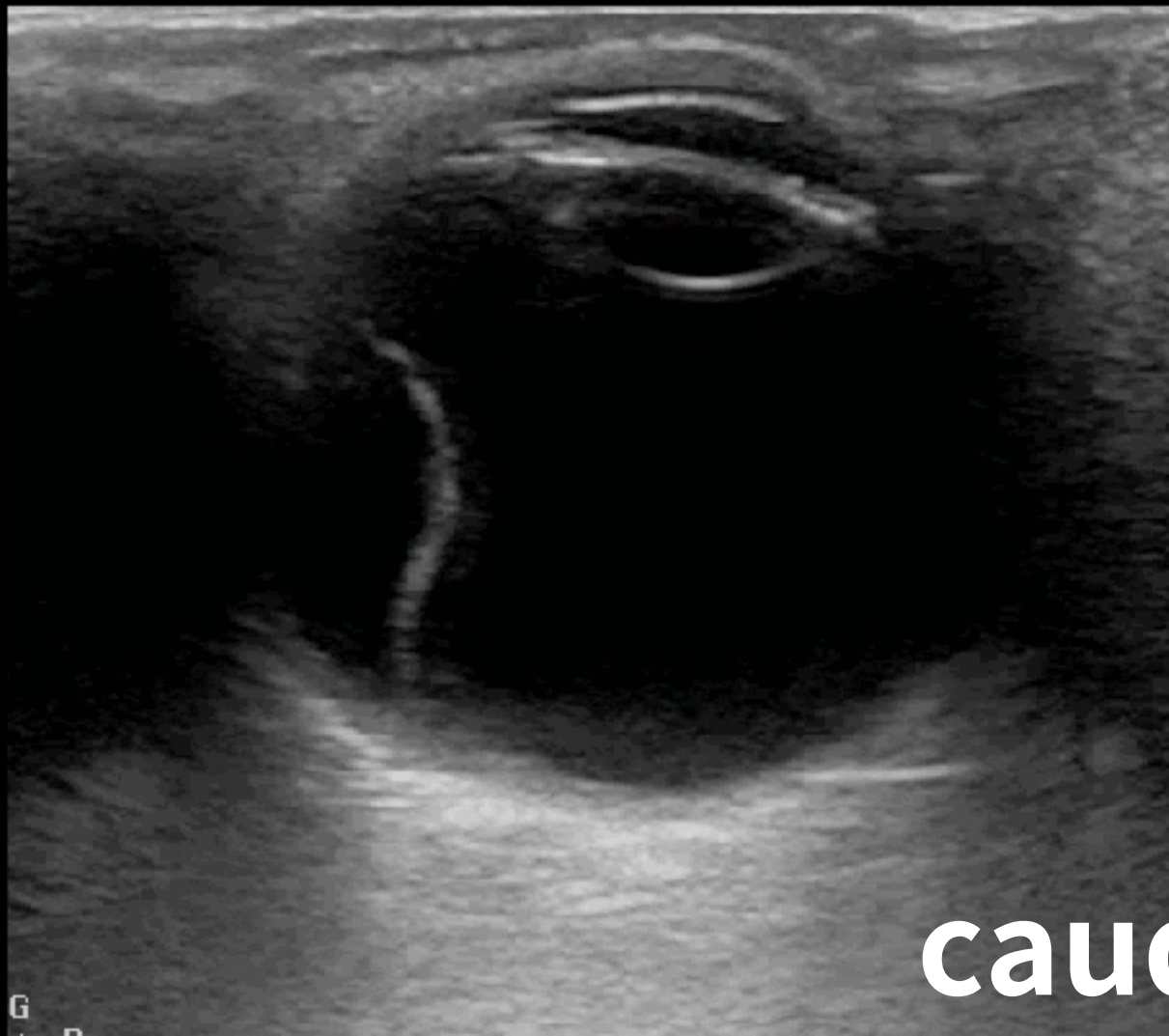
Interpretation

視野缺損：上/下/左/右

superficial
12-3
1 Hz
3.5cm

D
Gen
Gn 100
C 52
4/3/2

P



cranial

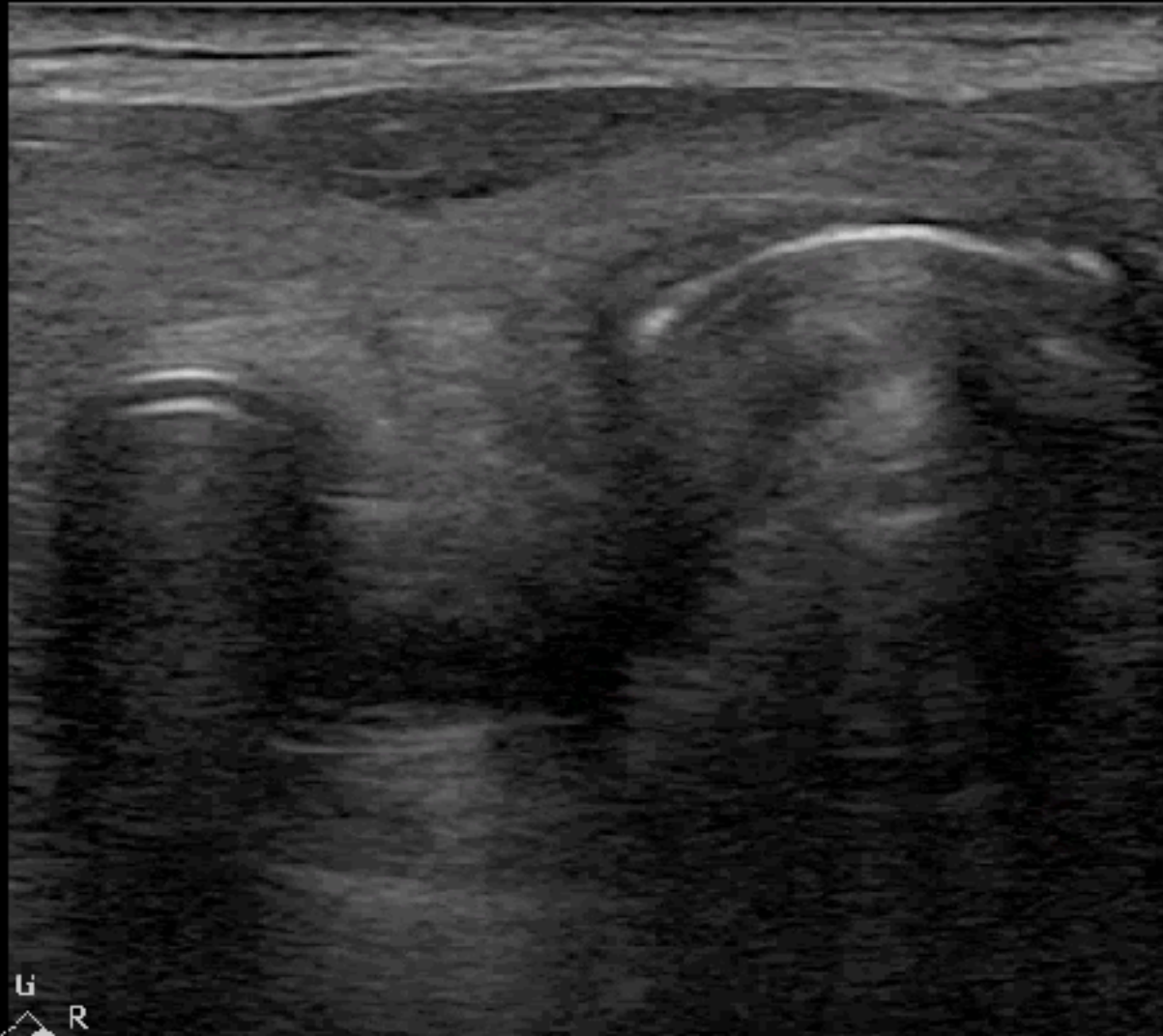
caudal

Major finding

Superficial
L12-3
46 Hz
3.5cm

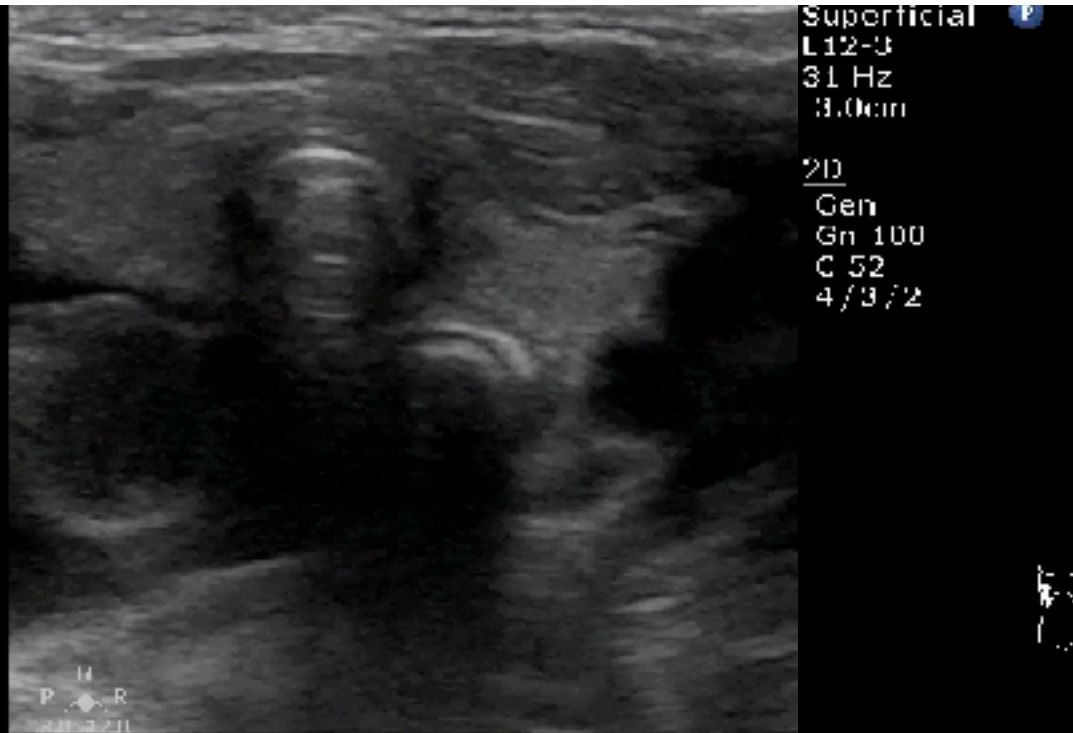
2D
Res
Gn 60
C 56
3 / 2 / 1

P

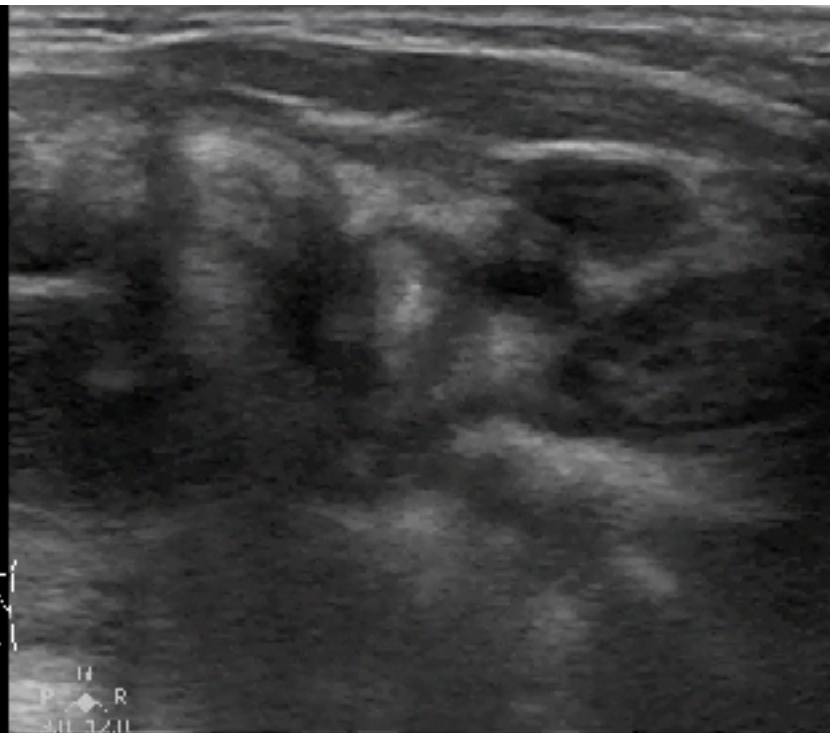


P U R

Correct intubation ?

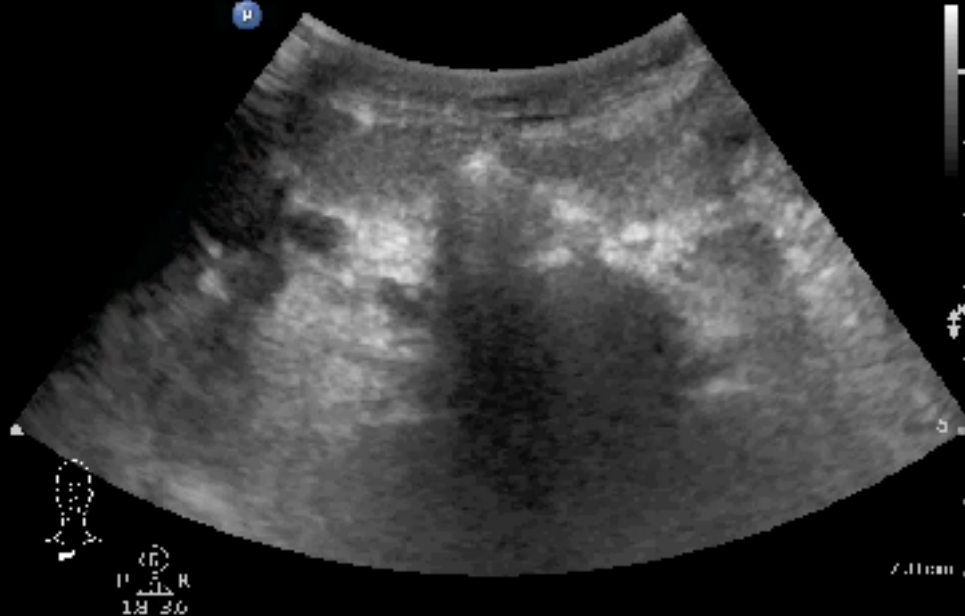


A



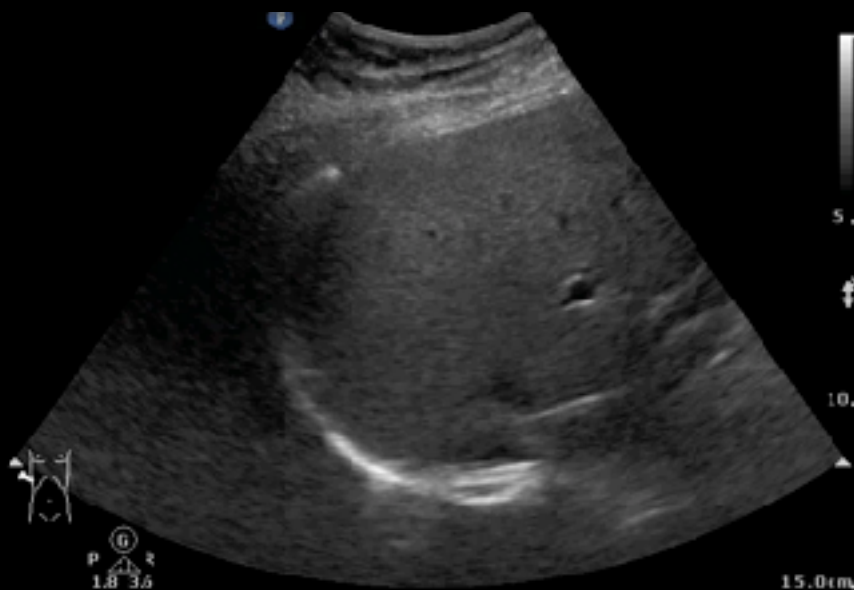
B



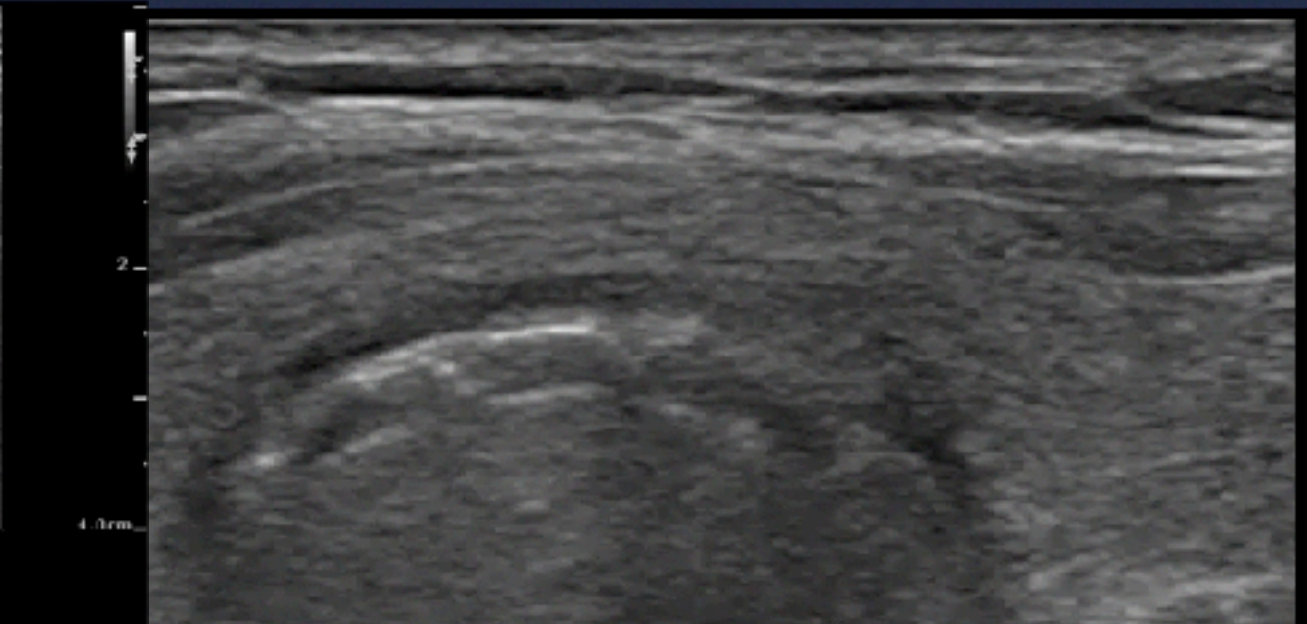
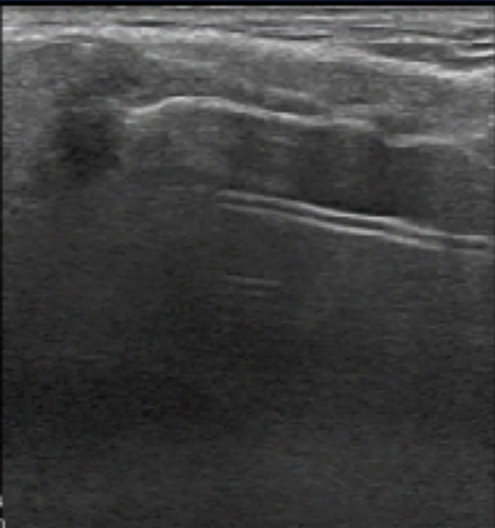


正確
插管

雙側
通氣



TRUST

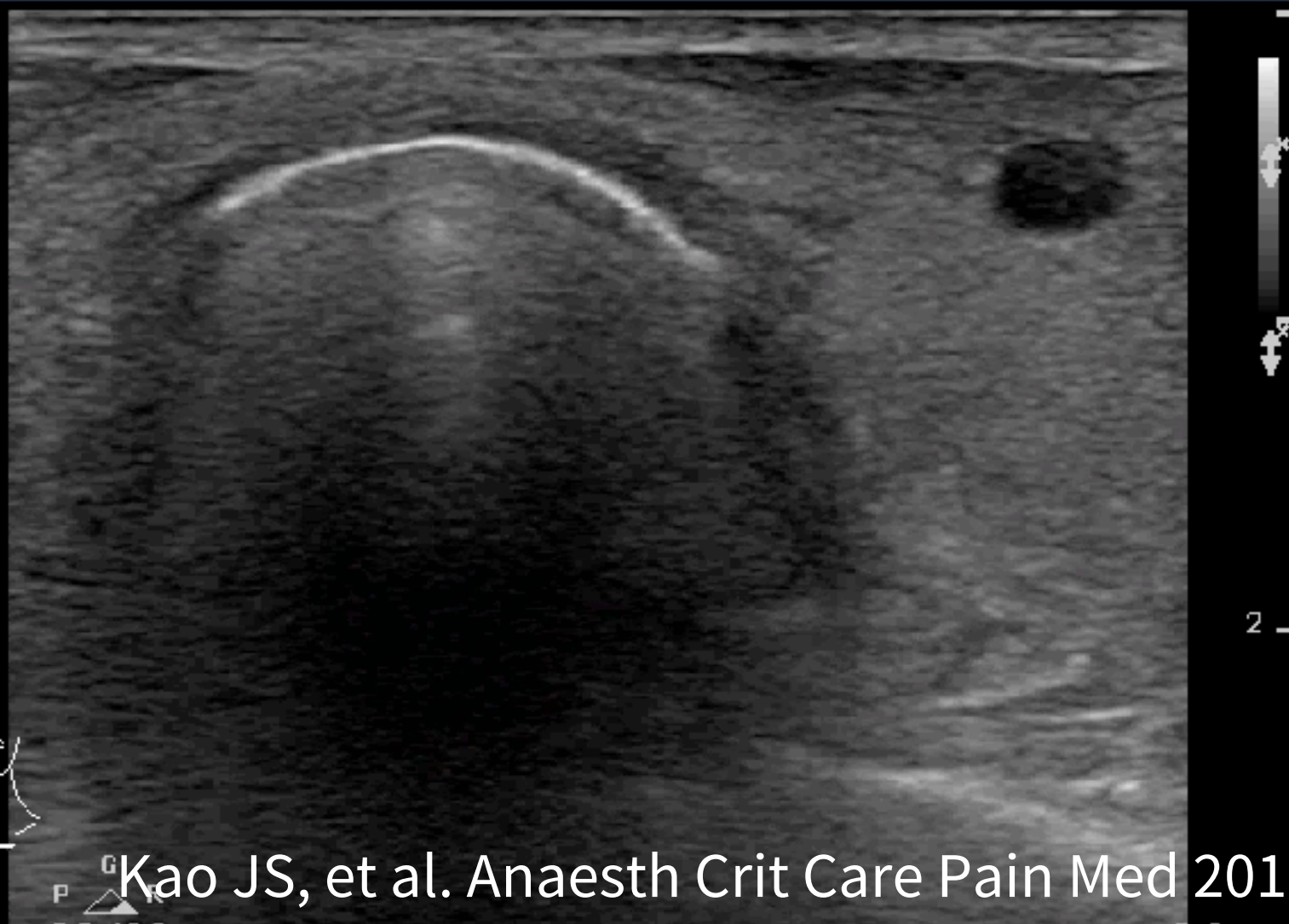


G
P R
20 100

Tracheal compression

Direct visualization of ETT

Superficial : P
12-3
6 Hz
3.0cm
D
Res
Gn 60
C 56
3/7/1

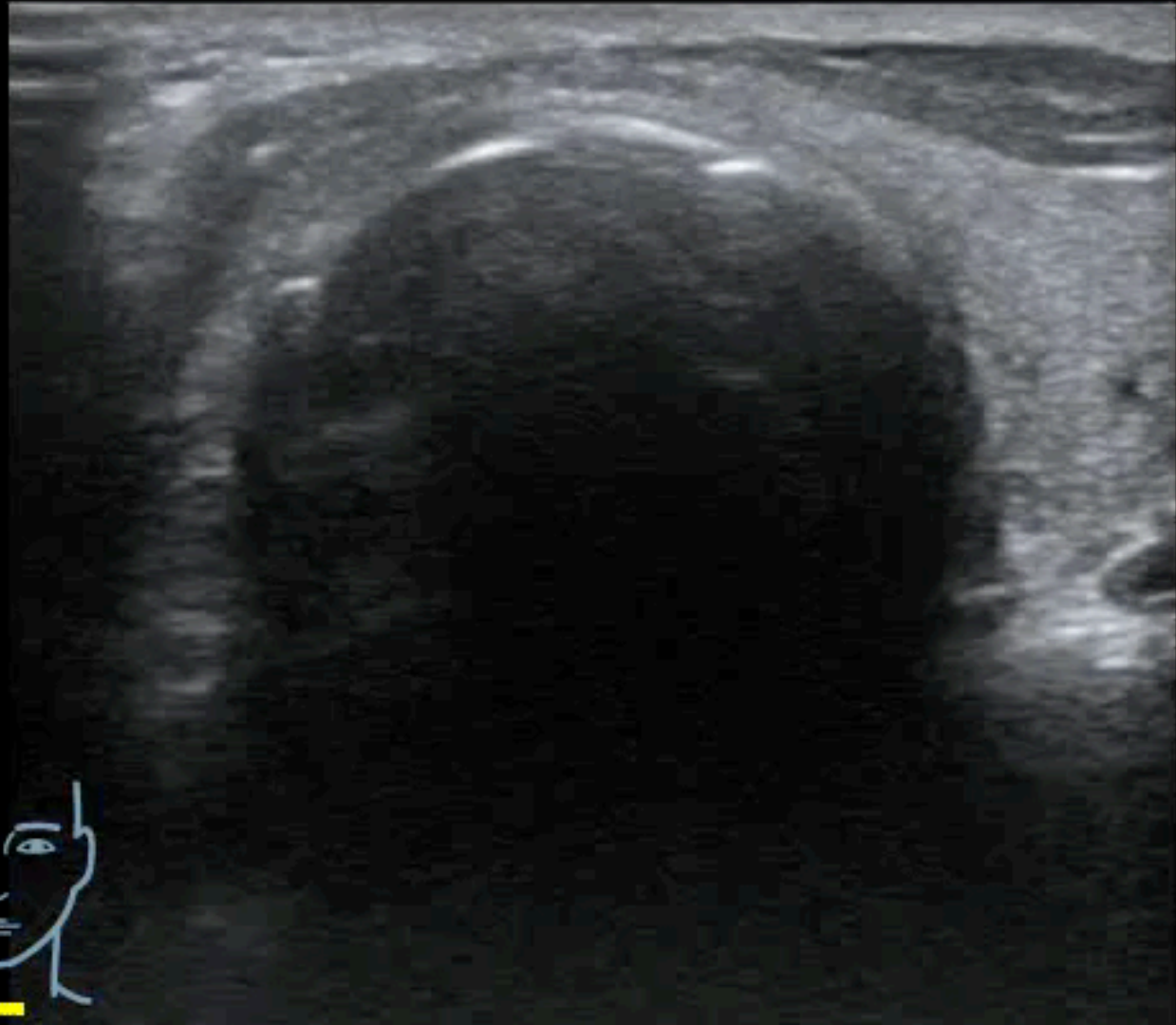


Cuff compression

MI 14
TIS 0.1



B
FH10.0
DR 100
FR 31
D 4.0
G 67



-0

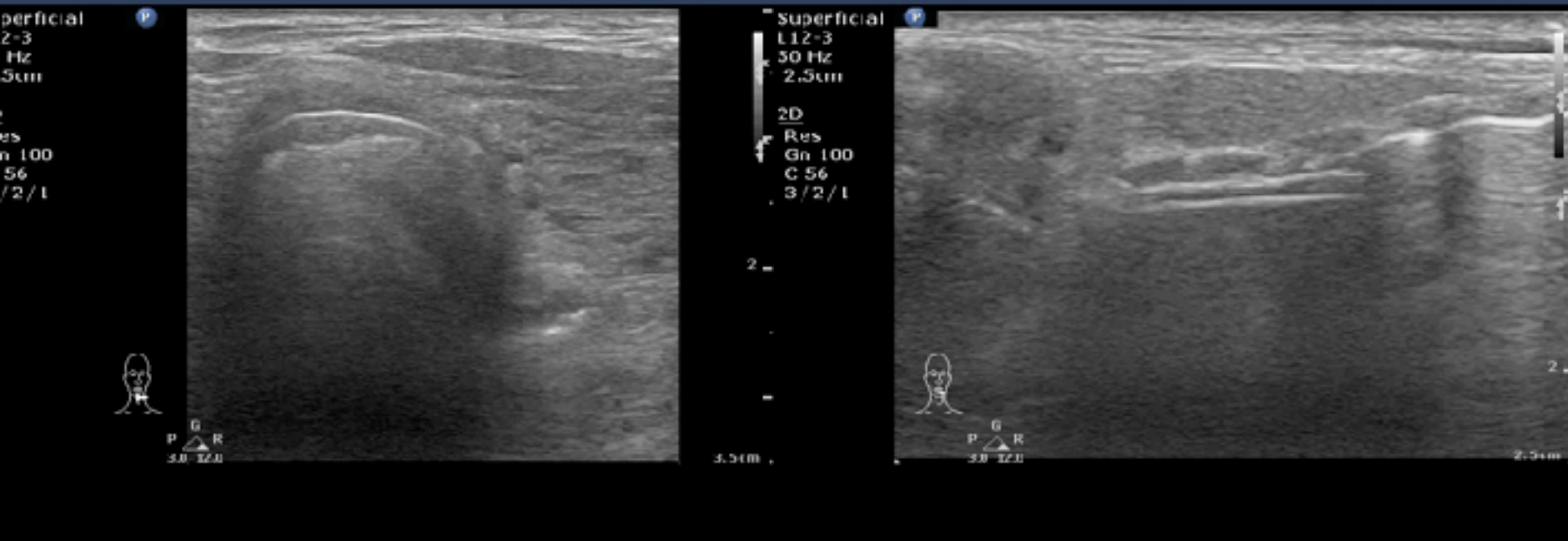
-1

-2

-3



EVB / Airway protection

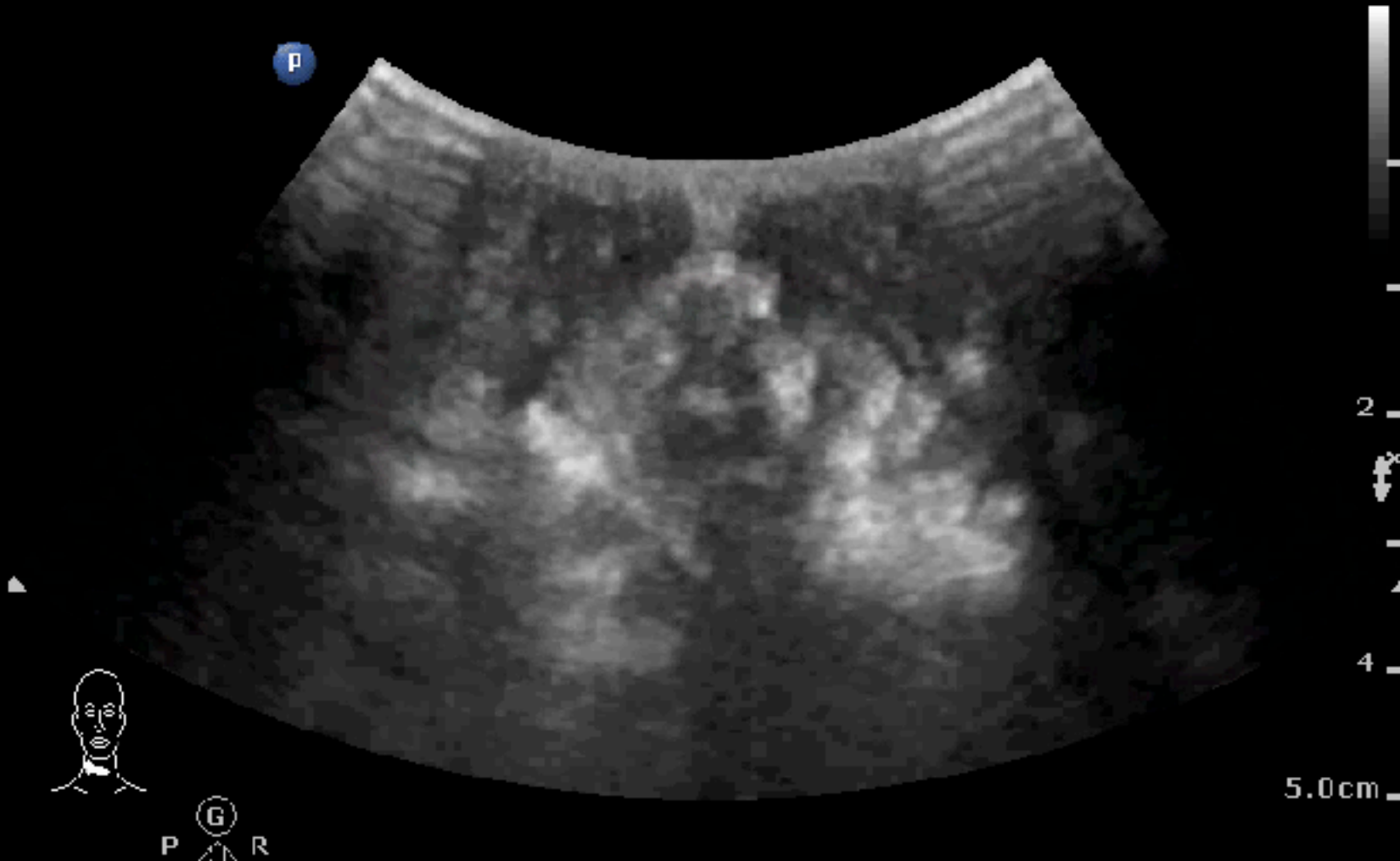


Stridor & dyspnea

Abd Gen
C5-1
64 Hz
5.0cm

2D

HGen
Gn 90
C 56
3 / 3 / 3

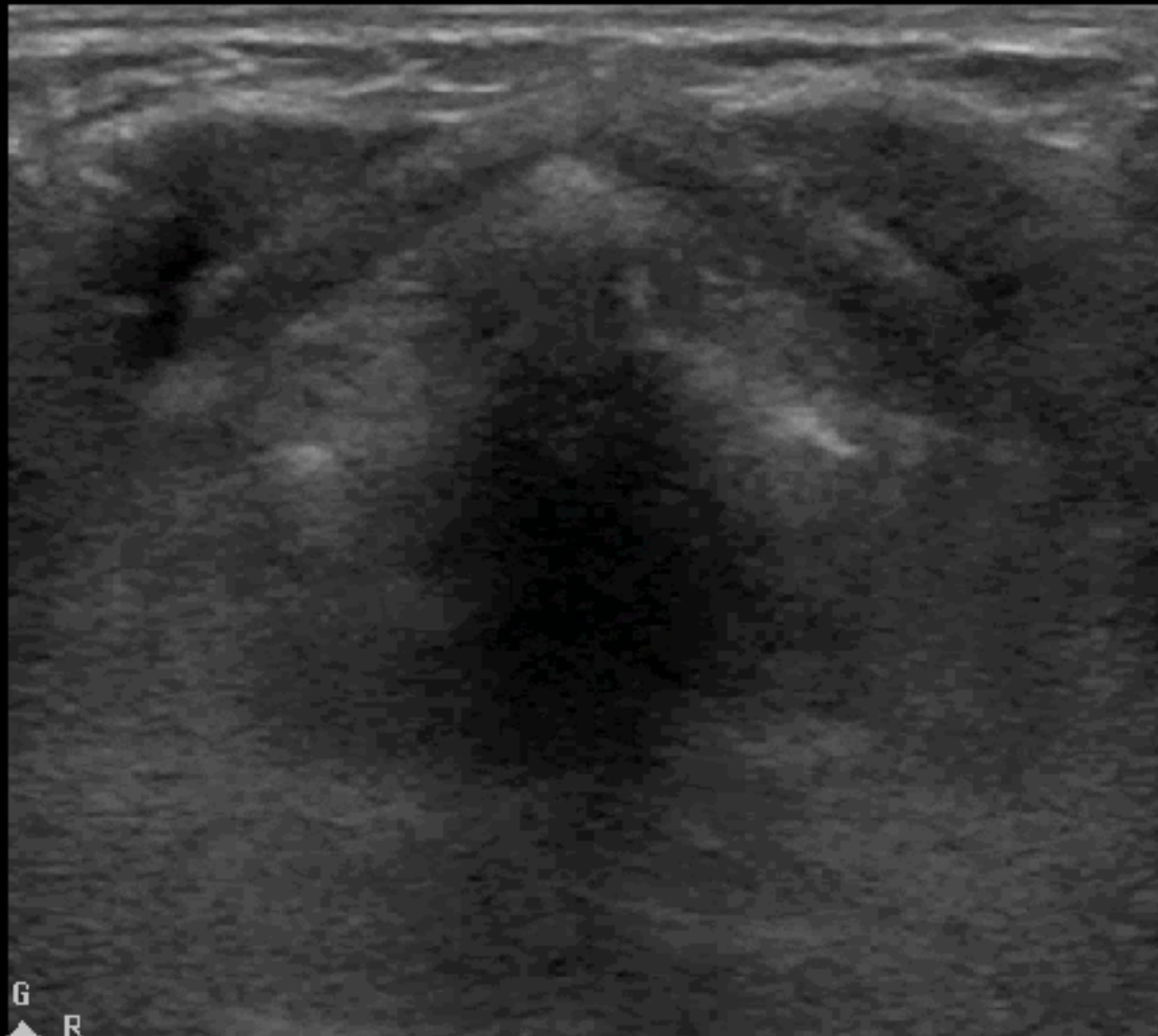


5.0cm

Stridor & dyspnea

Superficial
12-3
8.1 Hz
3.5cm

PD
Gen
Gn 93
C 52
4/3/2



P G R

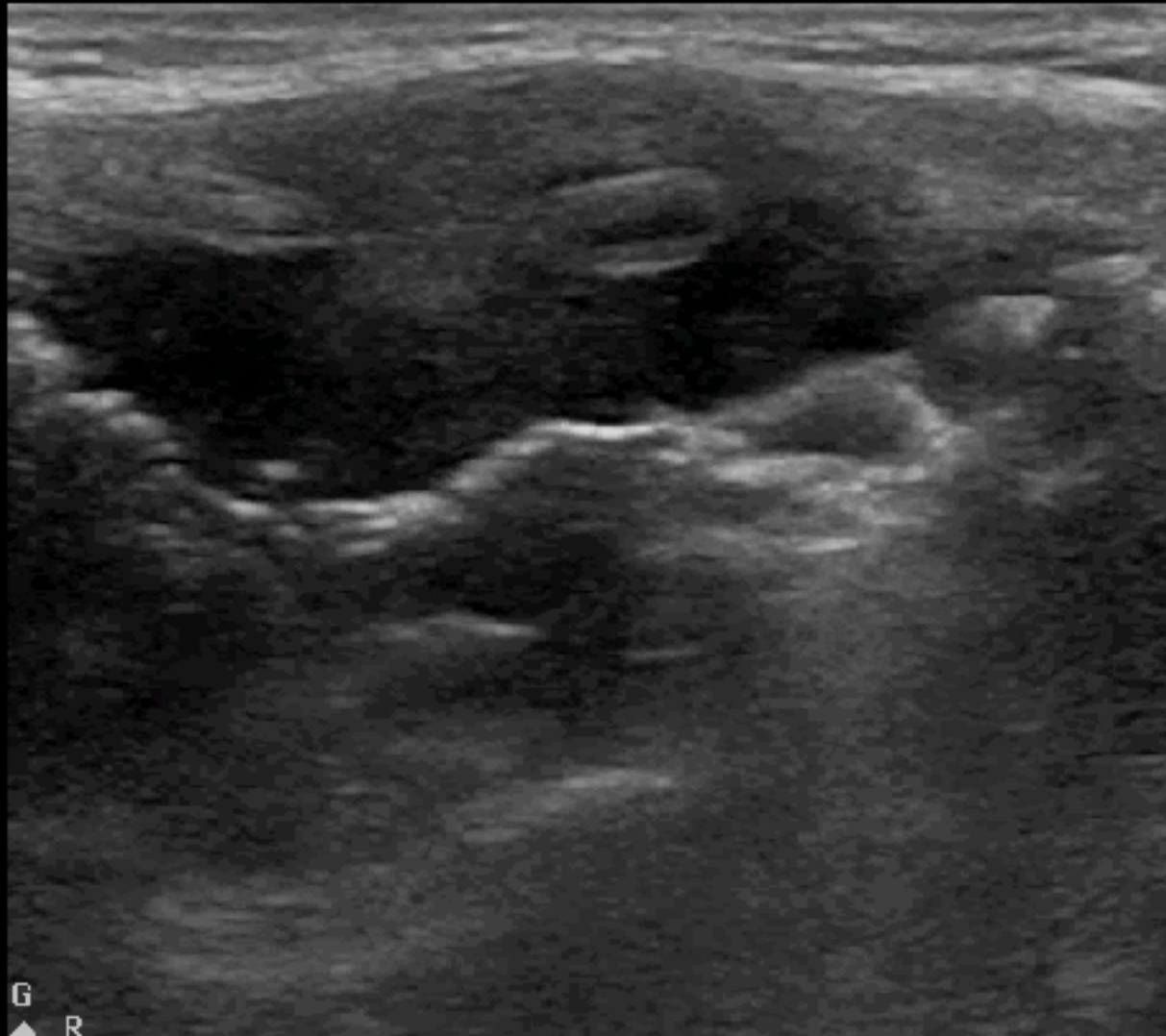
2

Cricothyroidotomy ?

Superficial
12-3
1 Hz
3.5cm

D
Gen
Gn 93
C 52
4/3/2

P

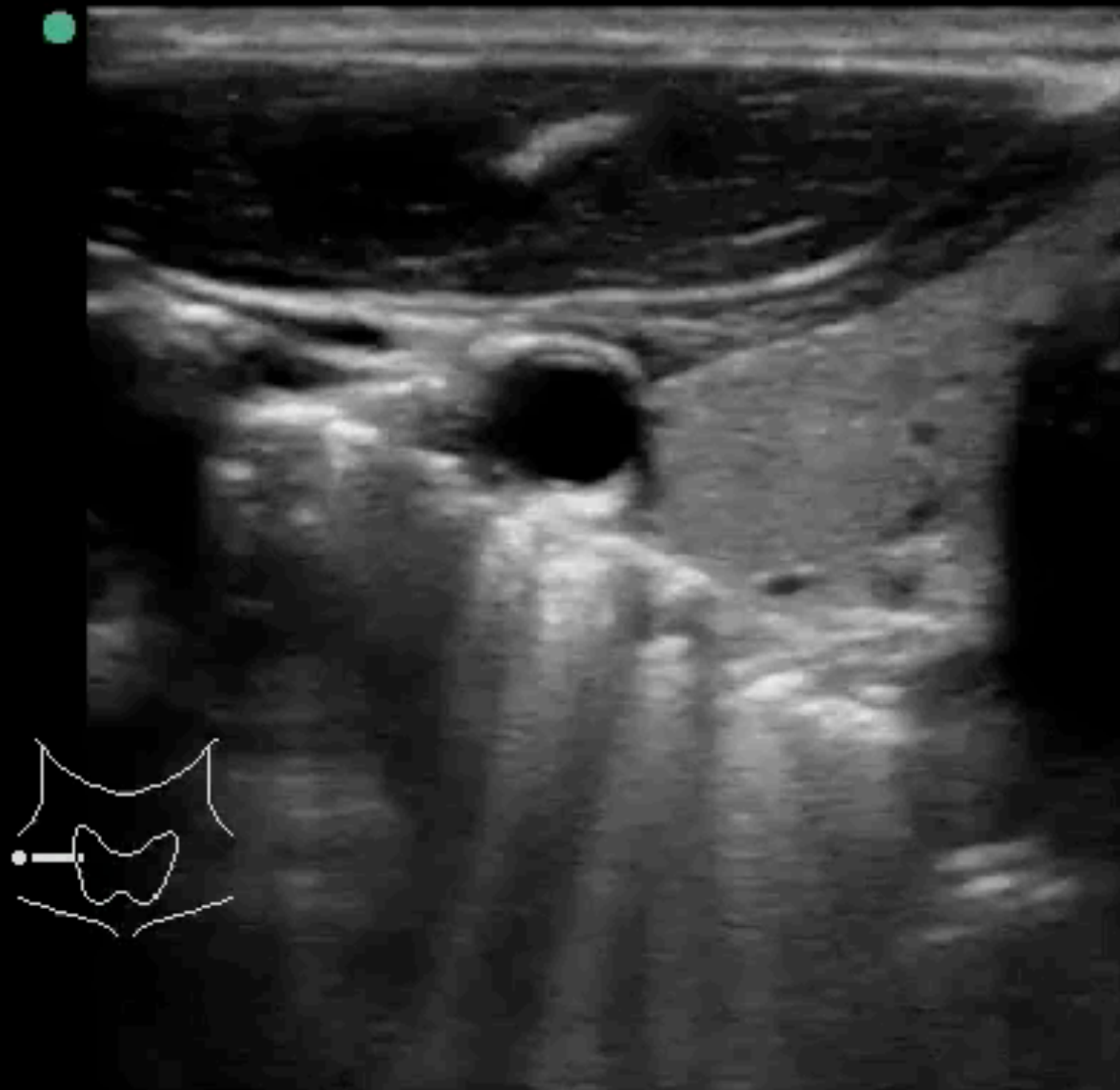


P G R

Subcutaneous emphysema

Gen
S

MB



SmP
HFL



40%

MI

0.7

TIS

0.1

A

B



4.0

Carotid dissection

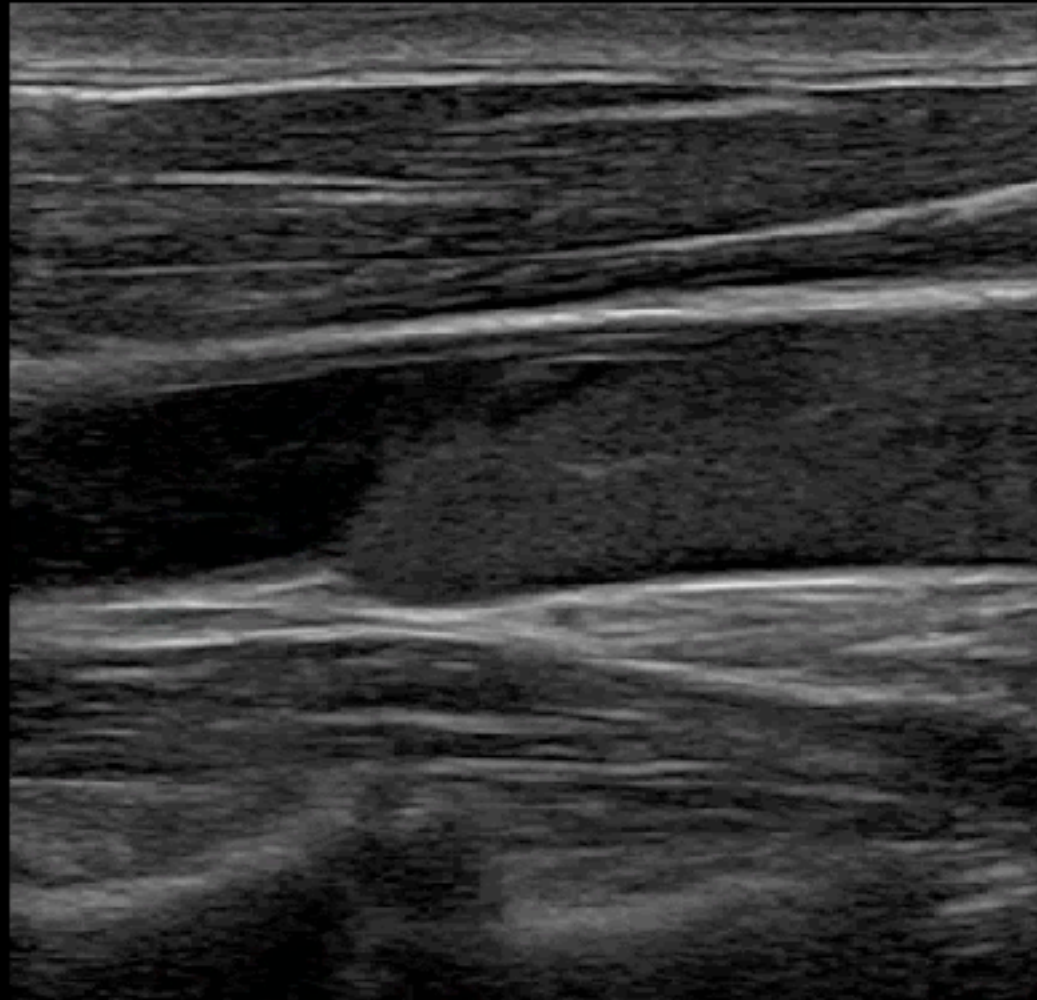
Superficial :

| 12-3
43 Hz
4.0cm

2D

Res
Gn 60
C 56
3 / 7 / 1

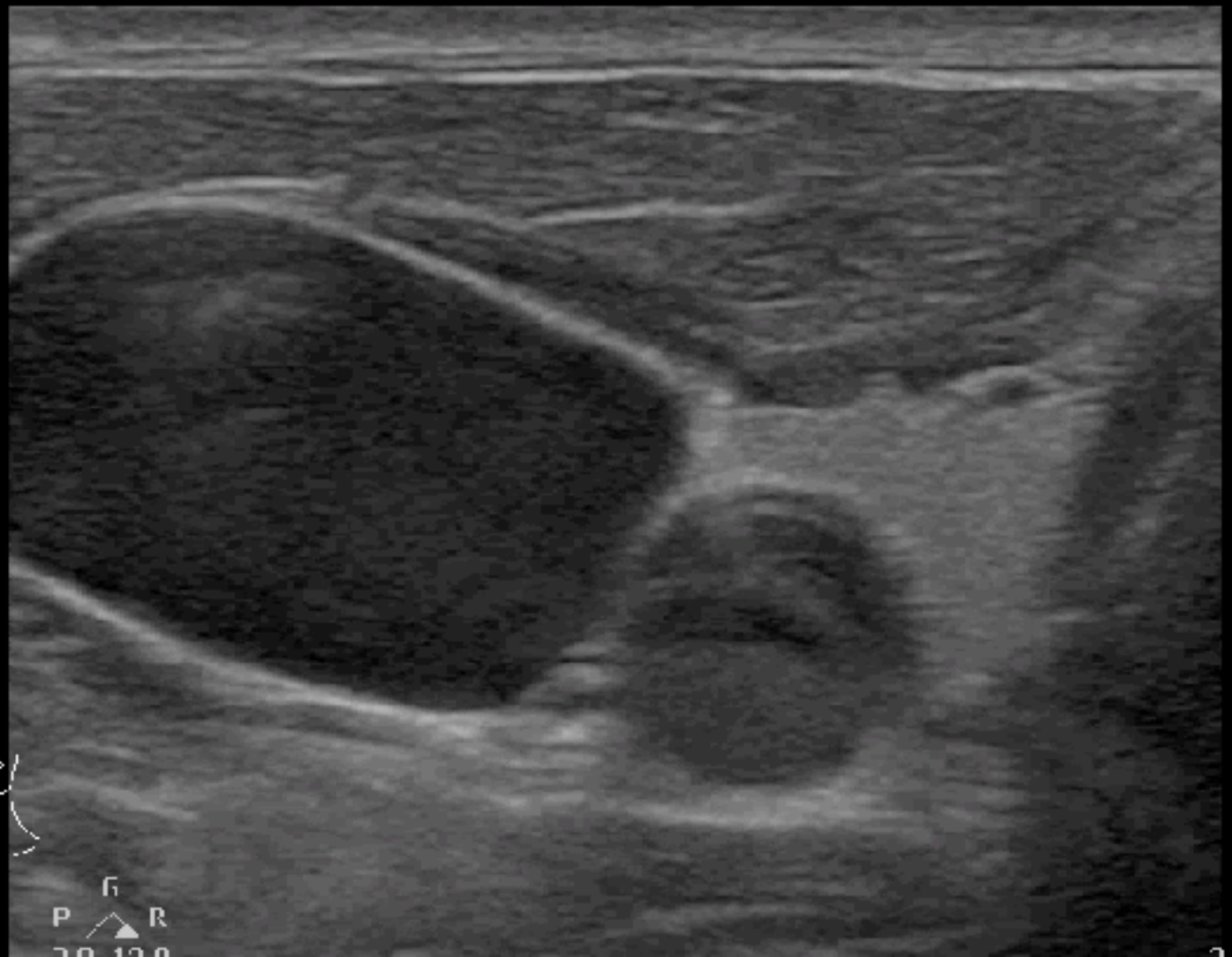
P



P G R

Aortic dissection involved CCA

Superficial : P
L12-3
46 Hz
3.0cm
2D
Res
Gn 61
C. 79
3 / 2 / 1



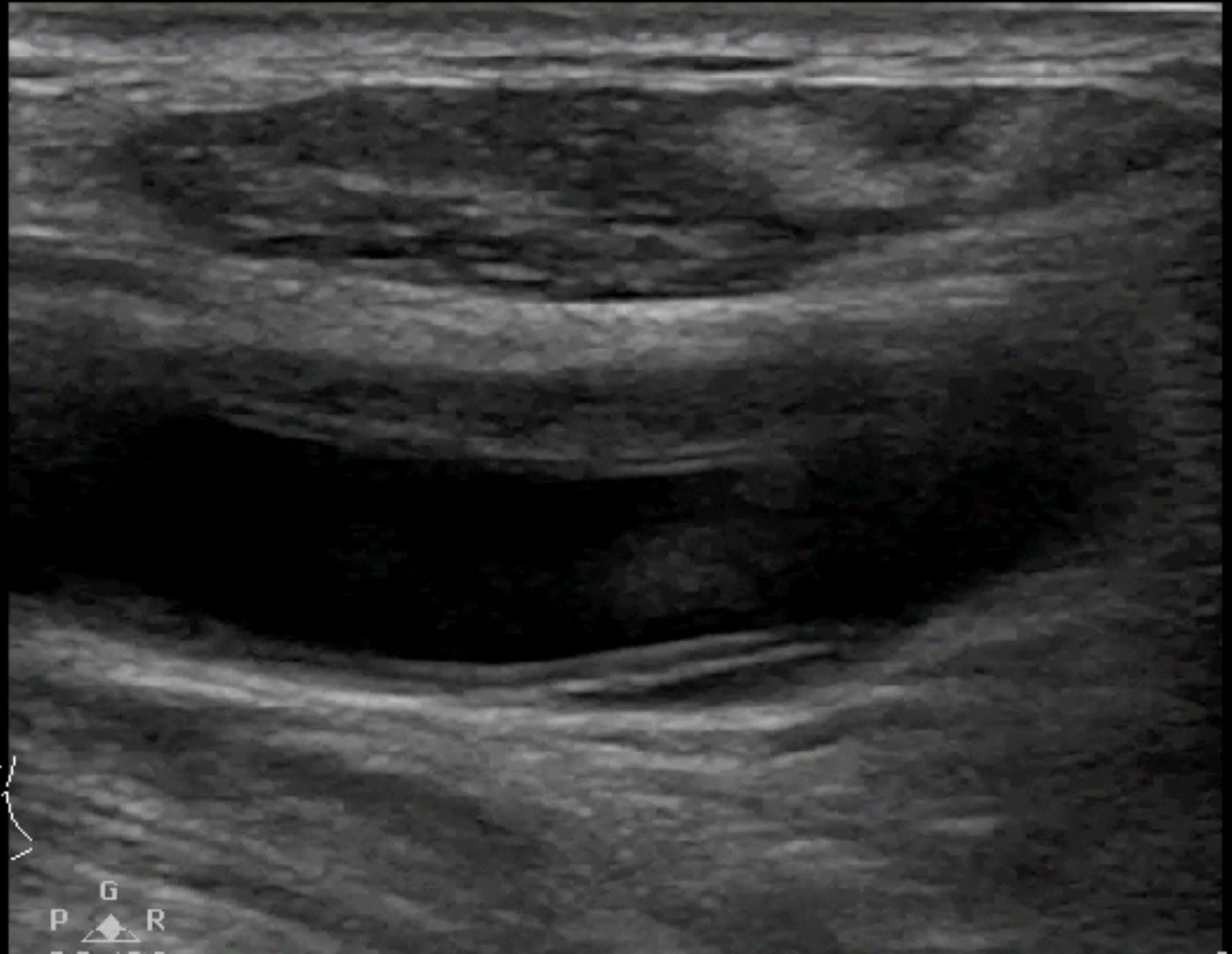
P R
70 120

Carotid dissection

Superficial
L12-3
31 Hz
3.0cm

P

2D
Gen
Gn 76
C 52
4/3/2



P G R

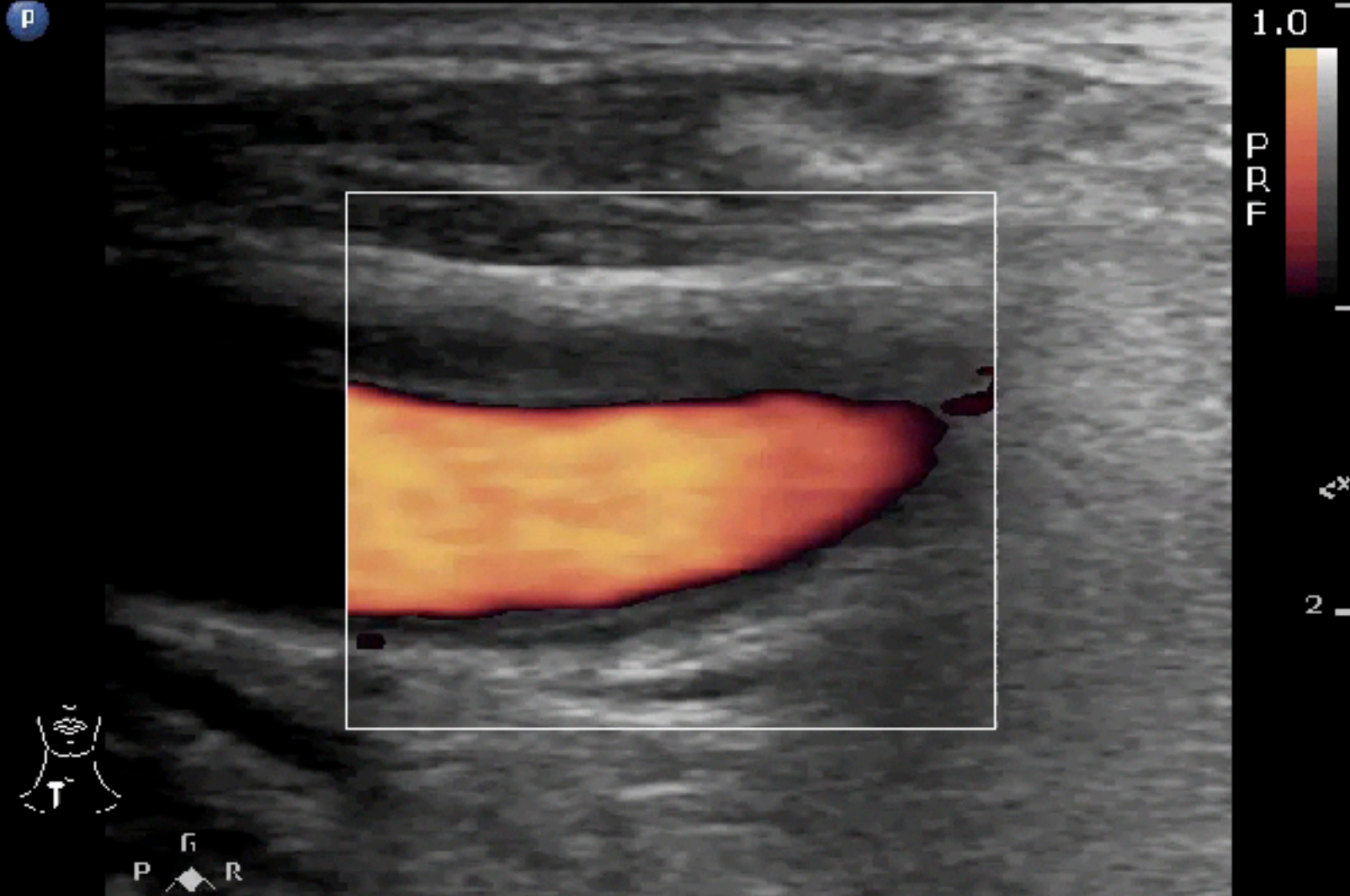
2

Aortic dissection

Superficial
L12-3
42 Hz
3.0cm

2D
Gen
Gn 82
C. 57
4/3/2

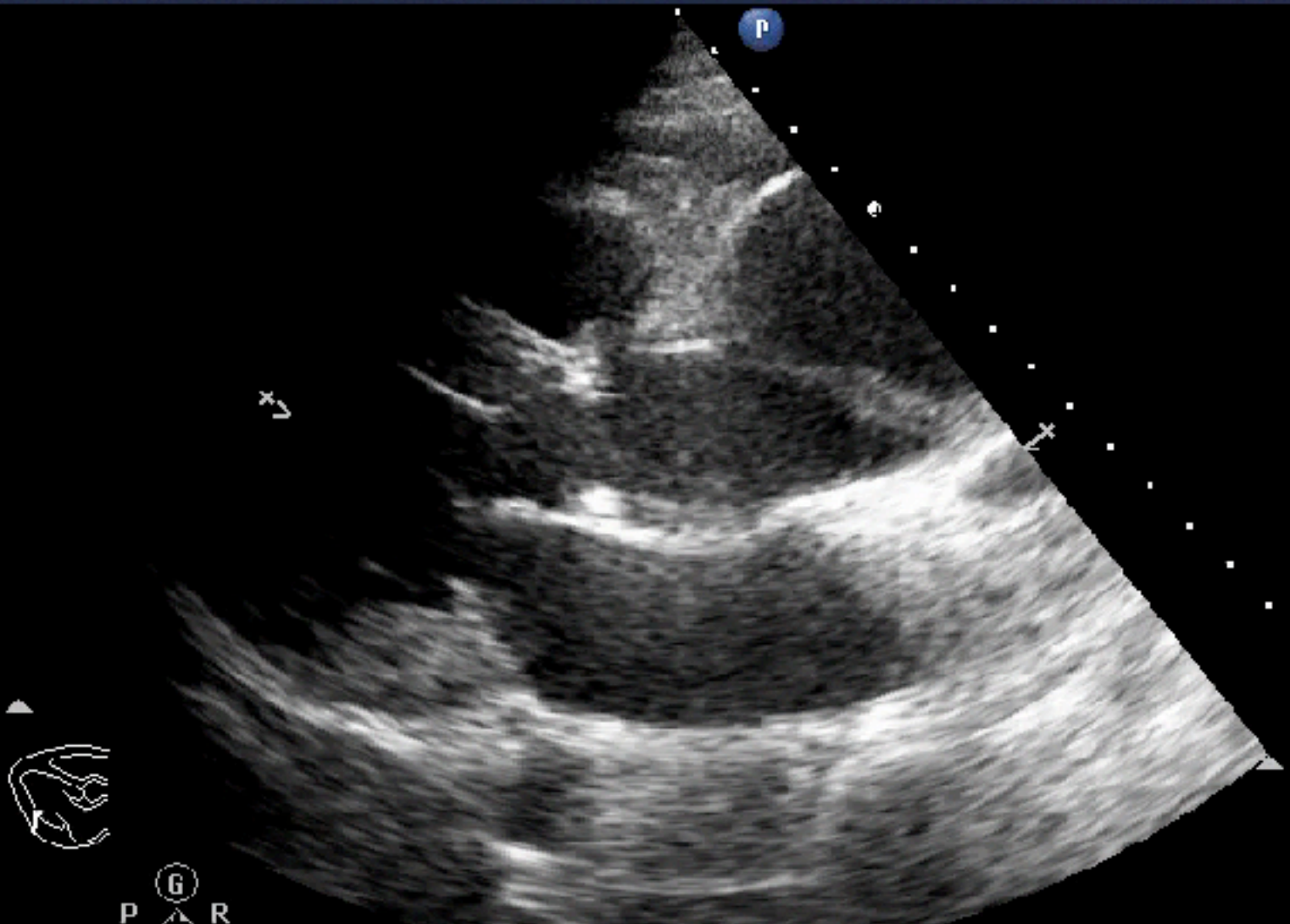
CPA
5.0 MHz
Gn 34
1/5/4
Filtr Med
Baseln 3



Aortic dissection

Adult Echo
S5-1
80 Hz
7.0cm

2D
HGen
Gn 41
C 50
3/2/0

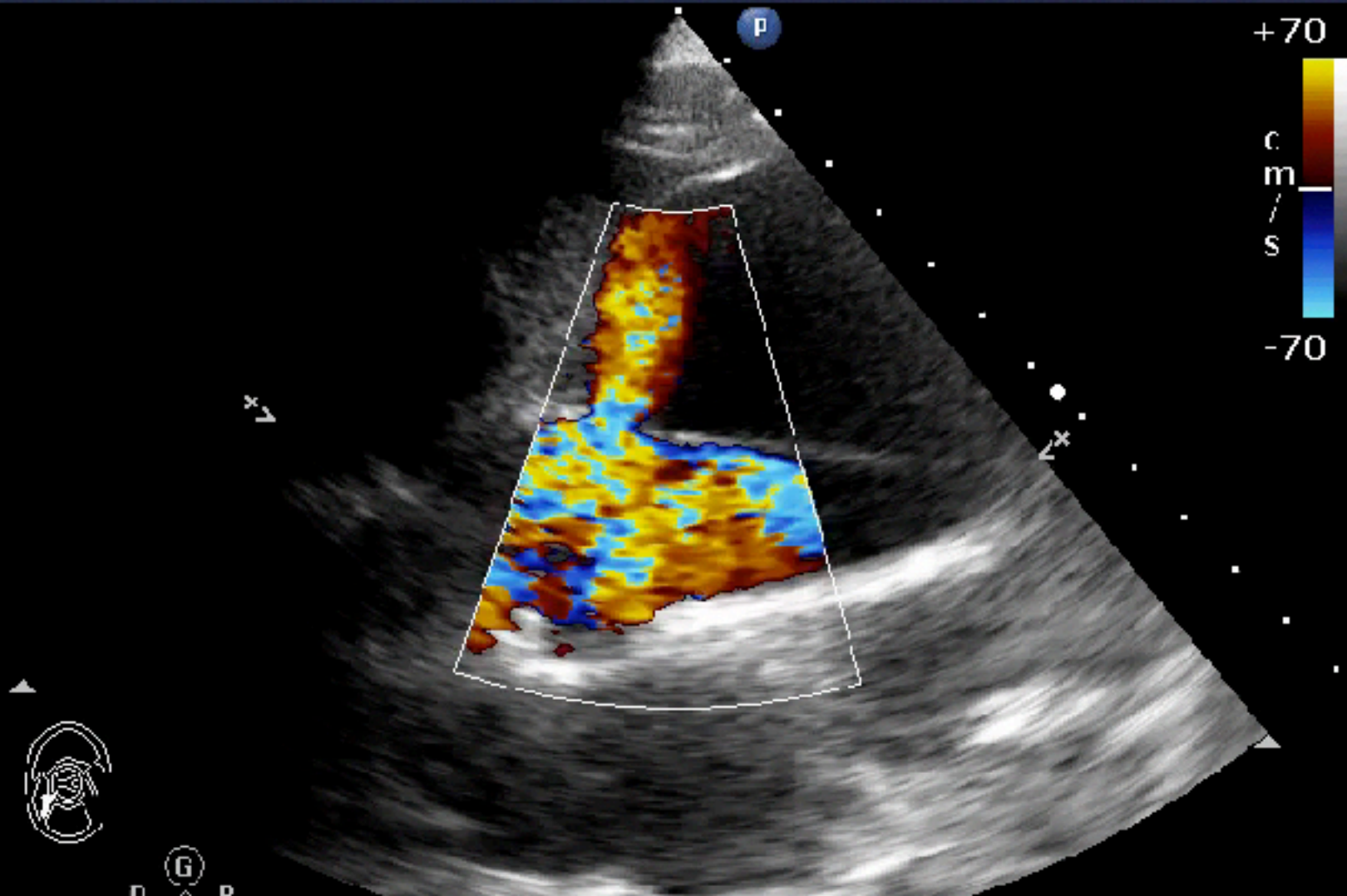


Aortic dissection

Adult Echo
5-1
1 Hz
3.0cm

D
HGen
Gn 65
C 50
3/2/0

Color
2.5 MHz
Gn 45
4/5/0
Filtr High



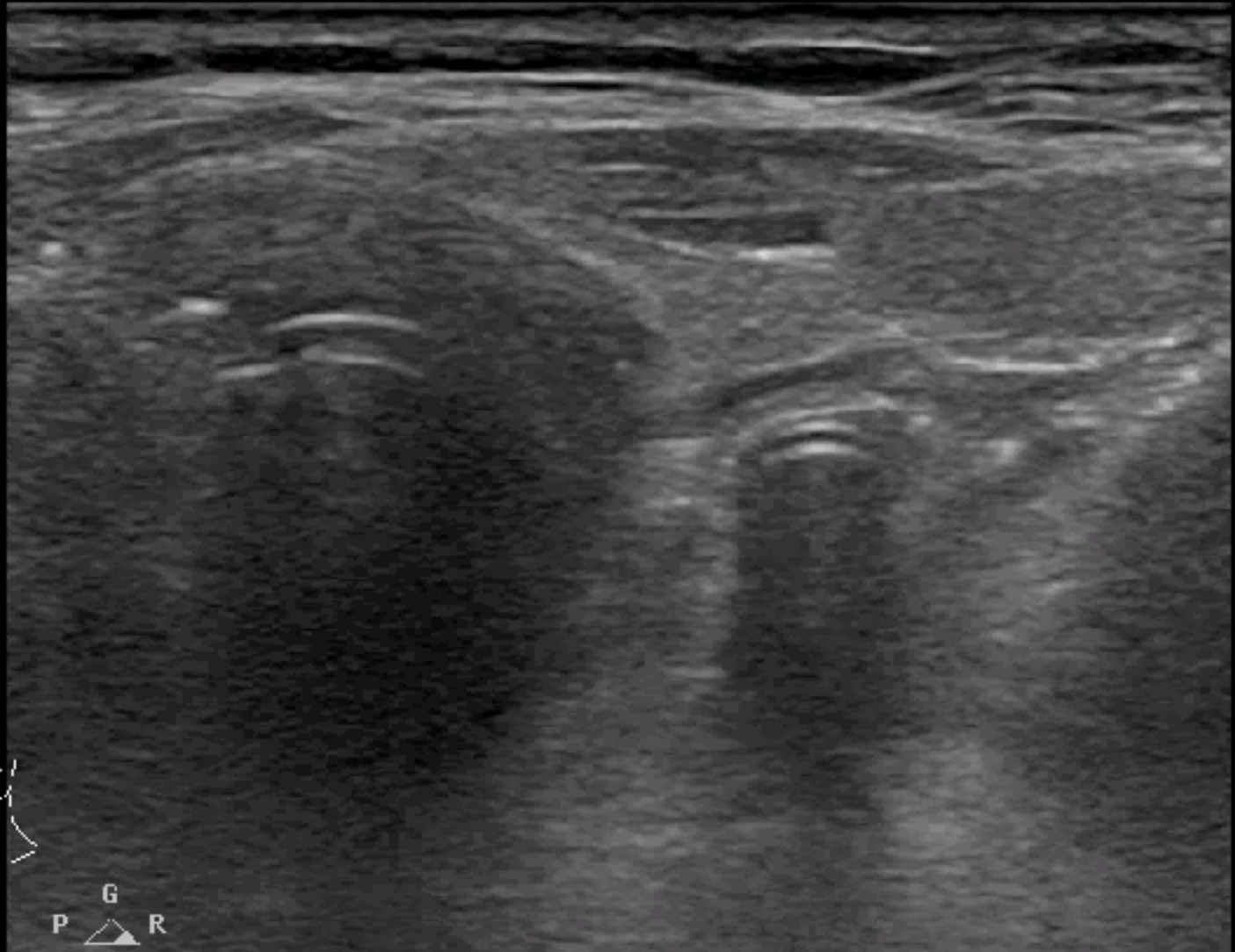
Name the device(s)

Superficial
_12-3
45 Hz
3.0cm

2D

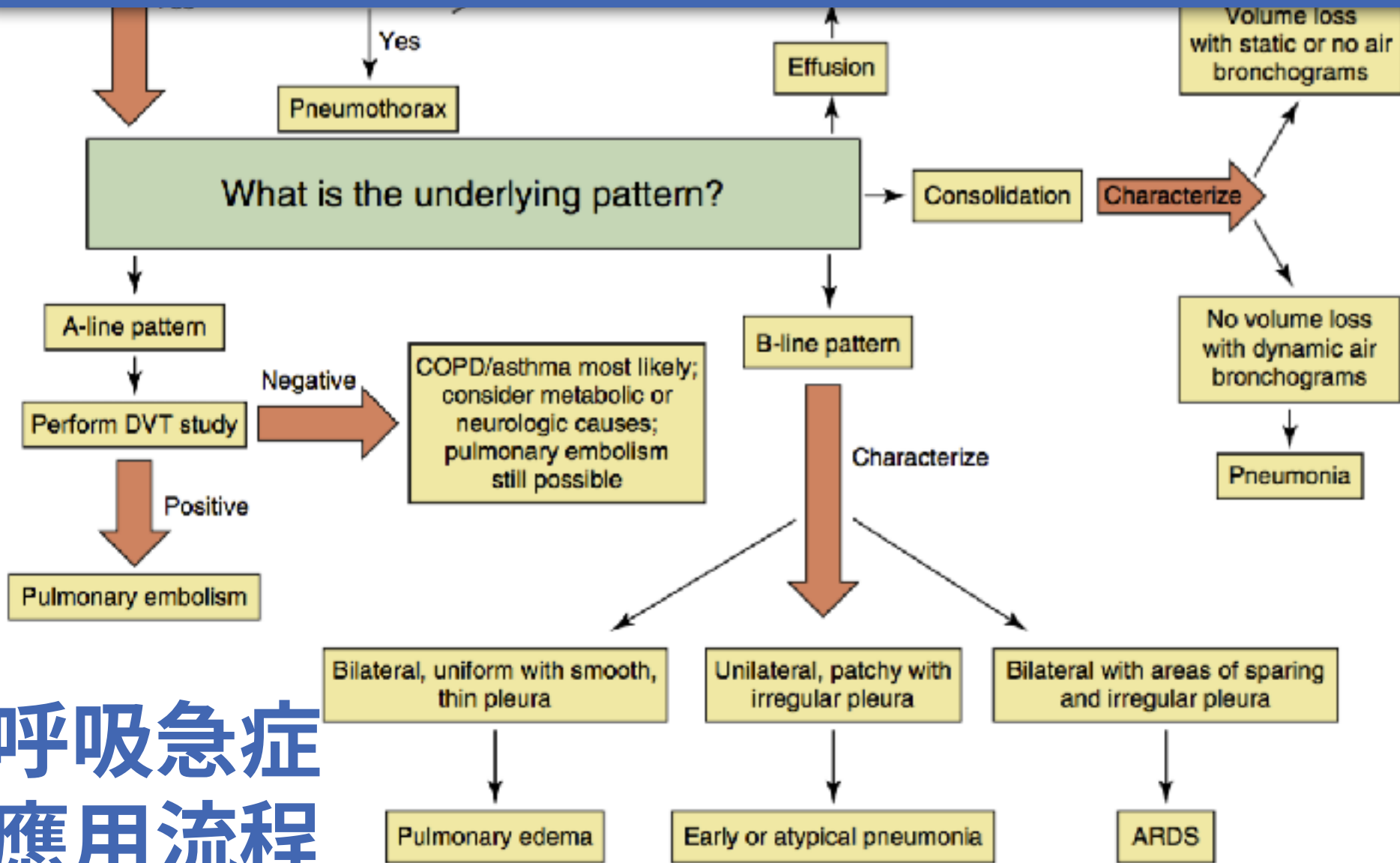
Res
Gn 96
C 56
3 / 2 / 1

P

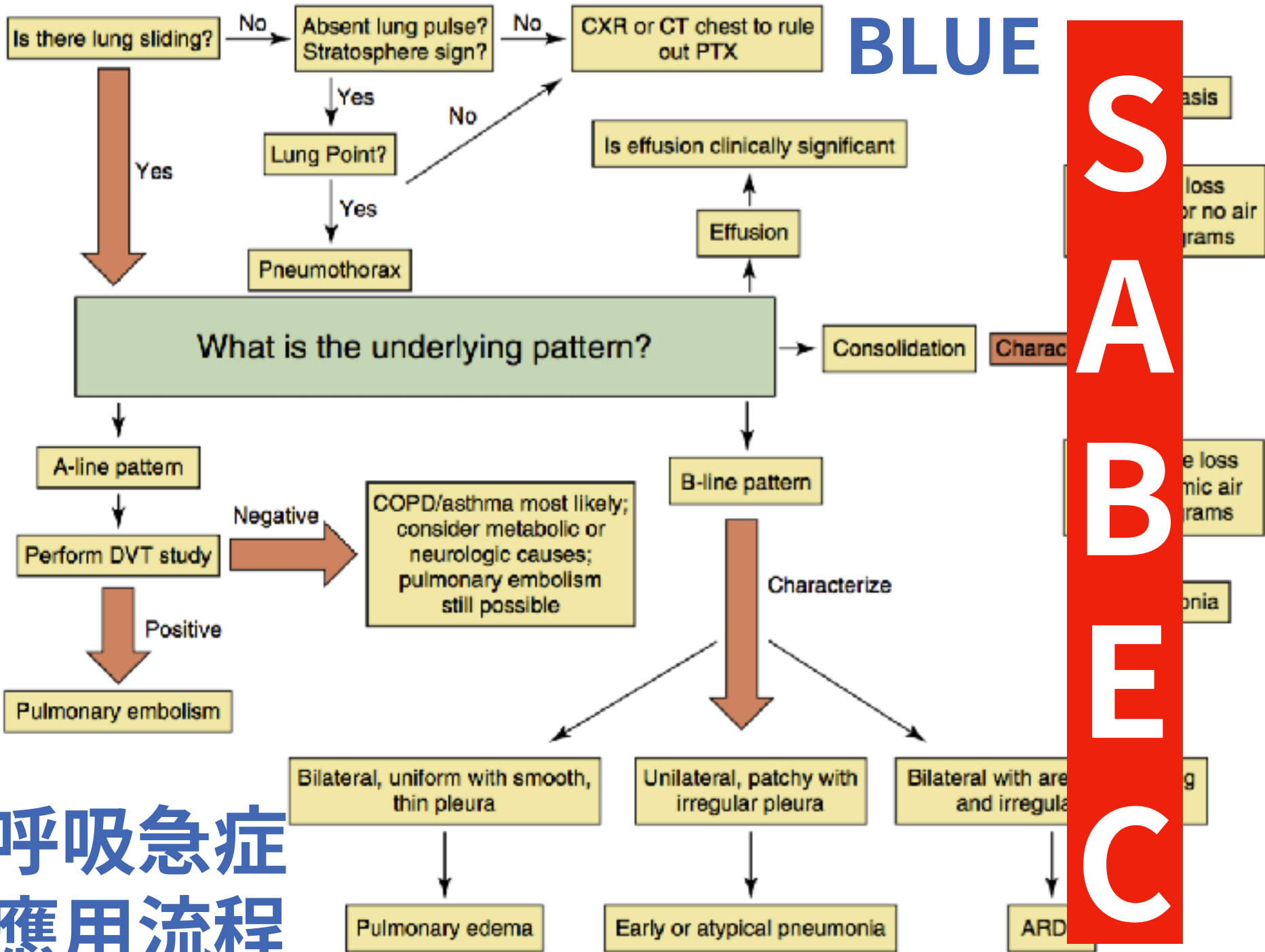


G
P R

1st step of BLUE protocol ?



呼吸急症
應用流程



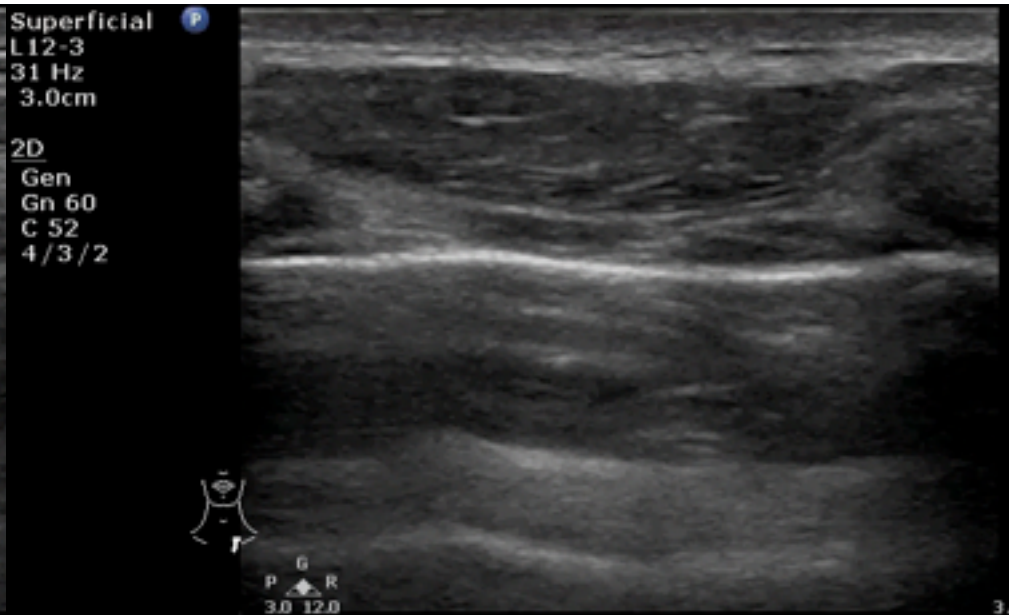
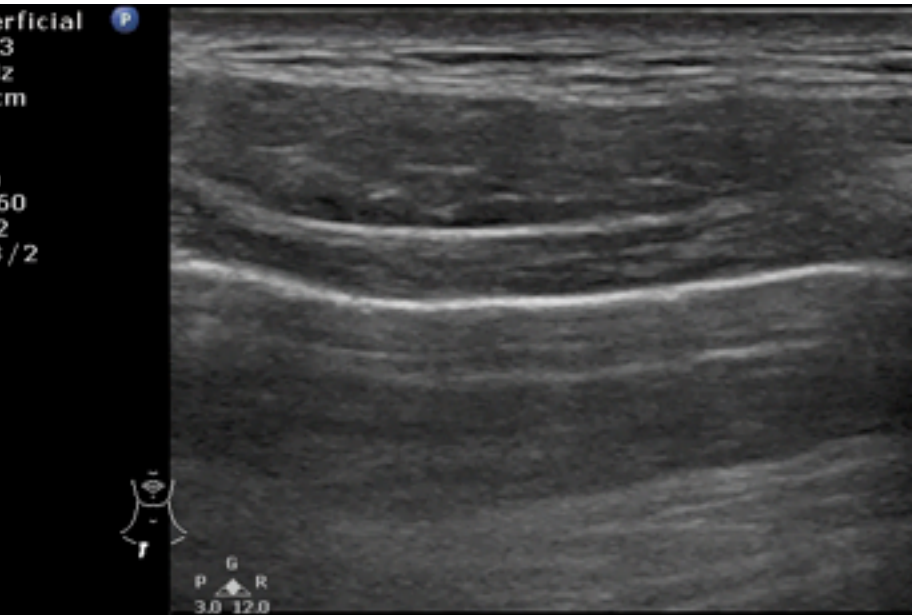
BLUE

S
A
B
E
C

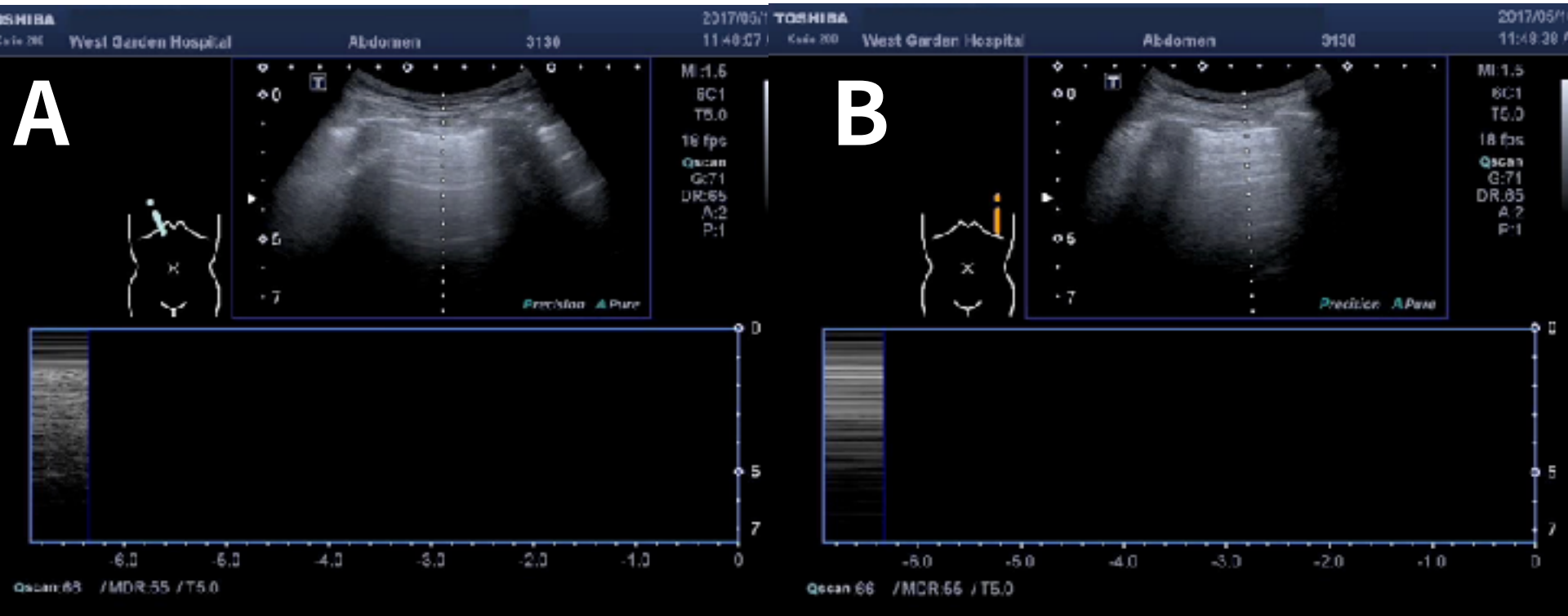
呼吸急症
應用流程

R

L

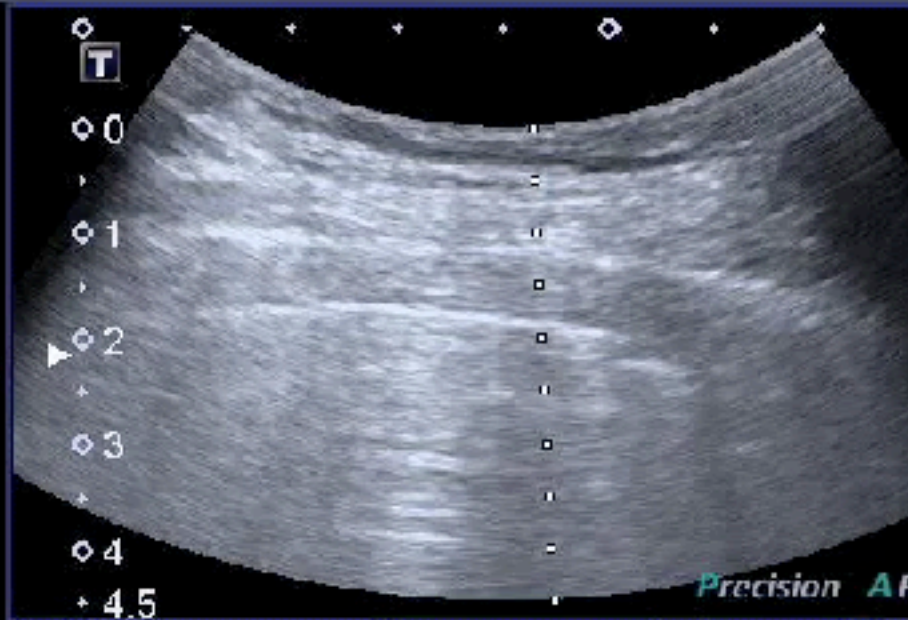


Pneumothorax

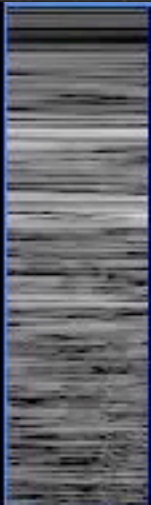


Lung Point

A



B

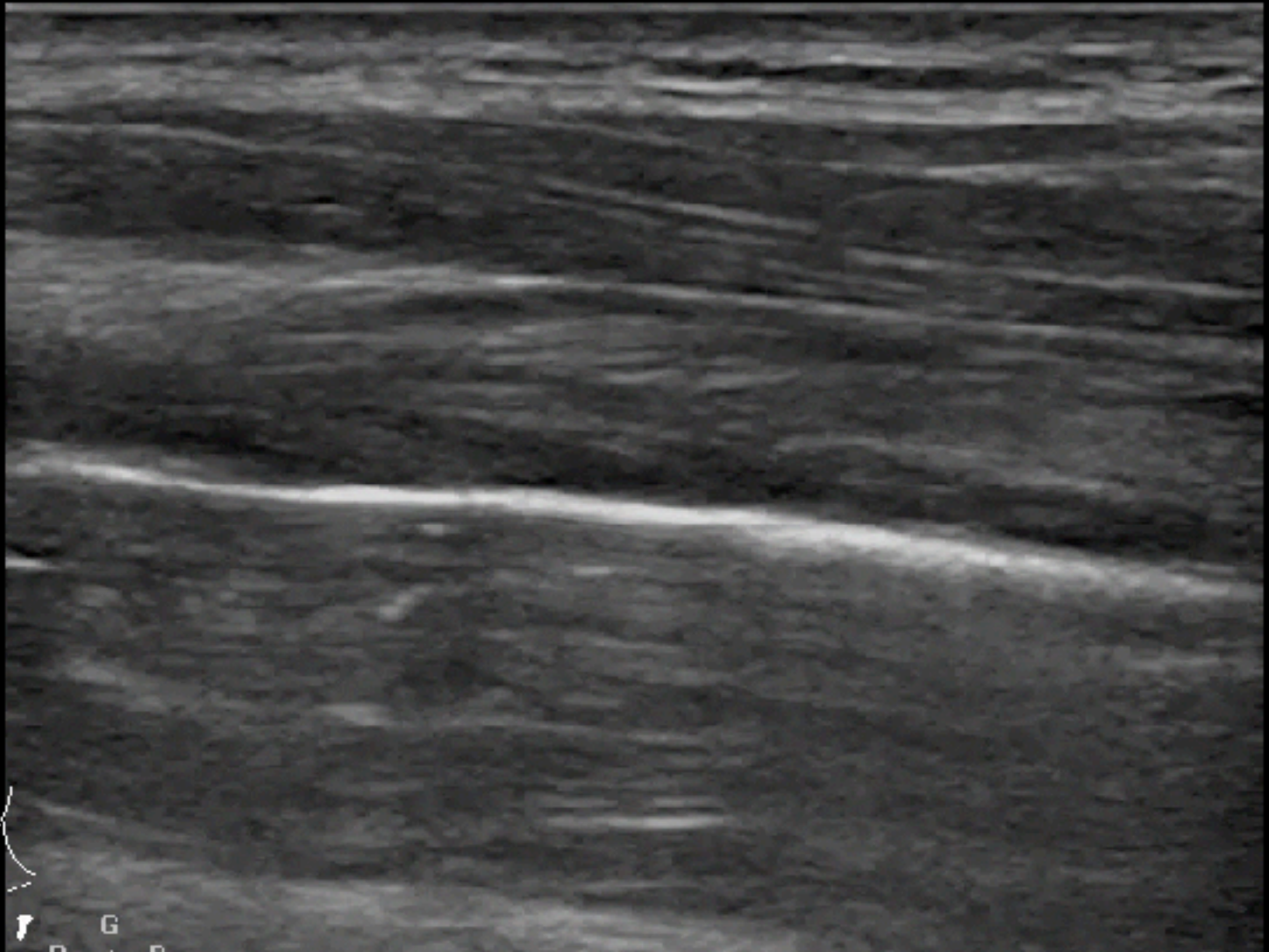


Lung point

Superficial
2-3
Hz
0cm

P

en
n 60
52
/ 3 / 2

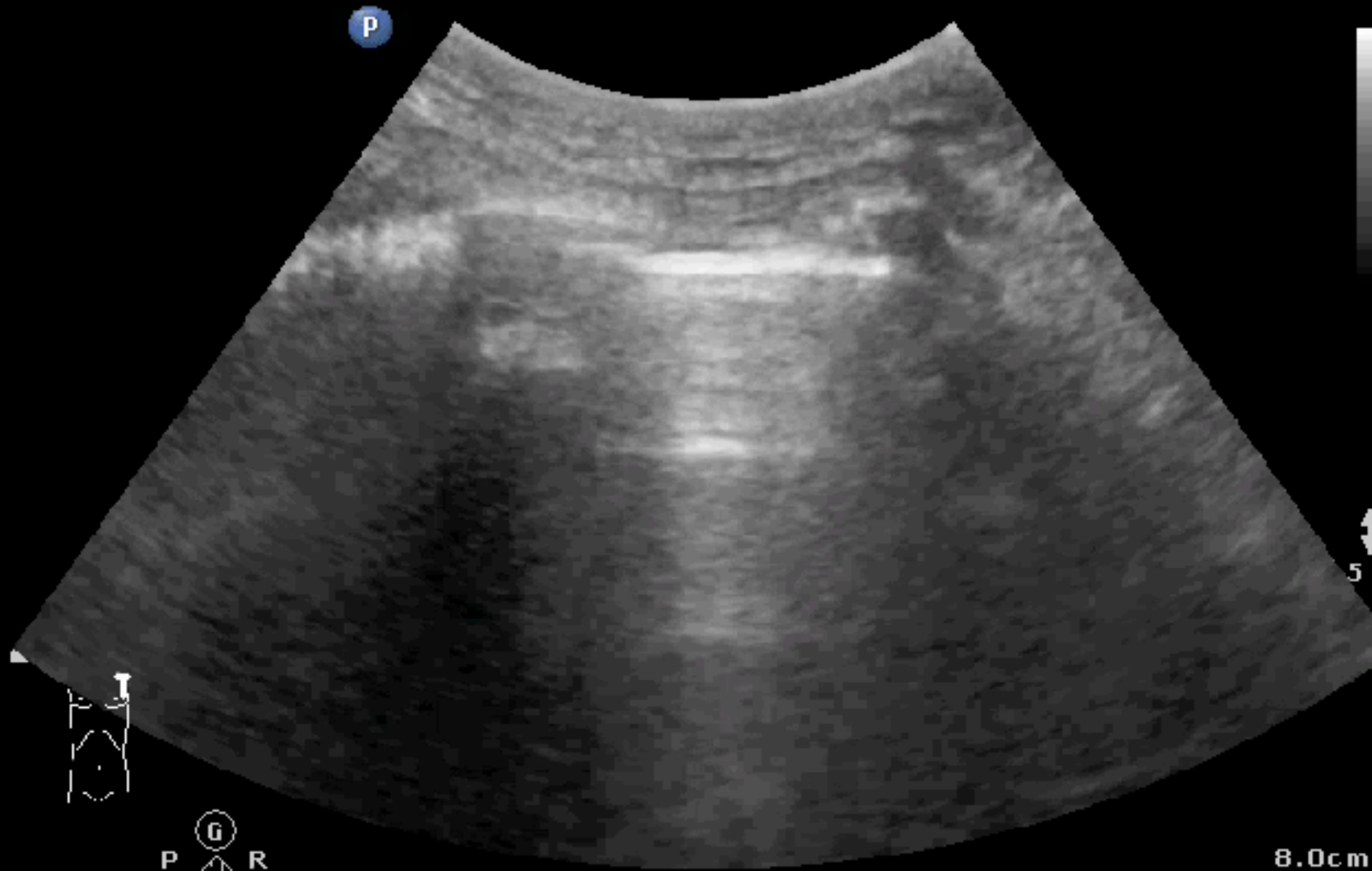


G
P
P

No lung sliding & pulse

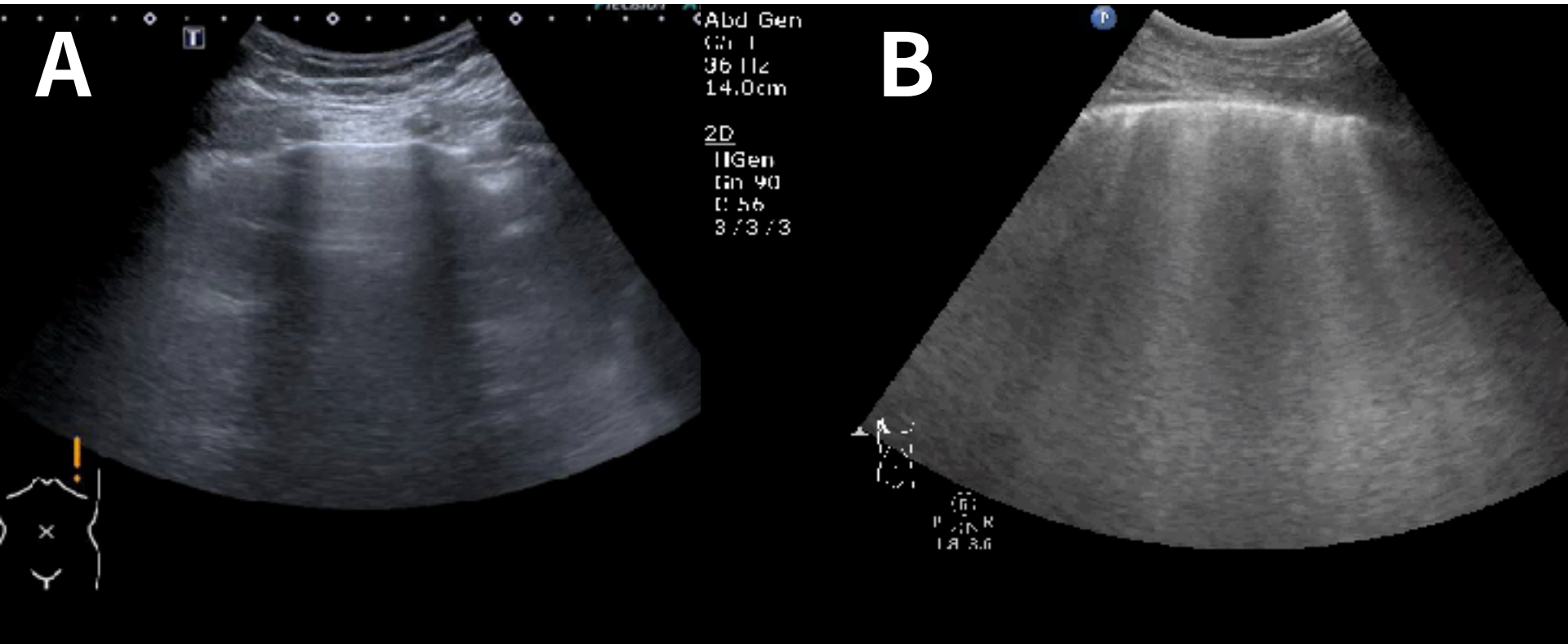
Abd Gen2
5-1
1 Hz
3.0cm

D
HGen
Gn 90
C 56
3/3/3



8.0cm

Dry verses Wet lung



PTX

SBP Point

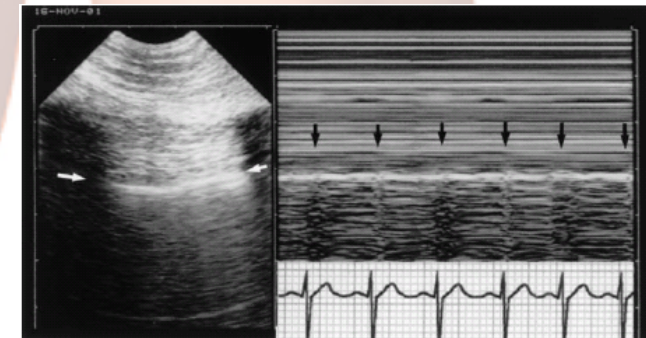
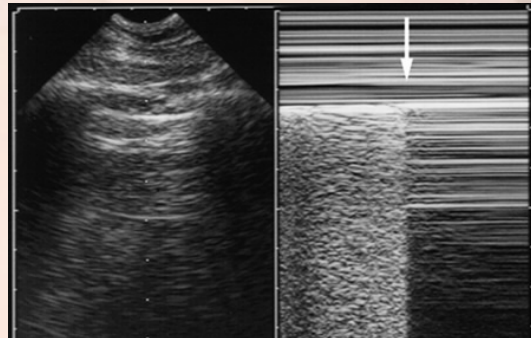
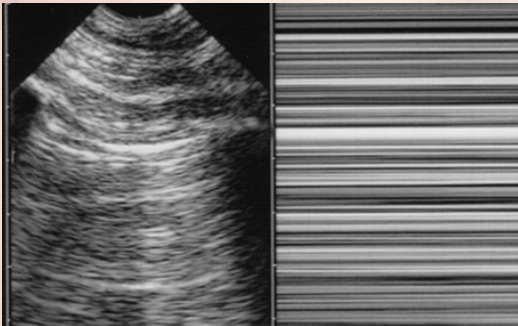
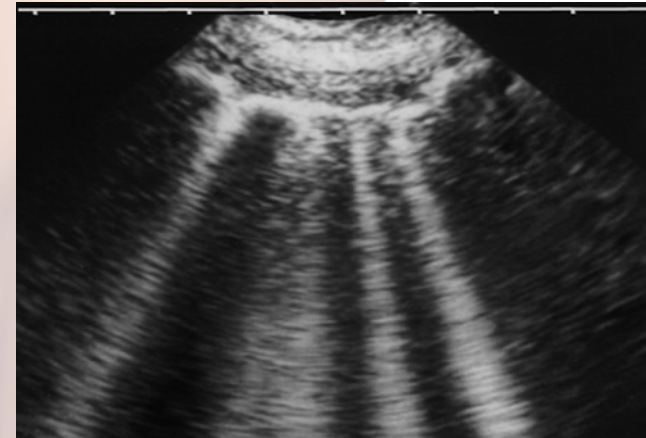
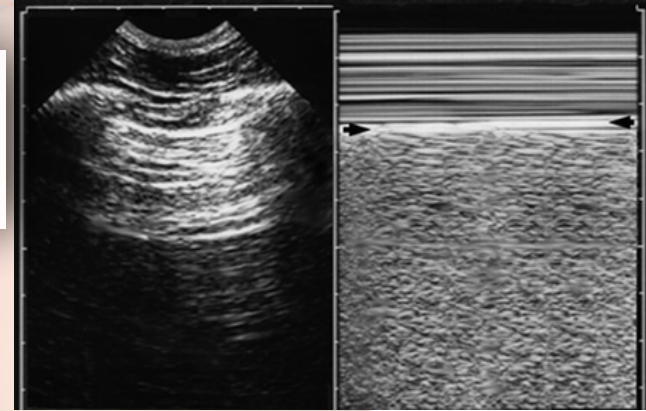
4

No sliding

No B lines

No pulse

Lung point

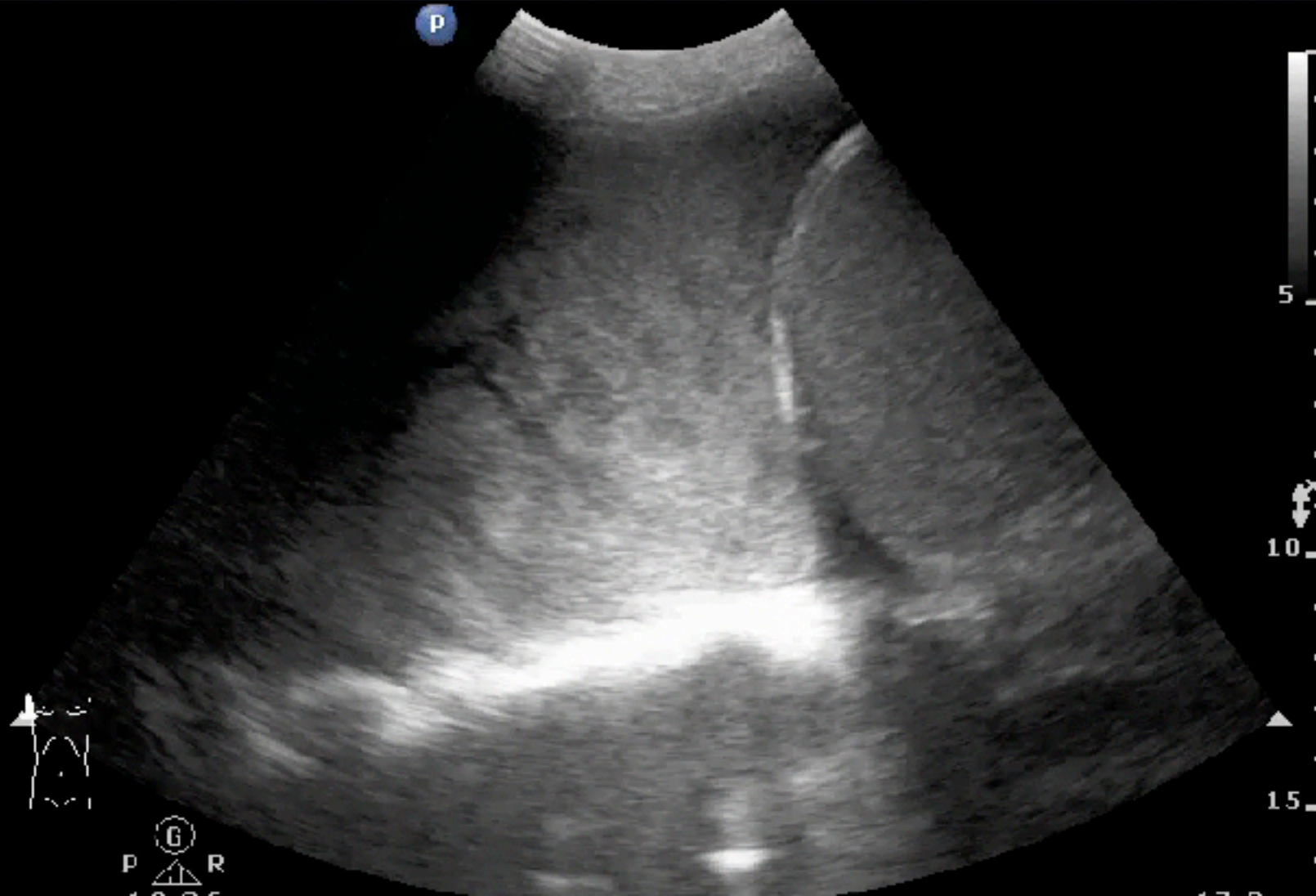


Hemothorax

Abd Gen
C5-1
31 Hz
17.0cm

2D

HGen
Gn 90
C. 56
3 / 3 / 3



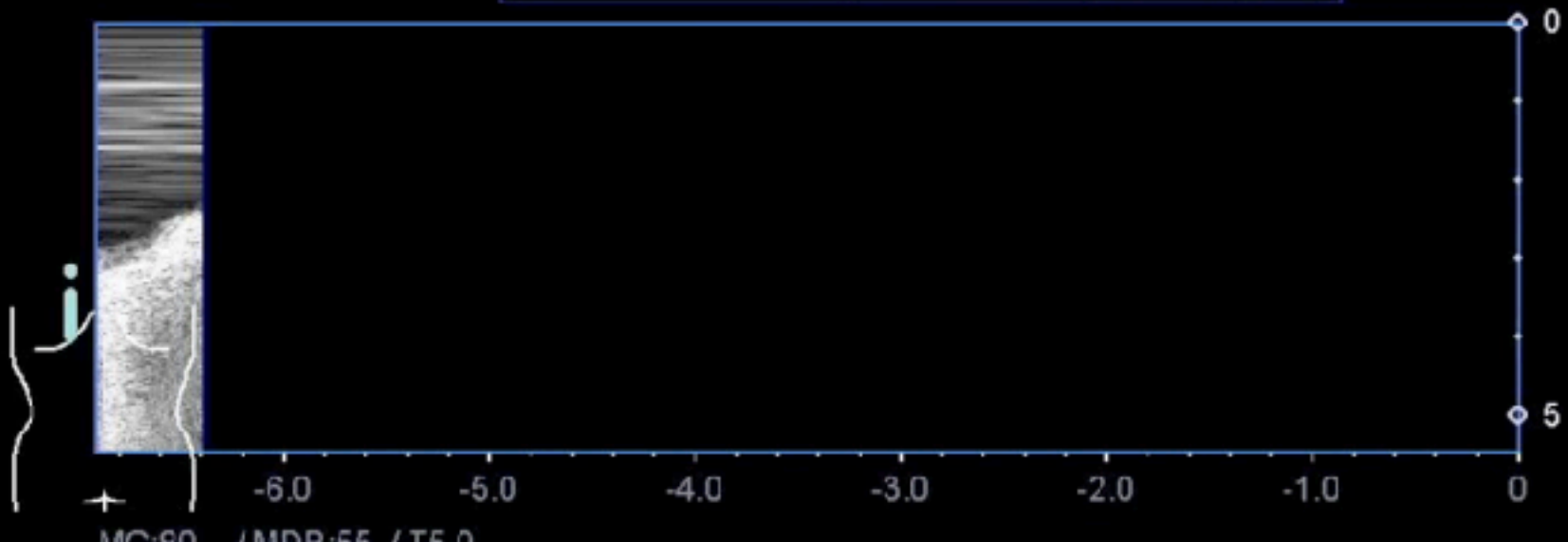
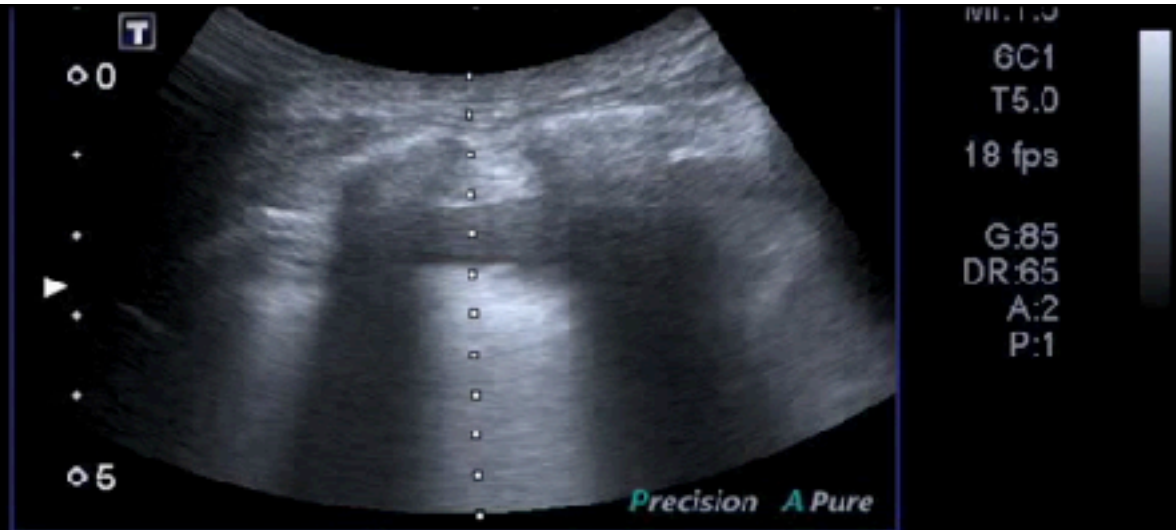
Hemothorax

od Gen
S-1
Hz
.0cm

Gen
n 79
56
/3 /3



Quad sign/ Sinusoid sign



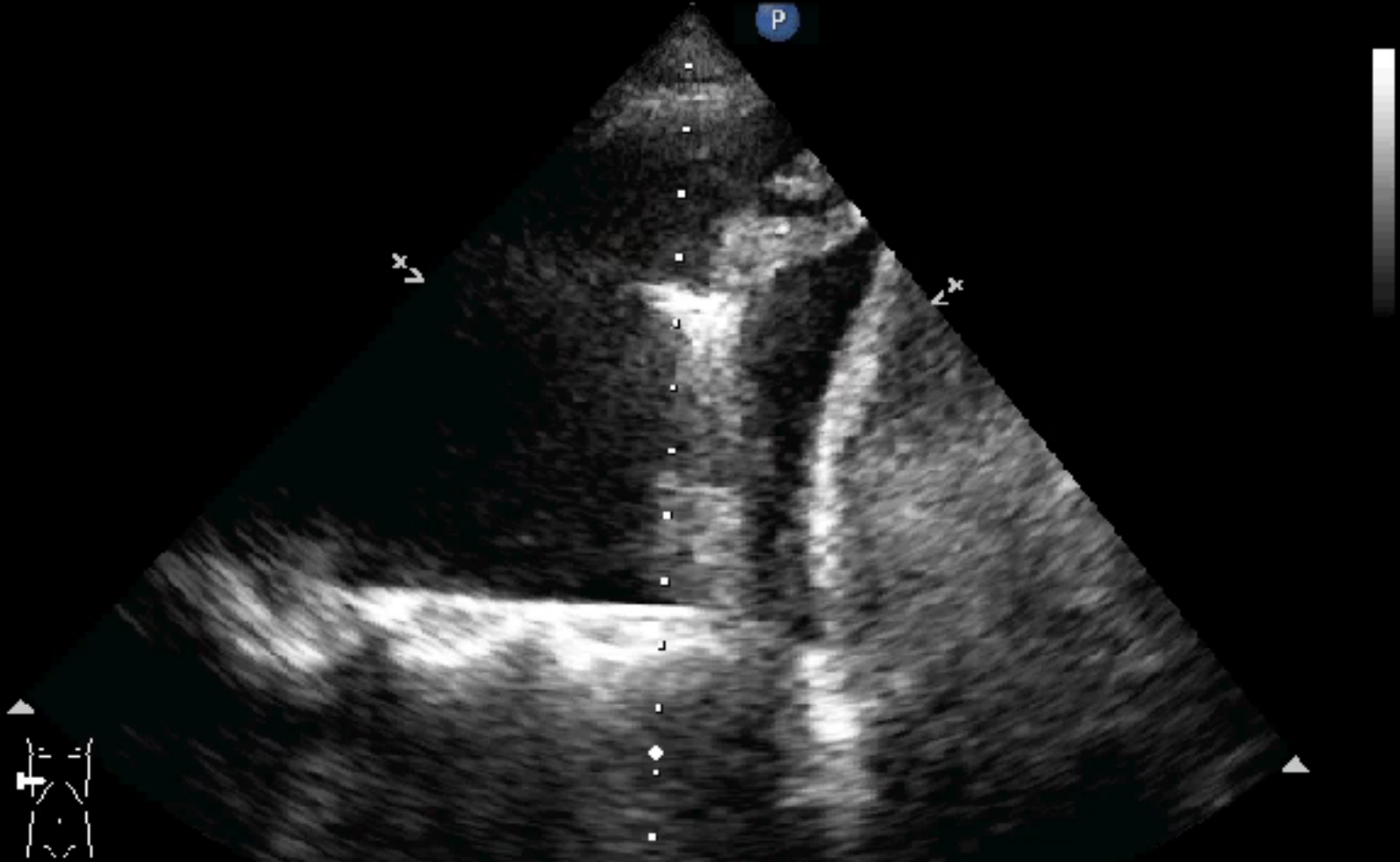
Spine/ Jellyfish/Curtain (-)

PHILIPS

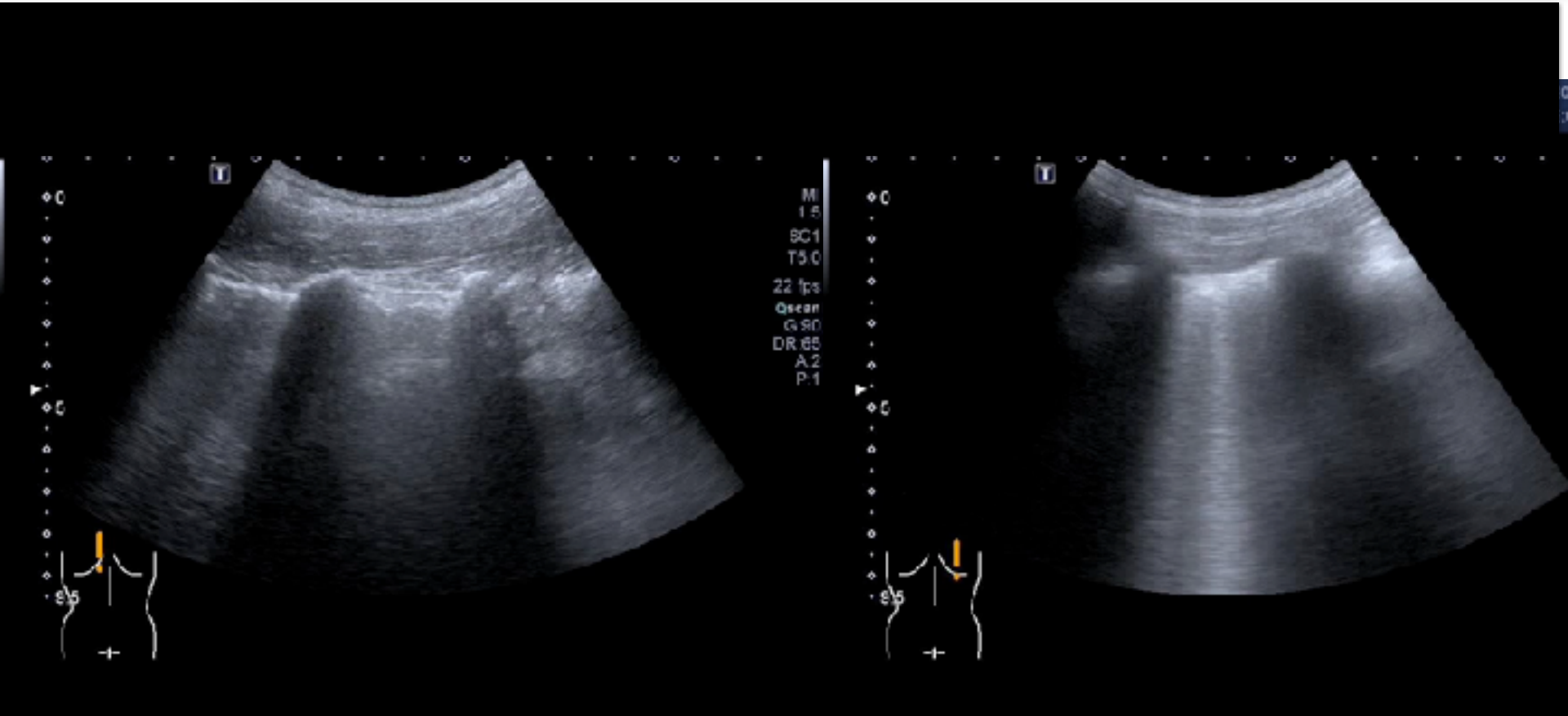
SKH-EUTCC©ChenKC

Adult Echo2
S5-1
33 Hz
15.0cm

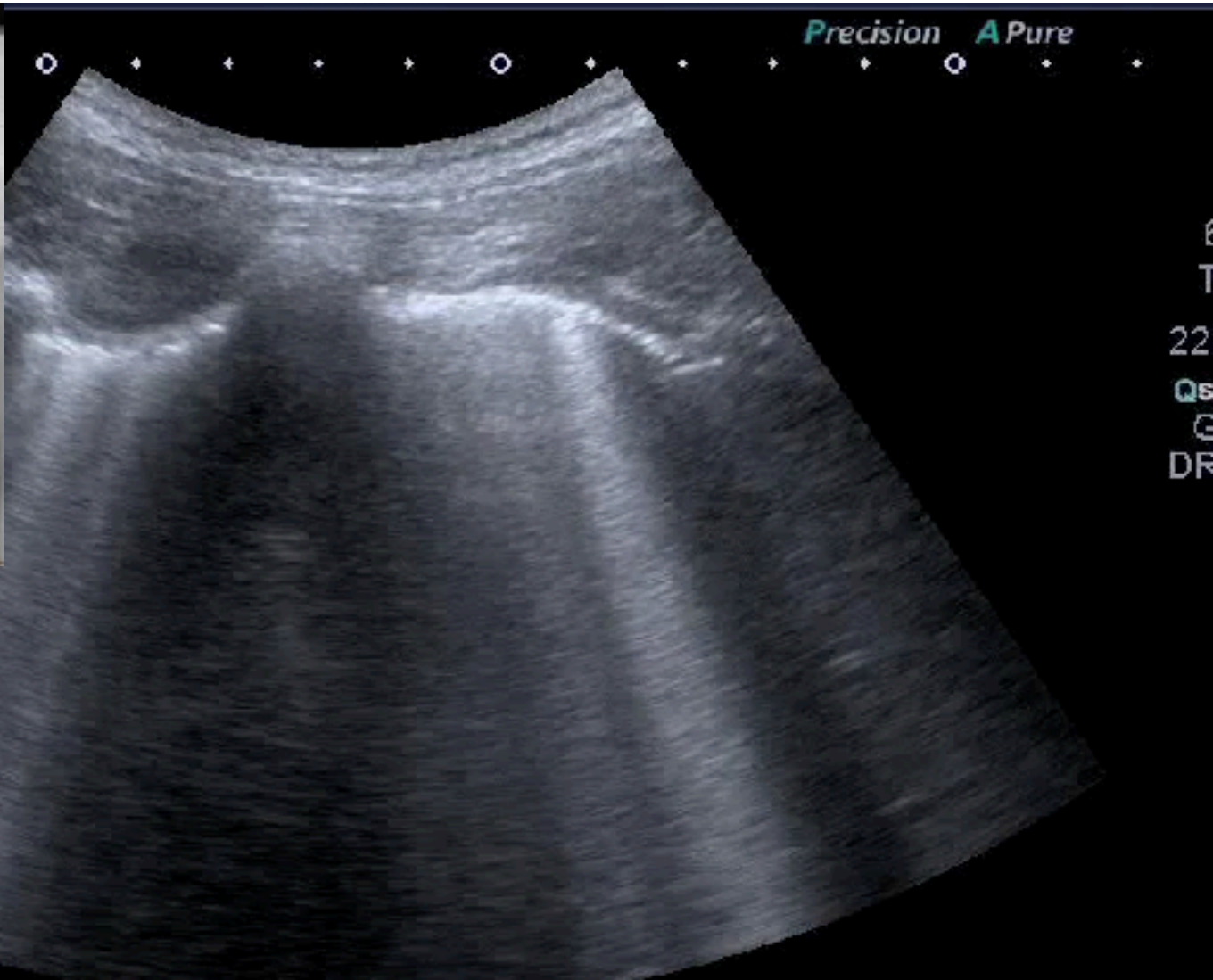
2D
HGen
Gn 30
C 50
3/2/0



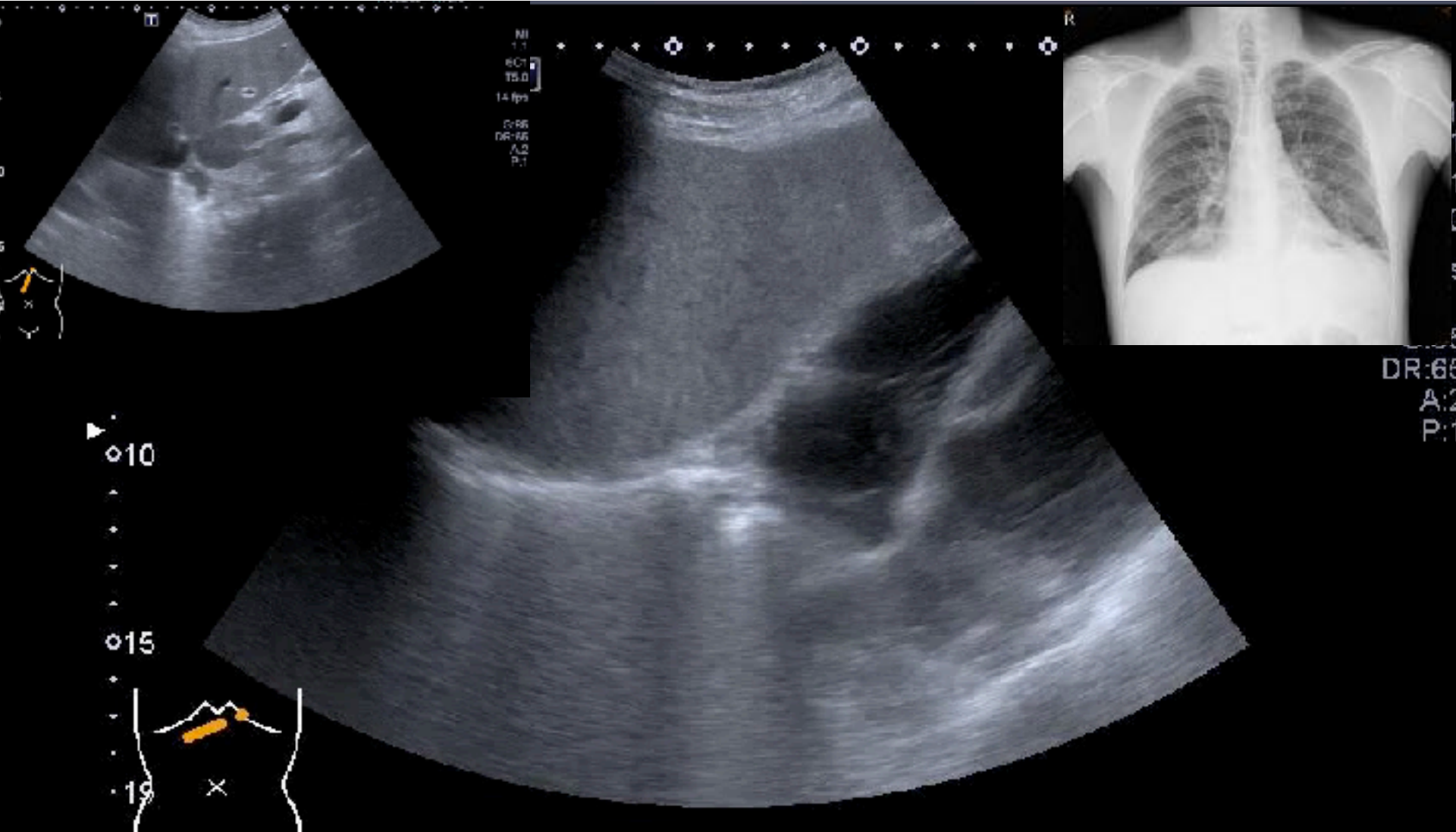
33F, F & chills , for APN survey

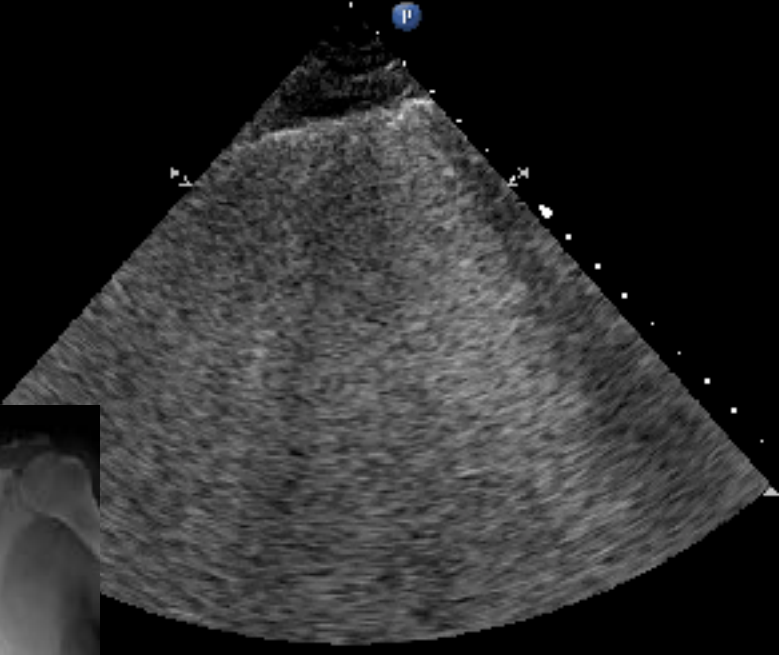
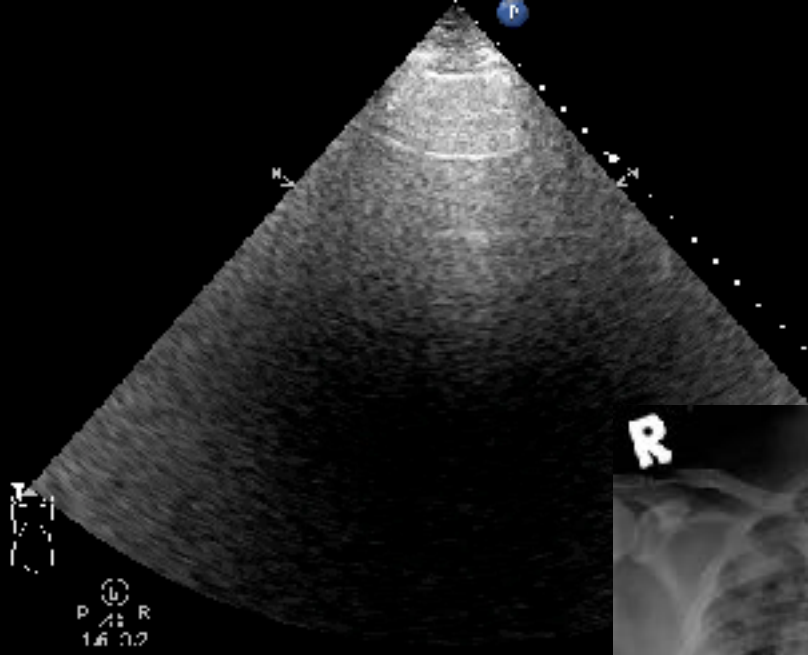


RLL pneumonia

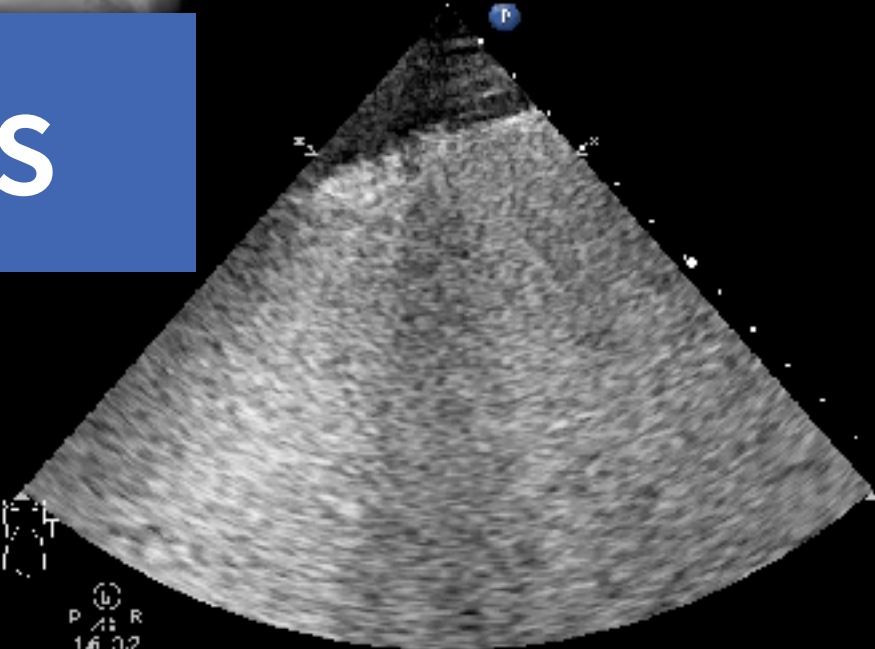
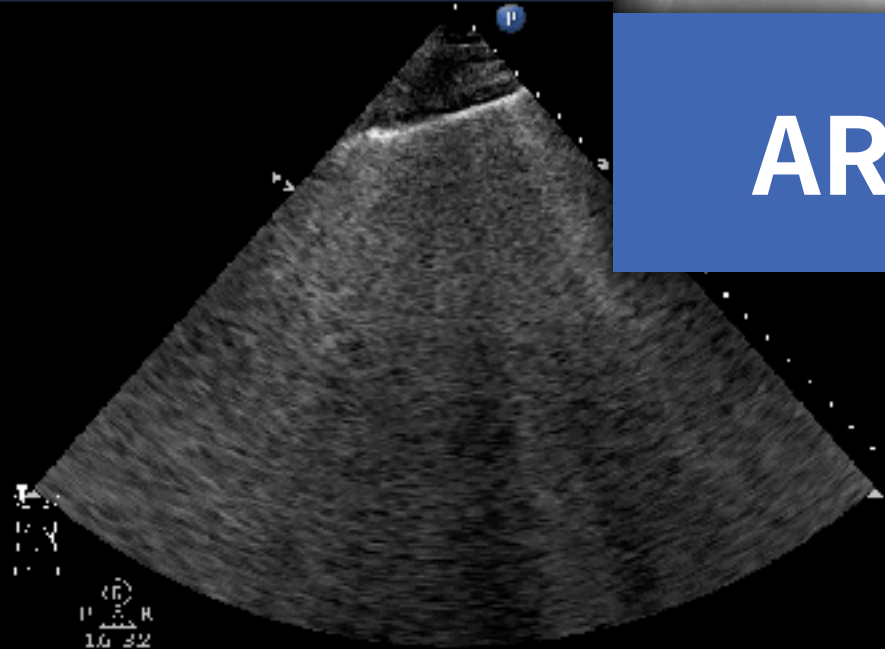


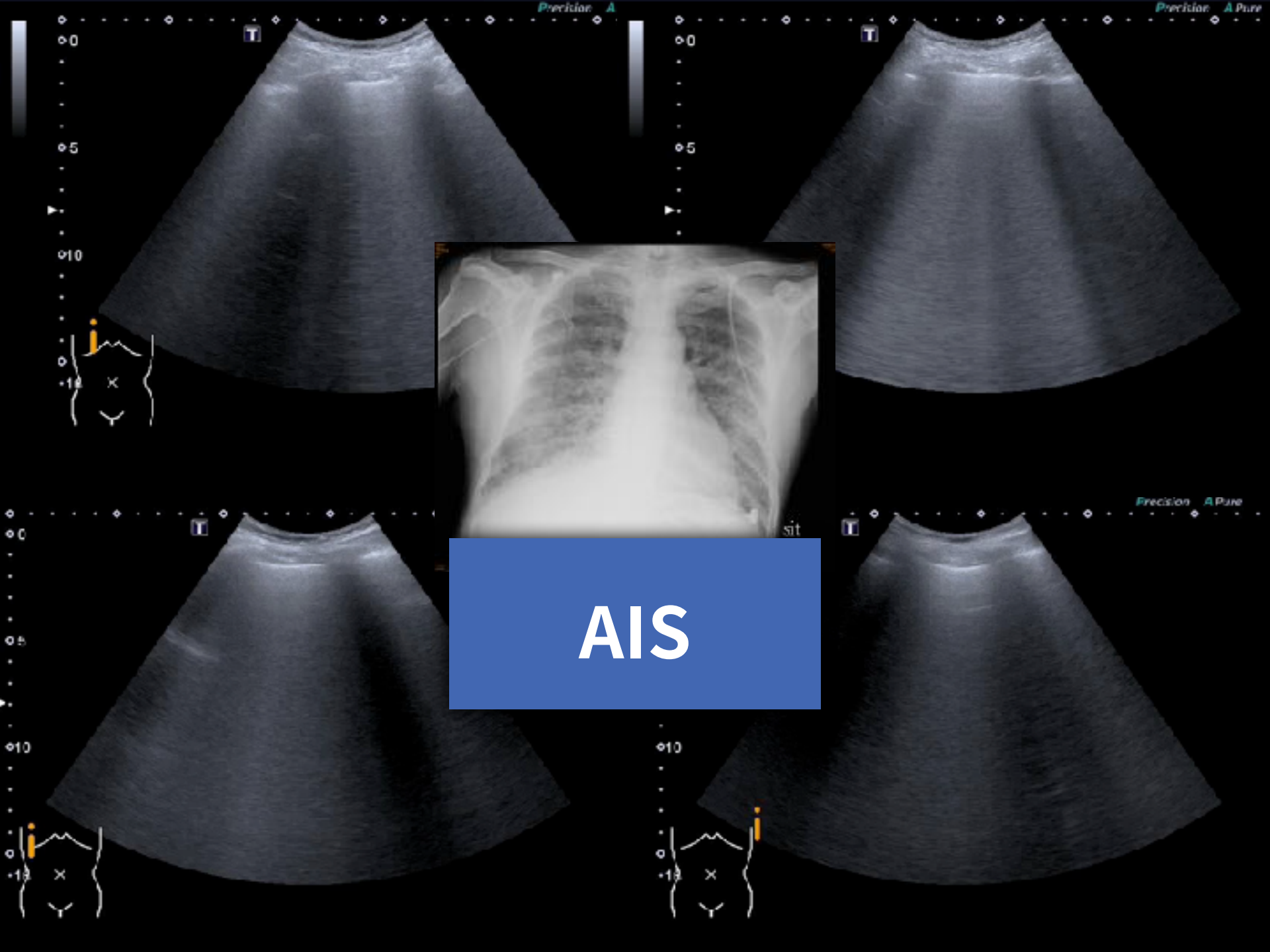
51M, Epigastric pain & CPR 8.5





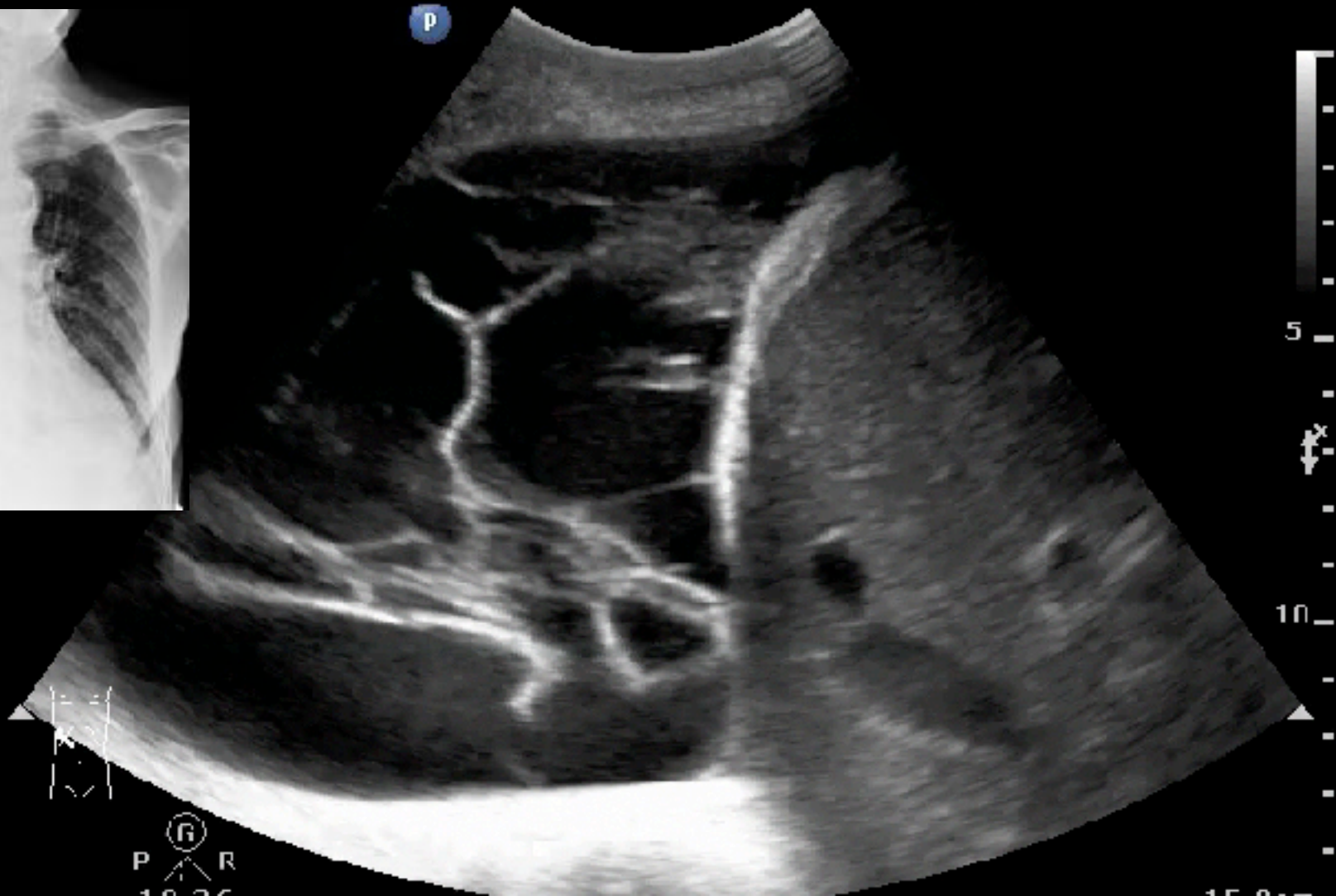
ARDS





AIS

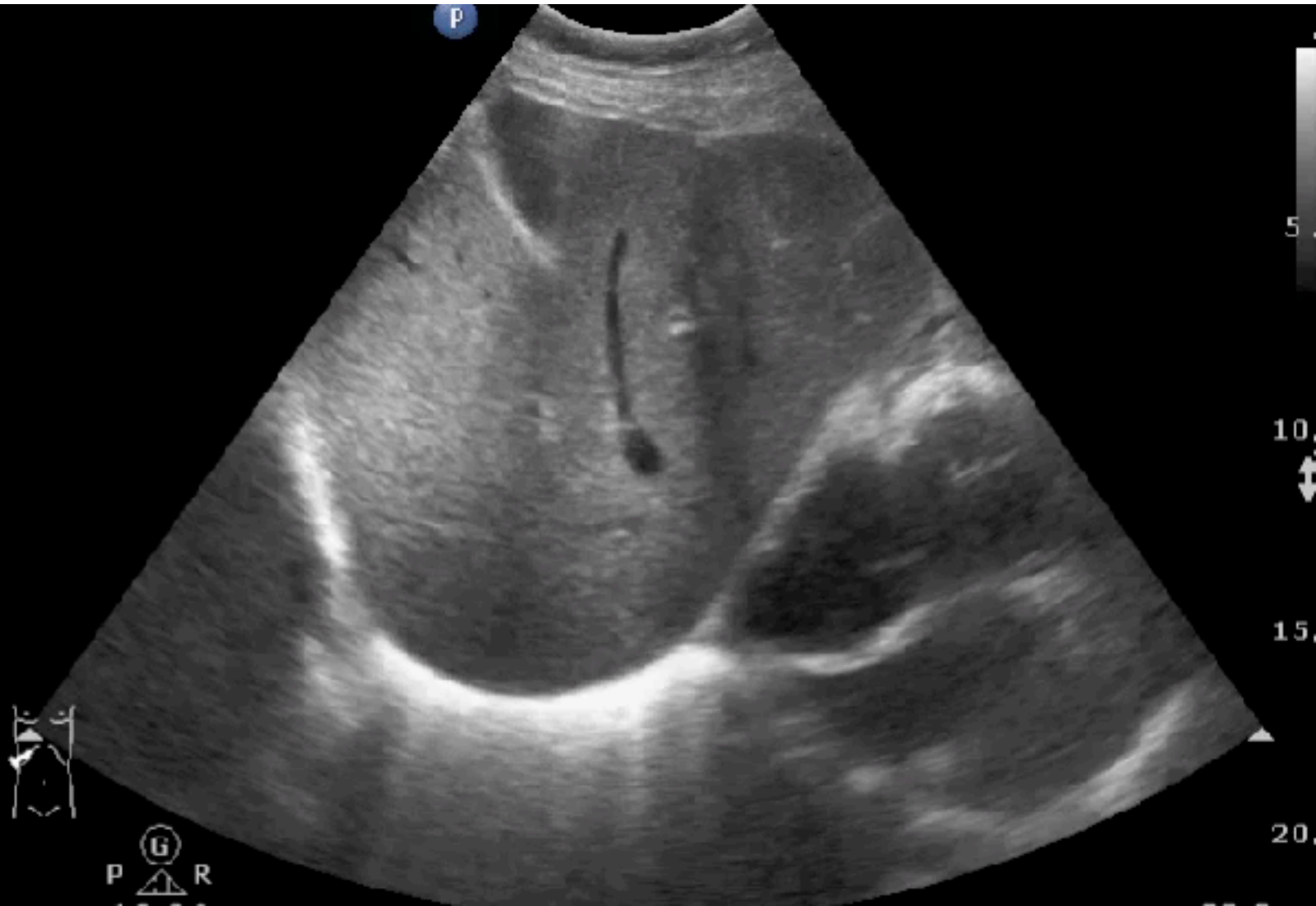
Empyema



Infection source

Abd Gen2
:5-1
:5 Hz
:2.0cm

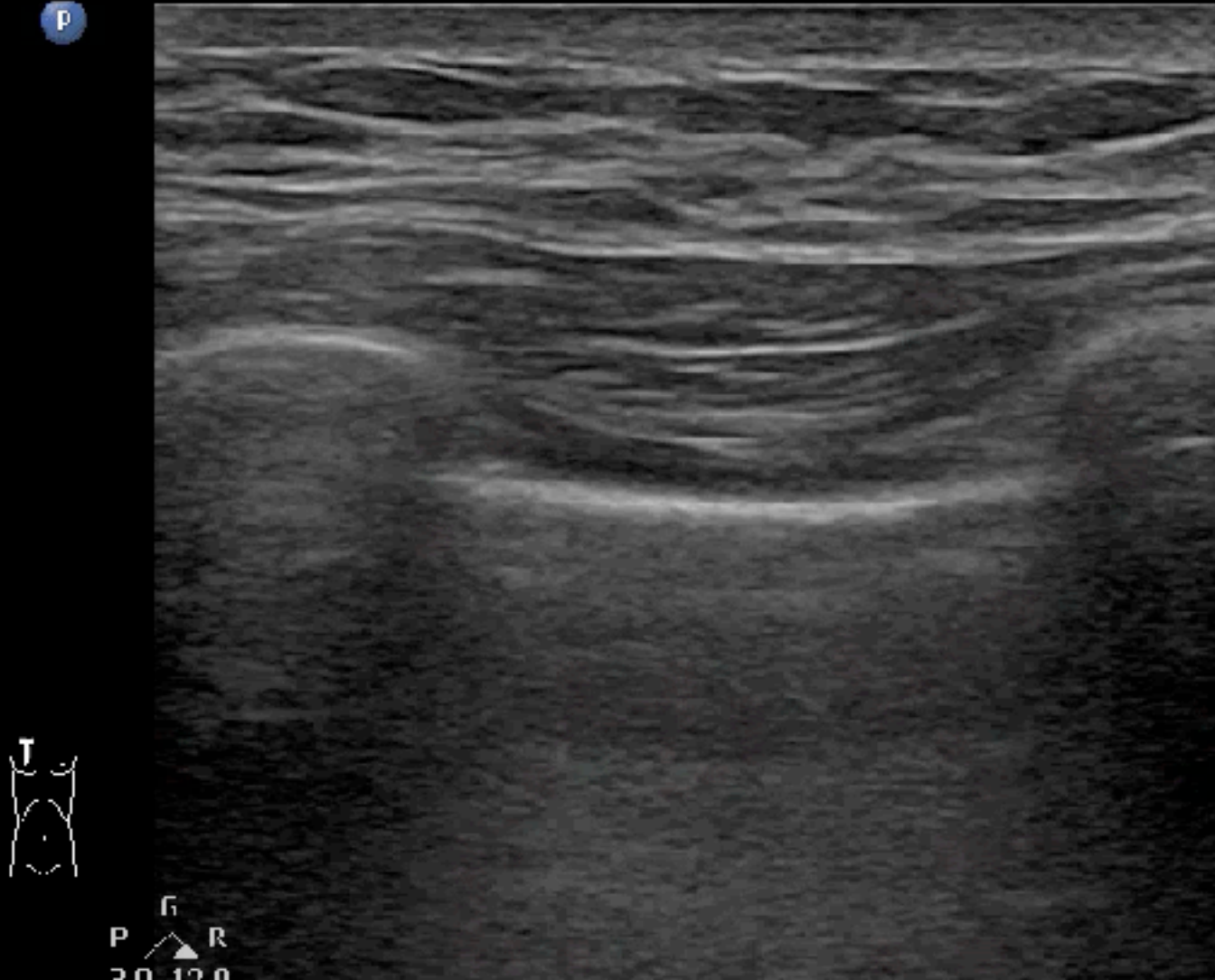
D
HGen
Gn 97
C 56
3/3/3



Chest contusion

Superficial
L12-3
46 Hz
3.5cm

2D
Res
Gn 60
C. 56
3 / 2 / 1

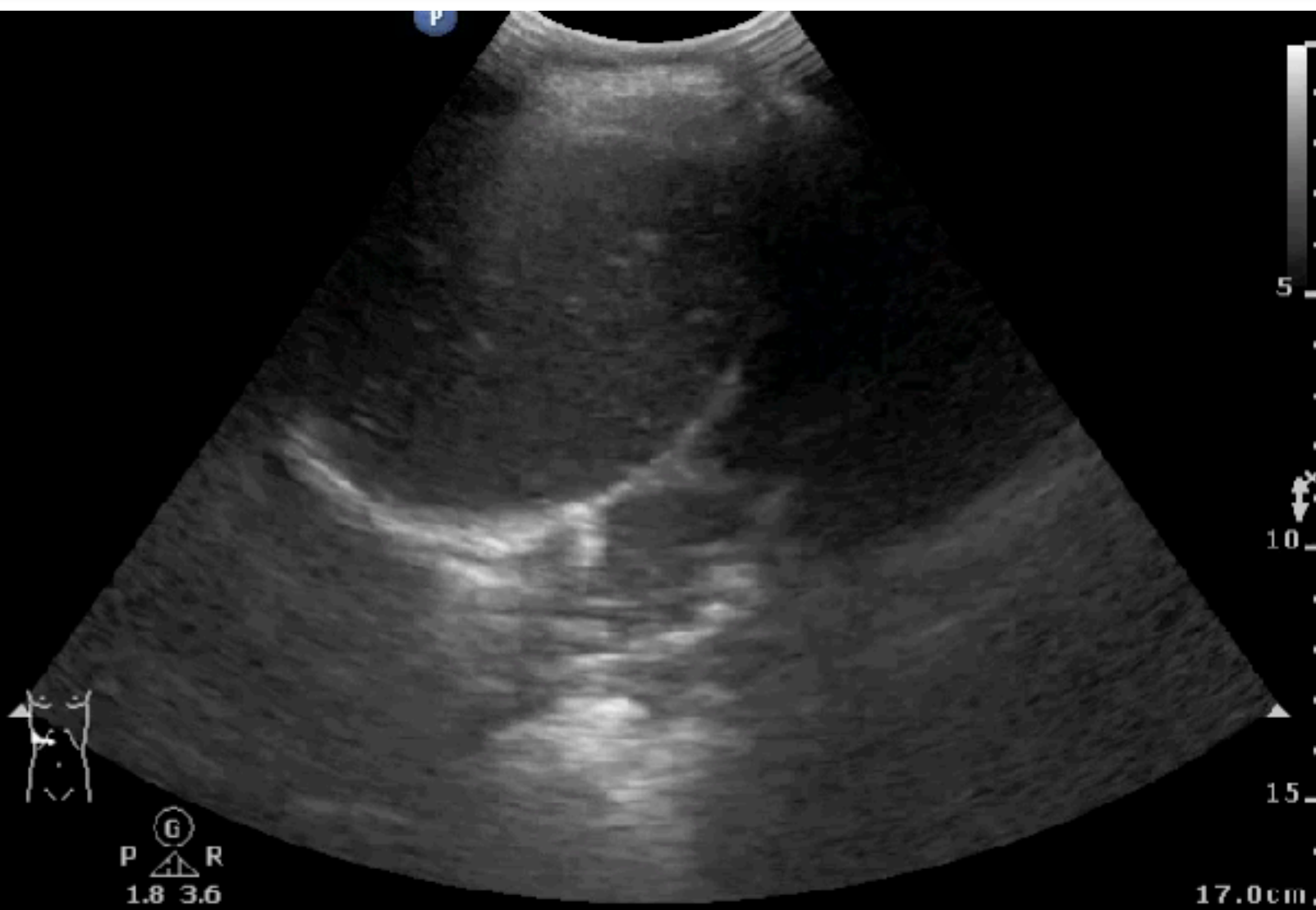


Infection focus

Abd Gen2
C5-1
31 Hz
17.0cm

2D

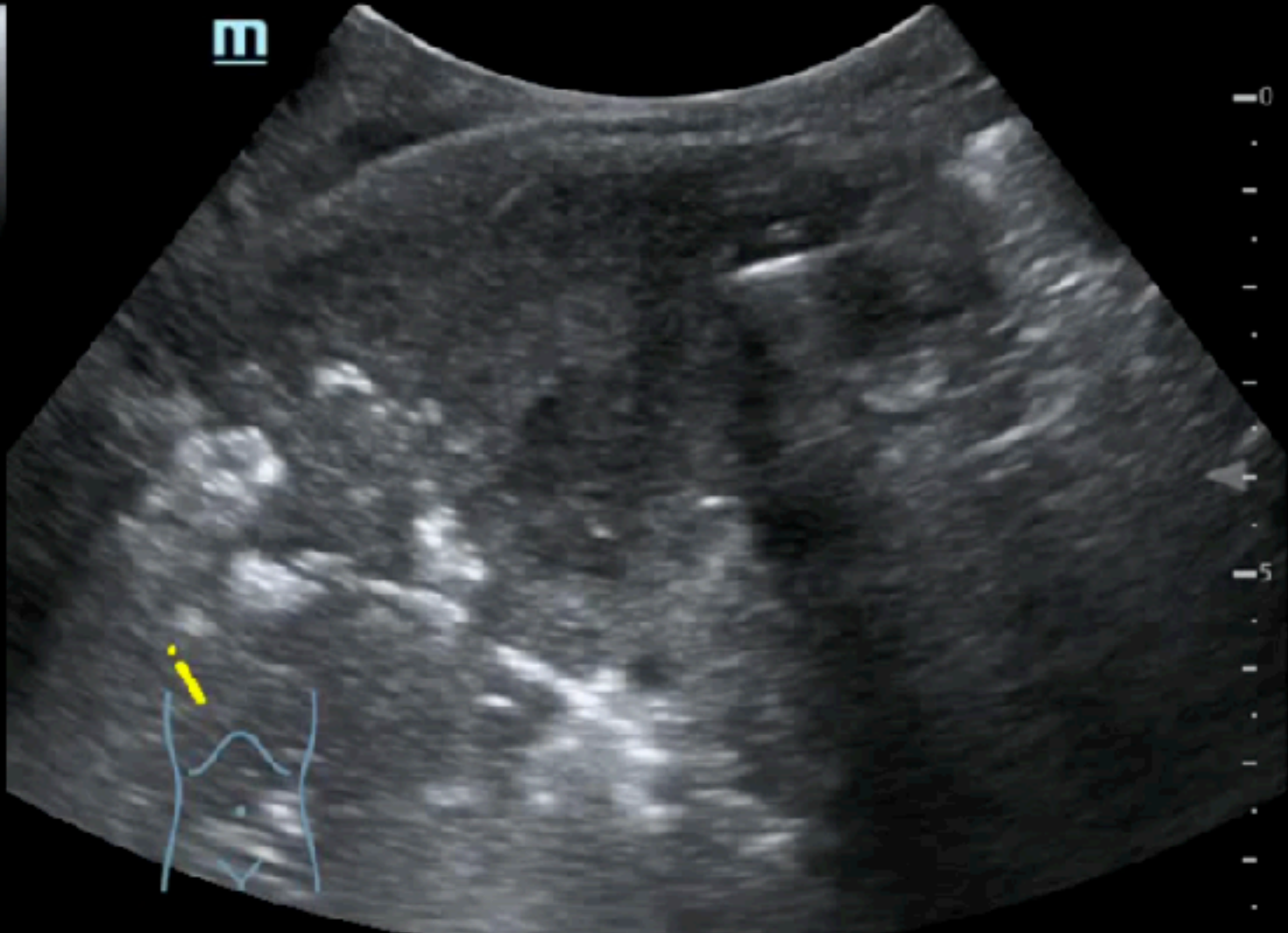
HGen
Gn 100
C 56
3 / 3 / 3



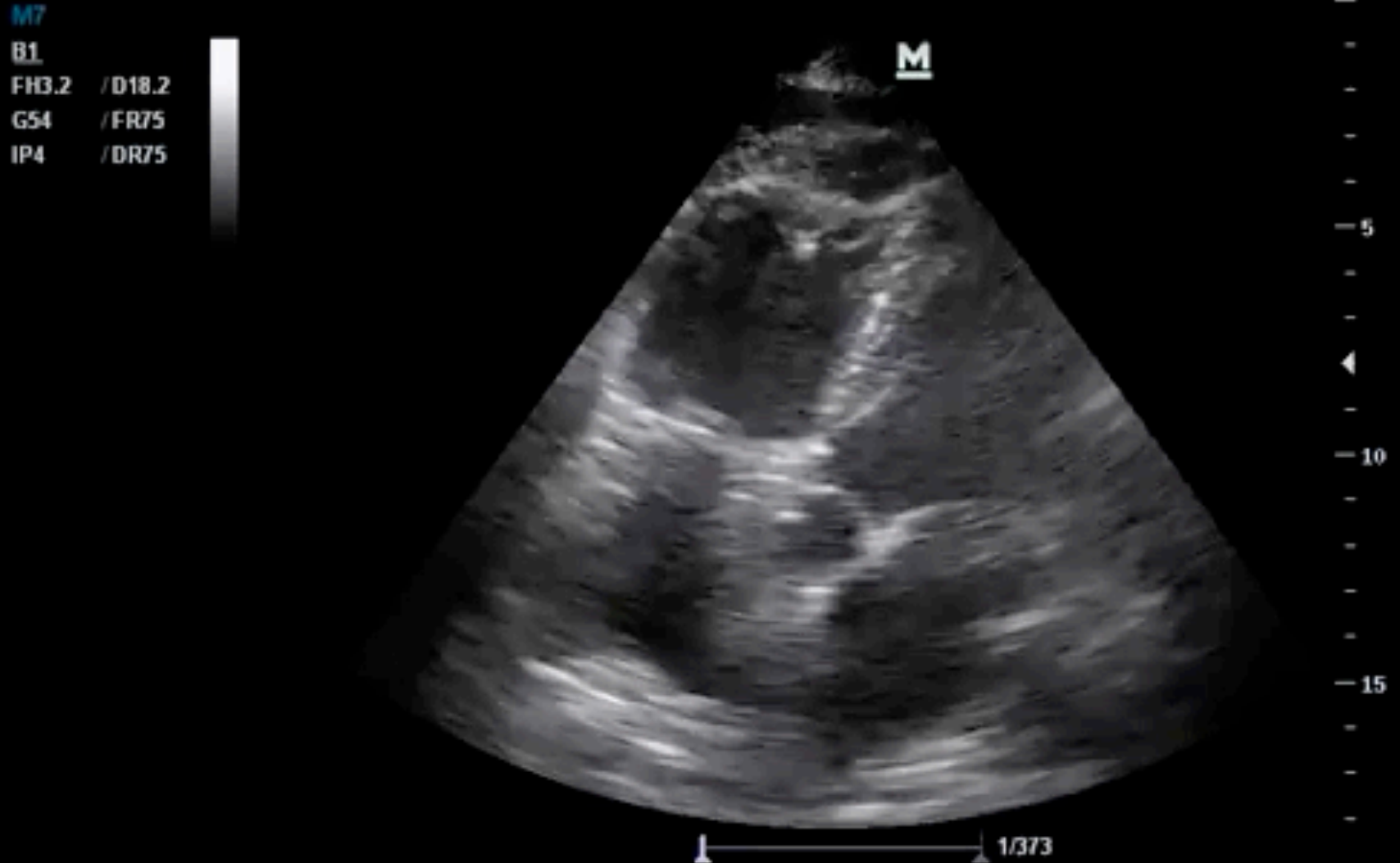
Infection focus

TIS 0.6

B
FH50
DR120
FR32
D9.0
G50



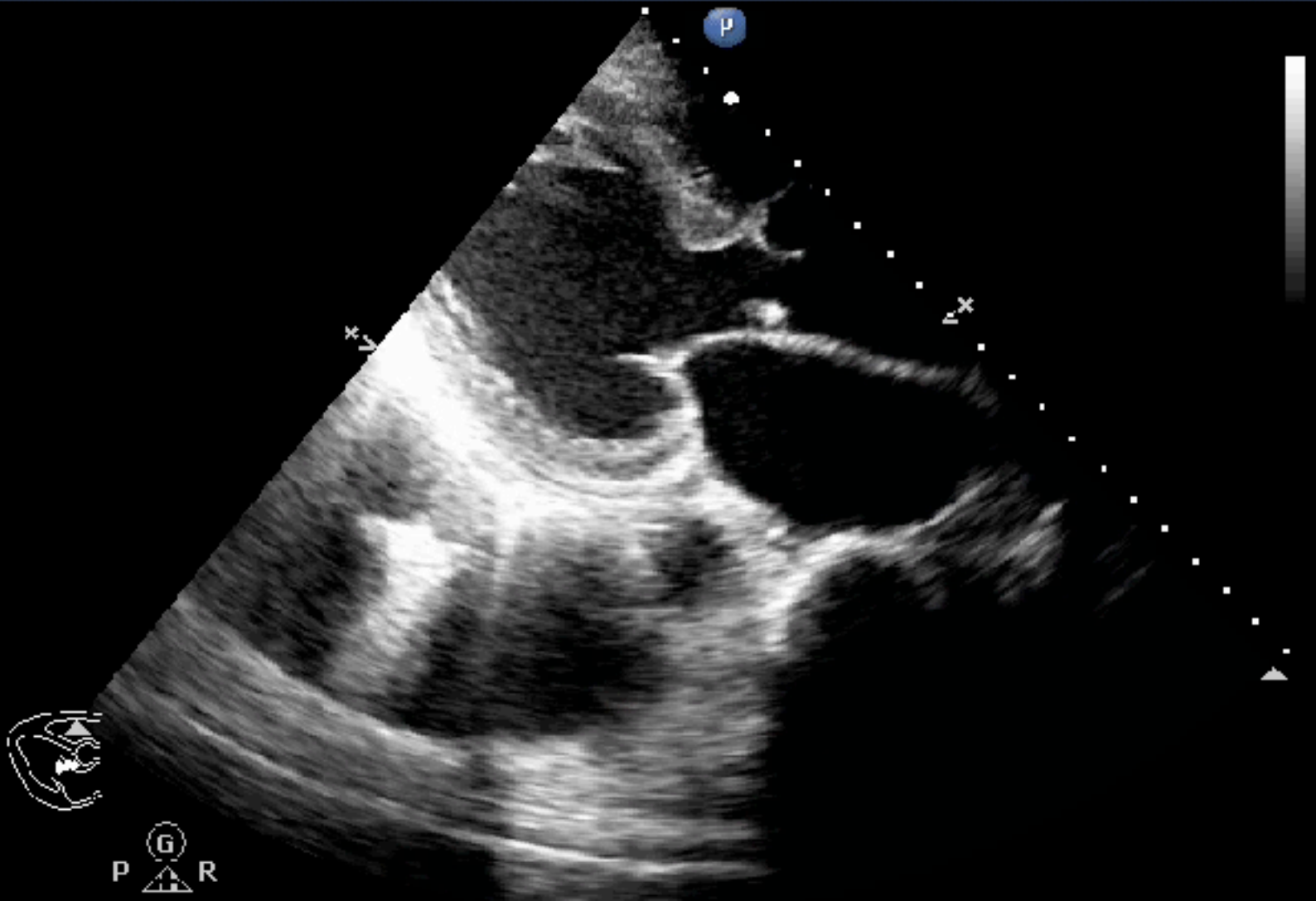
McConnell's sign



Name lesions ?

Adult Echo2
S5-1
25 Hz
21.0cm

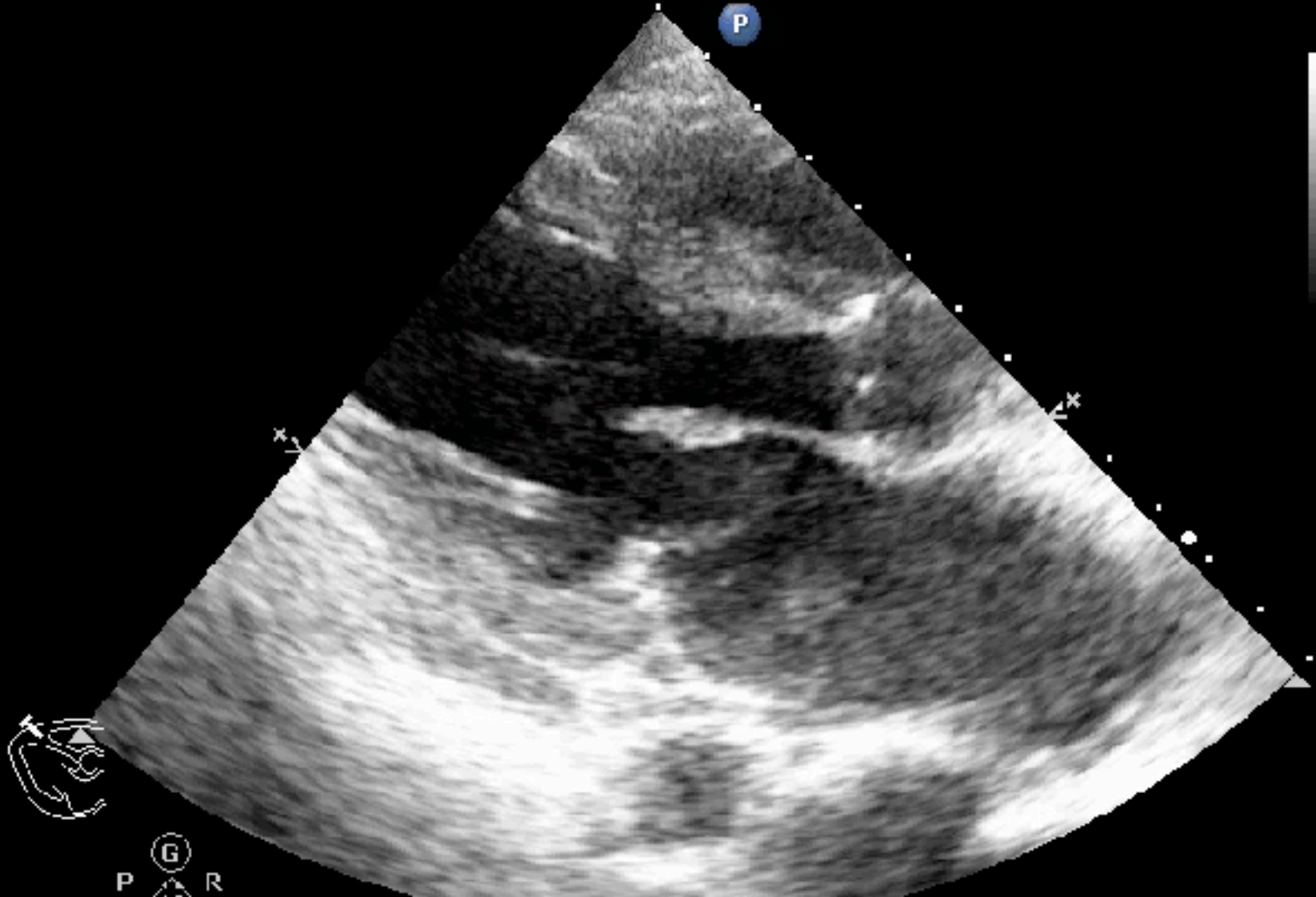
2D
HGen
Gn 31
C 50
3 / 2 / 0



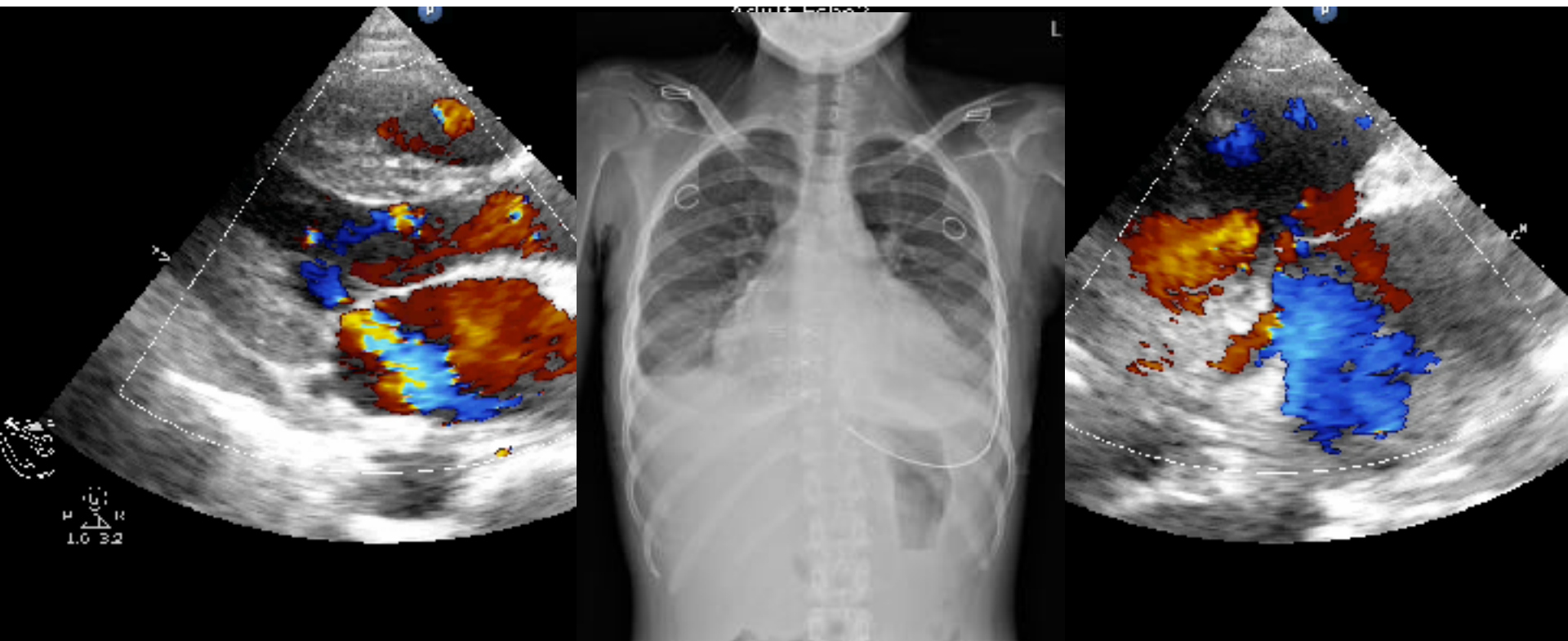
25F, SLE, SOB for 2 days

Adult Echo2
S5-1
37 Hz
13.0cm

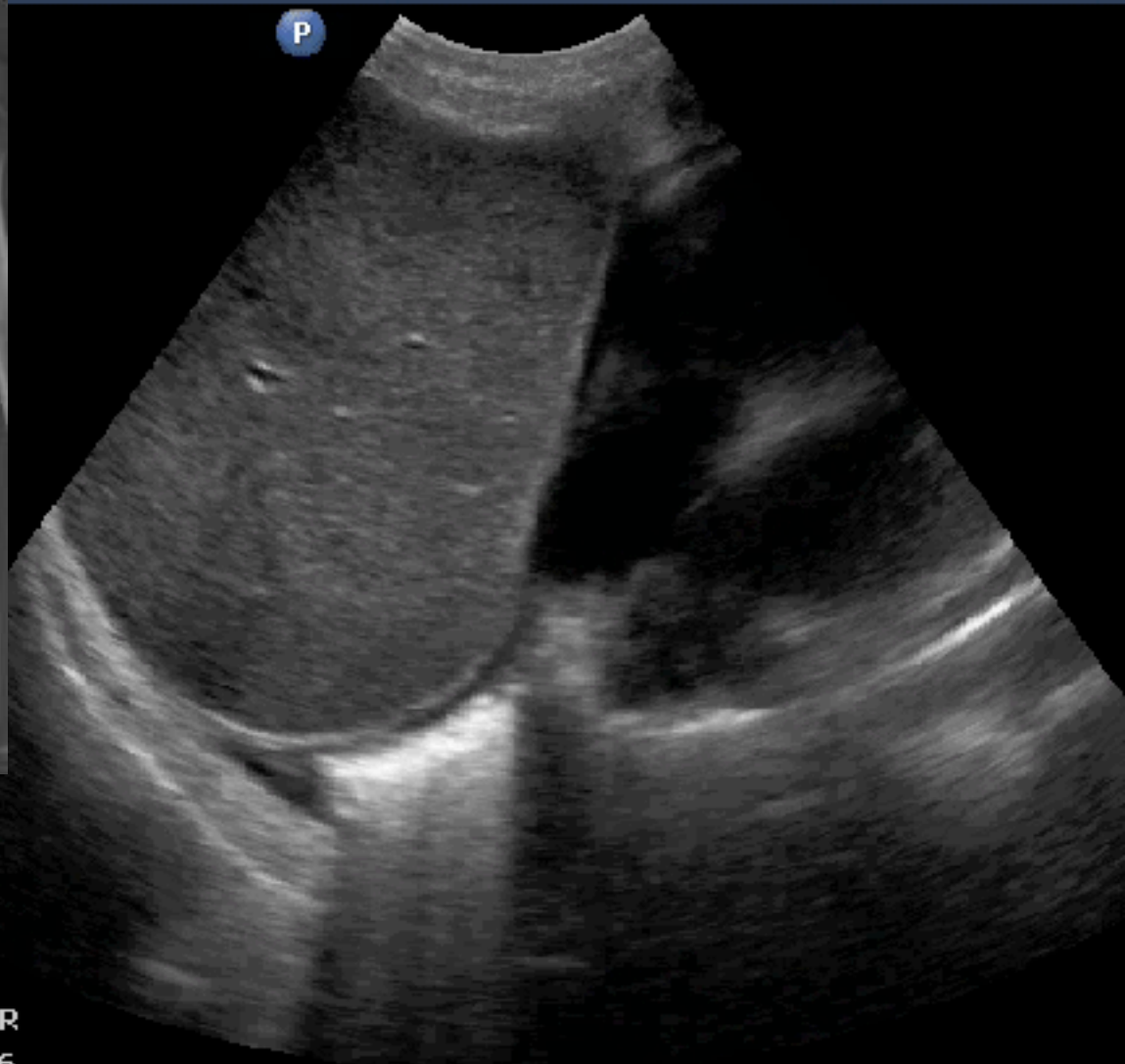
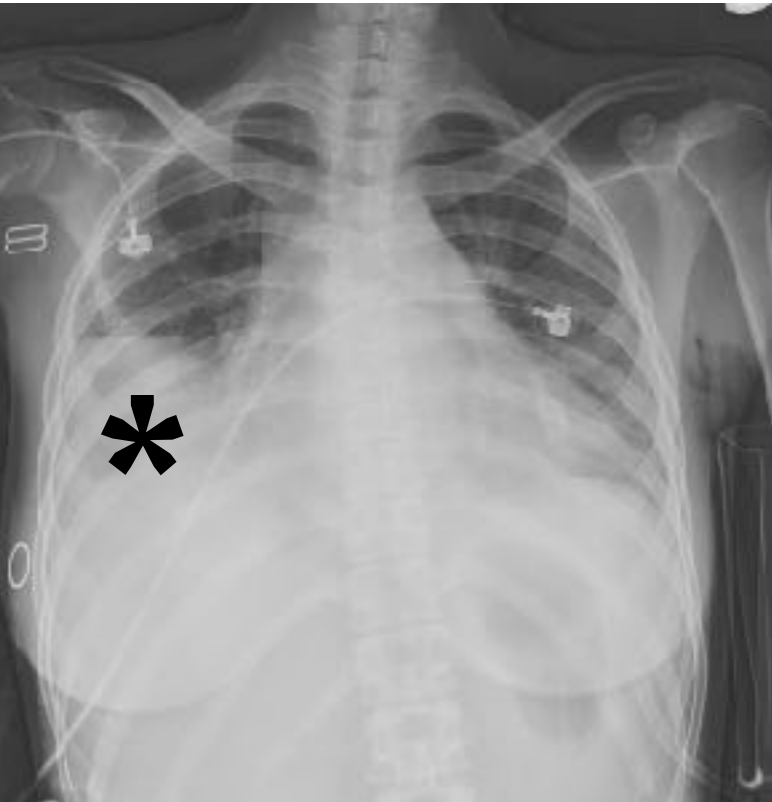
2D
HGen
Gn 69
C 51
3/2/0



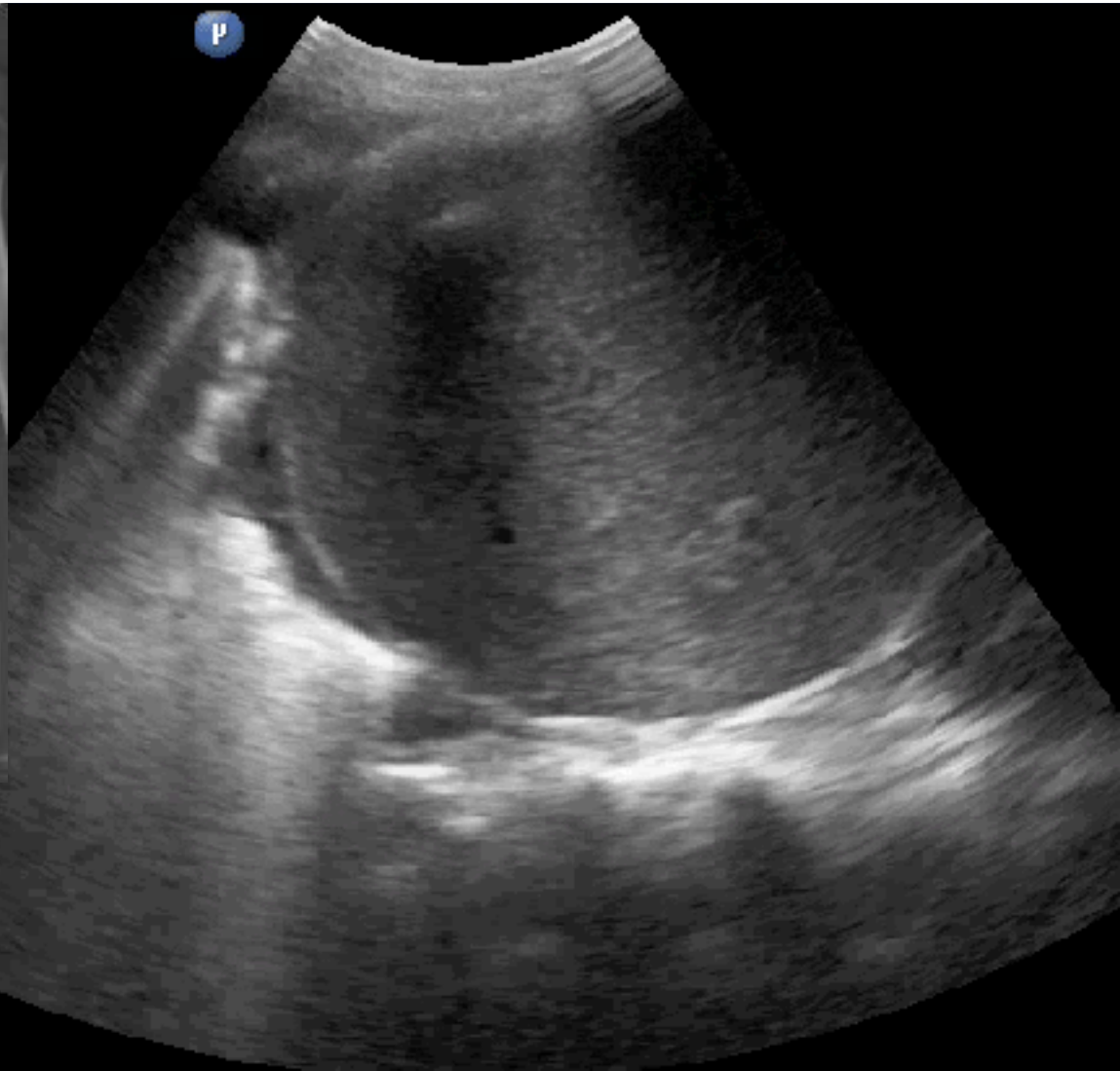
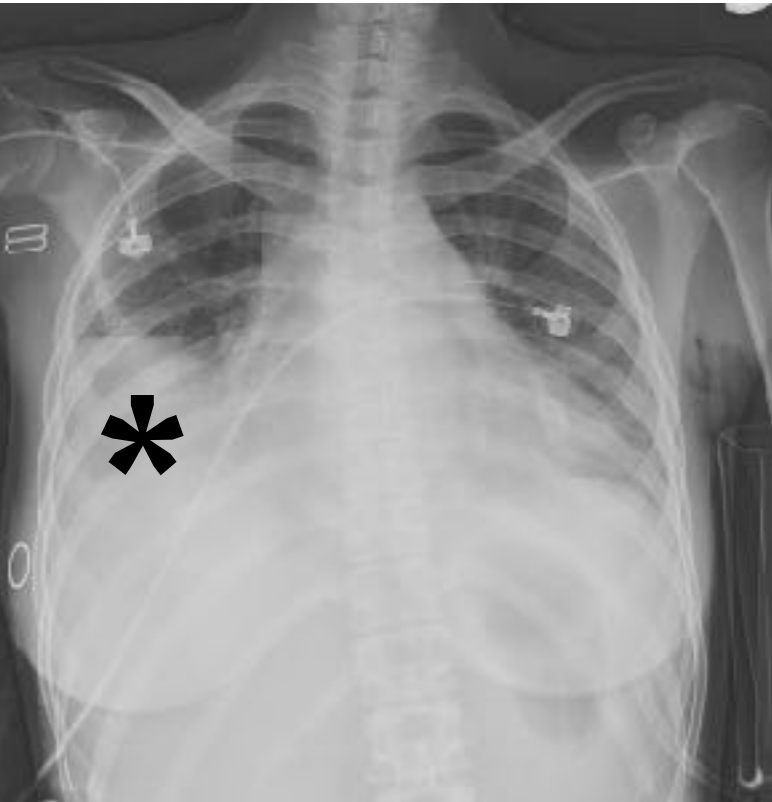
25F, SLE, SOB for 2 days



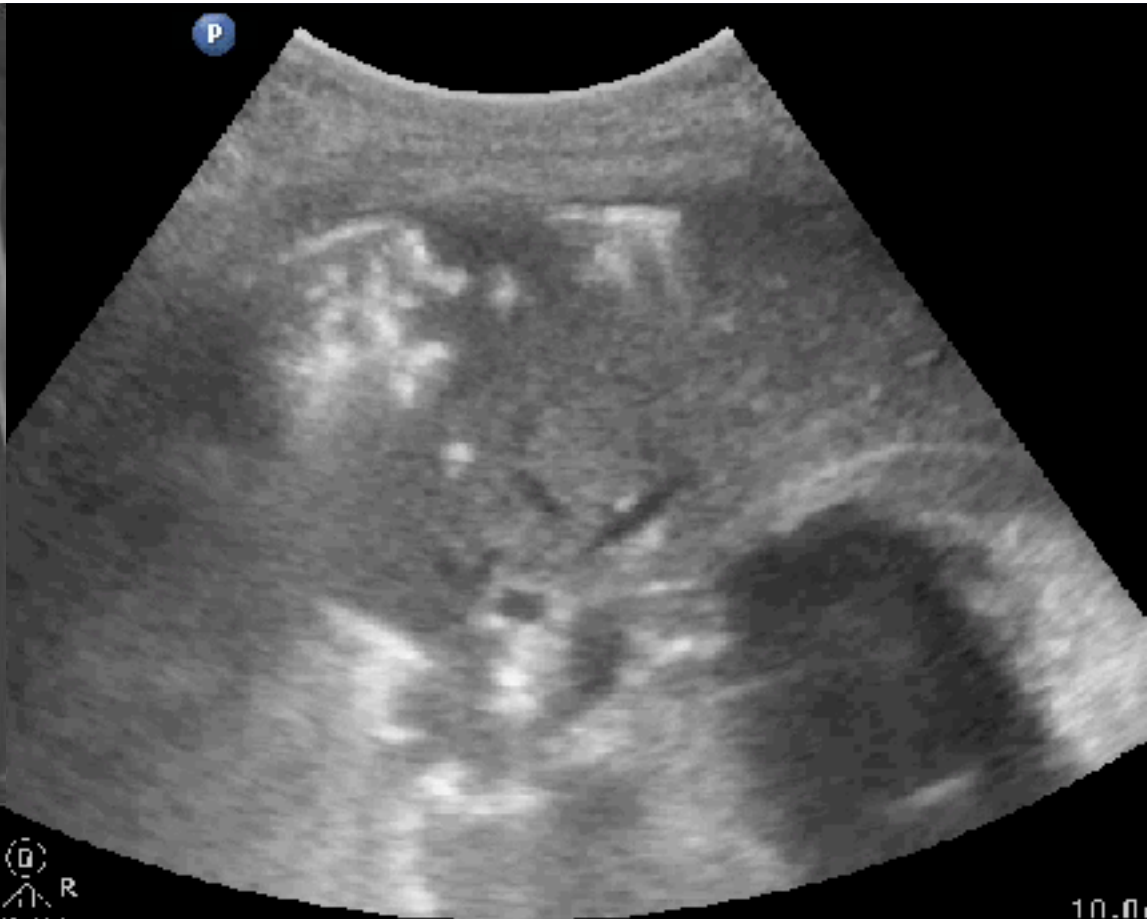
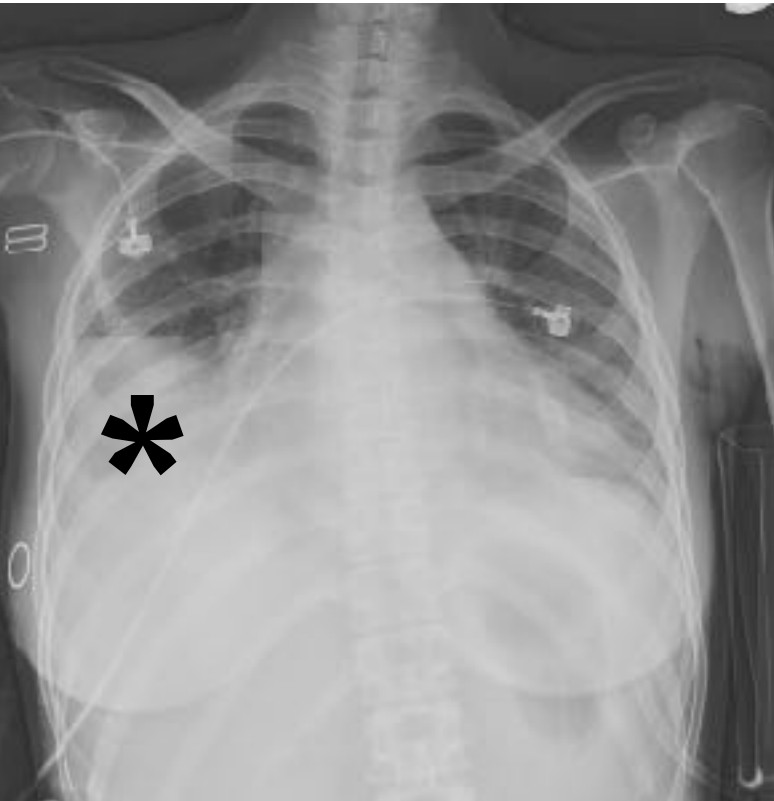
25F, SLE, SOB for 2 days



25F, SLE, SOB for 2 days



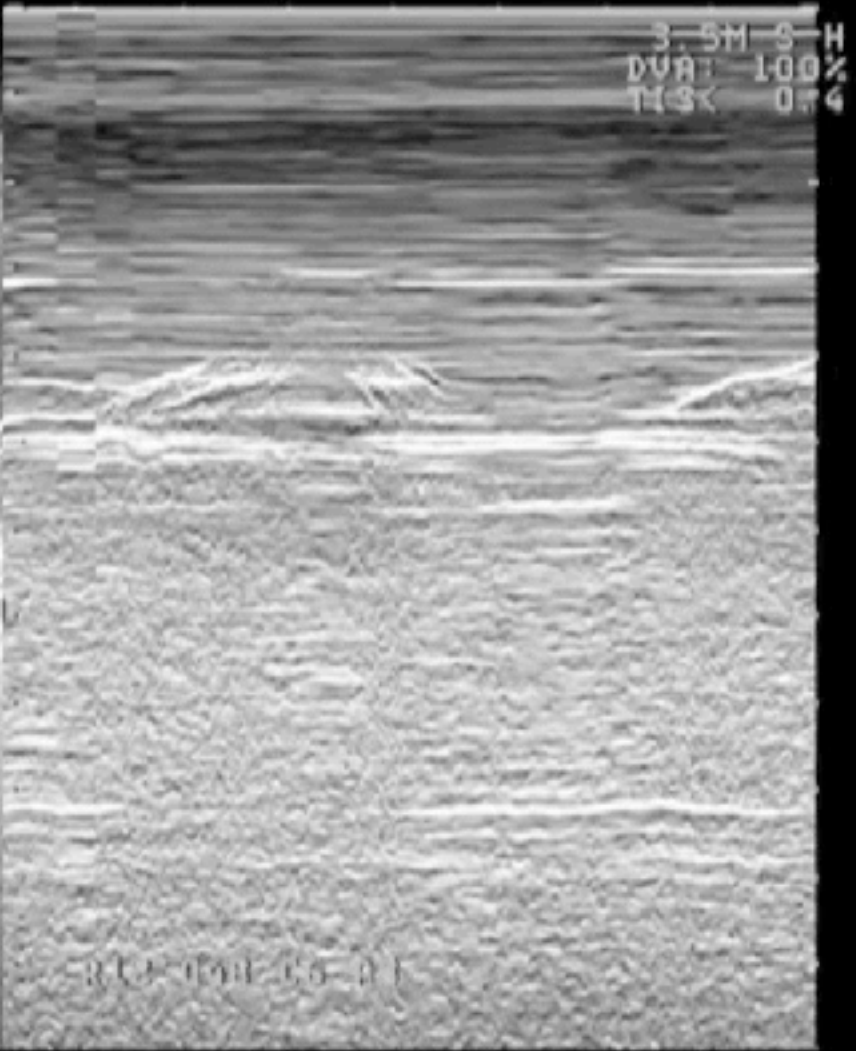
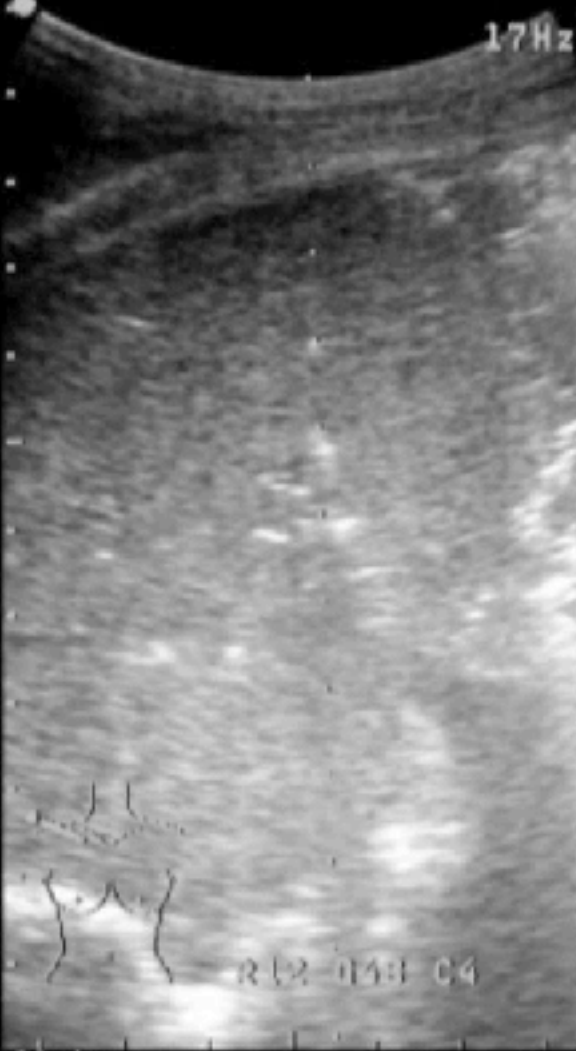
Atelectasis or PN ?



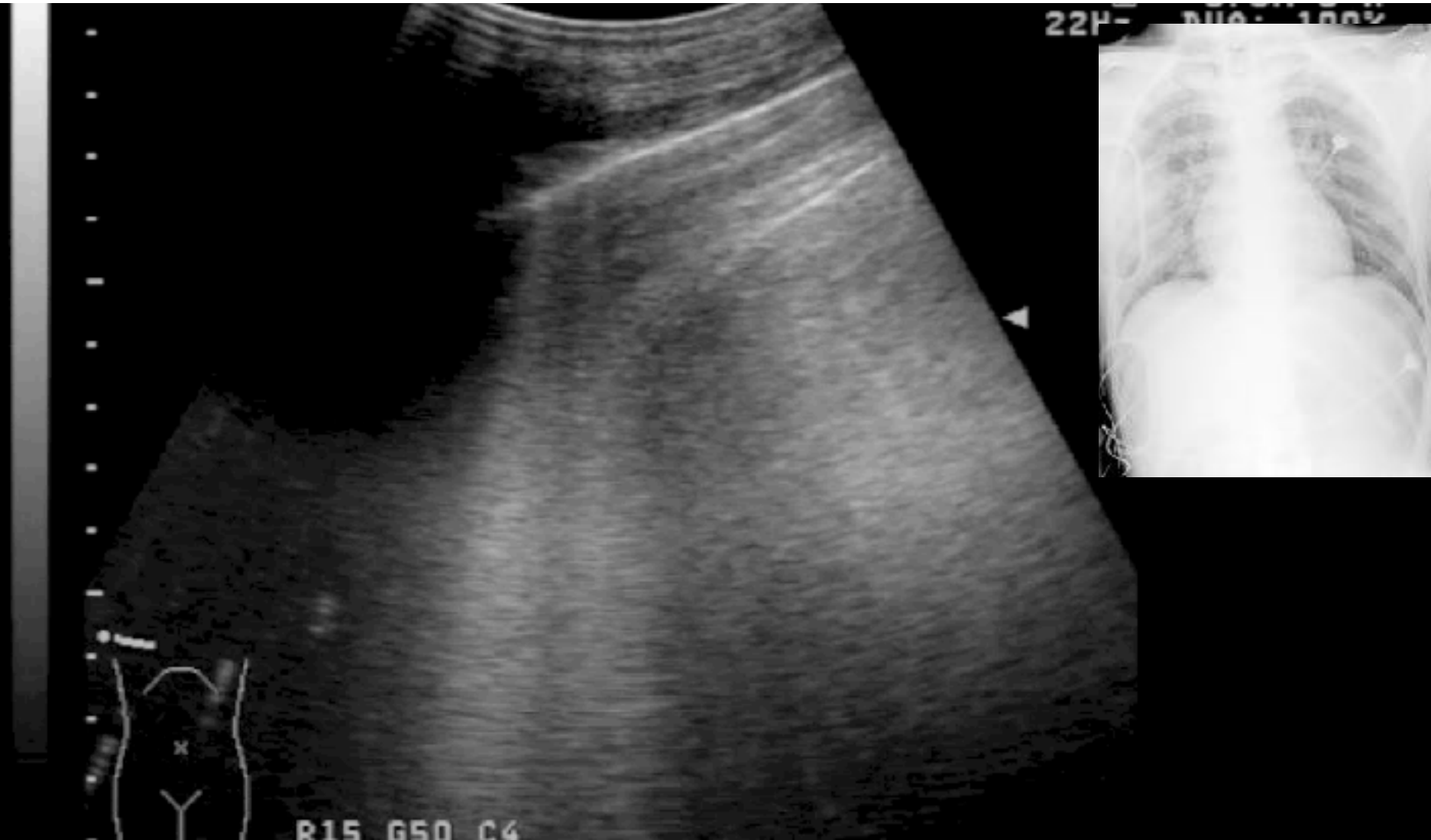
P
R
1.11 1.6

To

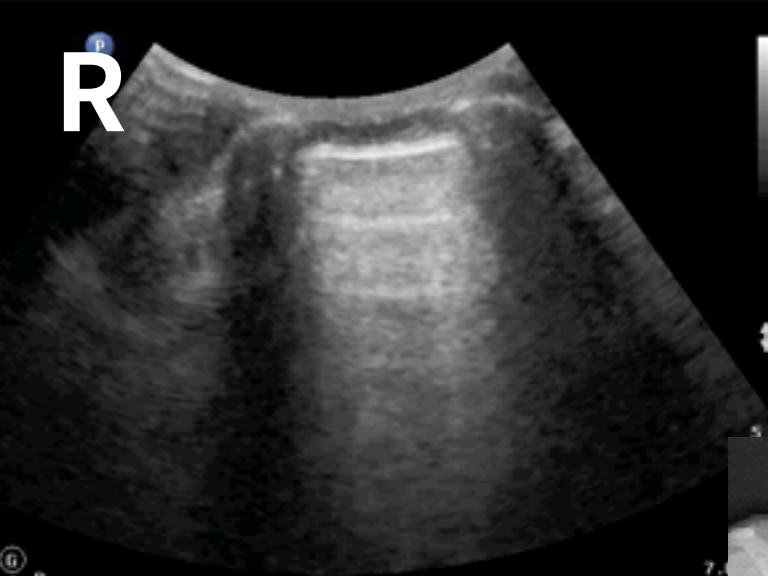
Dynamic air bronchogram



18M, MBA victim



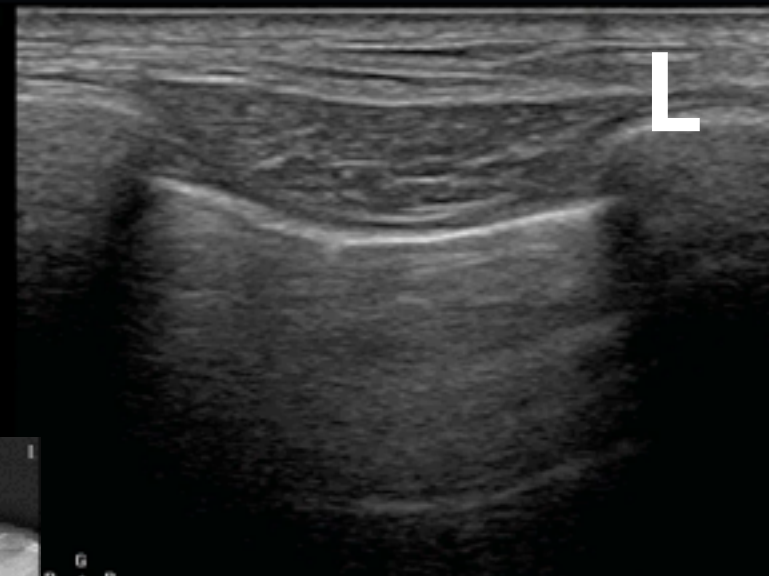
R



Superficial
L12-3
46 Hz
3.0cm

2D
Res
Gn 60
C 56
3 / 2 / 1

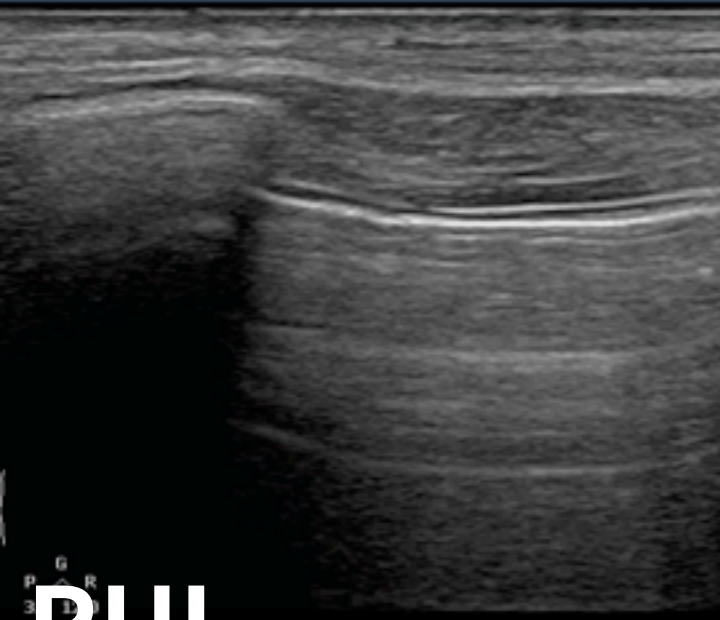
L



G
R
3.6



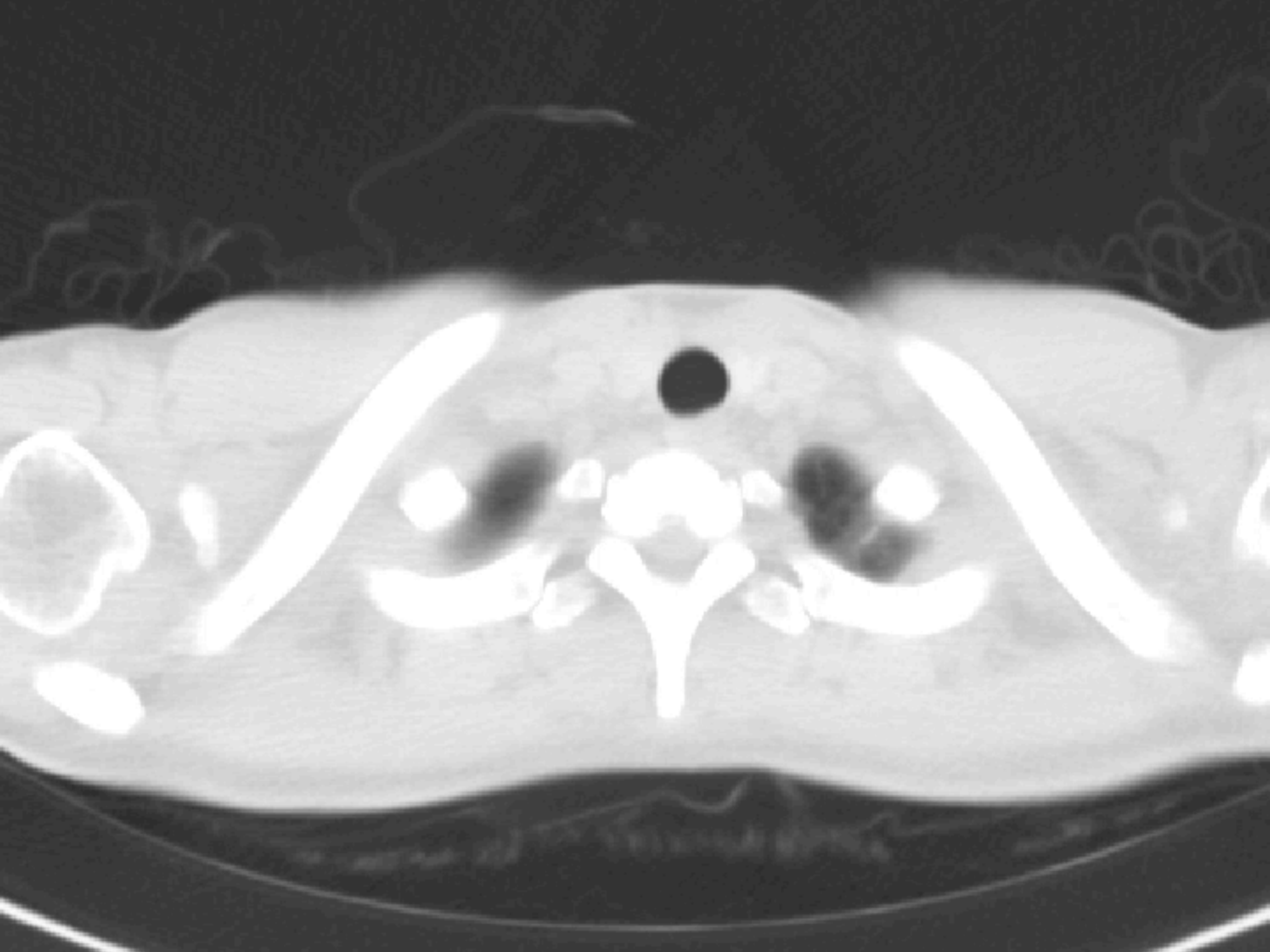
G
R
3.0 12.0



RUL

RLL

@P



Probe location

Adult Echo2
S5-1
33 Hz
15.0cm

2D
HGen
Gn 34
C 44
3 / 2 / 0

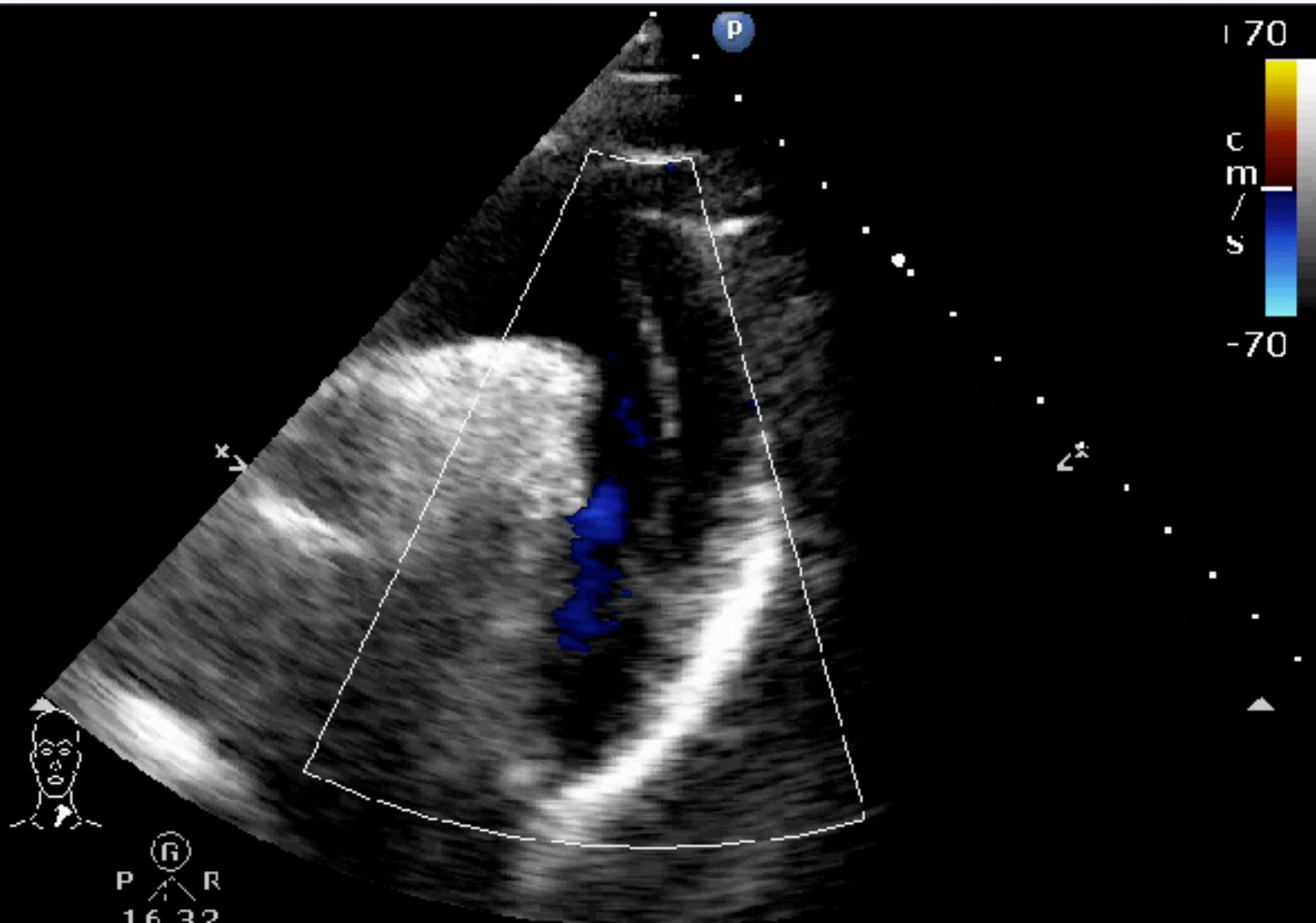


Type B dissection

Adult Echo2
S5-1
18 Hz
15.0cm

2D
HGen
Gn 34
C. 44
3/2/0

Color
2.5 MHz
Gn 60
4/5/0
Fltr High

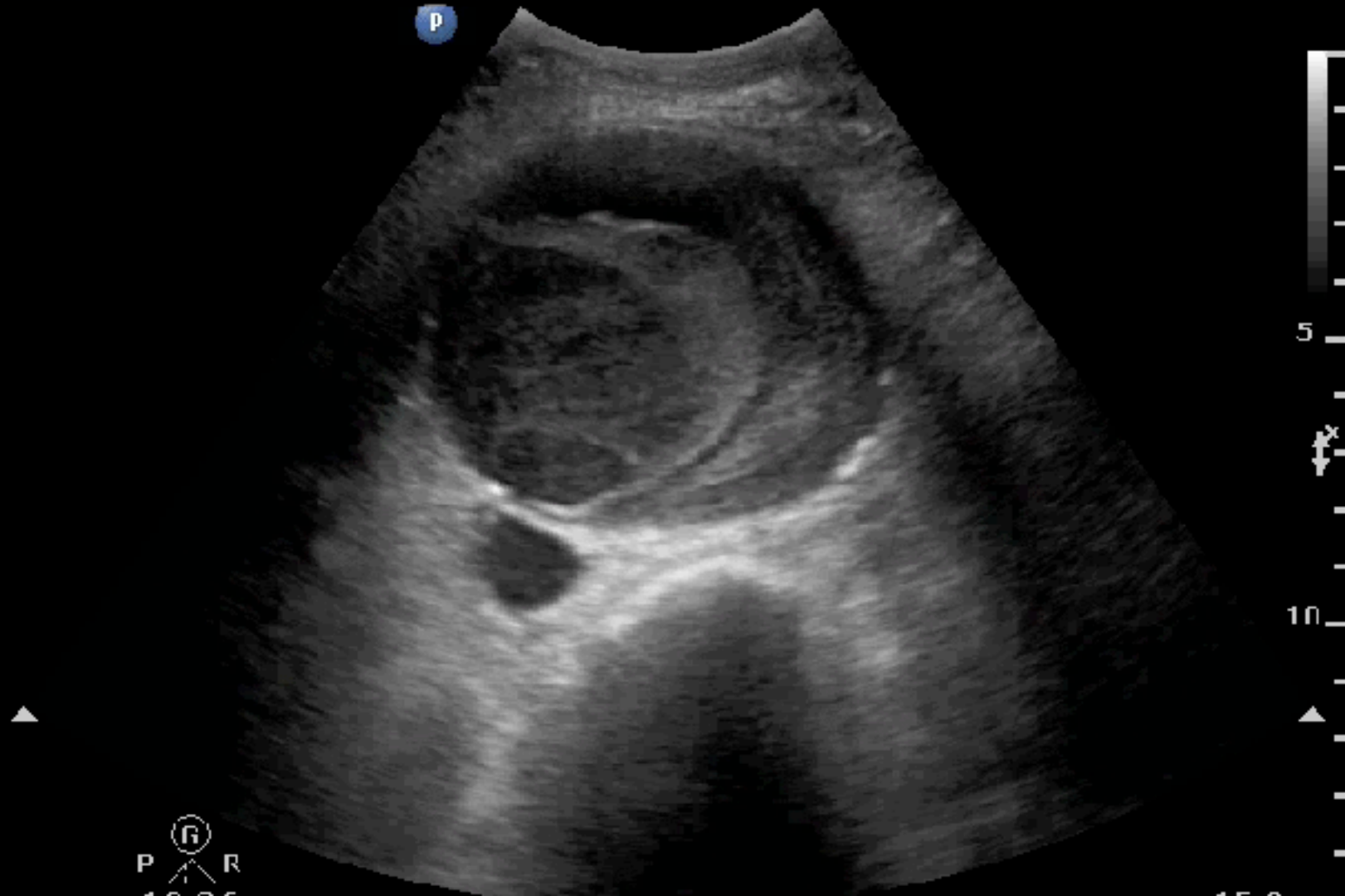


Max diameter of aorta

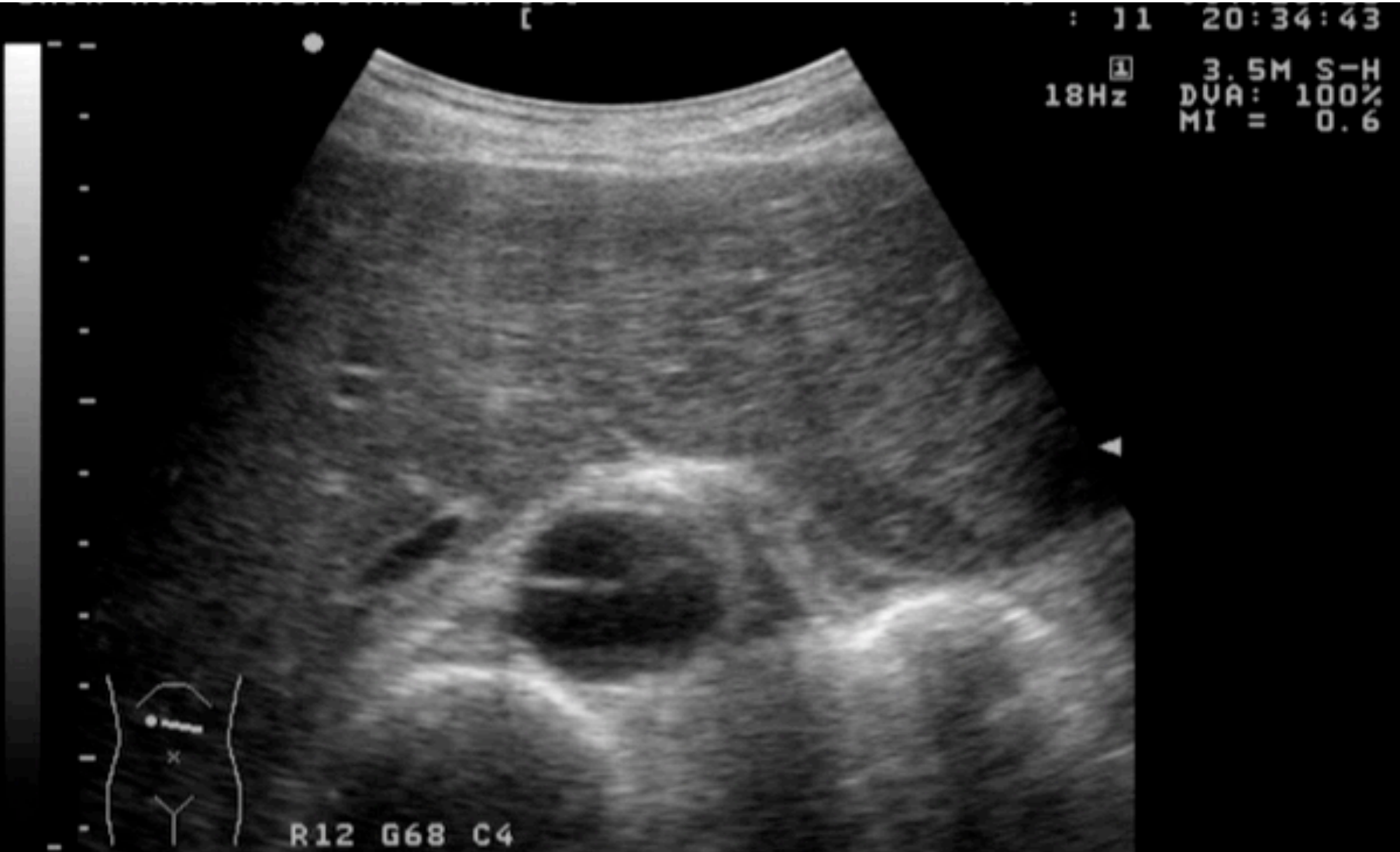
Abd Gen
C5-1
34 Hz
15.0cm

2D

HGen
Gn 5/
C. 56
3 / 3 / 3



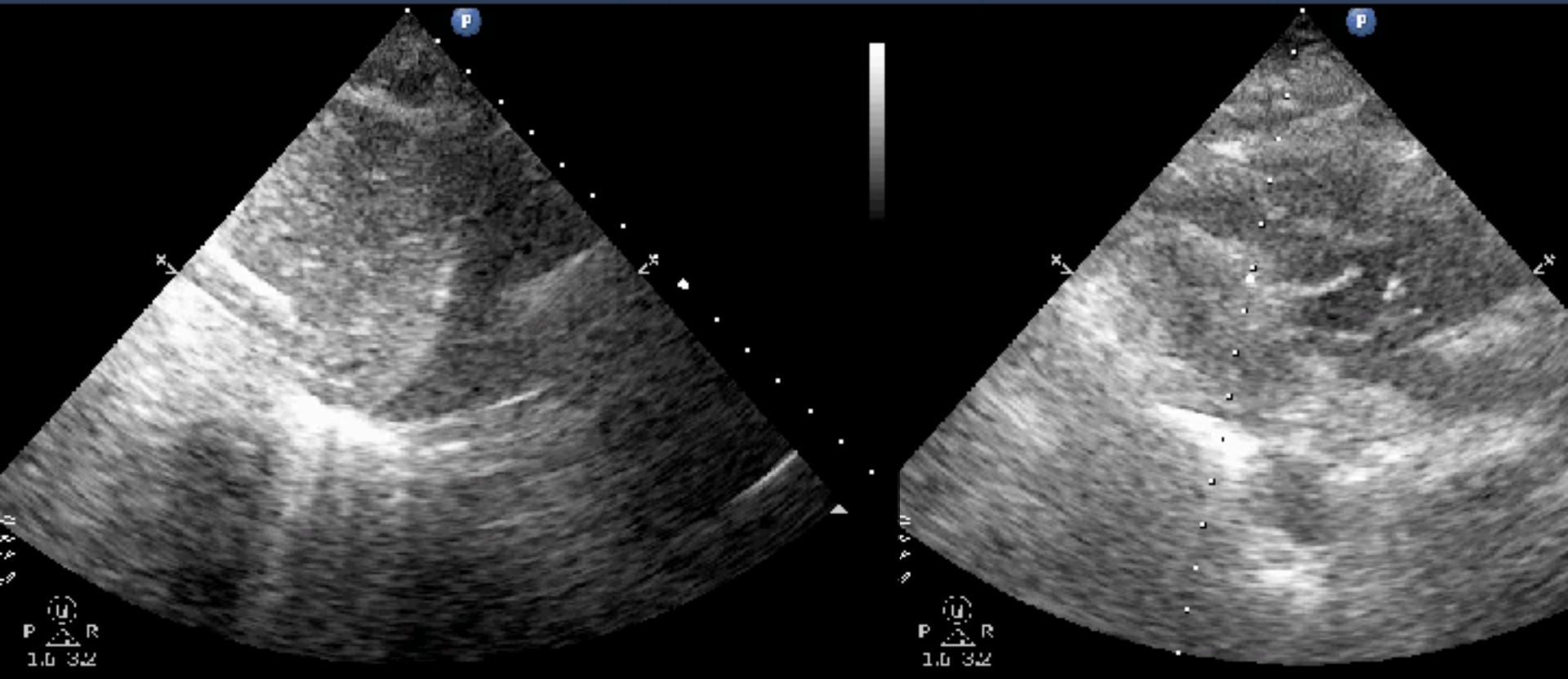
65F, Epigastric pain



63M, chest/abd pain & low BP



Type of shock



RUSH: HI MAP (ED)

Fluid responsiveness ?

Abd Gen
C5-1
6 Hz
4.0cm

D
HGen
Gn 61
C 56
3/3/3



Possible causes?

Abd Gen2
C5-1
32 Hz
16.0cm

2D
HGen
Gn 60
C. 55
3 / 3 / 3

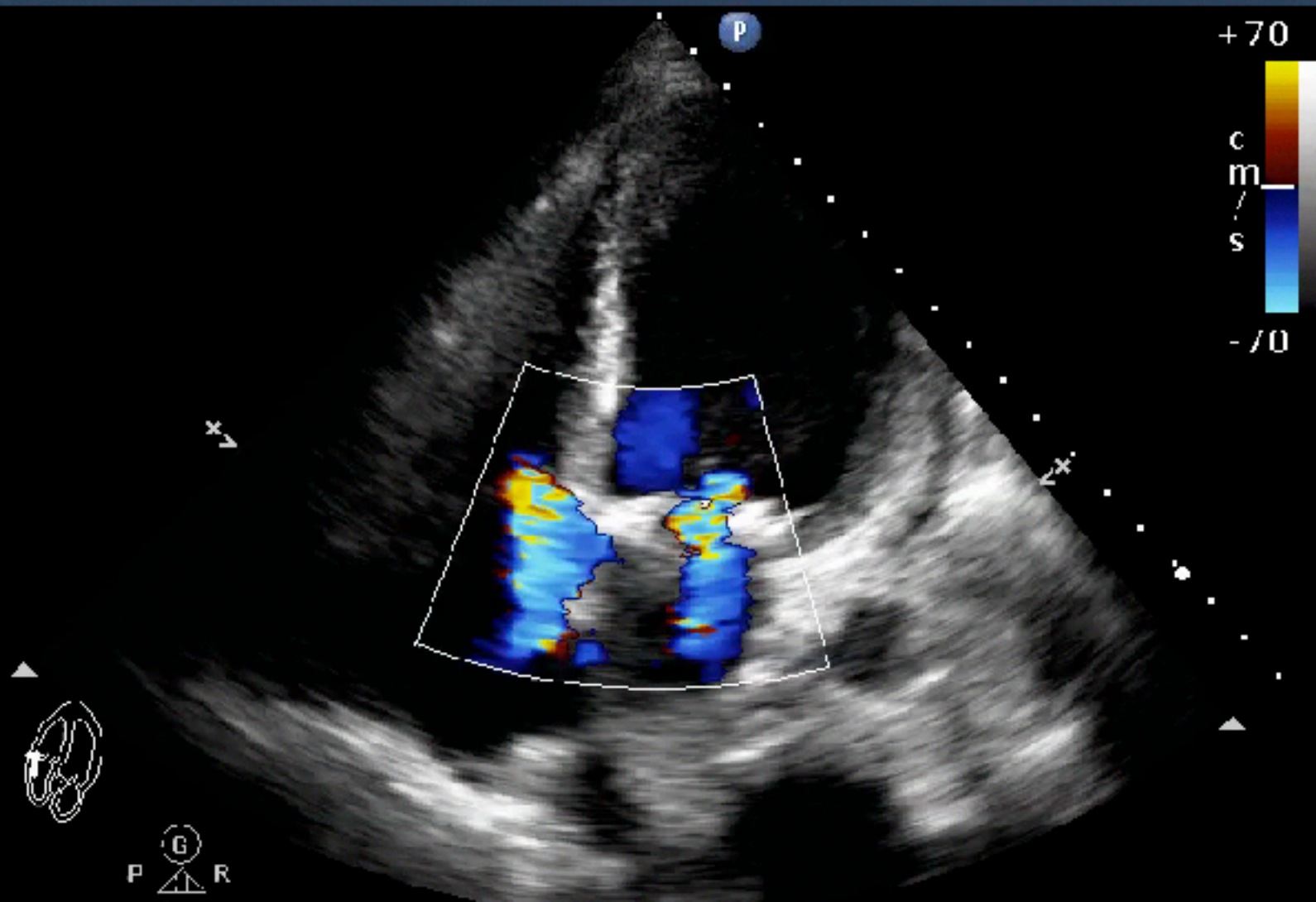


最不明顯的逆流: MR/AR/TR

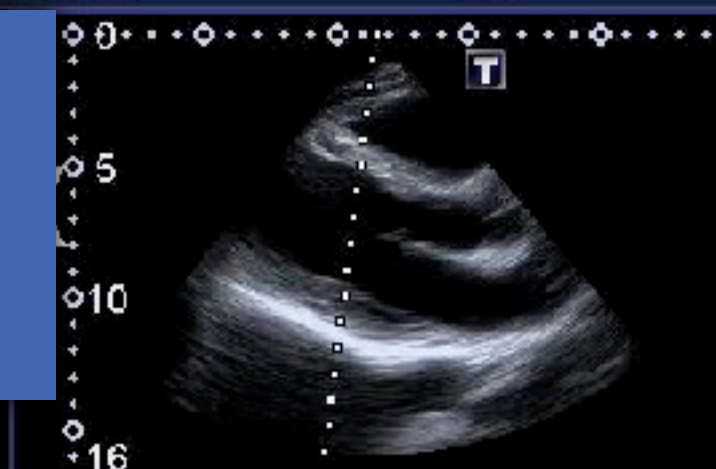
Adult Echo
S5-1
18 Hz
16.0cm

2D
HGen
Gn 34
C 50
3/2/0

Color
2.5 MHz
Gn 60
4/5/0
Filtr High



Heart failure ?



-4.0

-3.0

-2.0

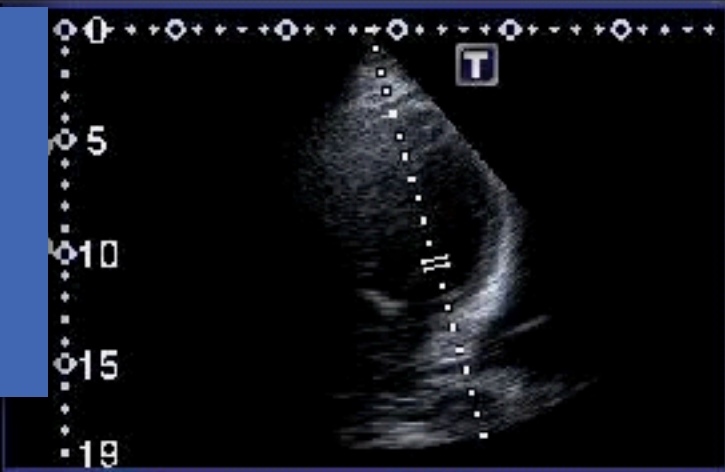
-1.0

0

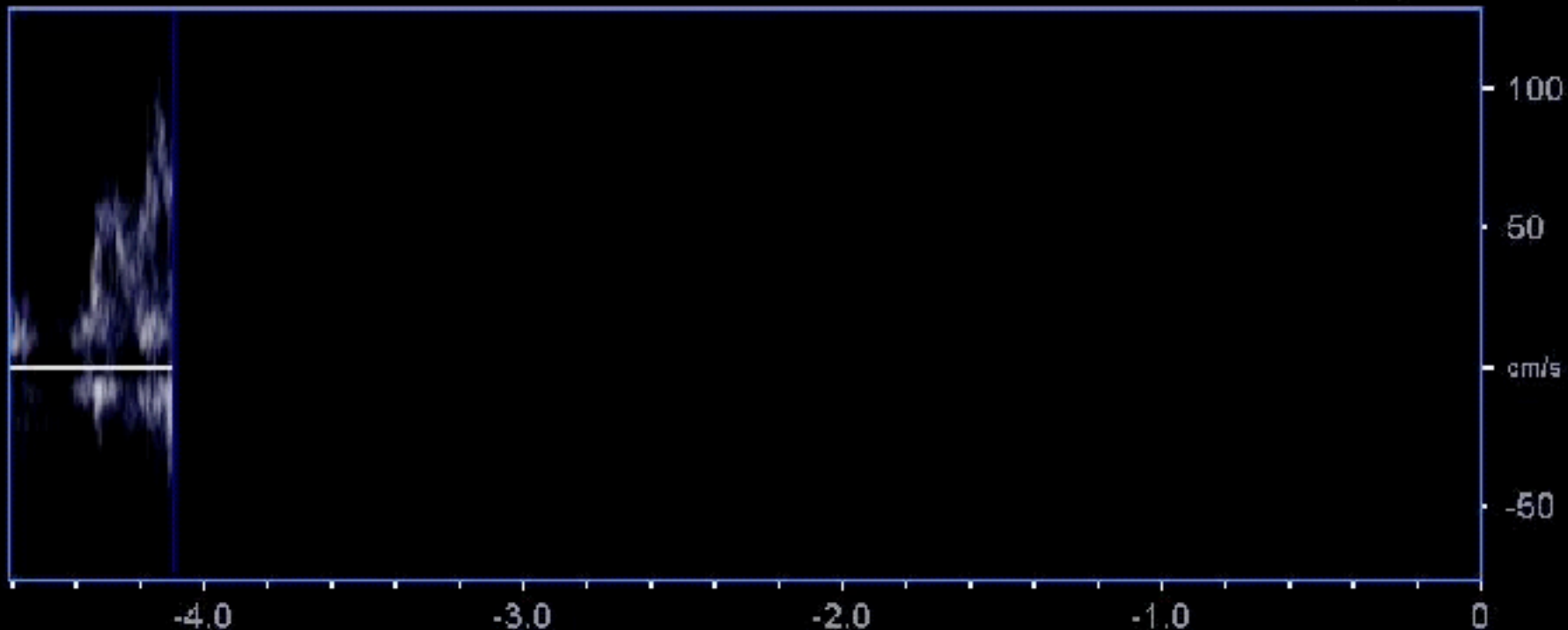
16

MG:77 /MDR:50 /T3.0

Diastolic dysfunction

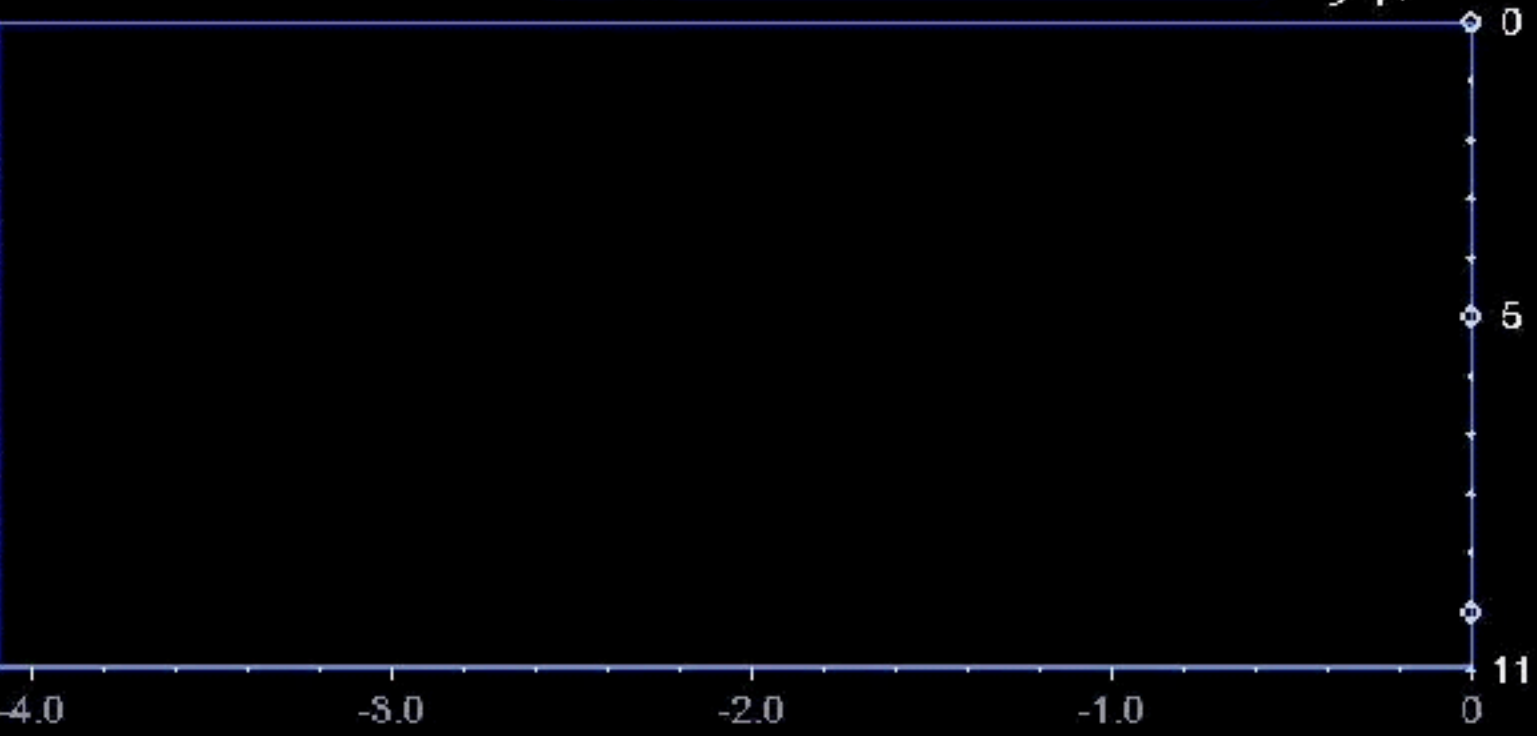
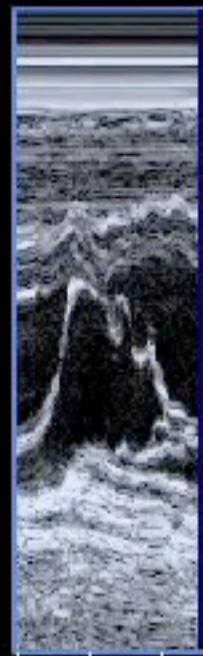
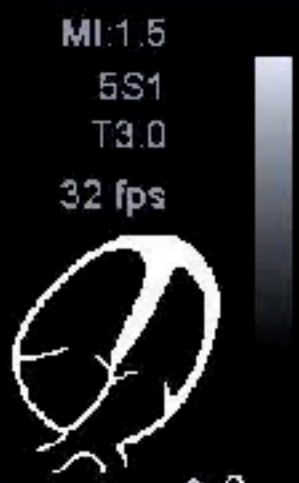
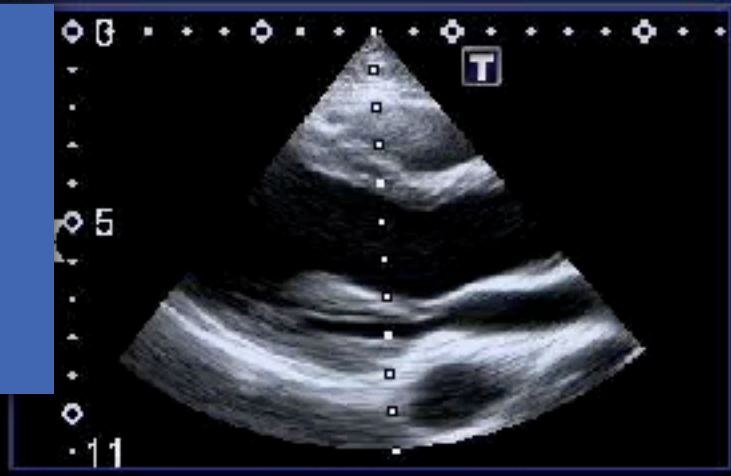


0 3.0
10.9cm

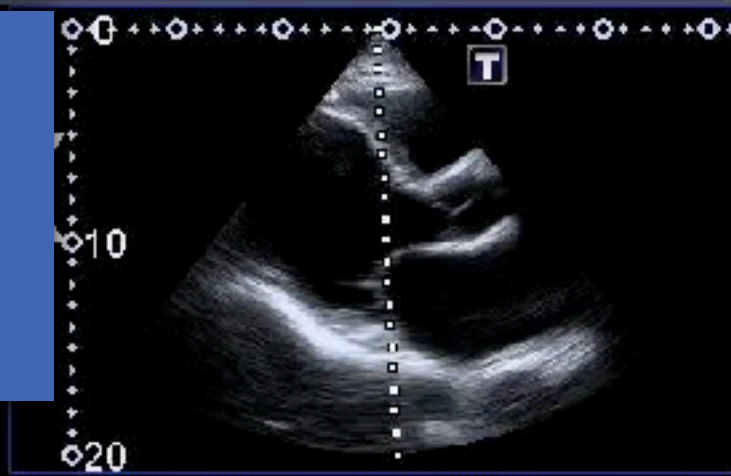


DG:25 / 4.9k / F:229

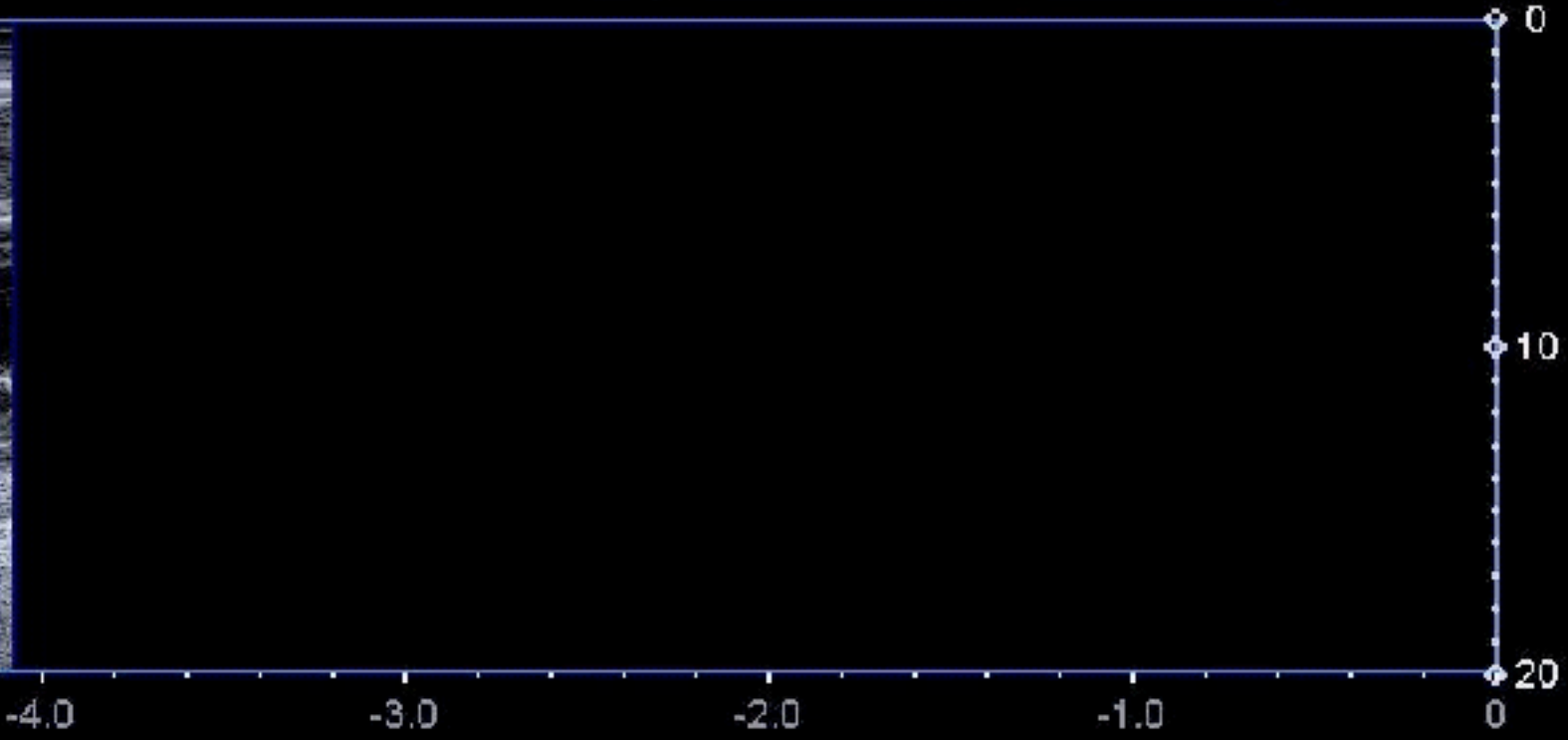
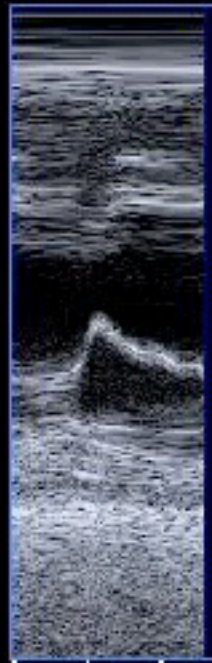
Heart failure ?



Heart failure ?



MI:1.5
 5S1
 T3.0
 25 fps

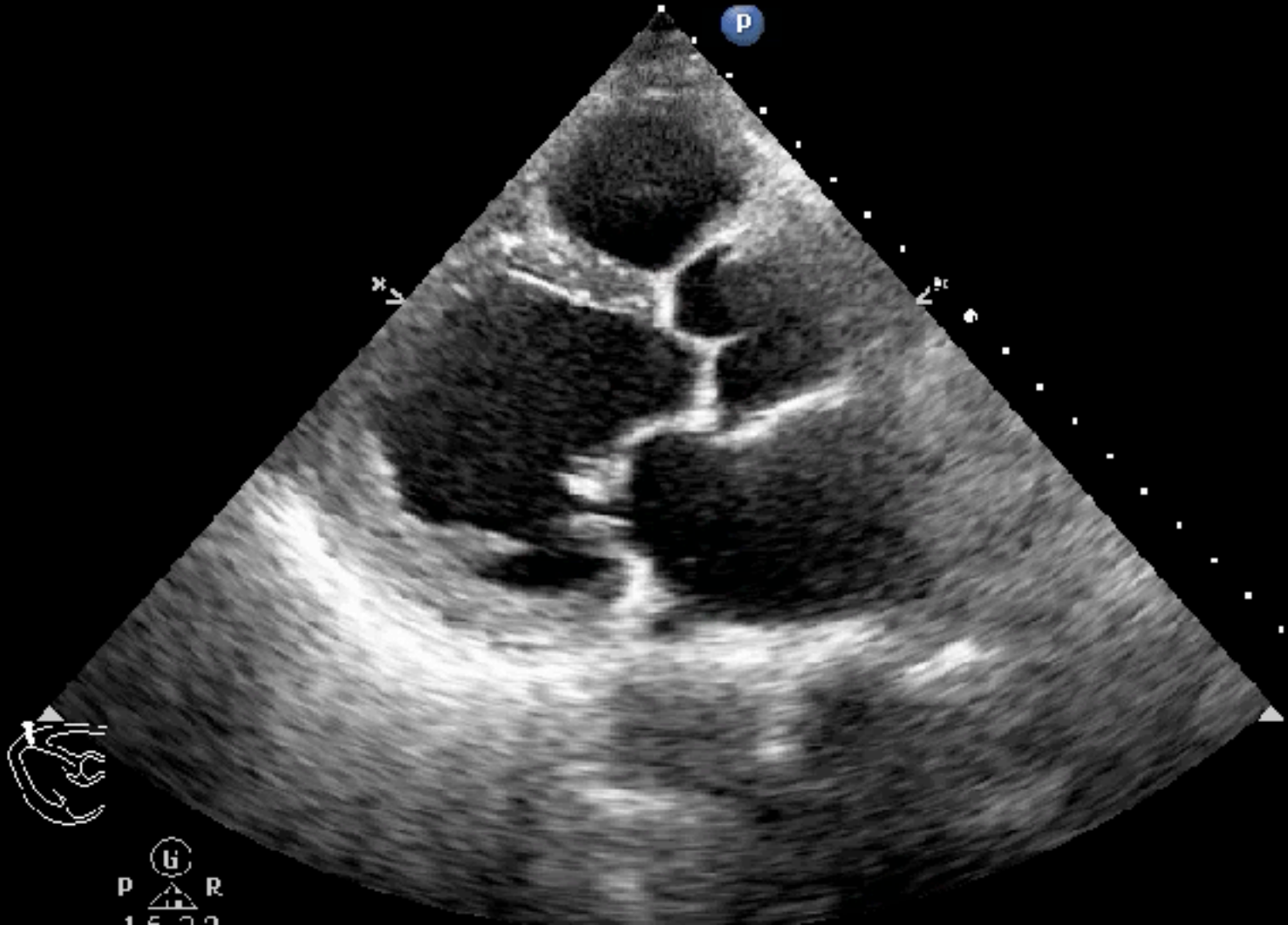


Qscan:82 / MDR:50 / T3.0

Heart failure 依據？

Adult Echo2
S5-1
78 H7
19.0cm

2D
HGen
Gn 34
C 50
3 / 2 / 0

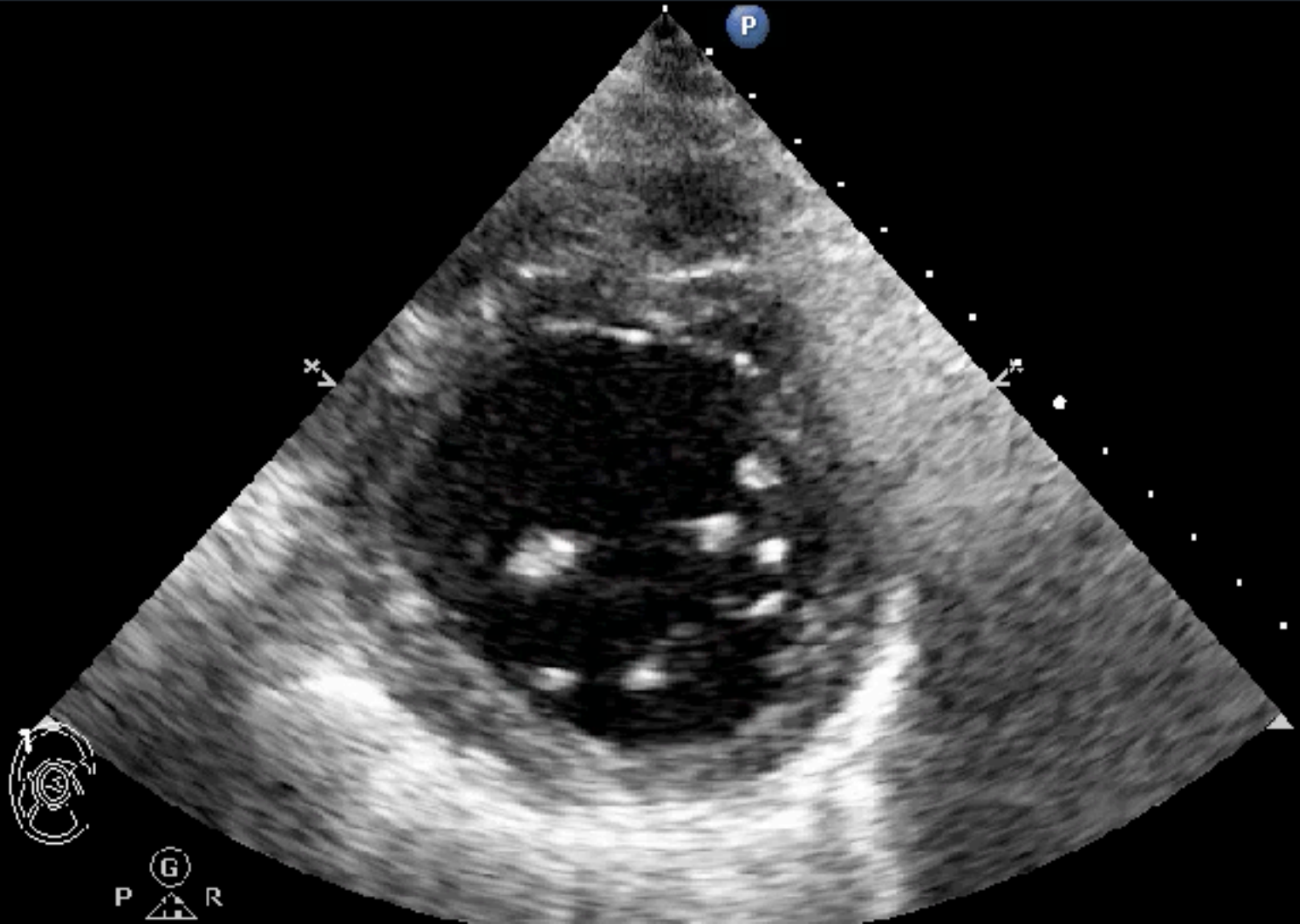


Heart failure, acute or chronic

Adult Echo2
S5-1
34 Hz
15.0cm

2D

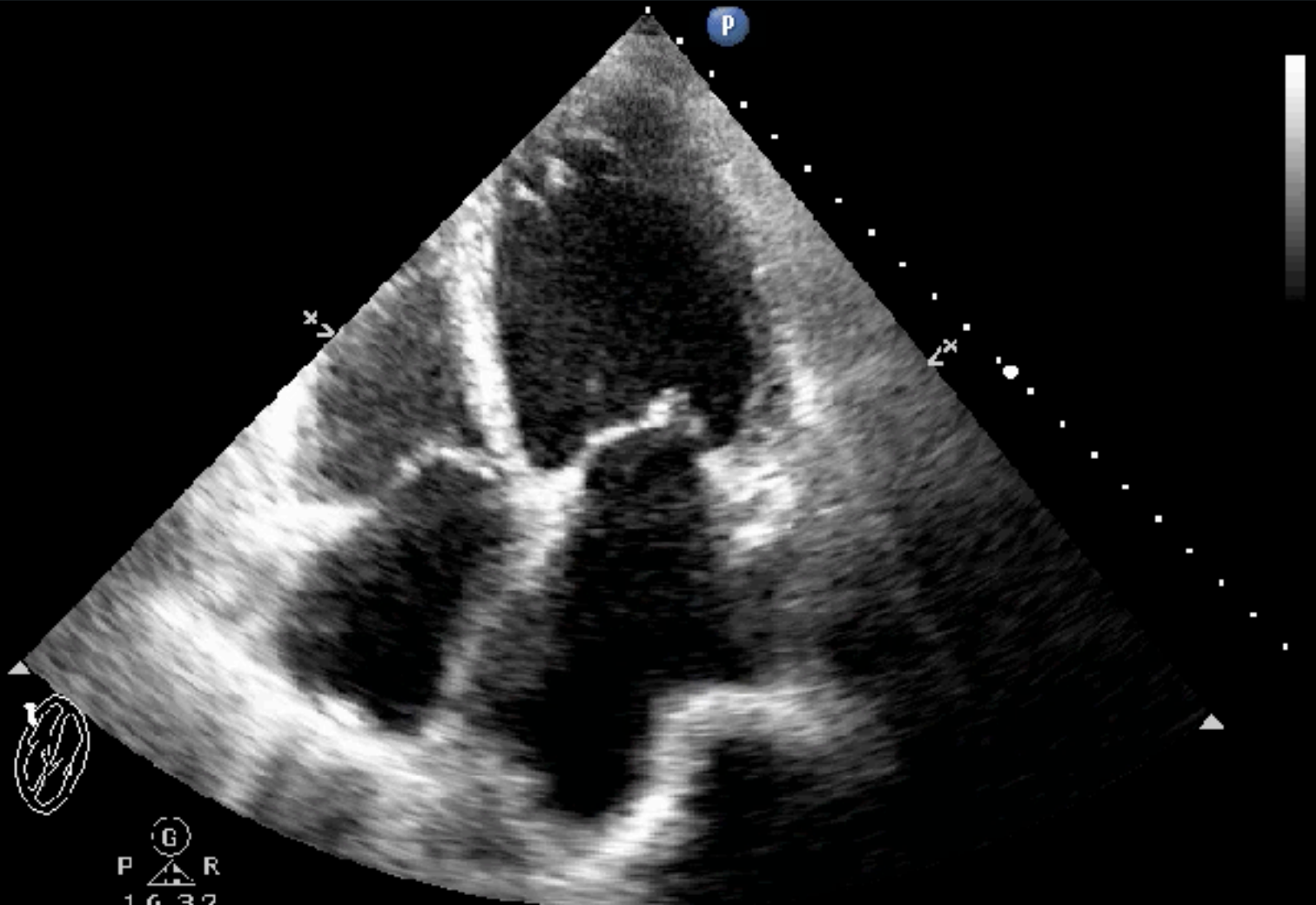
HGen
Gn 34
C 50
3 / 2 / 0



Heart failure, RV or LV

Adult Echo2
S5-1
27 Hz
20.0cm

2D
HGen
Gn 41
C 50
3/7/0



LA myxoma

Khonkaen hospital (ER)

cardiac Ratra... SP5-1s

03-09-2017 15:40:28

20170903-154017-ED02

AP 96.6% MI 1.4 TIS 0.9

mindray



B
F PH3.4
D 15.0
G 51
FR 35
DR 145
IClear 7
Echo Boost

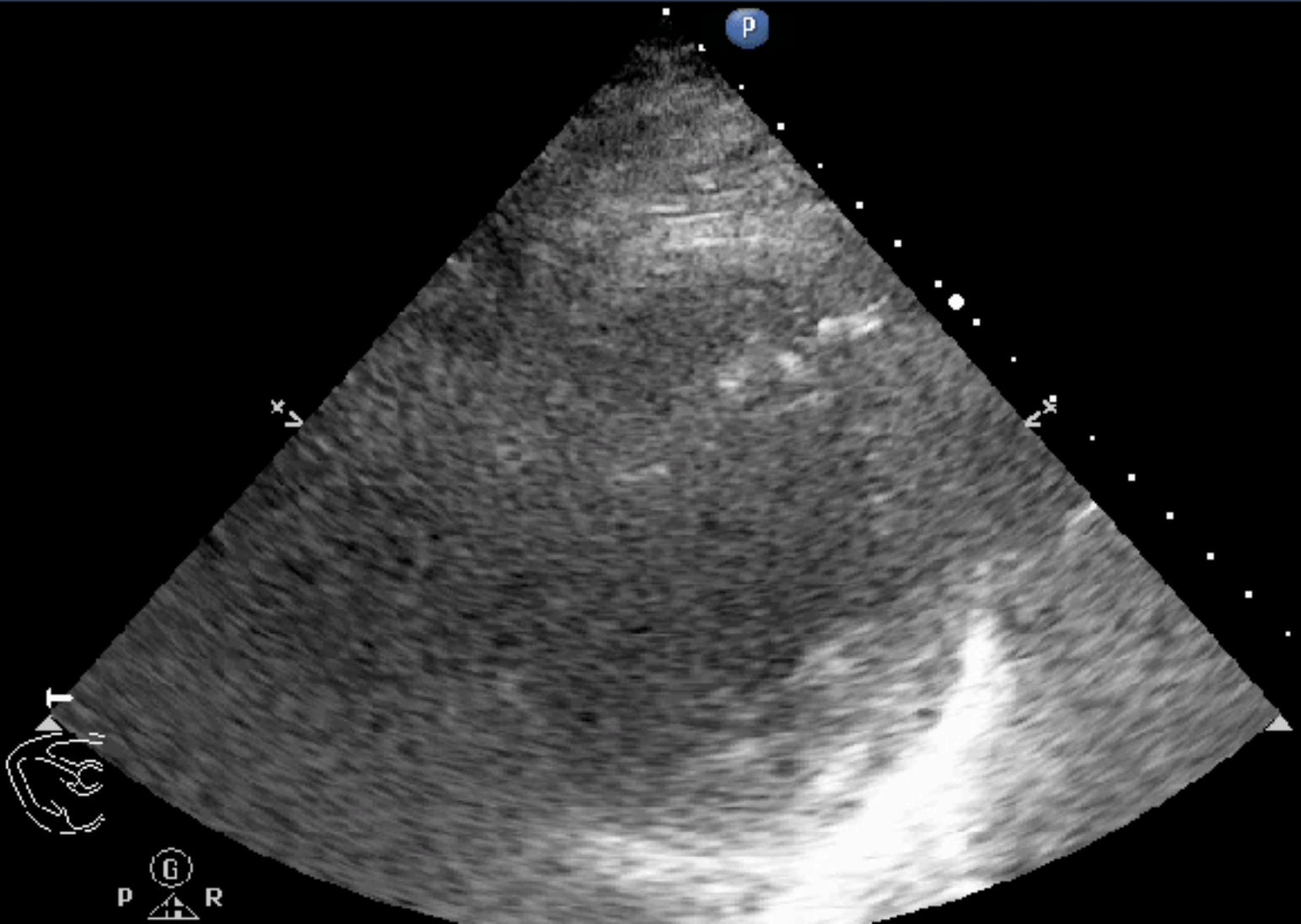


Ventricular fibrillation

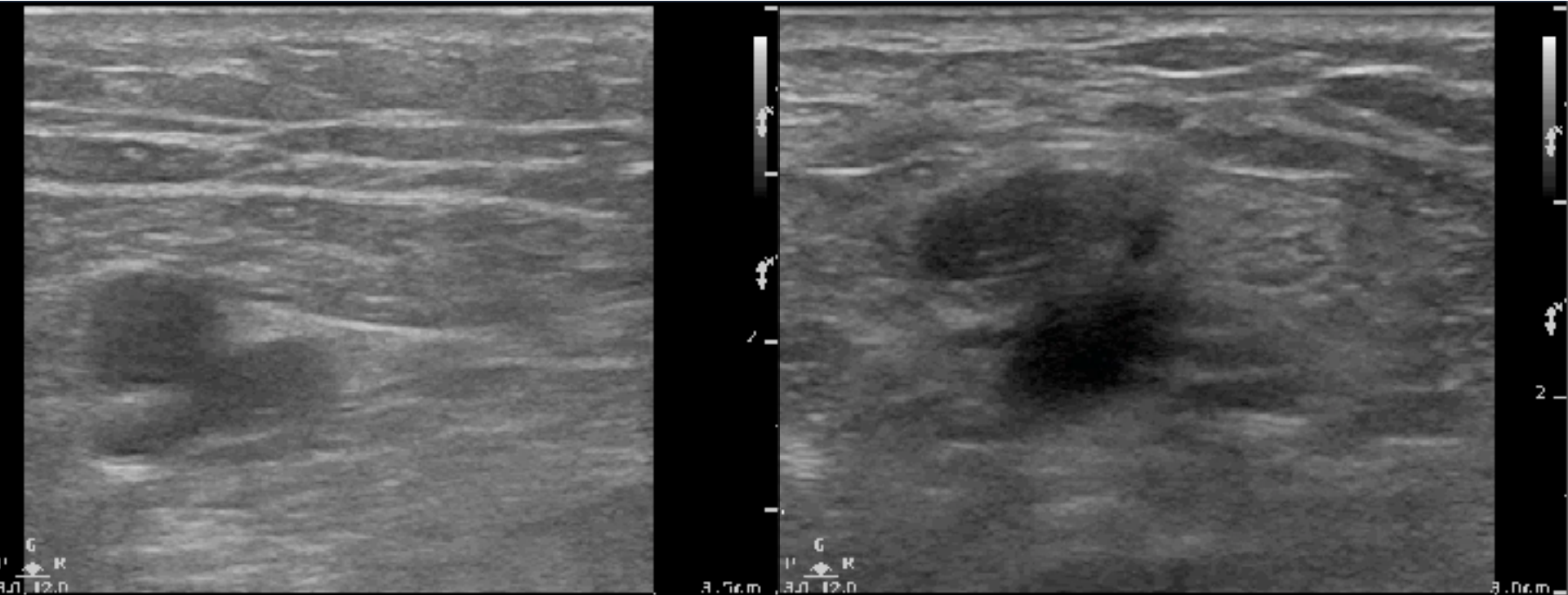
Adult Echo2
35-1
31 Hz
17.0cm

2D

HGen
Gn 50
C. 50
3 / 2 / 0



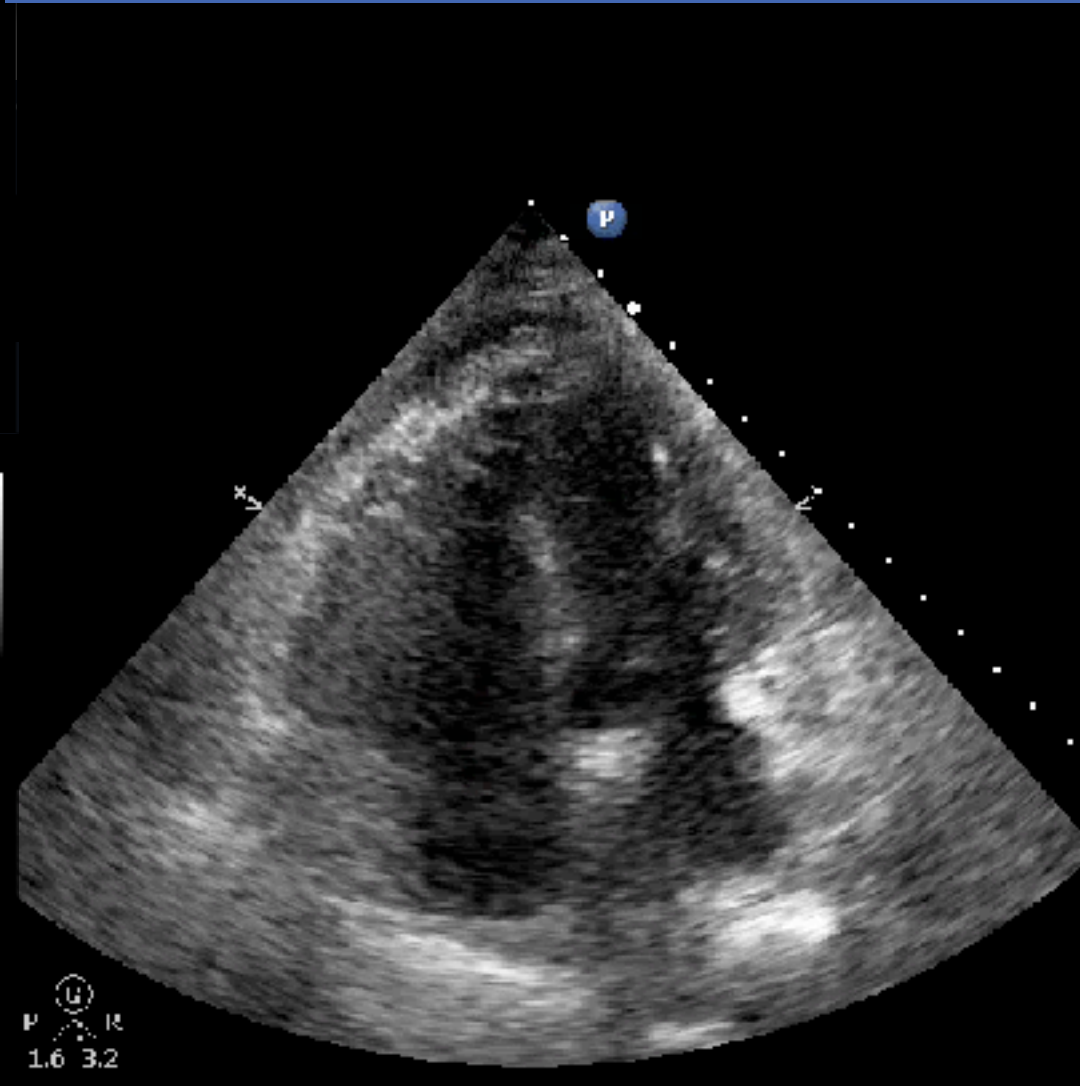
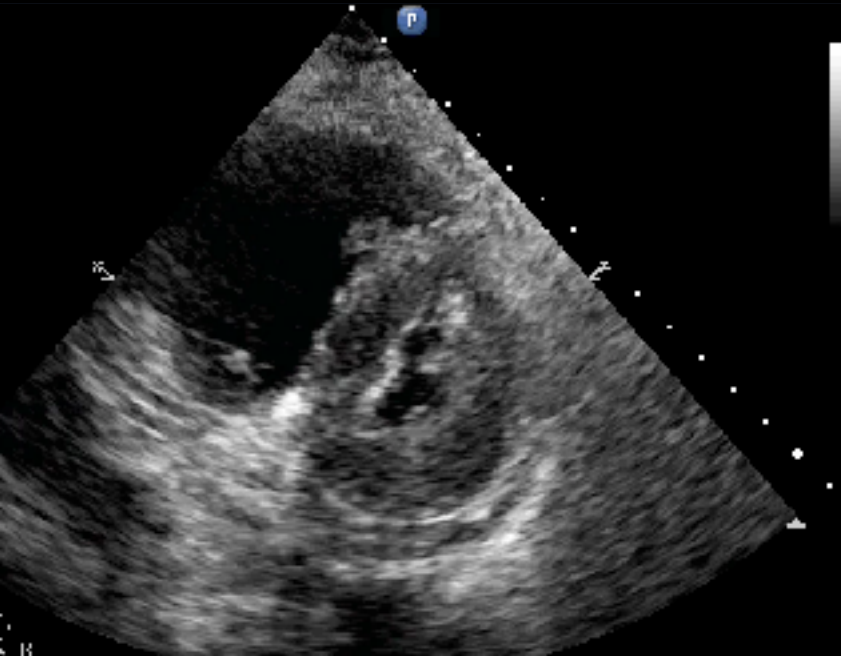
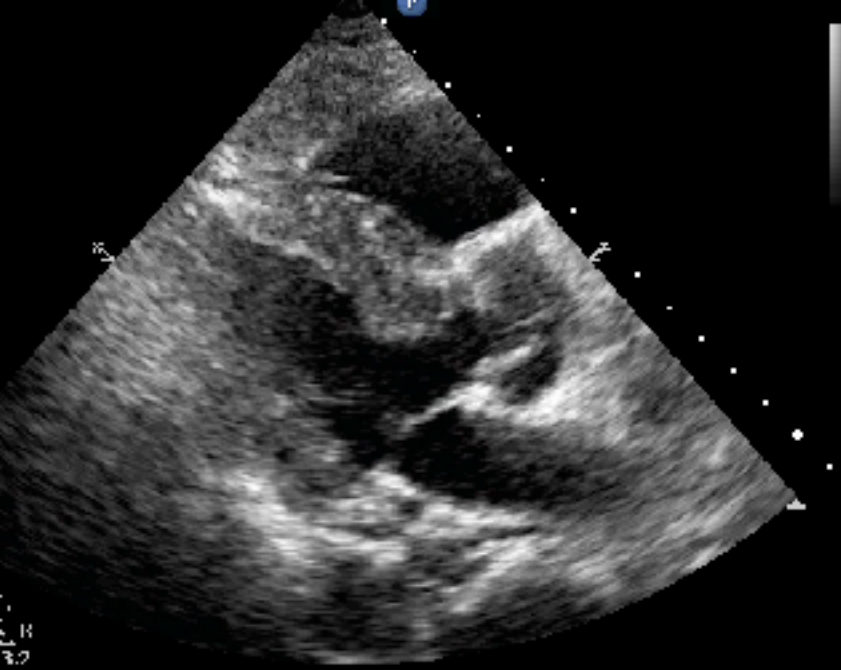
Where is the clot ?



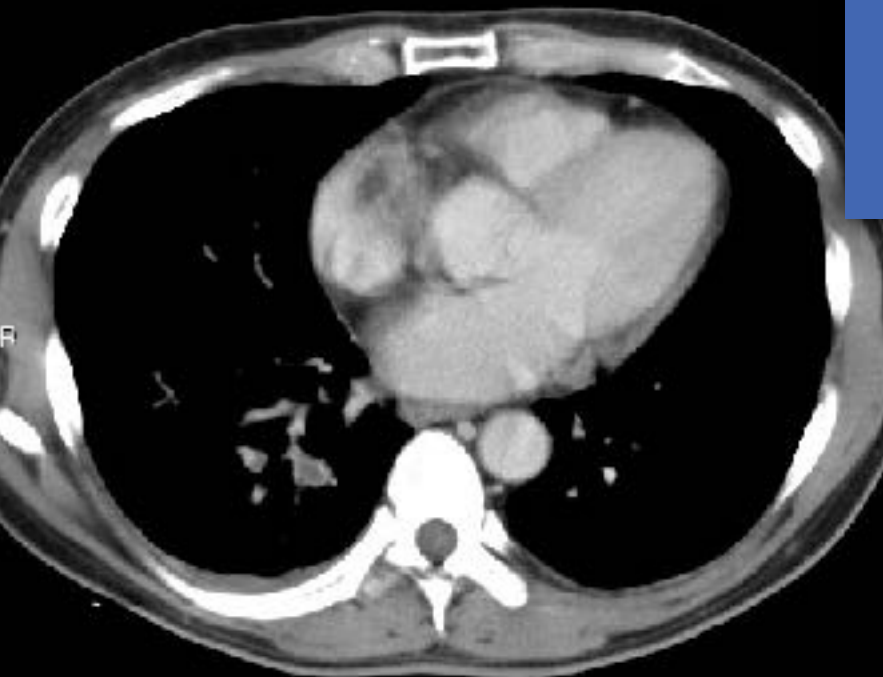
R leg



Pulmonary embolism

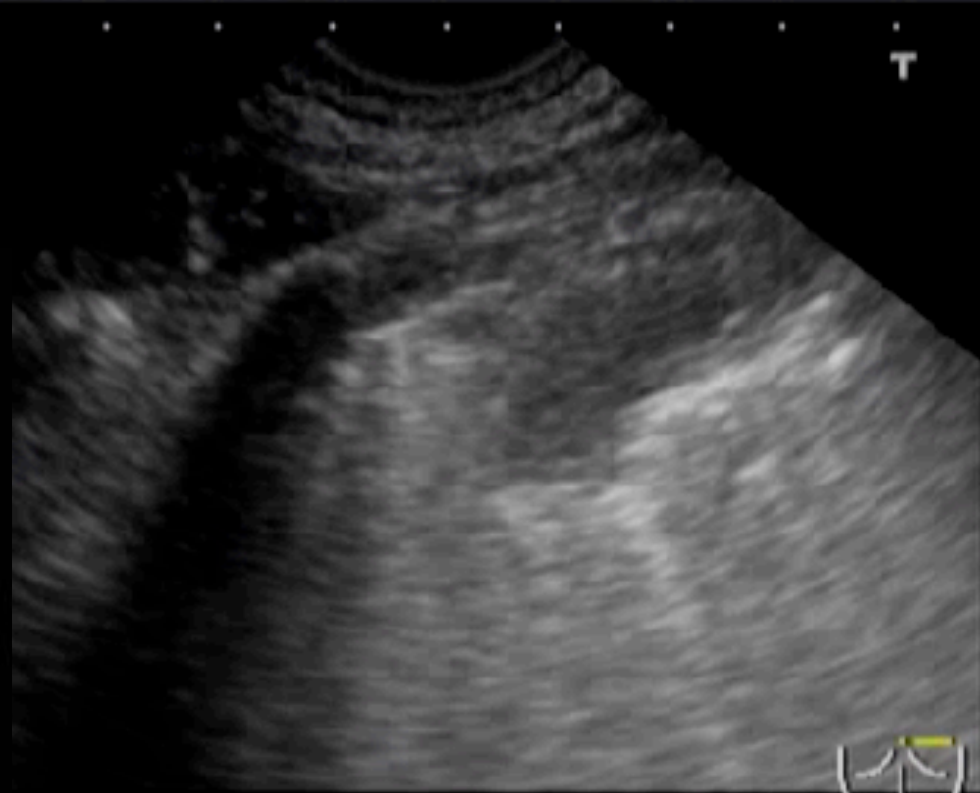


Pulmonary Infarction

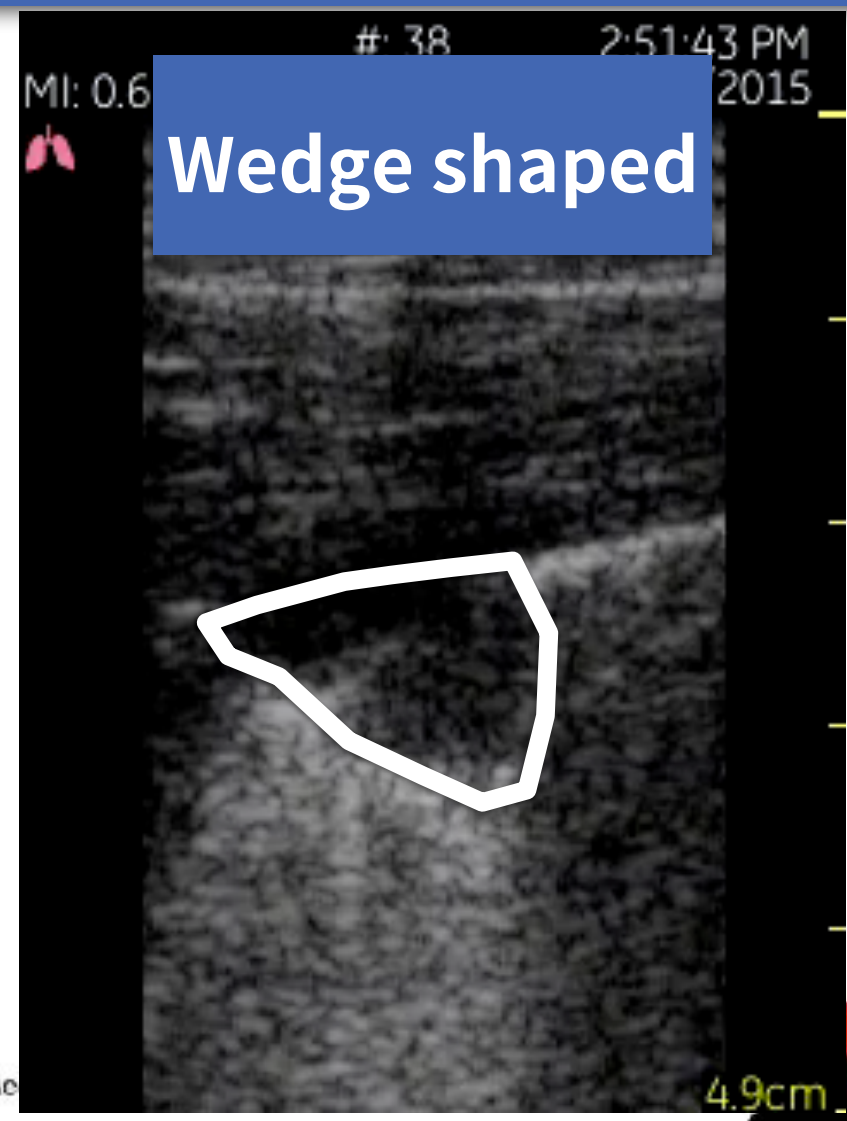
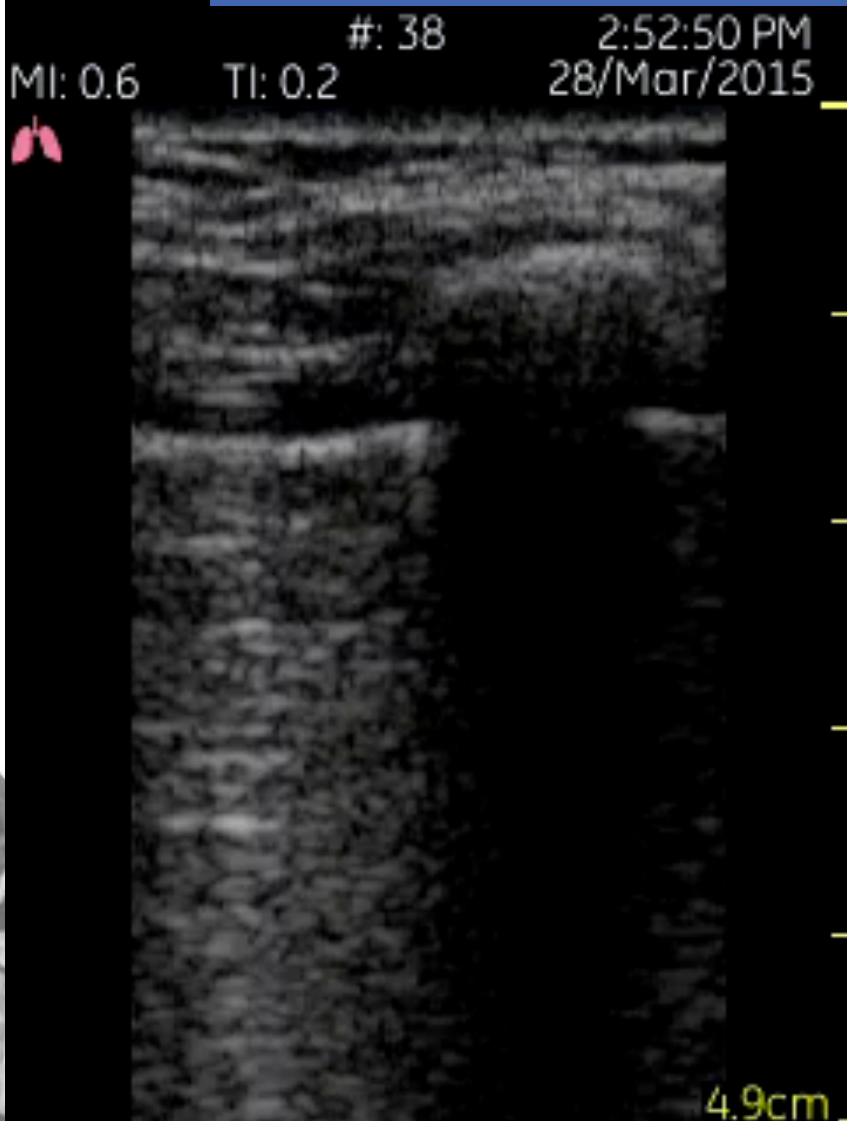


KONG MEMORIAL HOSPITAL

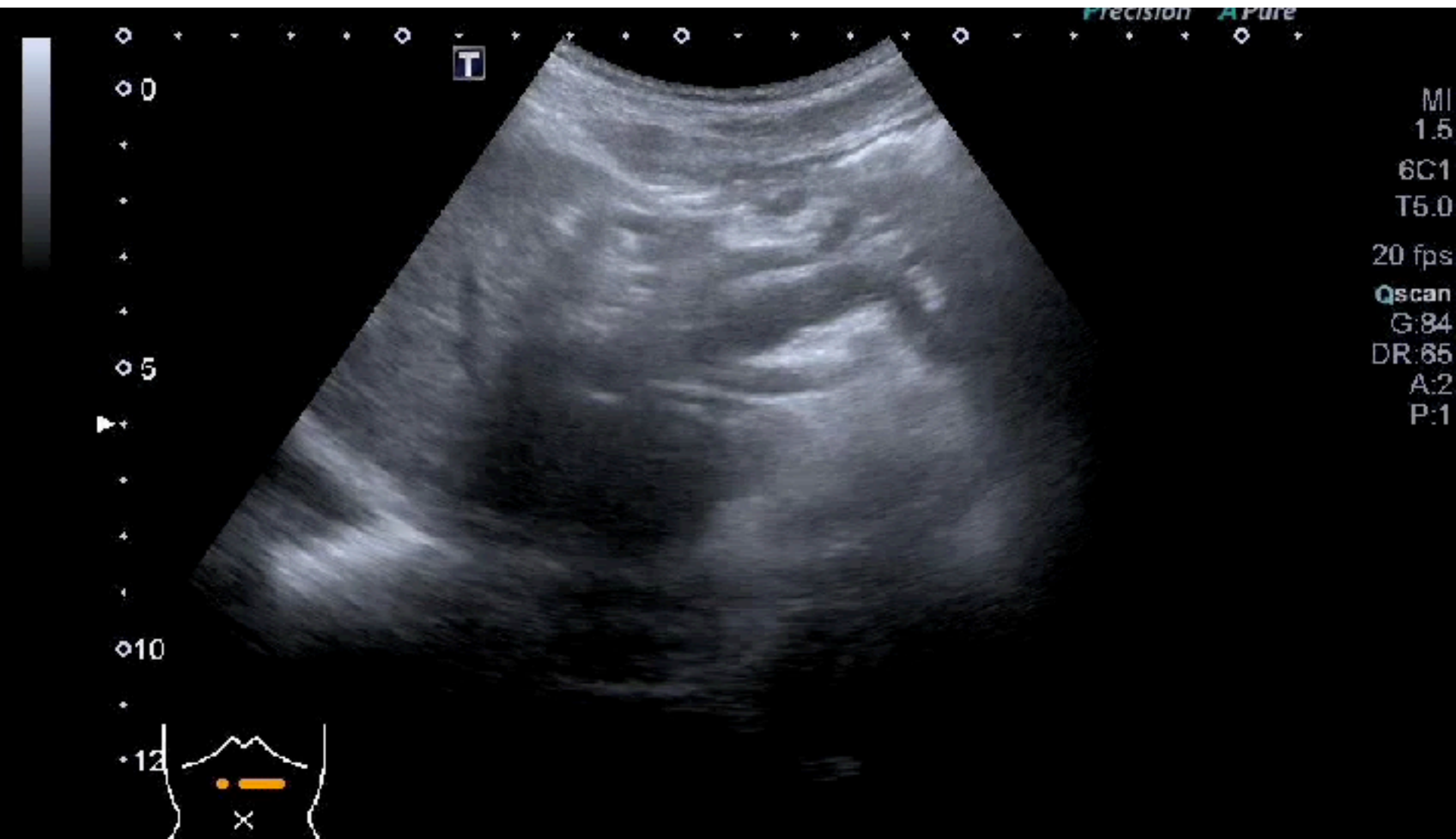
ABD-ER



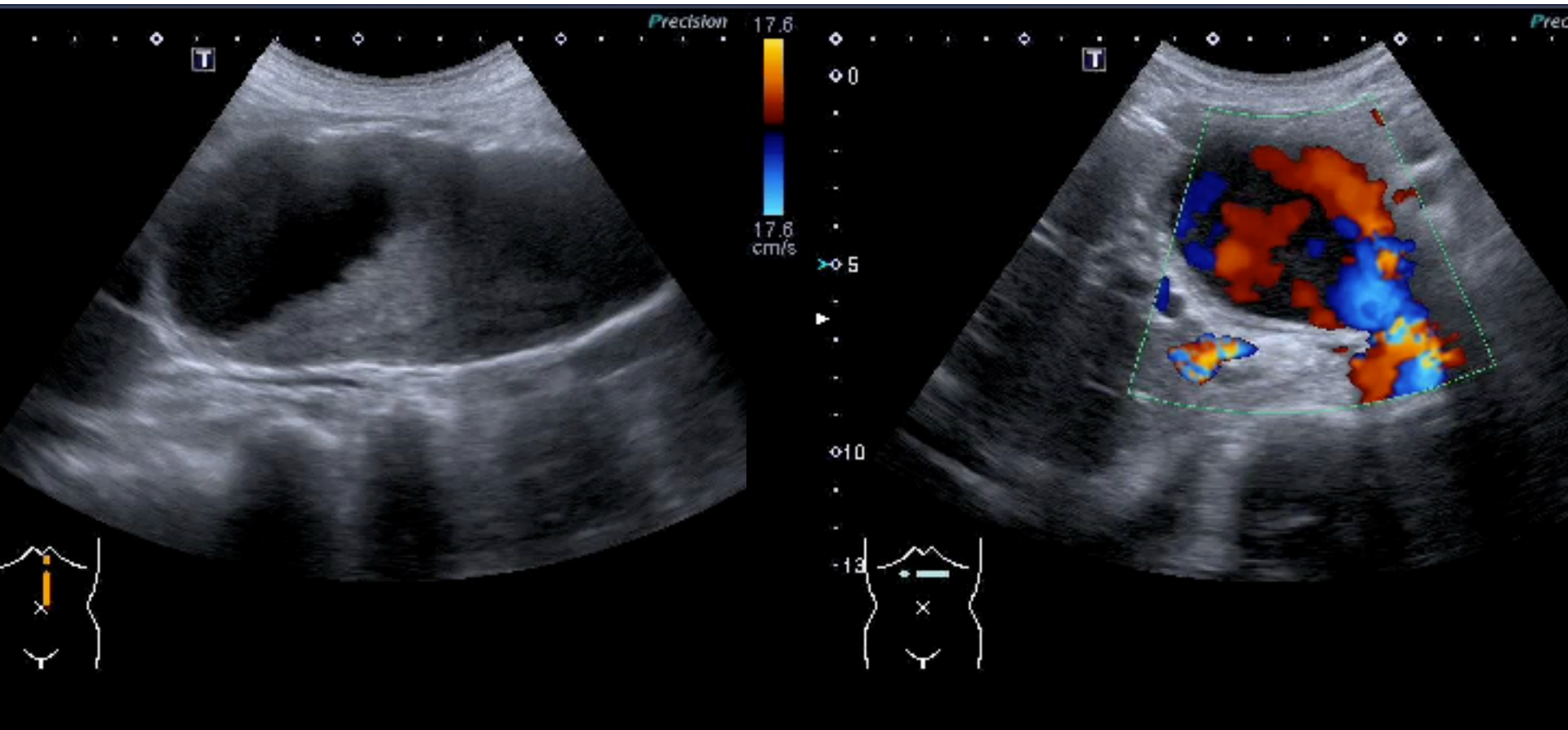
Pulmonary infarction



AAA/AD/Mural thrombus/Y-Y

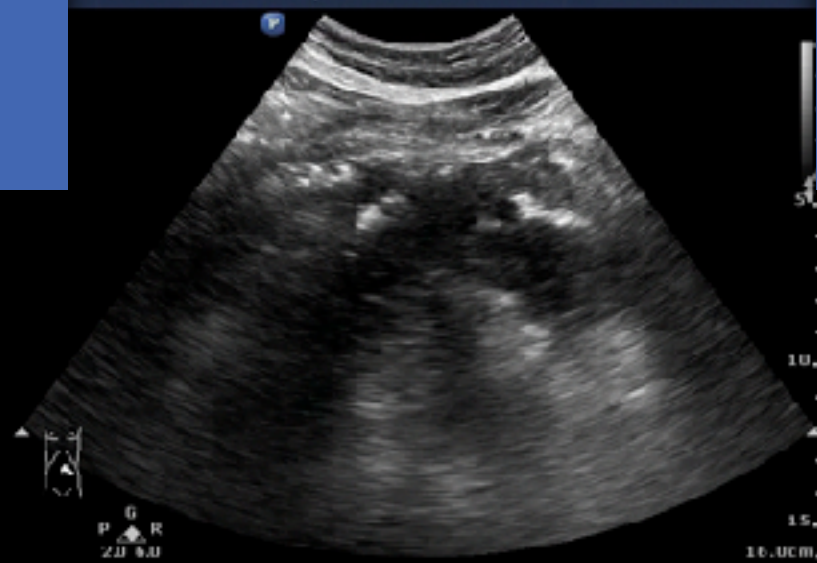


AAA with Yin-yang sign



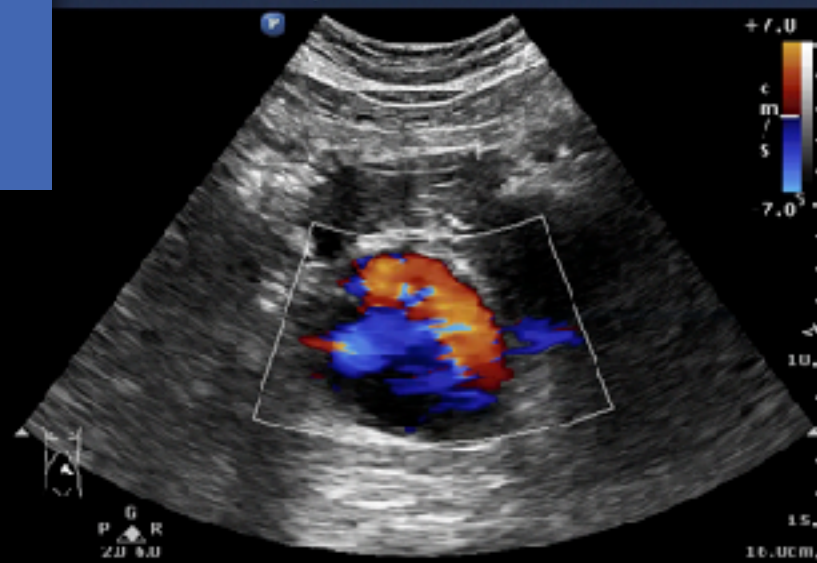
1

TemporaryID-20130919103650 PHILIPS Healthcare MI 0.5 9/19/2013 7:33:06 PM



3

TemporaryID-20130919103650 PHILIPS Healthcare MI 0.7 9/19/2013 7:34:42 PM



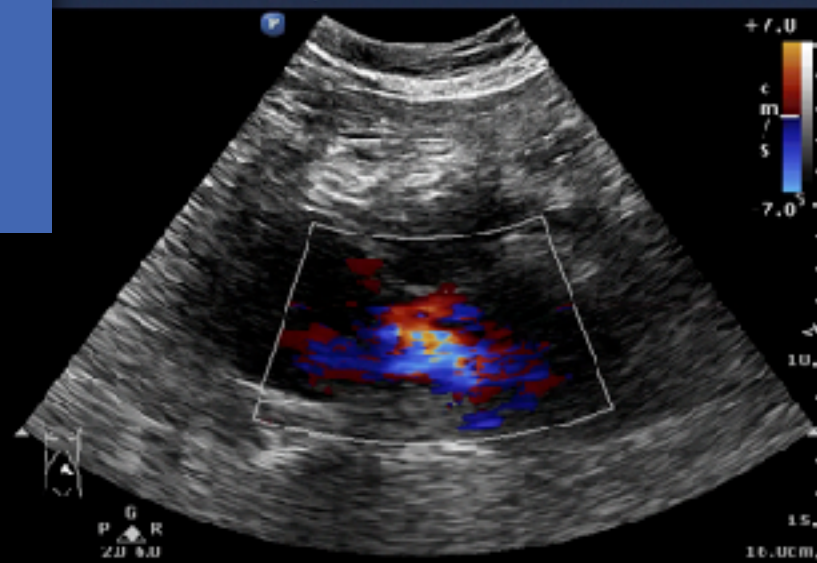
2

PHILIPS TemporaryID-20130919103650 PHILIPS Healthcare MI 0.5 9/19/2013 7:35:36 PM



4

PHILIPS TemporaryID-20130919103650 PHILIPS Healthcare MI 0.7 9/19/2013 7:35:02 PM



No. of stones

PHILIPS

彭文輝 01/25/1975
03560650

SKH-EUTC@ChenKC

Abd Gen
C5-1
34 Hz
15.0cm

2D
HGen
Gn 100
C 63
3/3/3



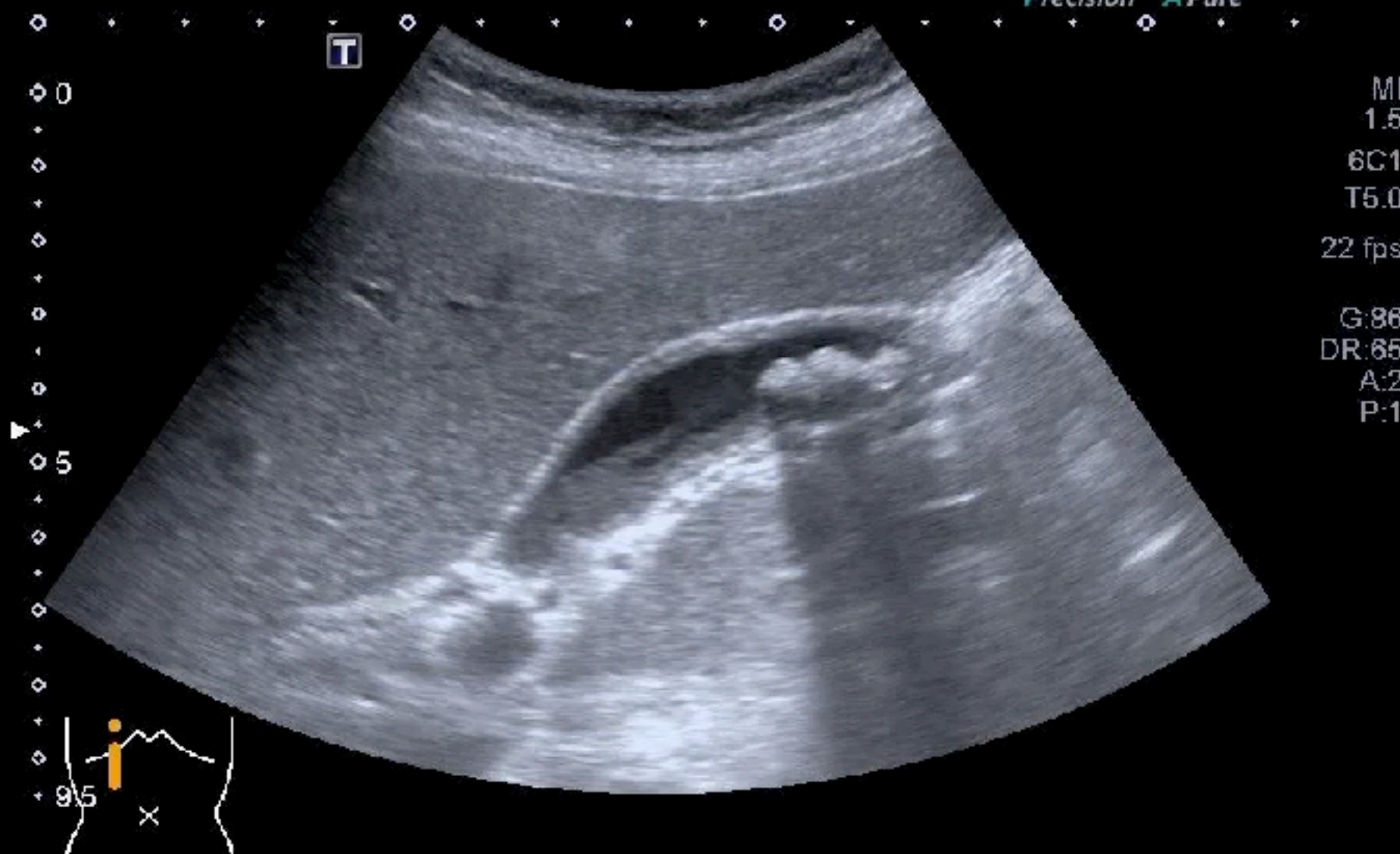
Subcostal scan

15.0cm

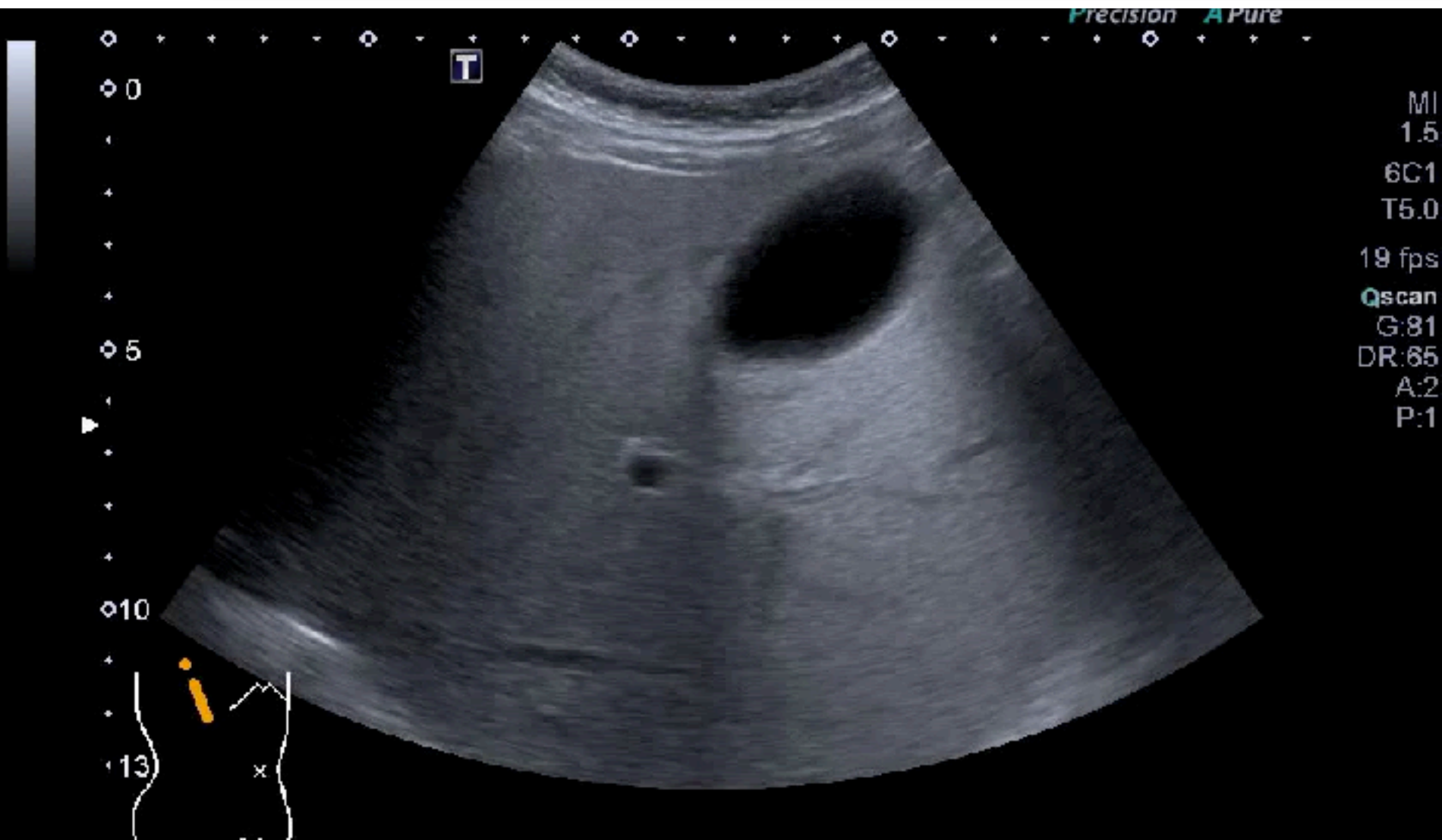
Name the lesion



No. of lesion types ?



No. of artifact types



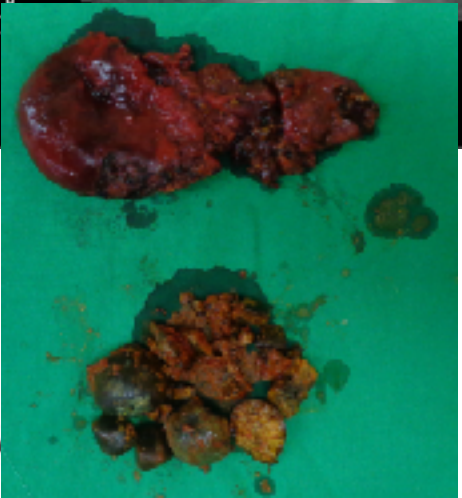
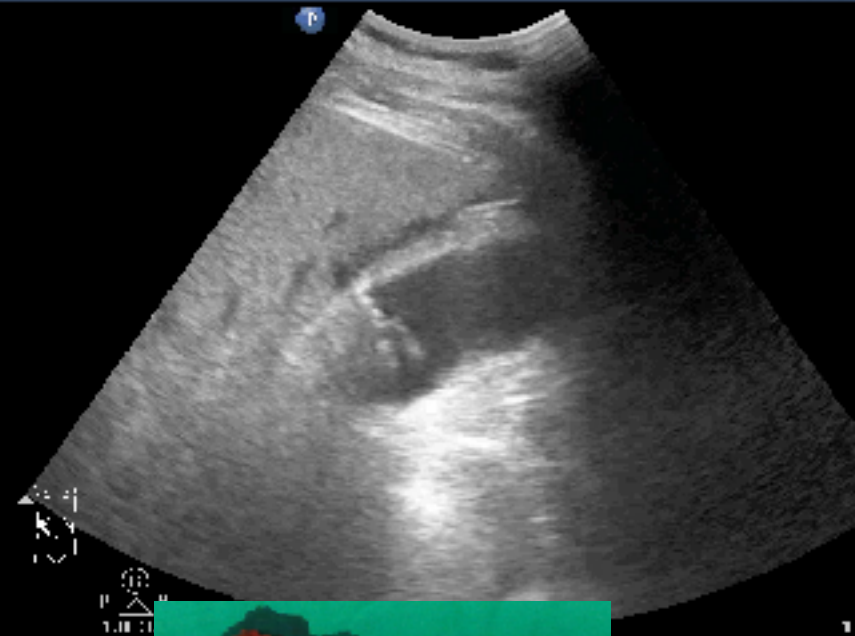
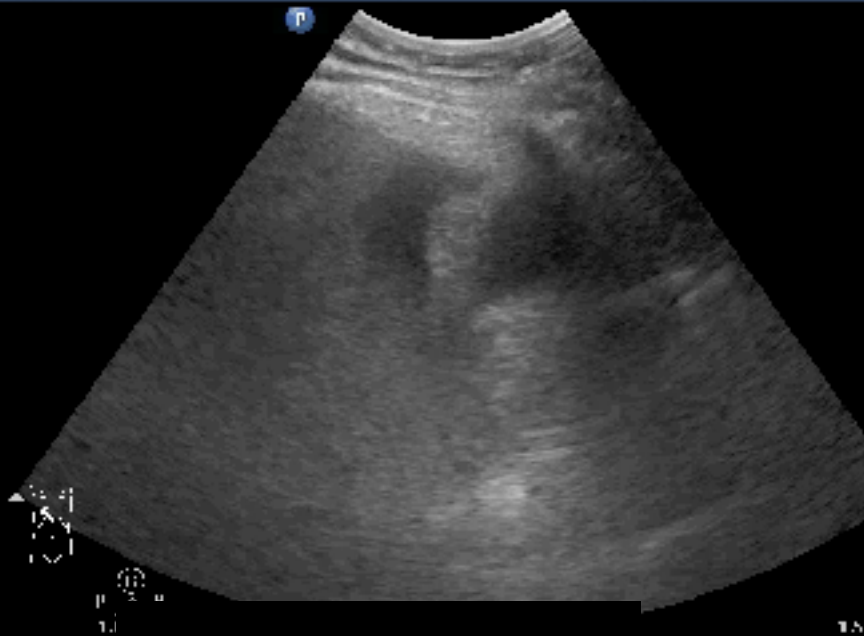
Name the major finding

Abd Gen2
C5 1
36 Hz
14.0cm

2D
HGen
Gn 100
C 56
3 / 3 / 3



45M, RUQ pain & fever



No. of lesion types

Abd Gen2
C5-1
31 Hz
17.0cm

2D
HGen
Gn 86
C. 56
3 / 3 / 3

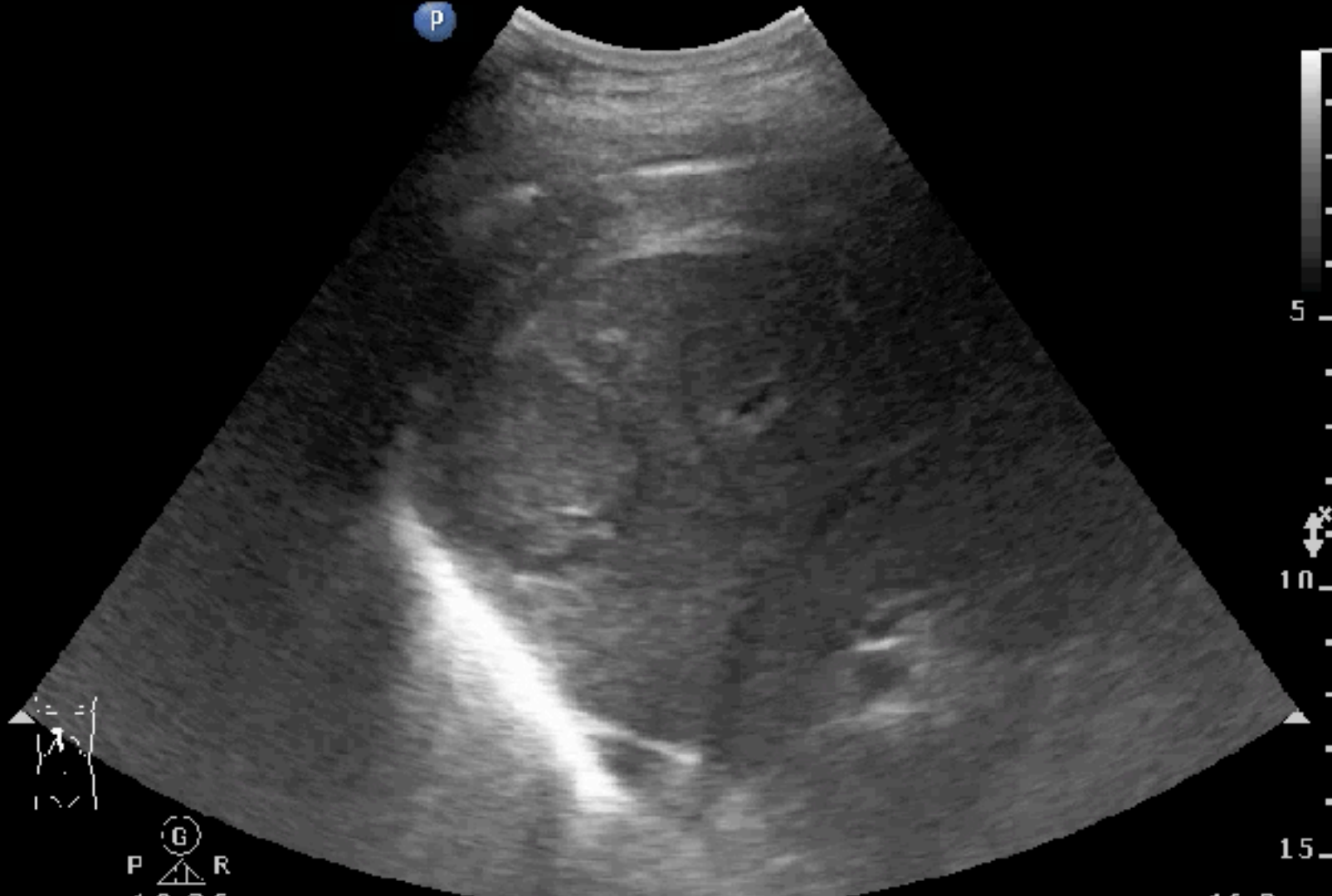


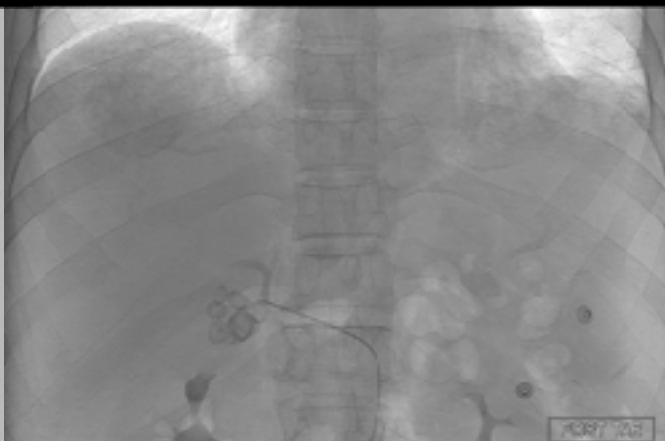
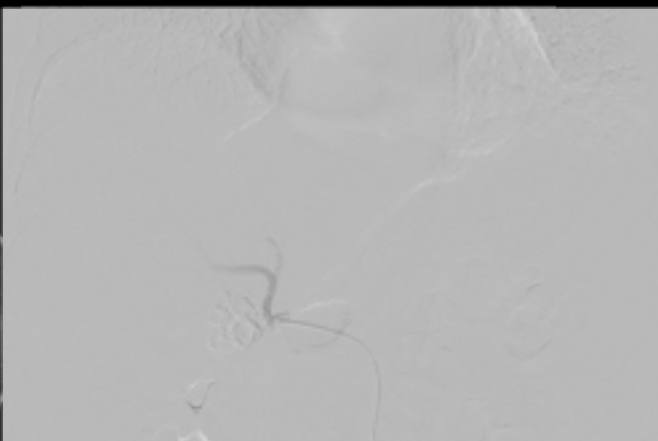
Possible cause of RUQ pain

Abd Gen2
C5-1
32 Hz
16.0cm

2D

HGen
Gn 100
C 56
3/3/3

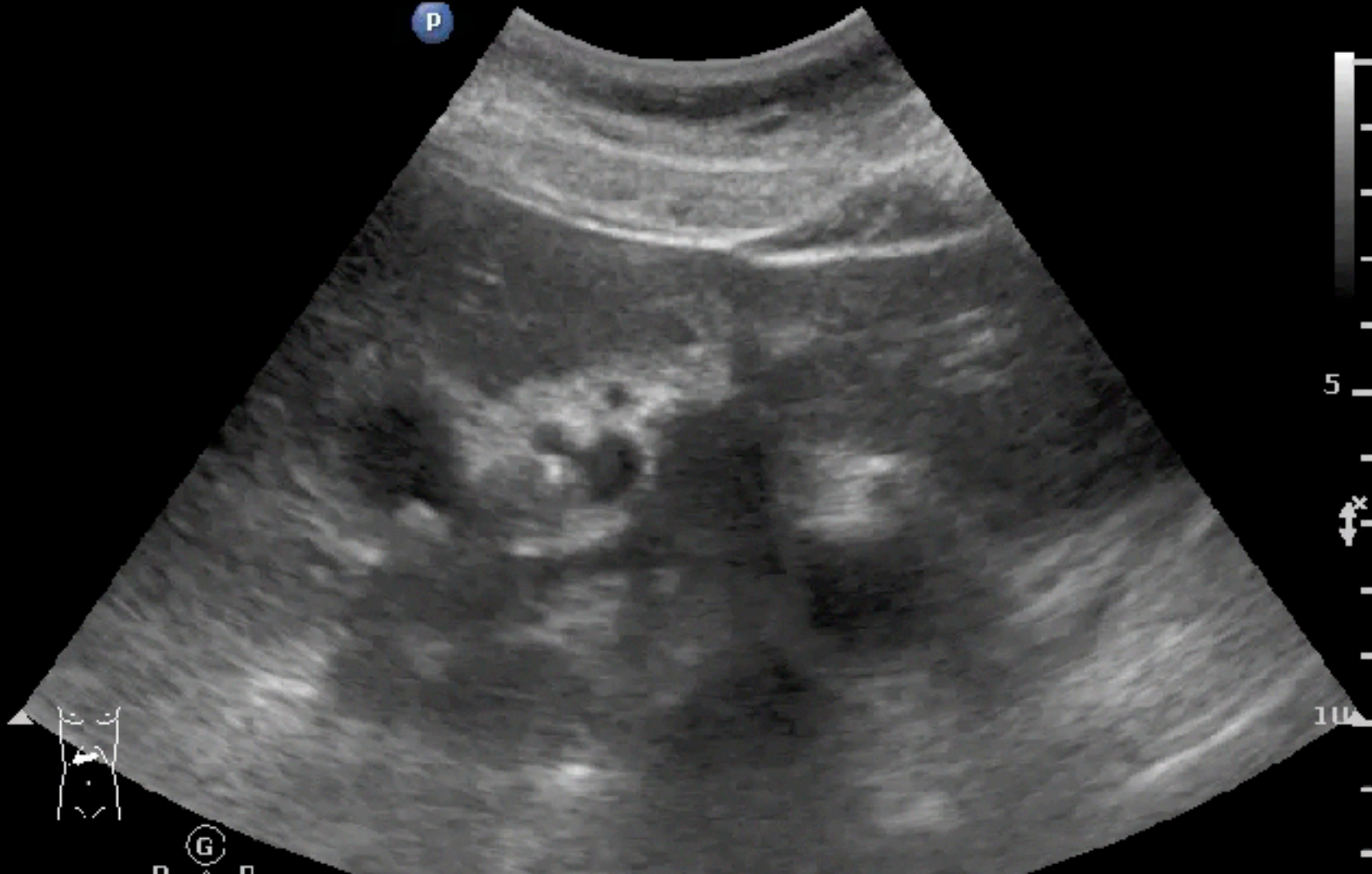




Mickey Mouse sign

d Gen
-1
Hz
.0cm

Gen
n 76
56
/3/3



Parallel channel sign

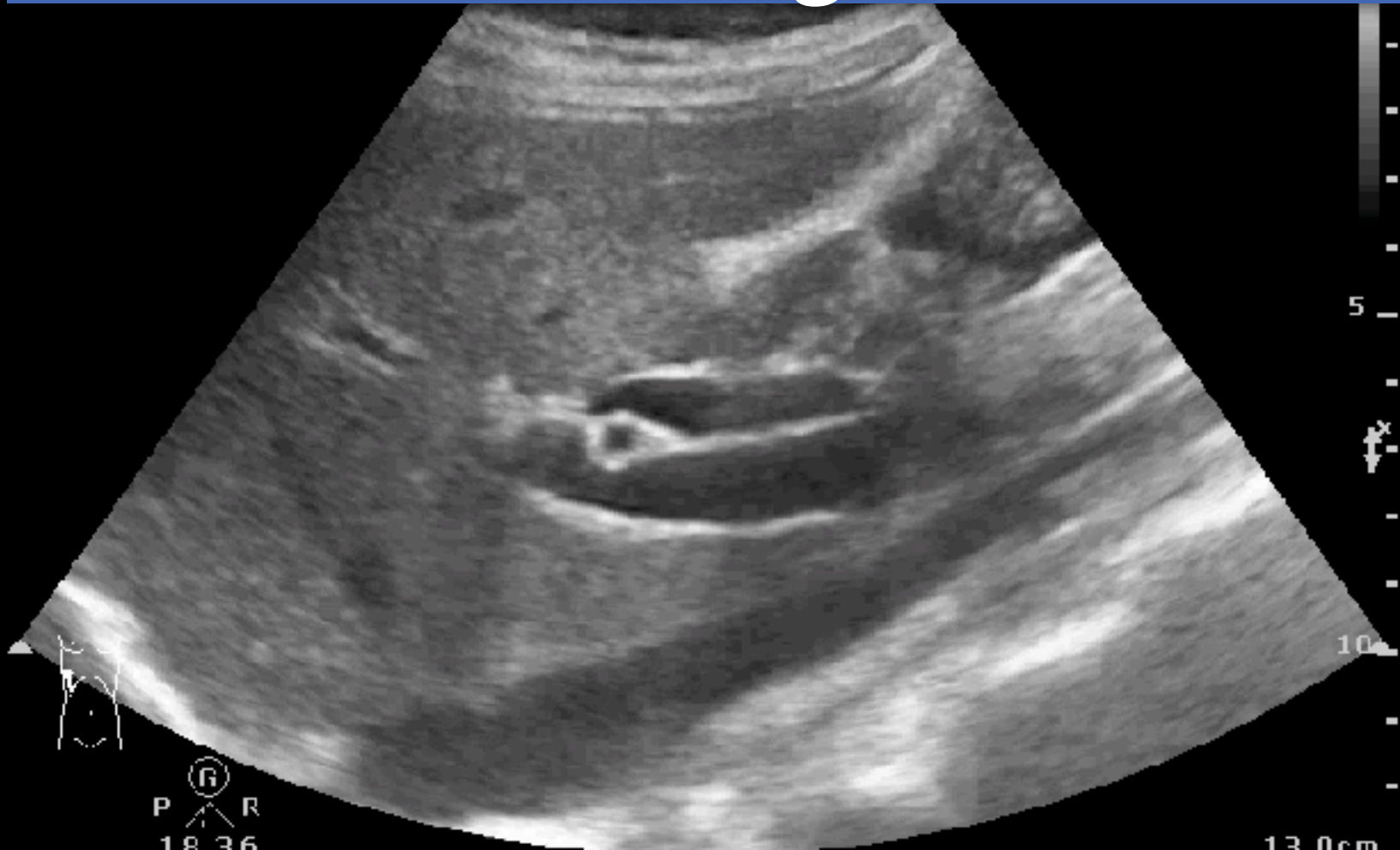
Shotgun sign

Olive sandwich sign

Abd Gen
C5-1
38 Hz
13.0cm

2D

HGen
Gn 82
C. 56
3 / 3 / 3

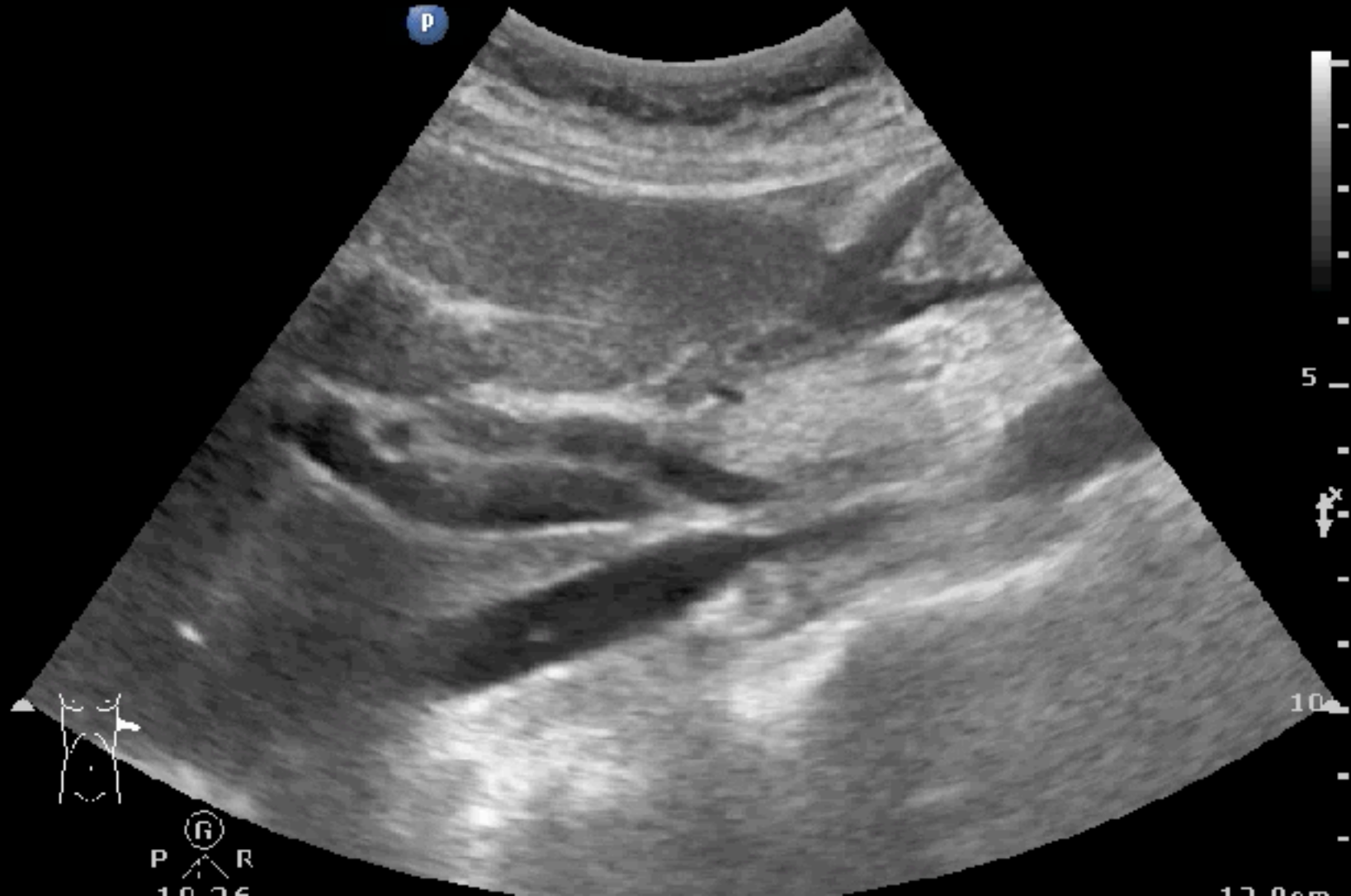


Cause of CBD dilatation

Abd Gen
C5-1
38 Hz
13.0cm

2D

HGen
Gn 82
C. 56
3 / 3 / 3



76F, Fever & Chills

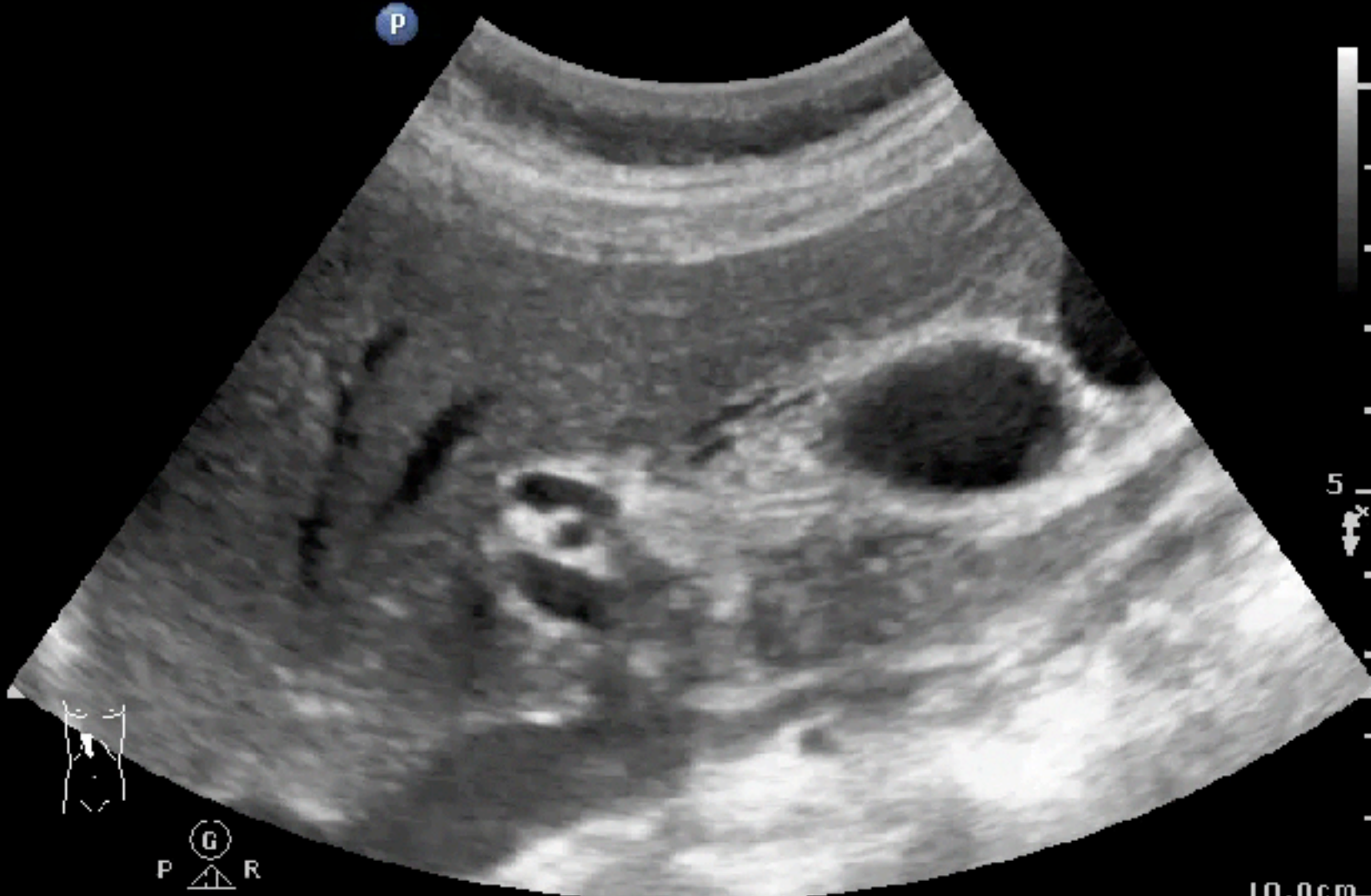
nd Gen2
-1
H7
.0cm
Gen
n 100
56
/3/3



Mirizzi syndrome ?

Abd Gen
C5-1
15 Hz
10.0cm

2D
HGen
Gn 76
C 56
3 / 3 / 3



Major finding(s)

PHILIPS

SKH-EUTC©ChenKC

Abd Gen
C5-1
31 Hz
17.0cm

2D
H:ien
Gr: 59
C: 56
3/3/3



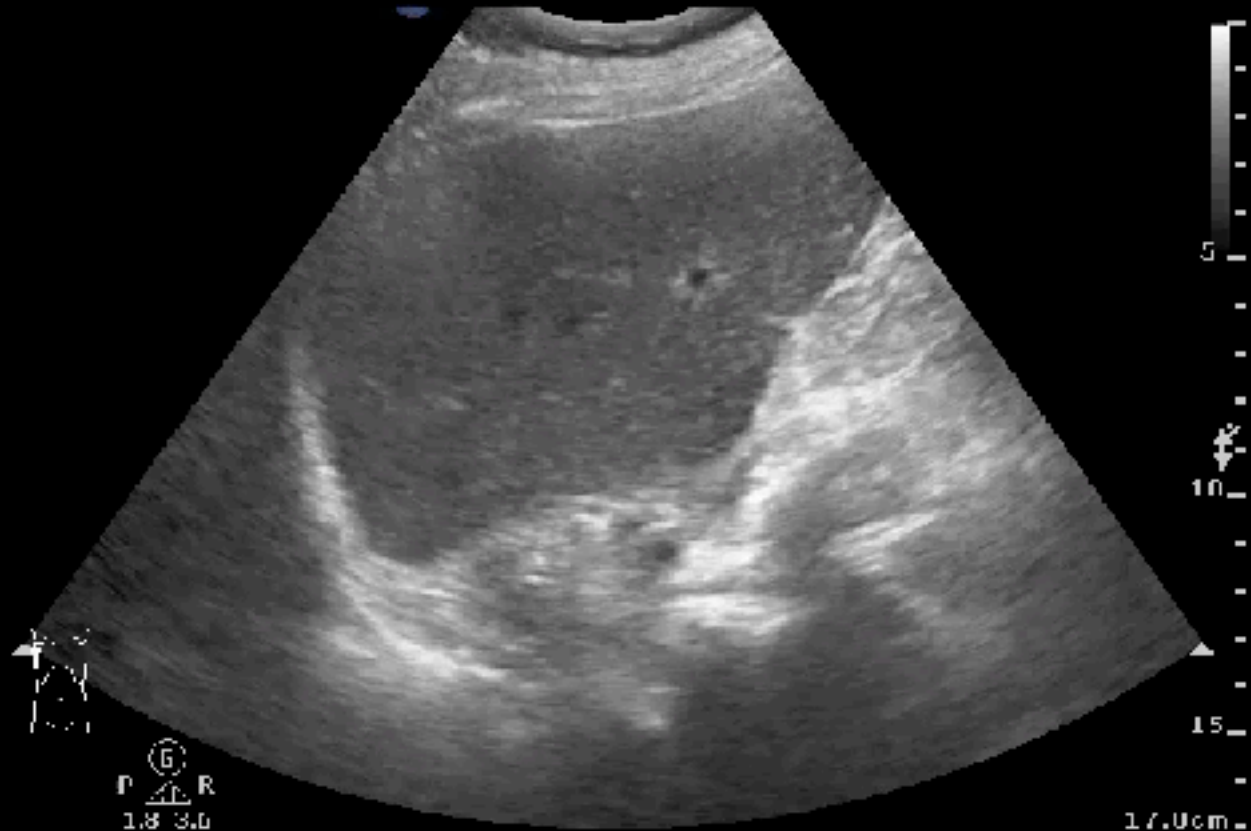
Veiled right kidney sign

PHILIPS

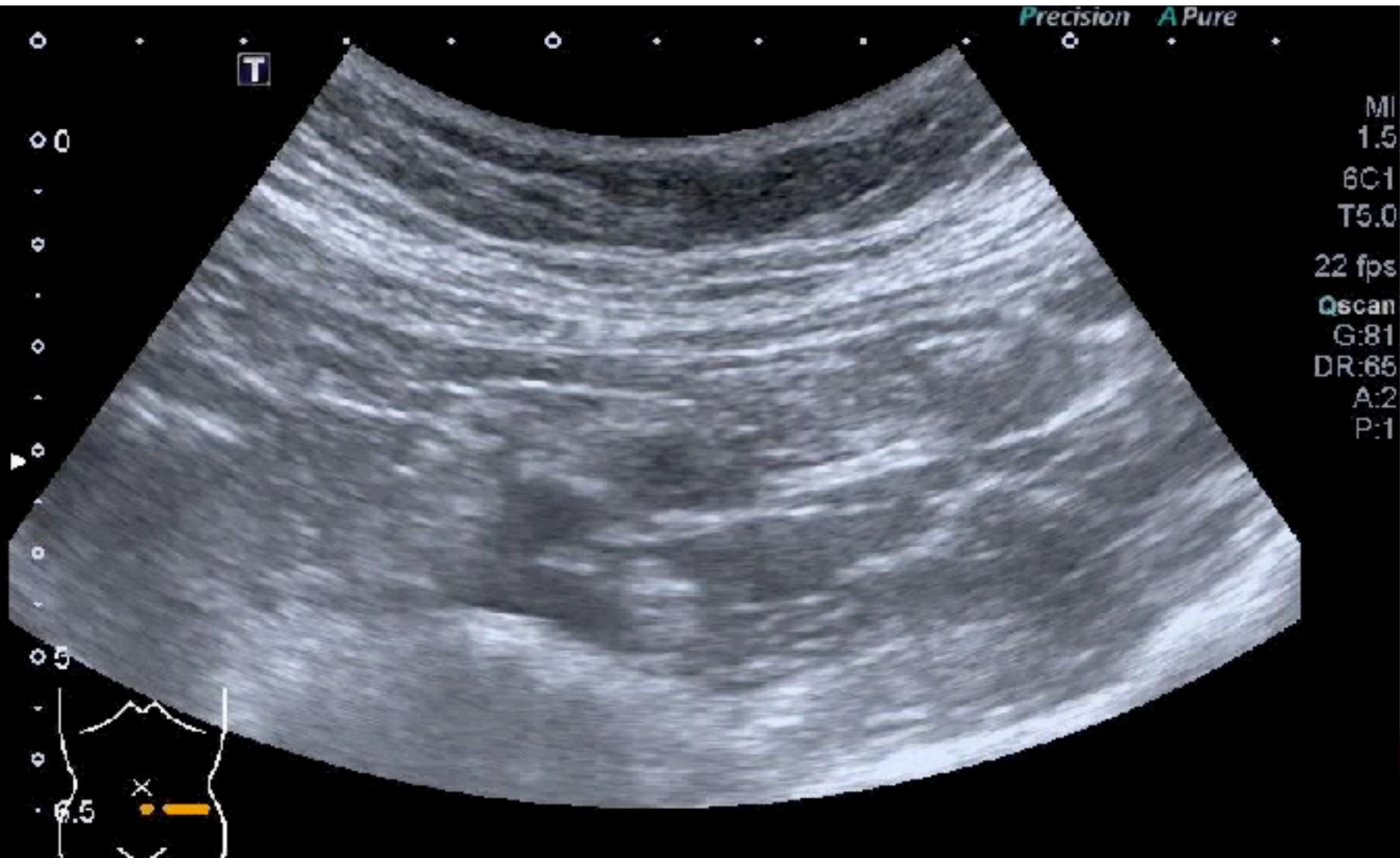
SKH-EUTC©ChenKC

Abd Ger.
C5-1
31 Hz
17.0cm

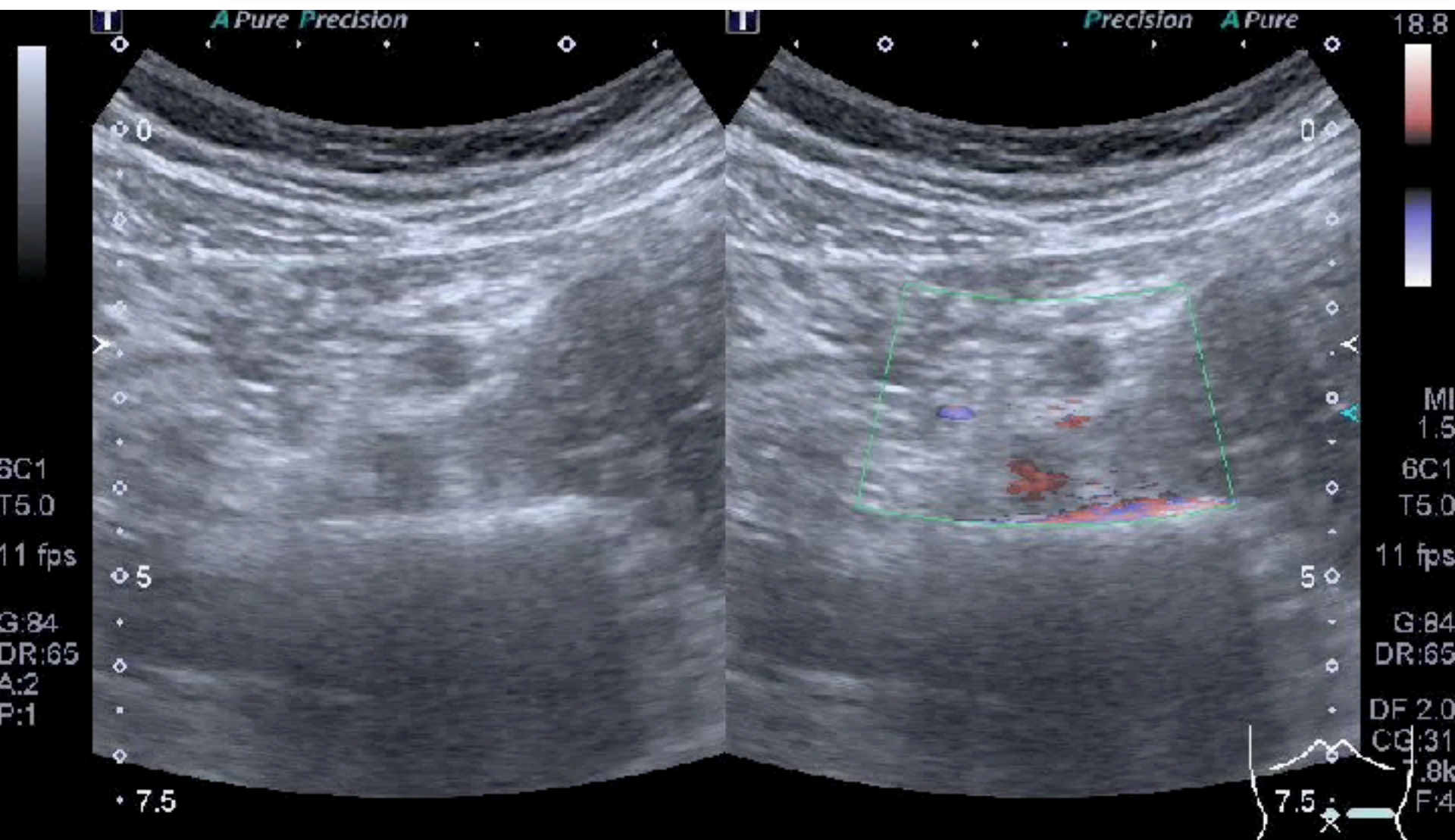
2D
11Gen
Gn 92
C 56
3/3/3



LLQ pain, cause ?



Twinkling artifact



LLQ pain with fever

PHILIPS

SKH-EUTCC©ChenKC

Abd Gen
C5 1
12 Hz
11.0cm

2D
HGen
On 100
C 56
3/3/3

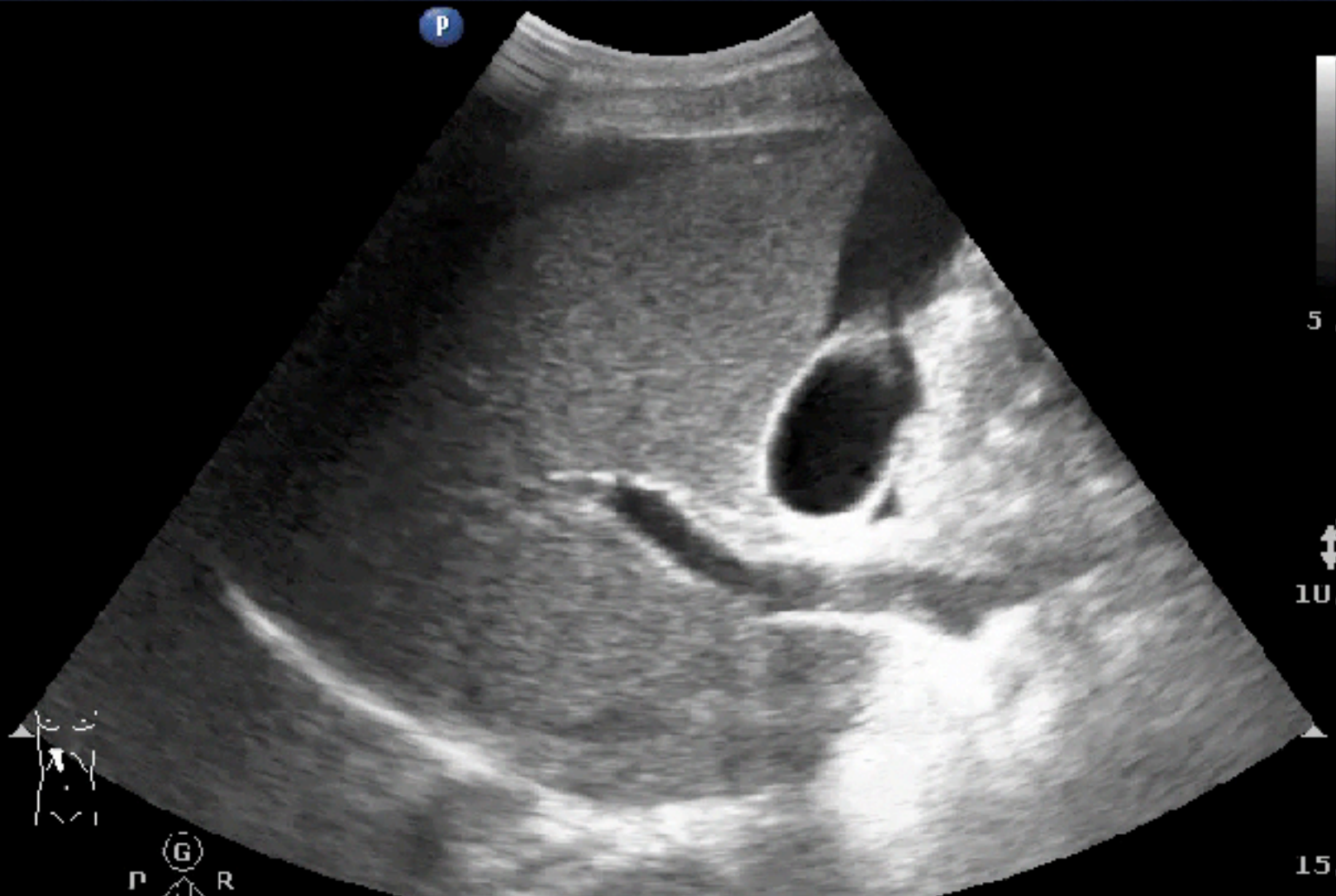


Transverse scan

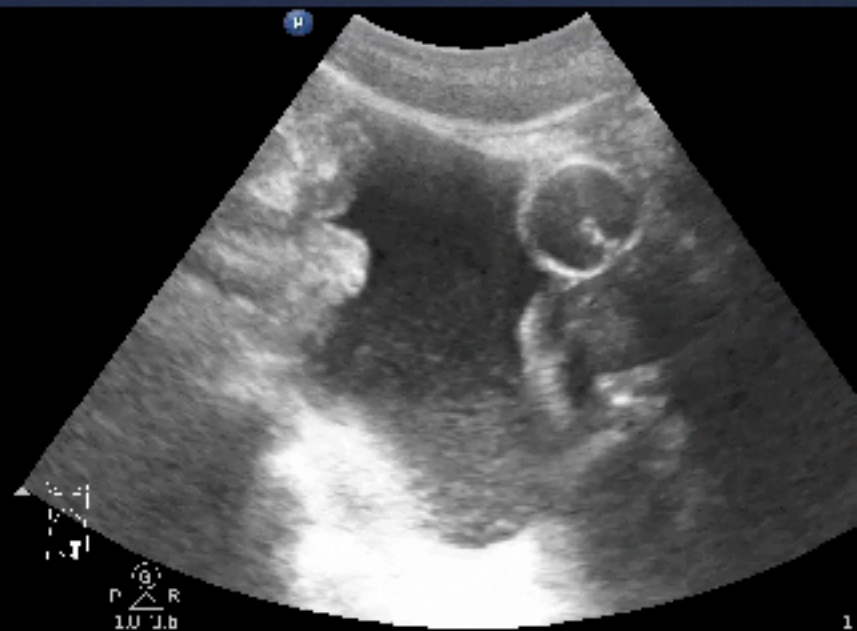
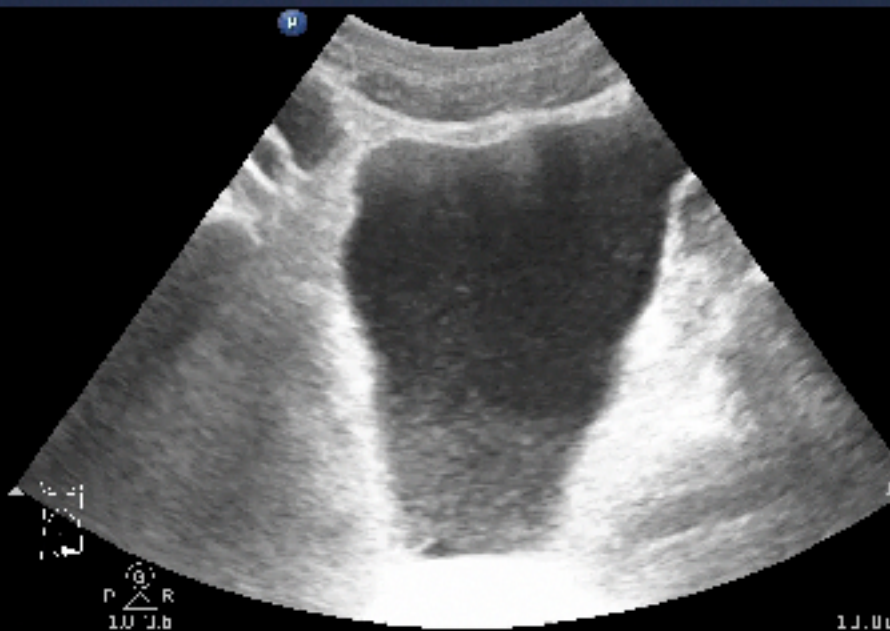
Fluid locations

Abd Gen
C5-1
32 Hz
16.0cm

2D
HGen
Gn 90
C 56
3 / 3 / 3



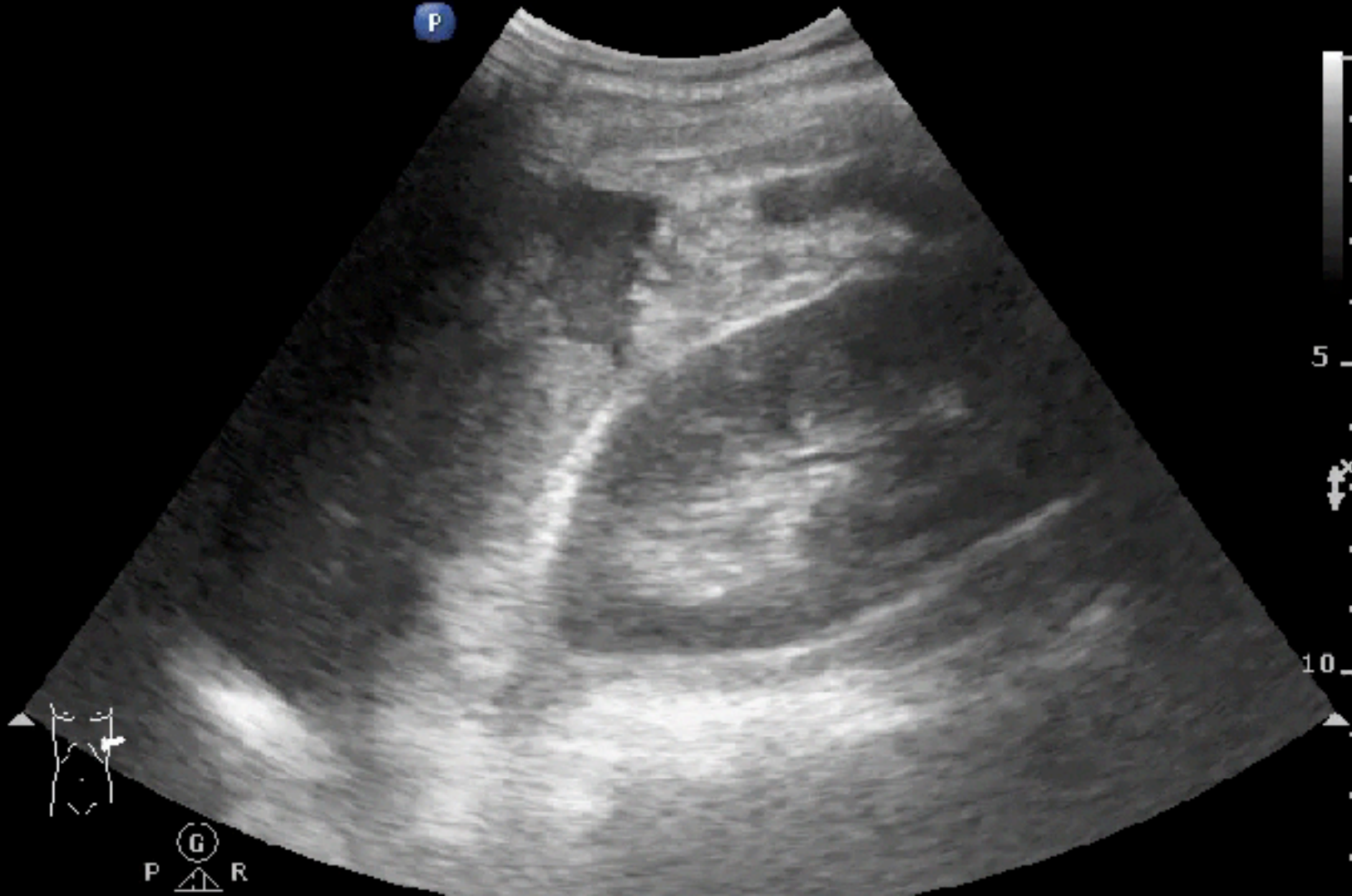
Trauma & shock

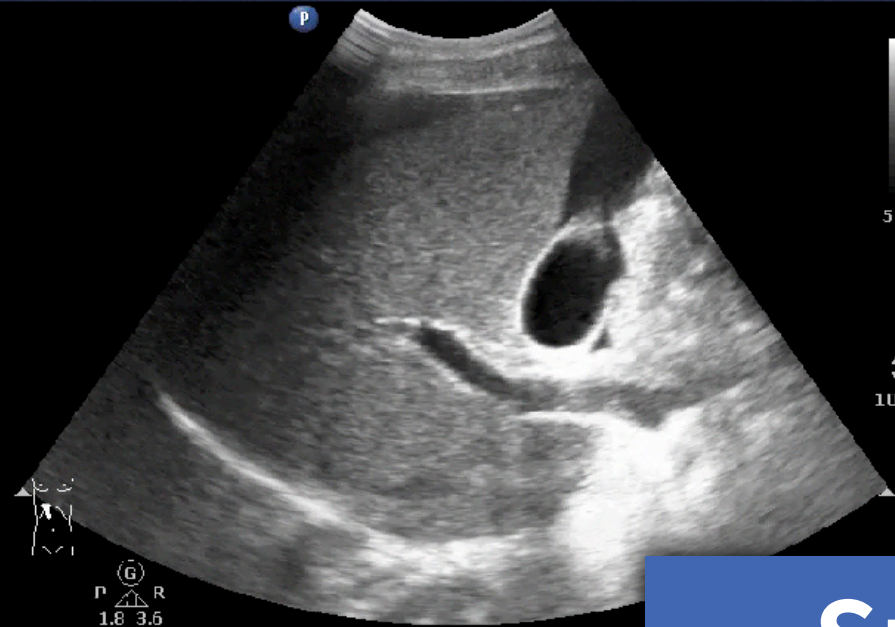


Major finding(s)

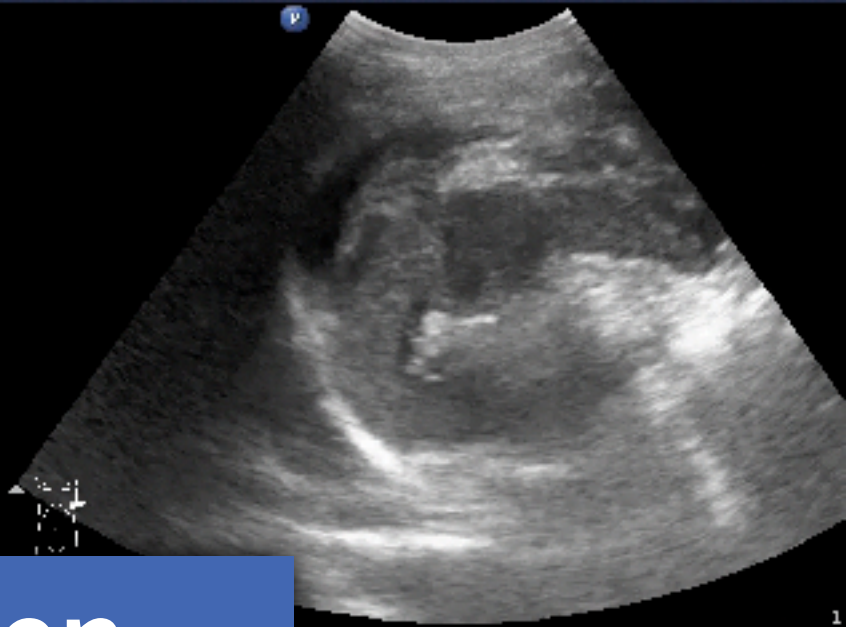
Abd Gen
C5-1
36 Hz
14.0cm

2D
HGen
Gn 90
C 56
3 / 3 / 3

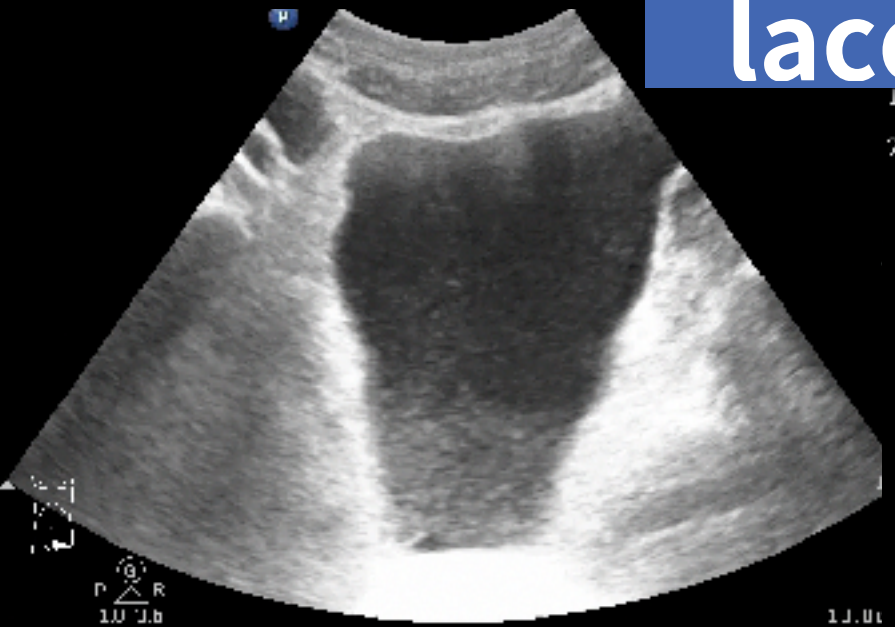




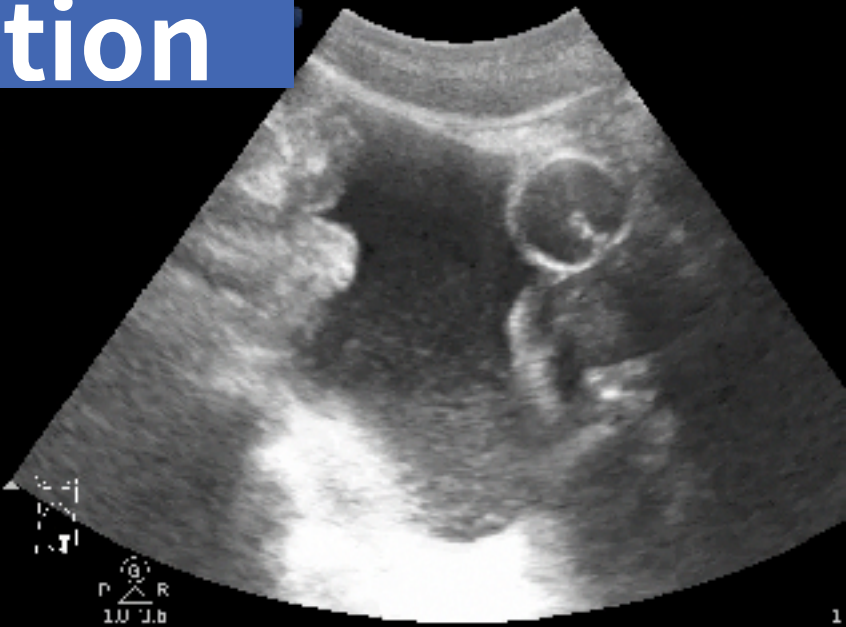
11 Gen
11 H7
11.0cm
11 Gen
11 90
11 56
11 3/3/3



Spleen laceration



11.0cm
11 Gen
11 H7
11 90
11 56
11 3/3/3

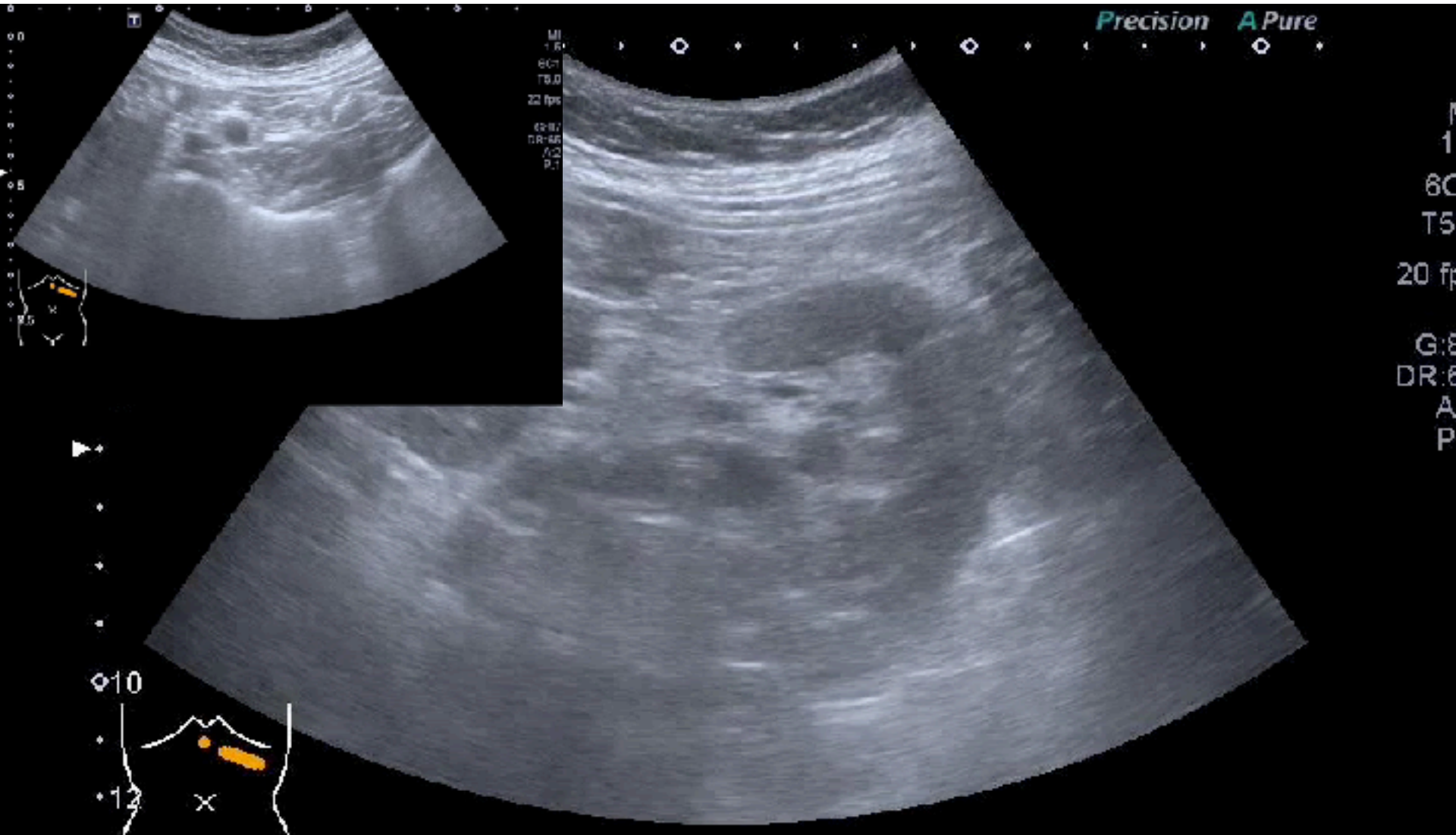


11 Gen
11 H7
11.0cm
11 Gen
11 90
11 56
11 3/3/3

Major finding



Level of obstruction

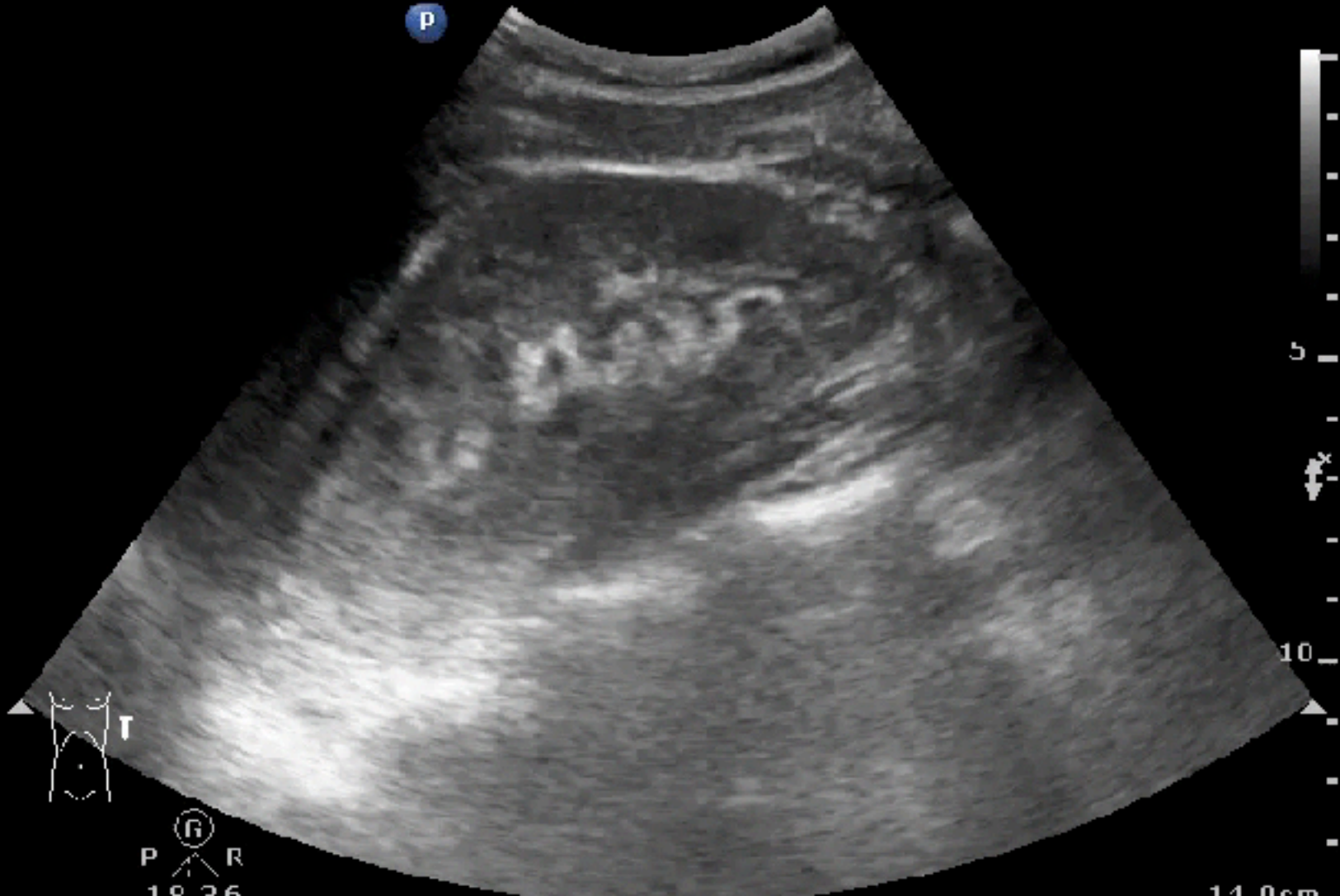


3 major findings

Abd Gen
C5-1
36 Hz
14.0cm

2D

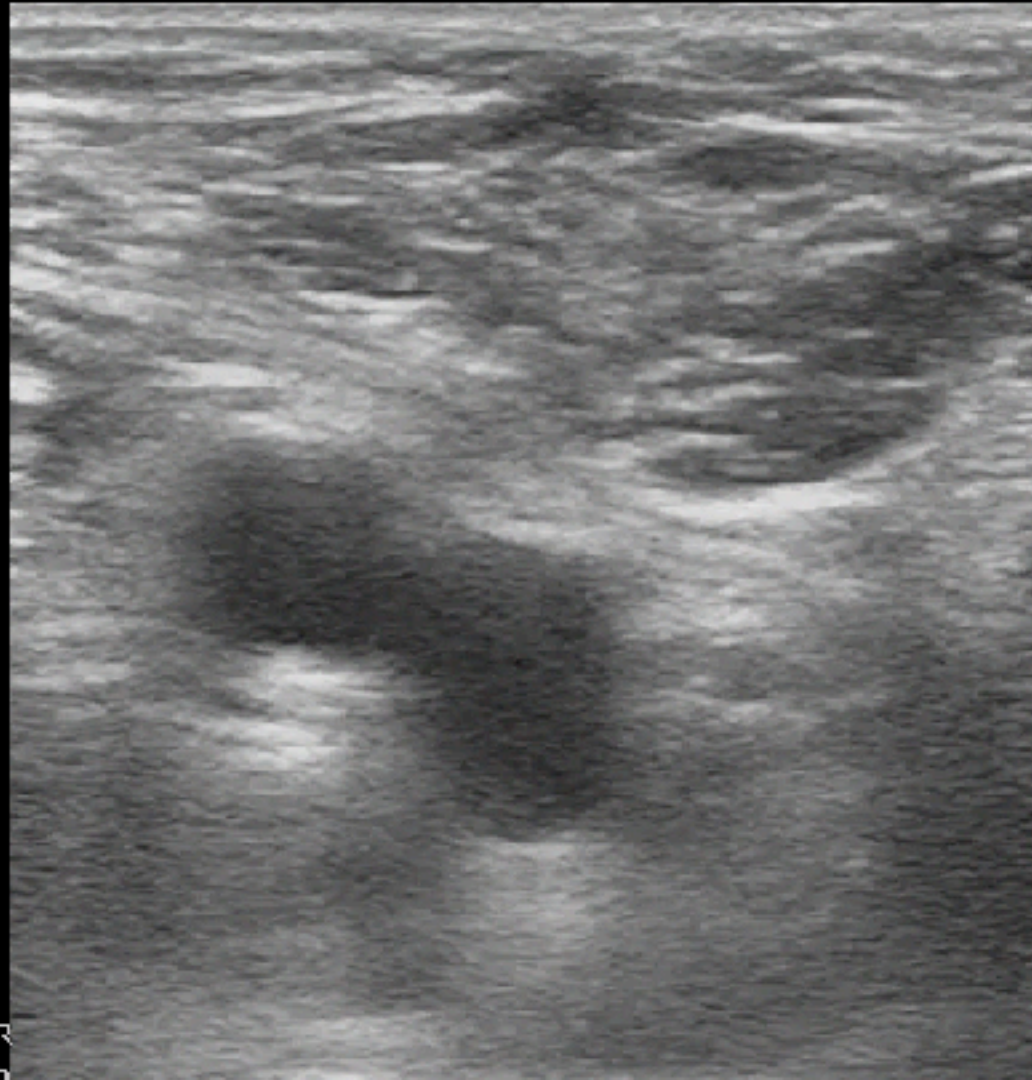
HGen
Gn 76
C. 56
3 / 3 / 3



Level of lesion

Venous
L12-3
37 Hz
4.0cm

2D
HGen
Gn 96
C. 41
3/3/2




P R
11.00

2

4.0cm

Small bowel obstruction



Abd Gen
C5-1
45 Hz
10.0cm

2D
HGen
Gn 51
C 56
3/3/3



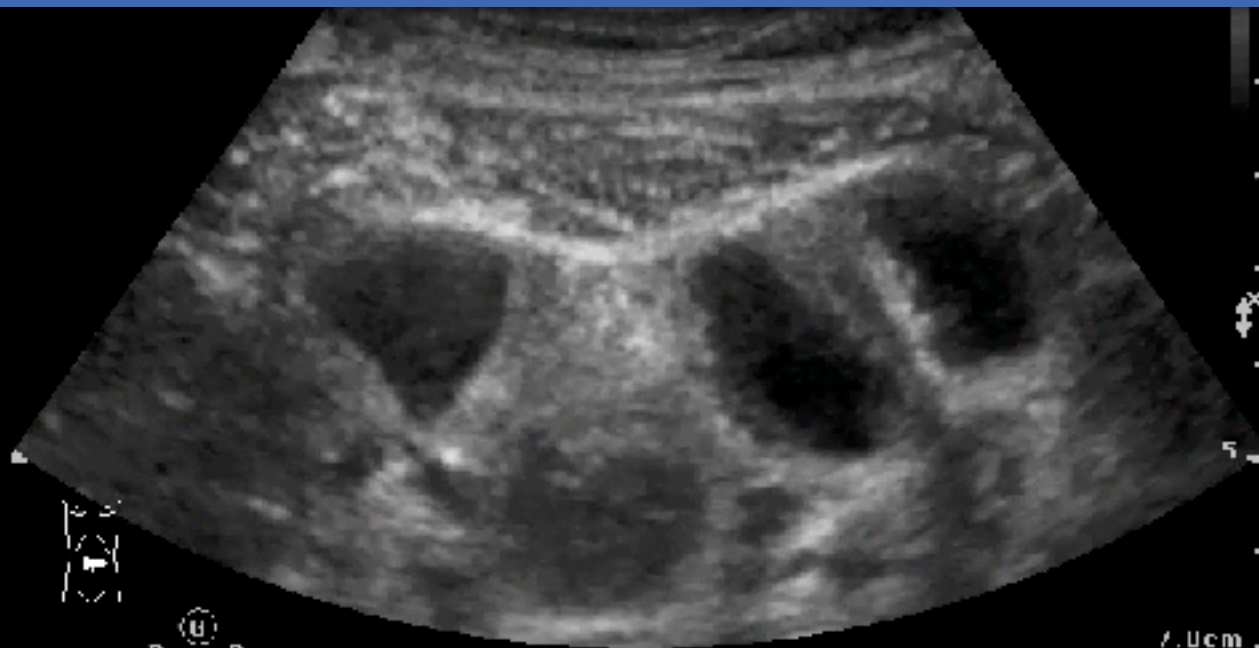
Abd Gen
C5-1
45 Hz
10.0cm

2D
HGen
Gn 45
C 56
3/3/3



Small bowel obstruction

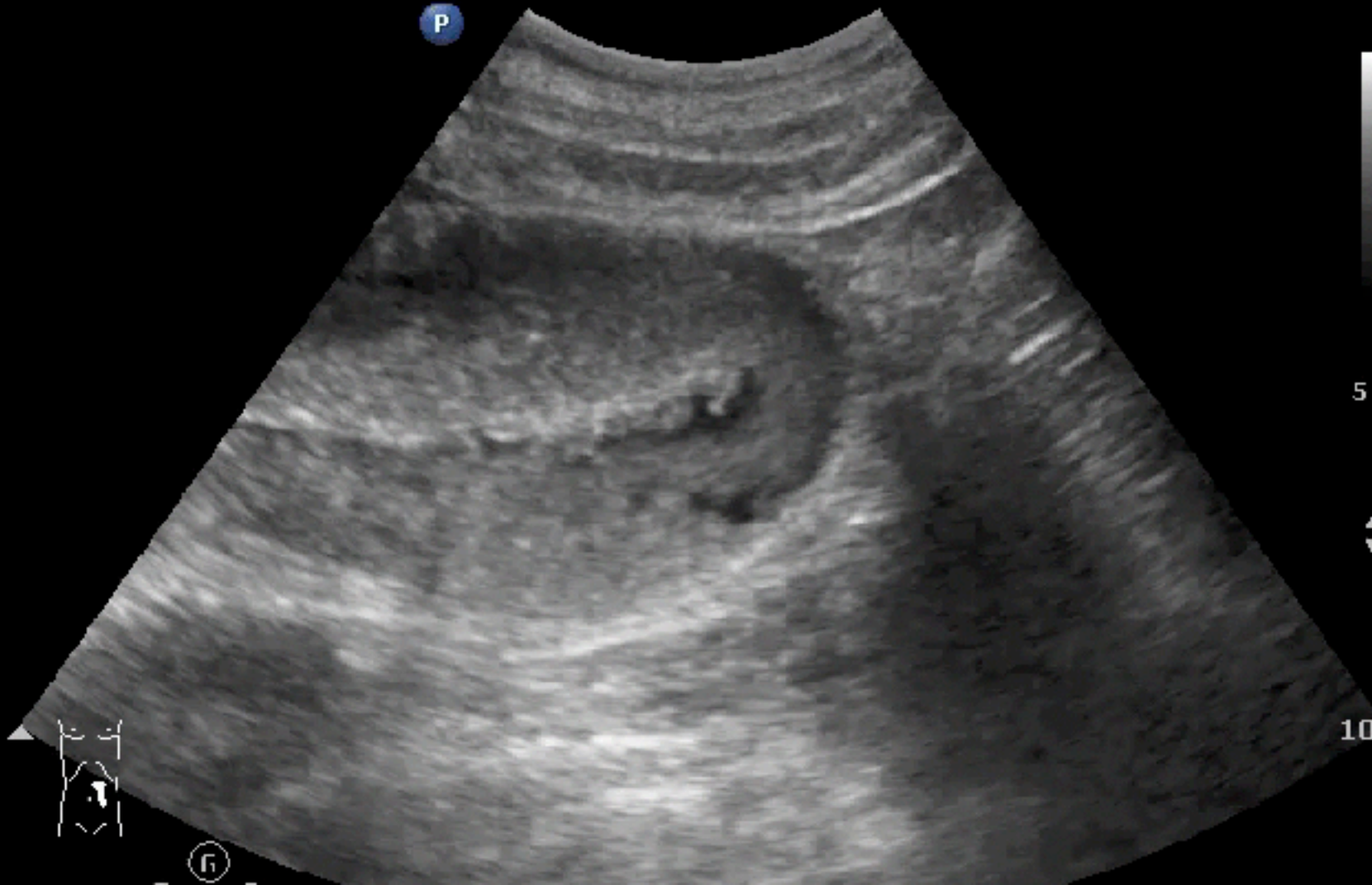
2D
HGen
Gn 67
C 56
3/3/3



Name of bowel & Signs

bd Gen
5-1
8 Hz
3.0cm

D
HGen
Gn 80
C 56
3/3/3

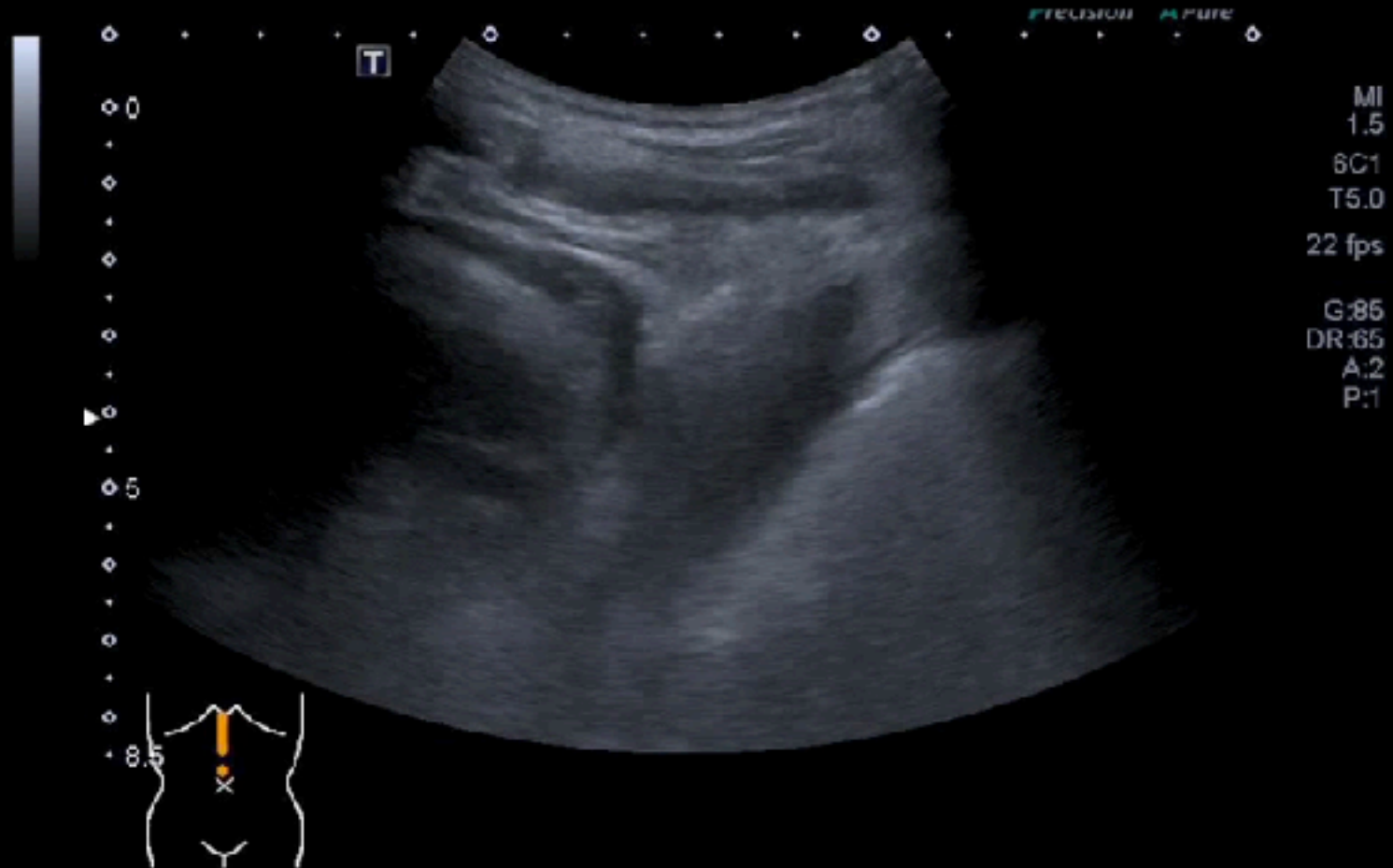


Major finding



Major finding

POCUSAcademy@ChenKC



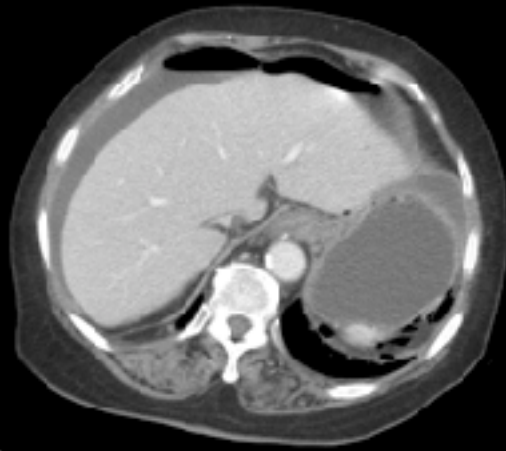
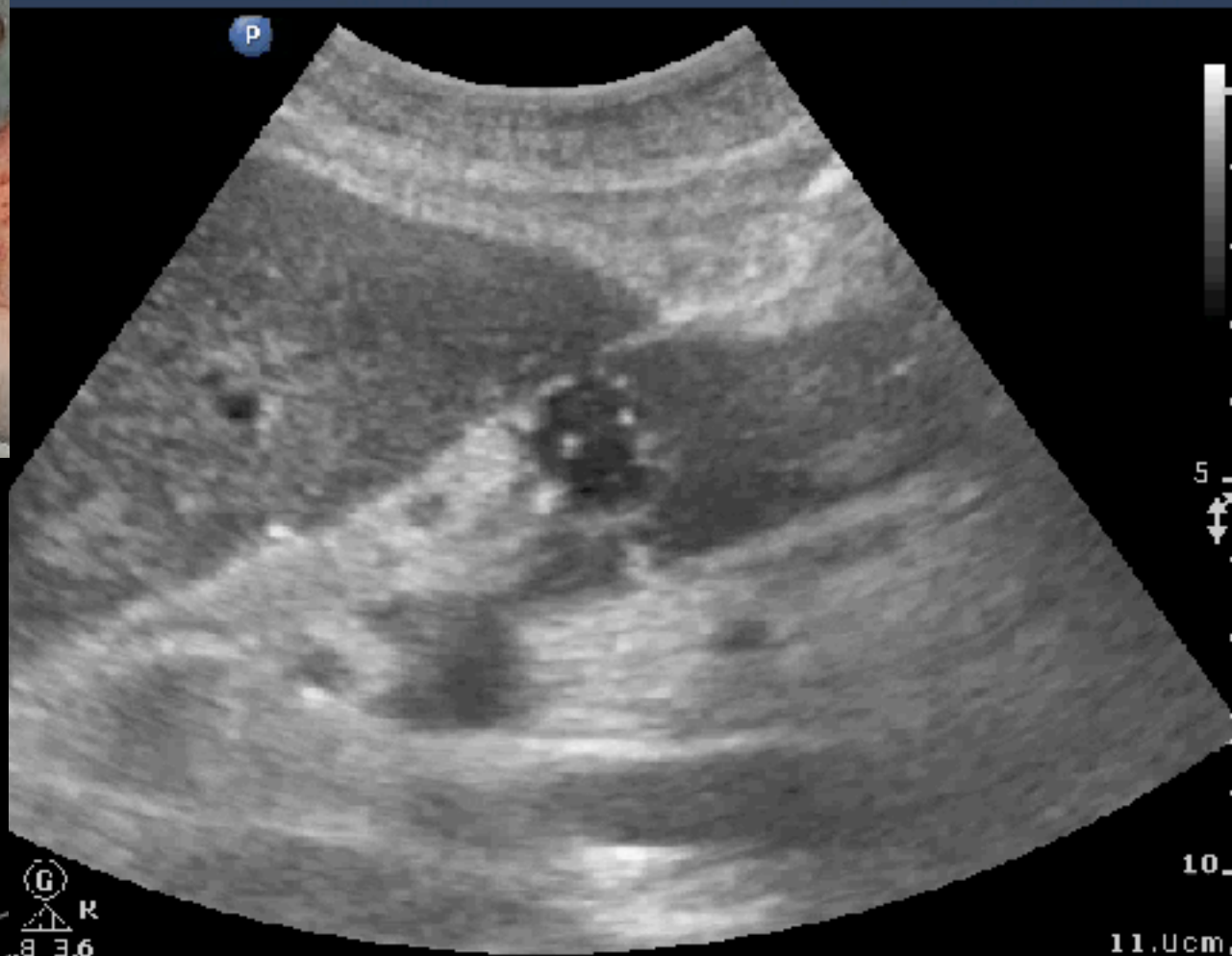
80F, diffuse abdominal pain

bd Gen2
5-1
5 Hz
0.0cm

D
-Gen
Gn 100
C 56
3/3/3



PPU



G
R
8 3.6

11.Ucm

Free air: 往上找

Liver surface



Curtain sign



EPSS



EPSS: Enhanced peritoneal strip sign

Dirty ascites: 往下流



Major finding

Abd Gen2
C5-1
51 Hz
8.0cm

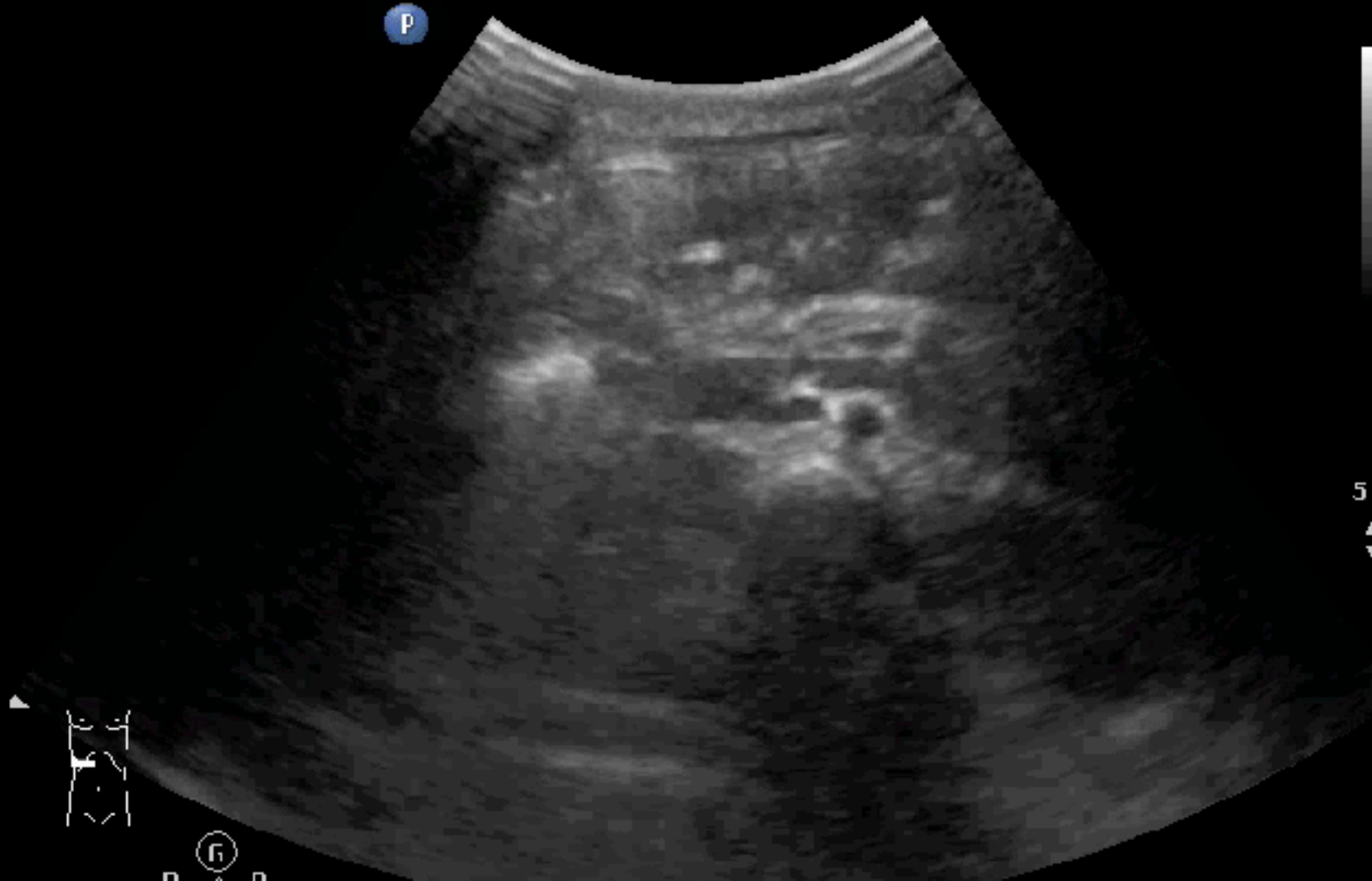
2D
HGen
Gn 60
C 56
3/3/3



7m, retching

bd Gen
5-1
5 Hz
0.0cm

D
HGen
Gn 72
C 56
3/3/3



Year of video

TIS 0.1 11:07:32 AM

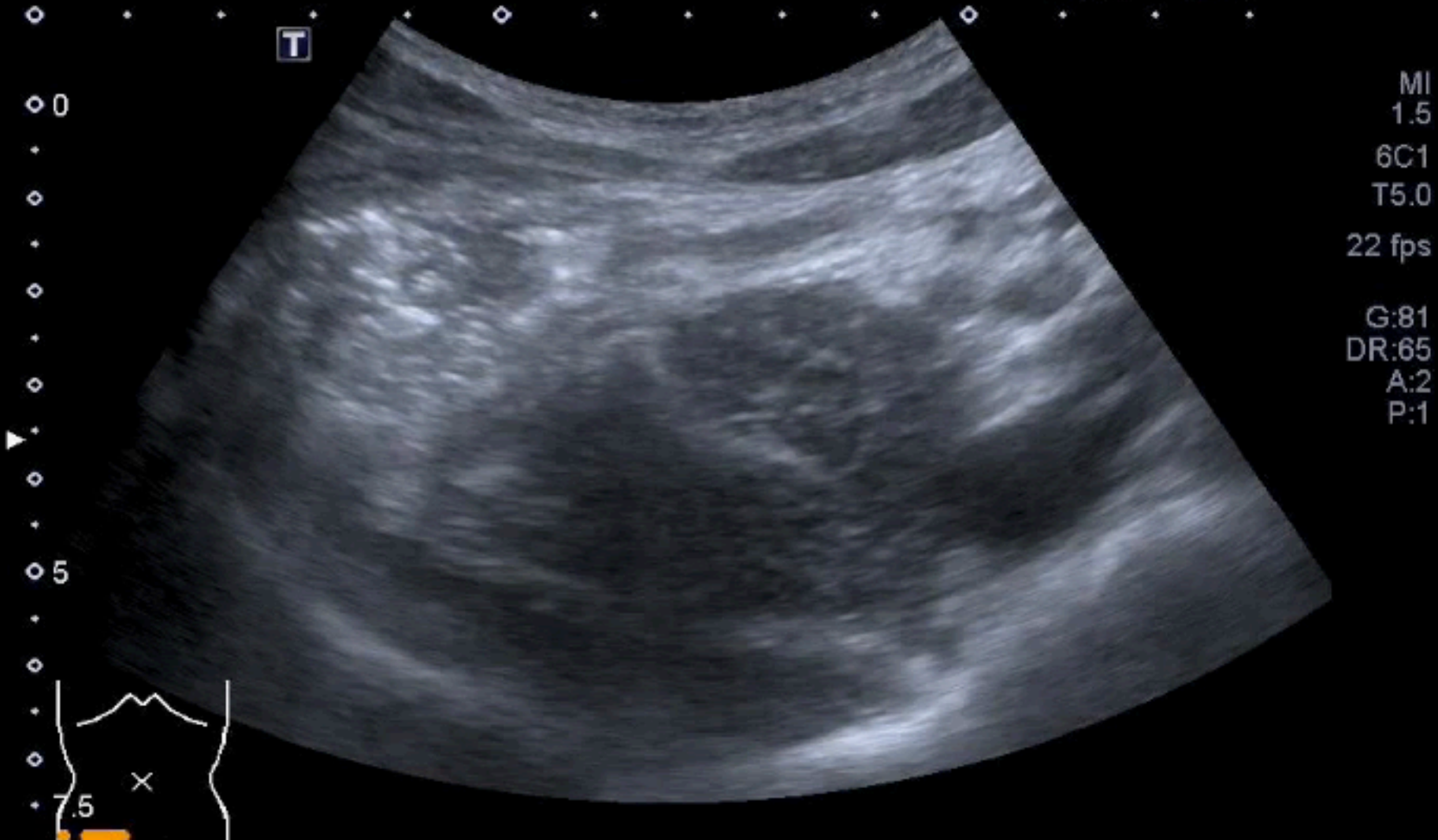
Abd Gen
C5-1
47 Hz
9.0cm

2D
HGen
Gn 72
C. 56
3 / 3 / 3

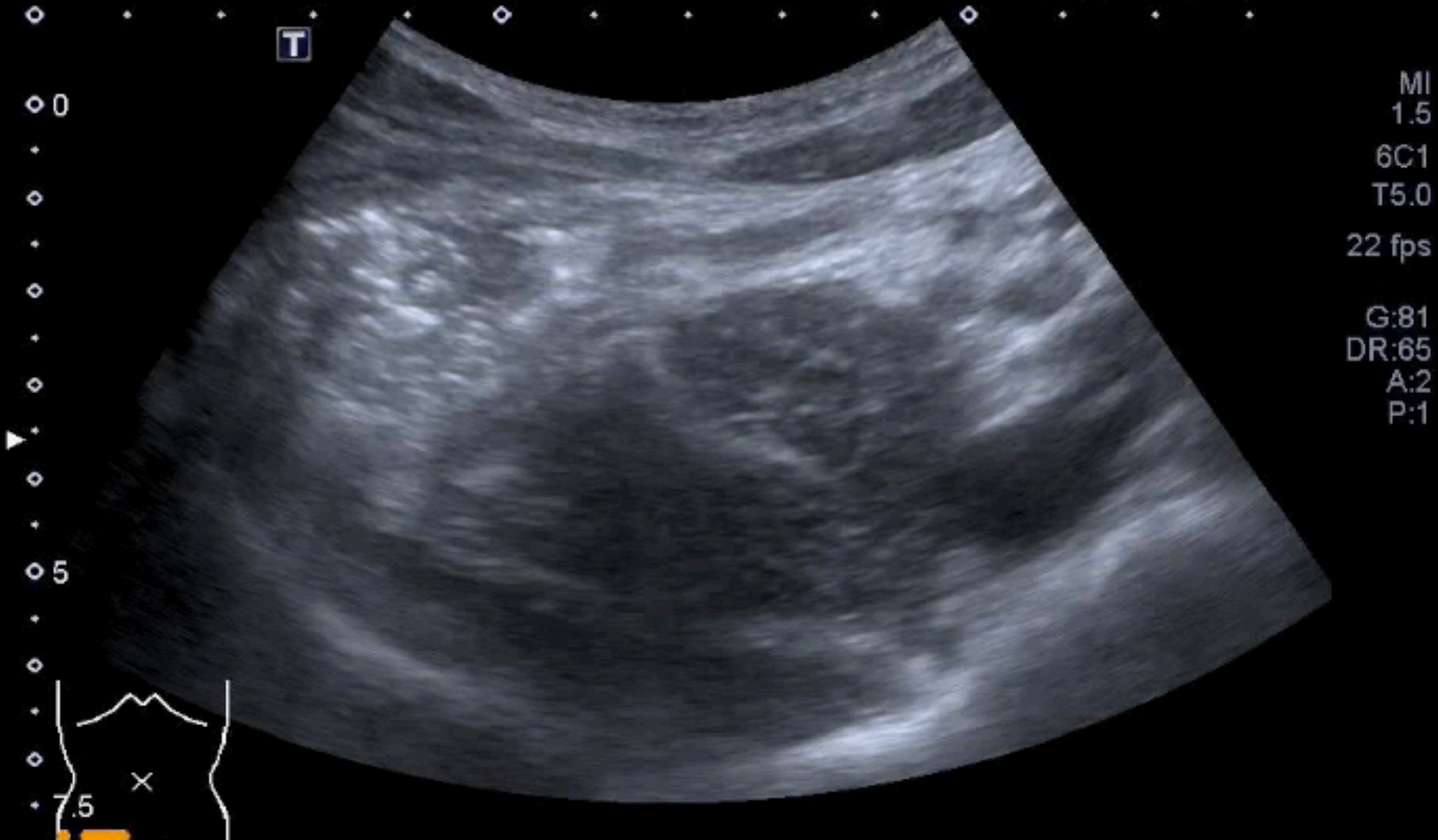


9.0cm

Cause of RLQ pain

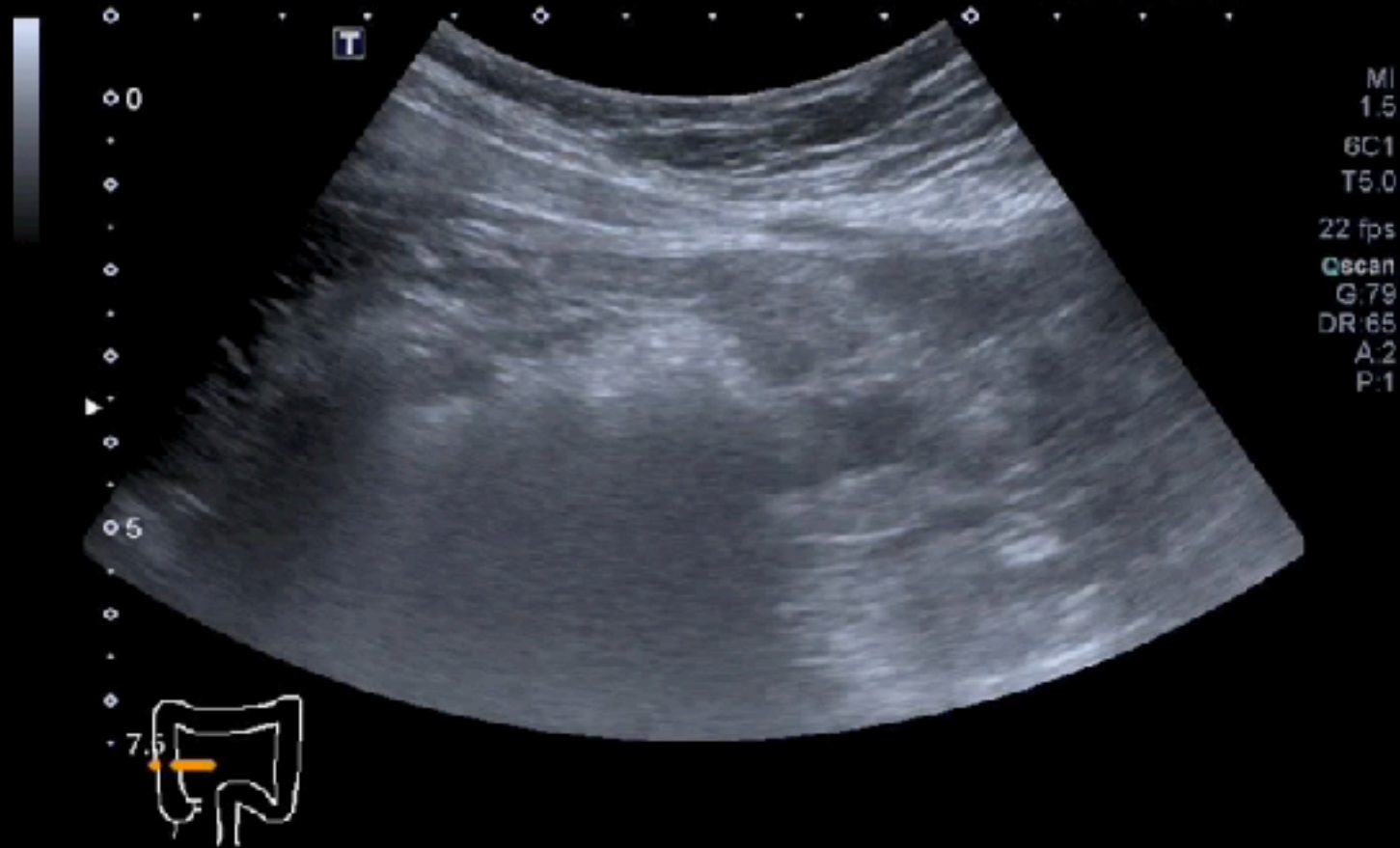


Appendicitis



Possible level of lesion

POCUSAcademy©ChenKC



Level of lesion

PHILIPS

SKH-EUTCC©ChenKC

Abd Gen?
C5 1
45 Hz
10.0cm

2D
HGen
Gr 88
C 56
J 7/3/3



to and fro movement of bowel content

Major findings in A & B



Abd Gen2
CS-1
47 Hz
9.0cm

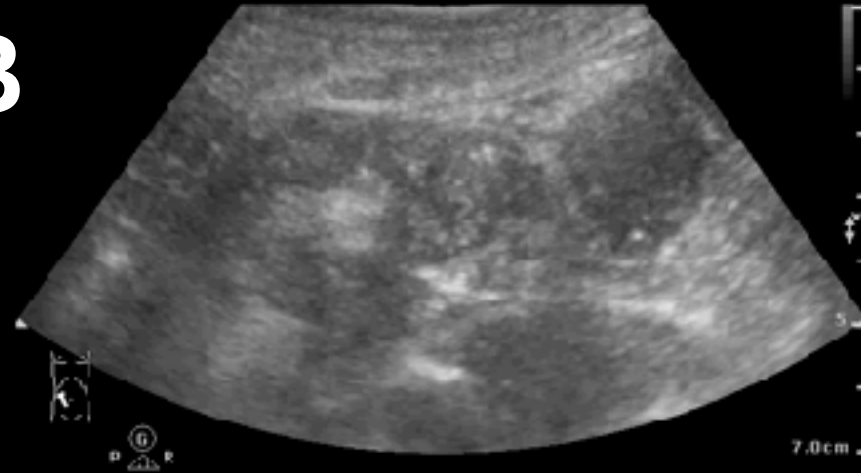
A



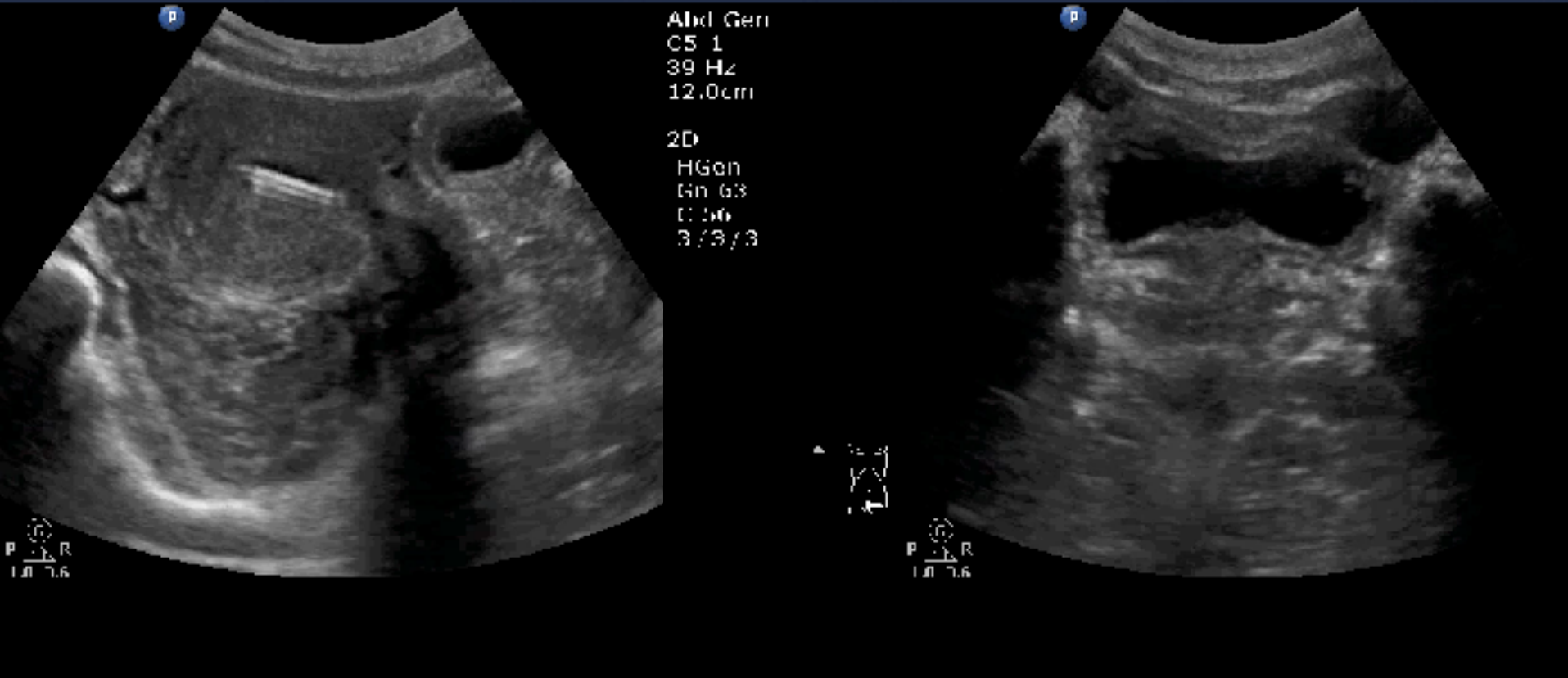
2D
HGen
Gn 77
C 56
3/3/3

2D
HGen
Gn 77
C 56
3/3/3

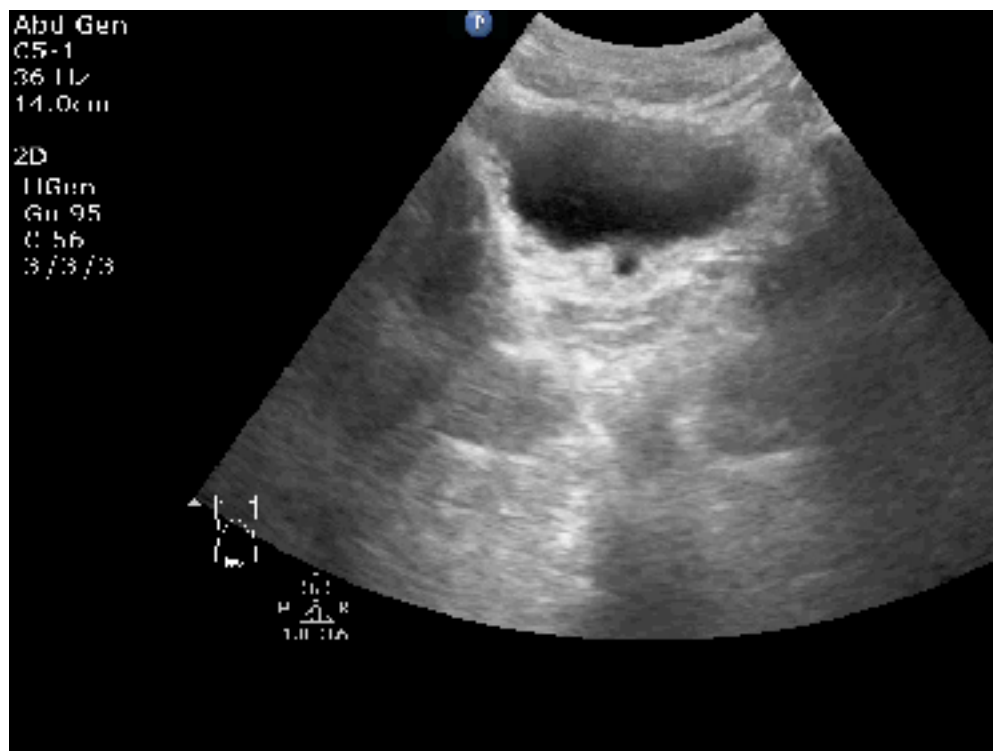
B



33F, low ABD pain & shock



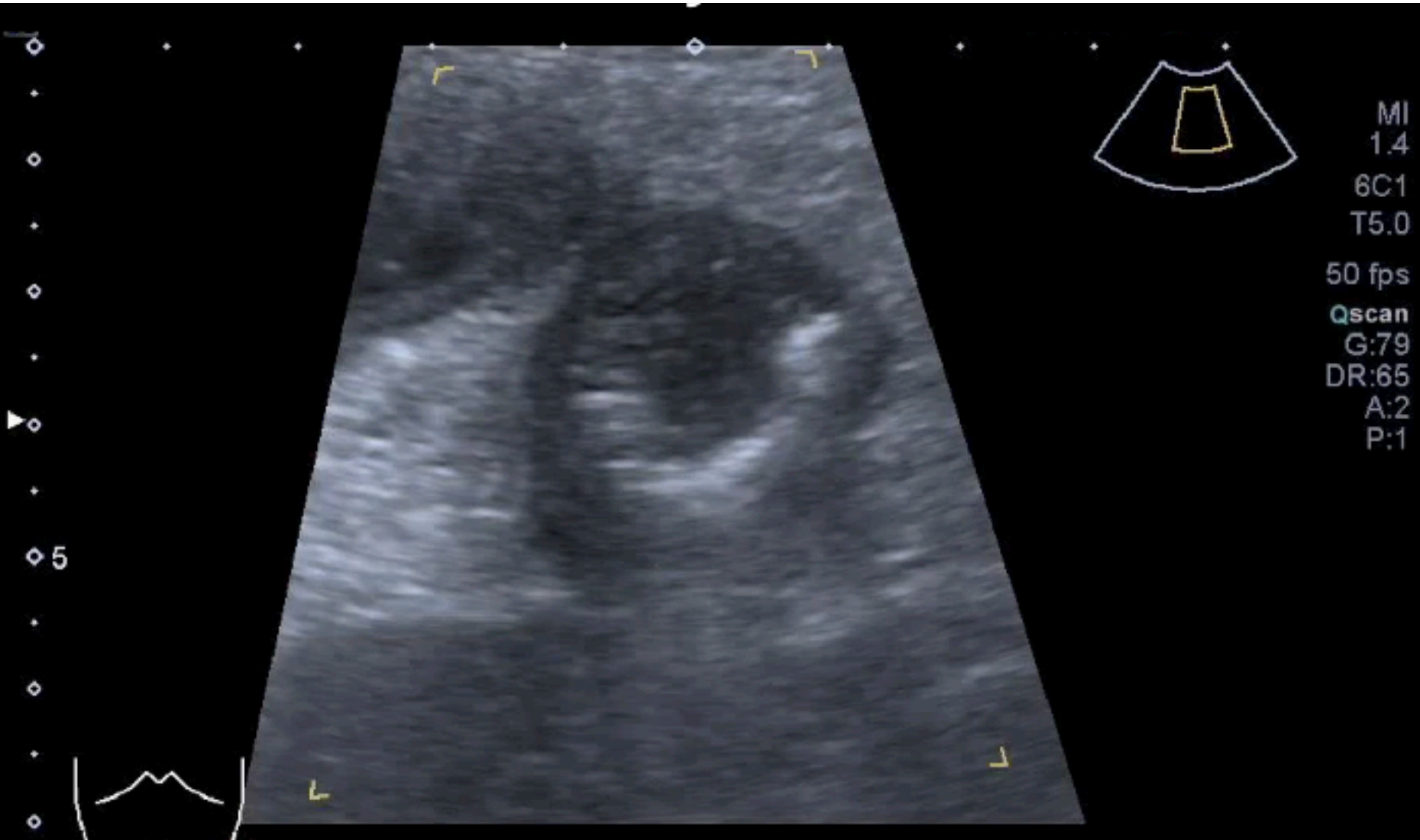
25F, abdominal pain



Ectopic pregnancy



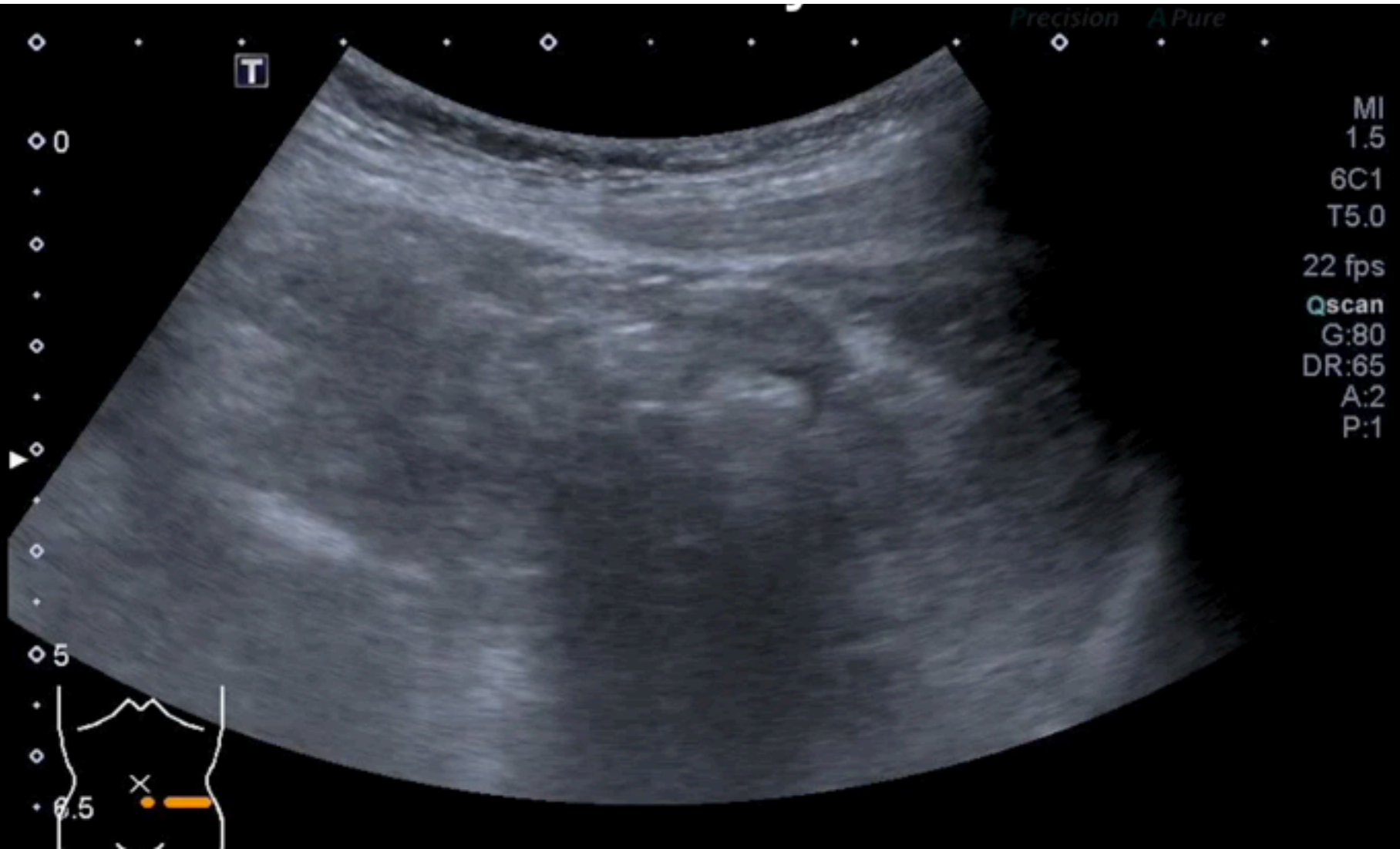
Pneumatosis intestinalis



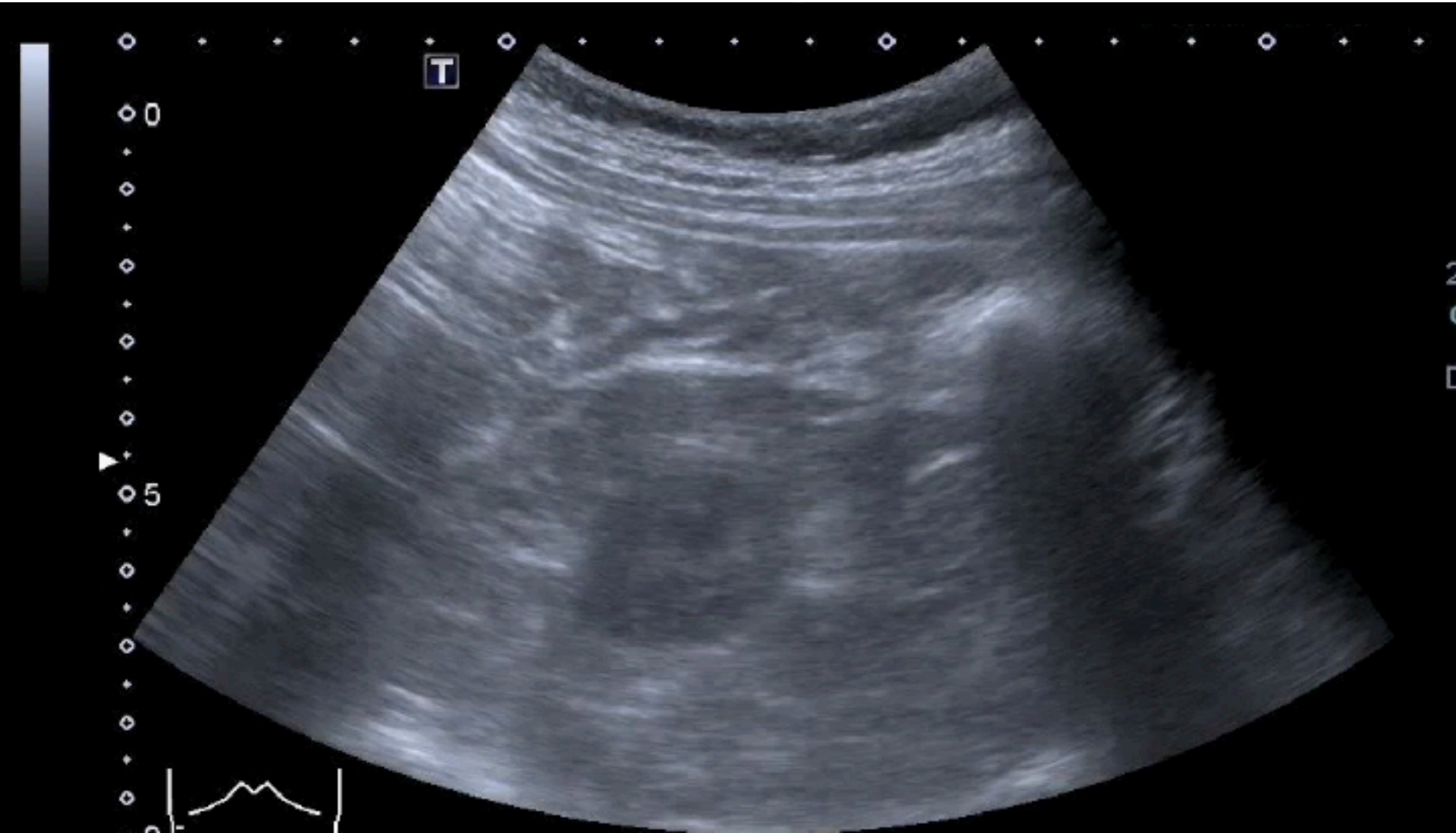
Whirlpool sign Volvulus



Cause of LLQ pain



Epiploic appendagitis



Epiploic appendagitis

Abd Gen2
C5-1
47 Hz
9.0cm

2D
HGen
Gn 50
C 56
3 / 3 / 3



1



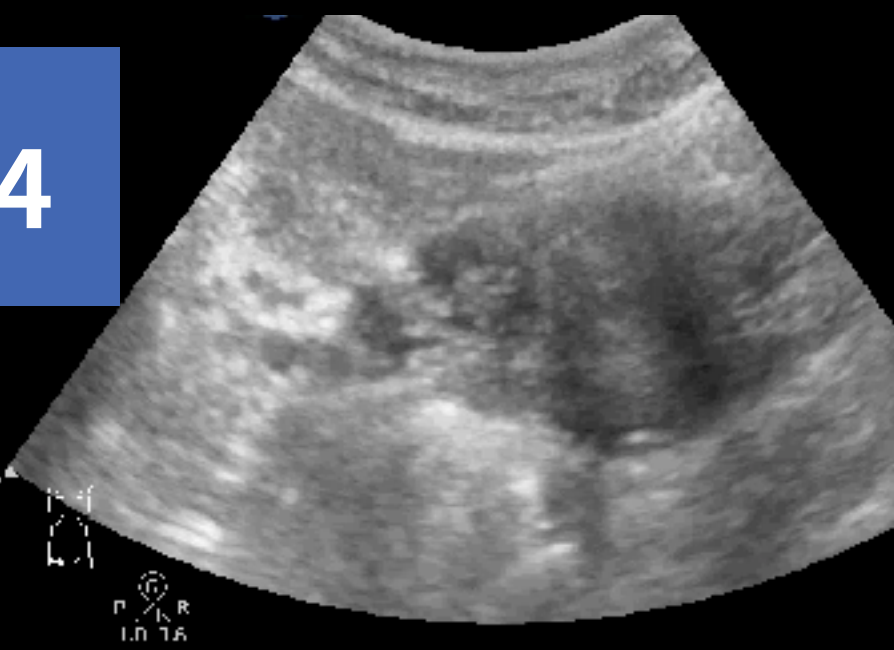
2



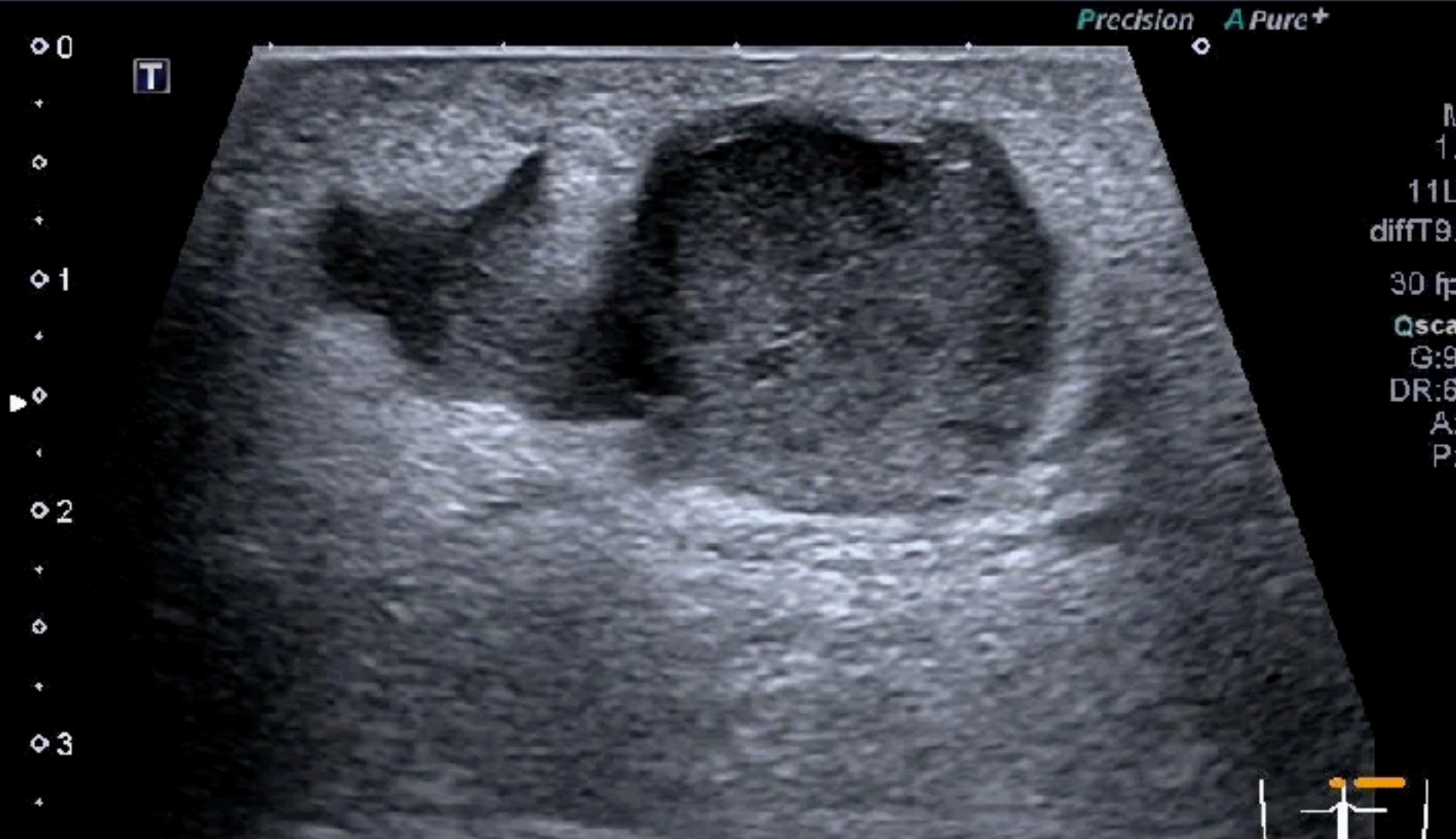
3



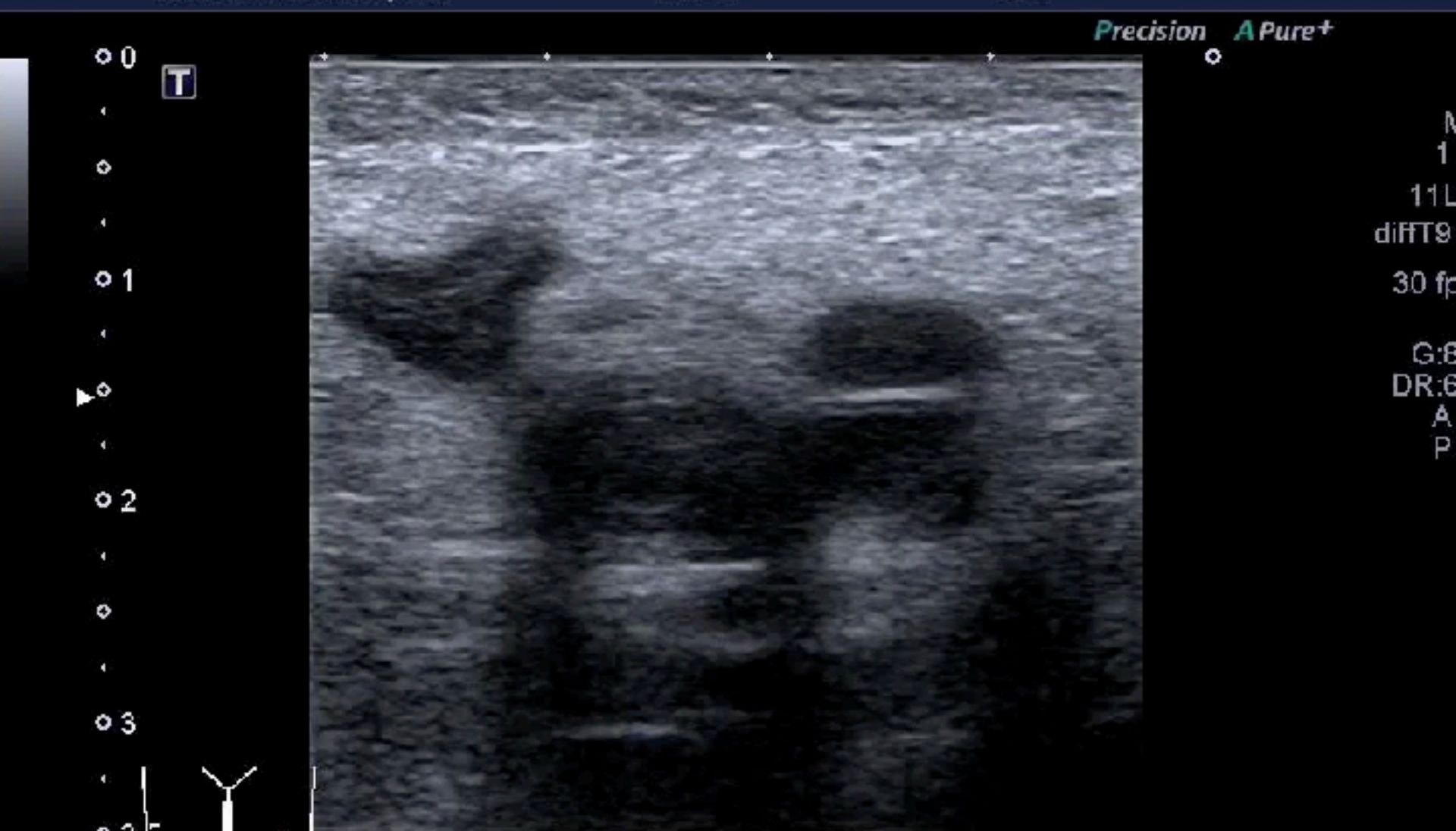
4



Buttock lump



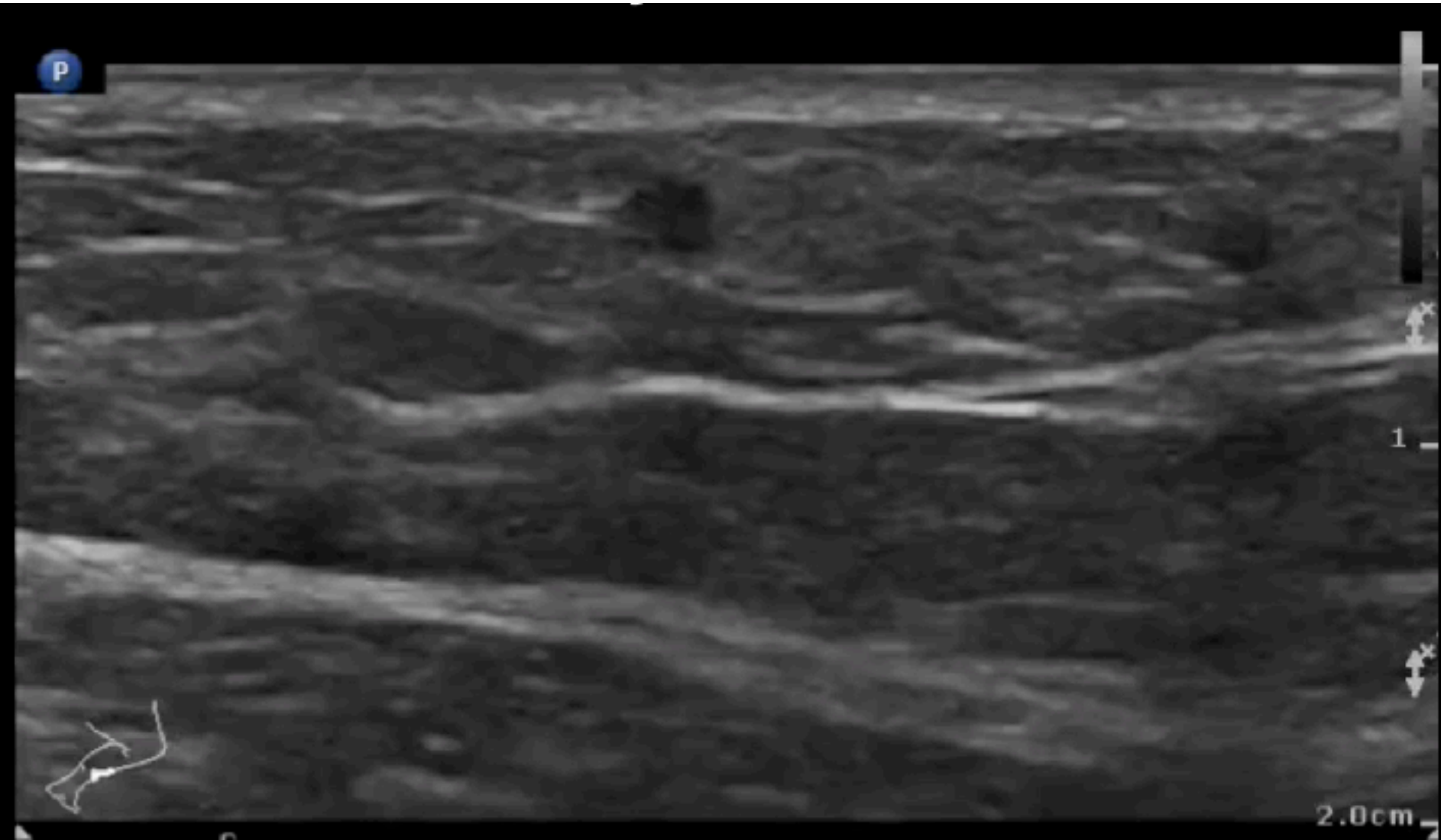
Level of obstruction



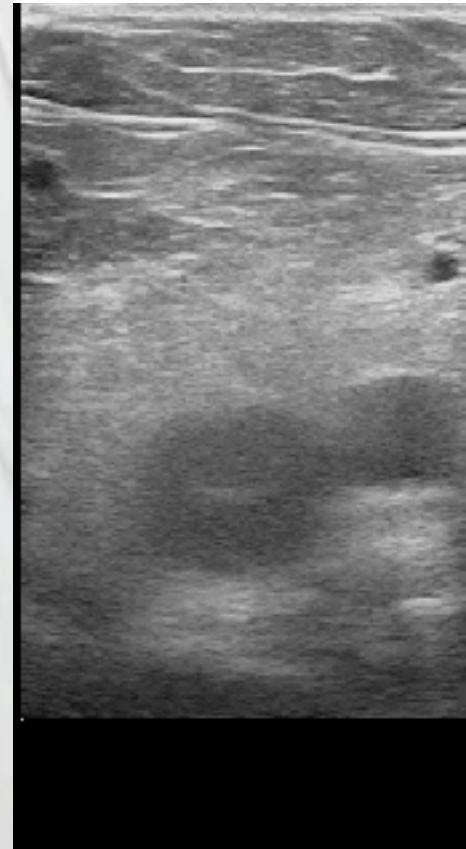
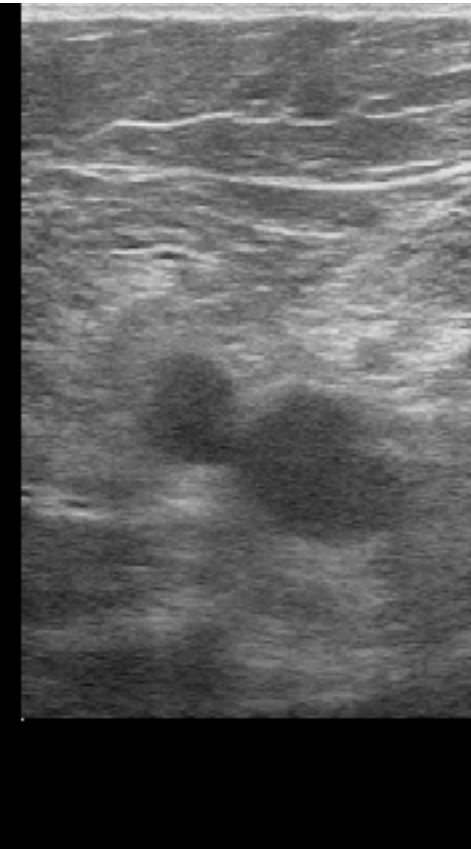
Cause of right thigh pain



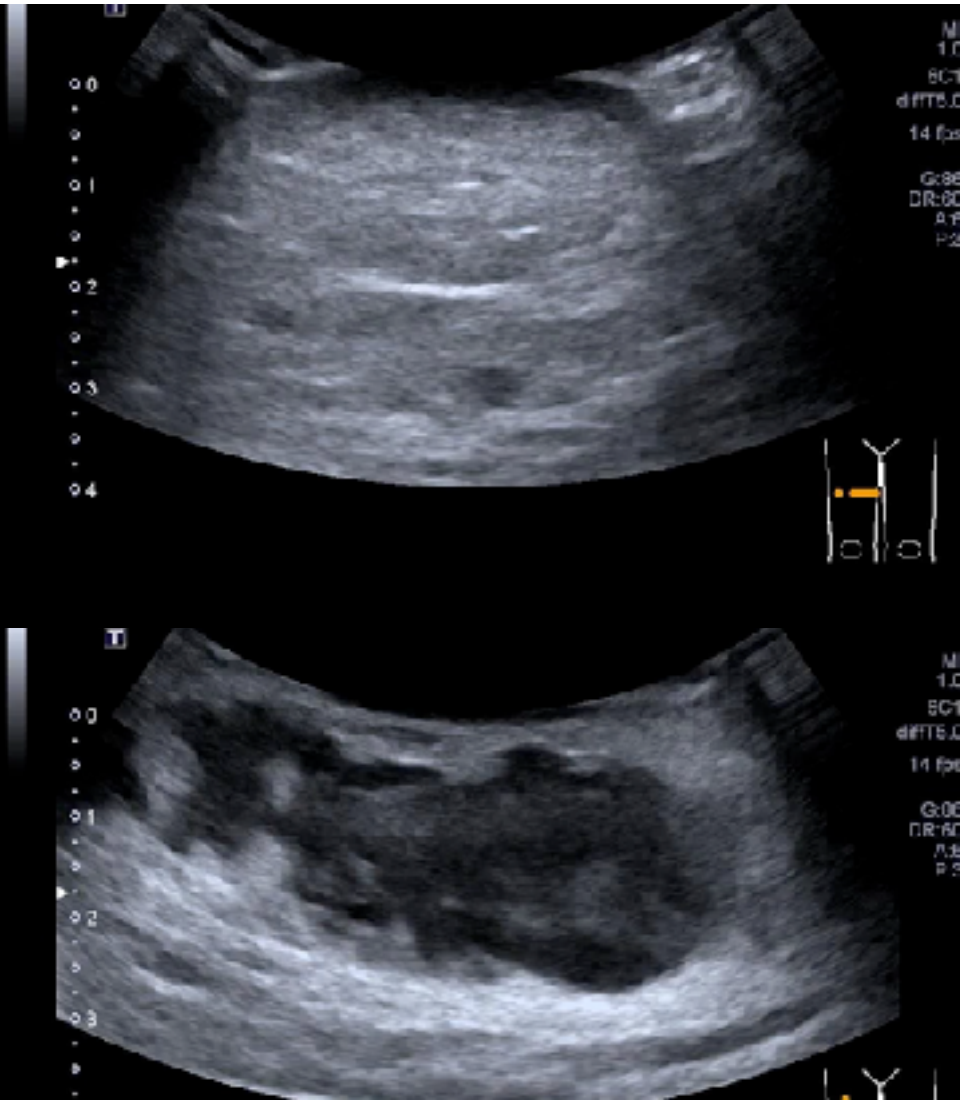
Superficial thrombophlebitis



Cause of left leg swelling



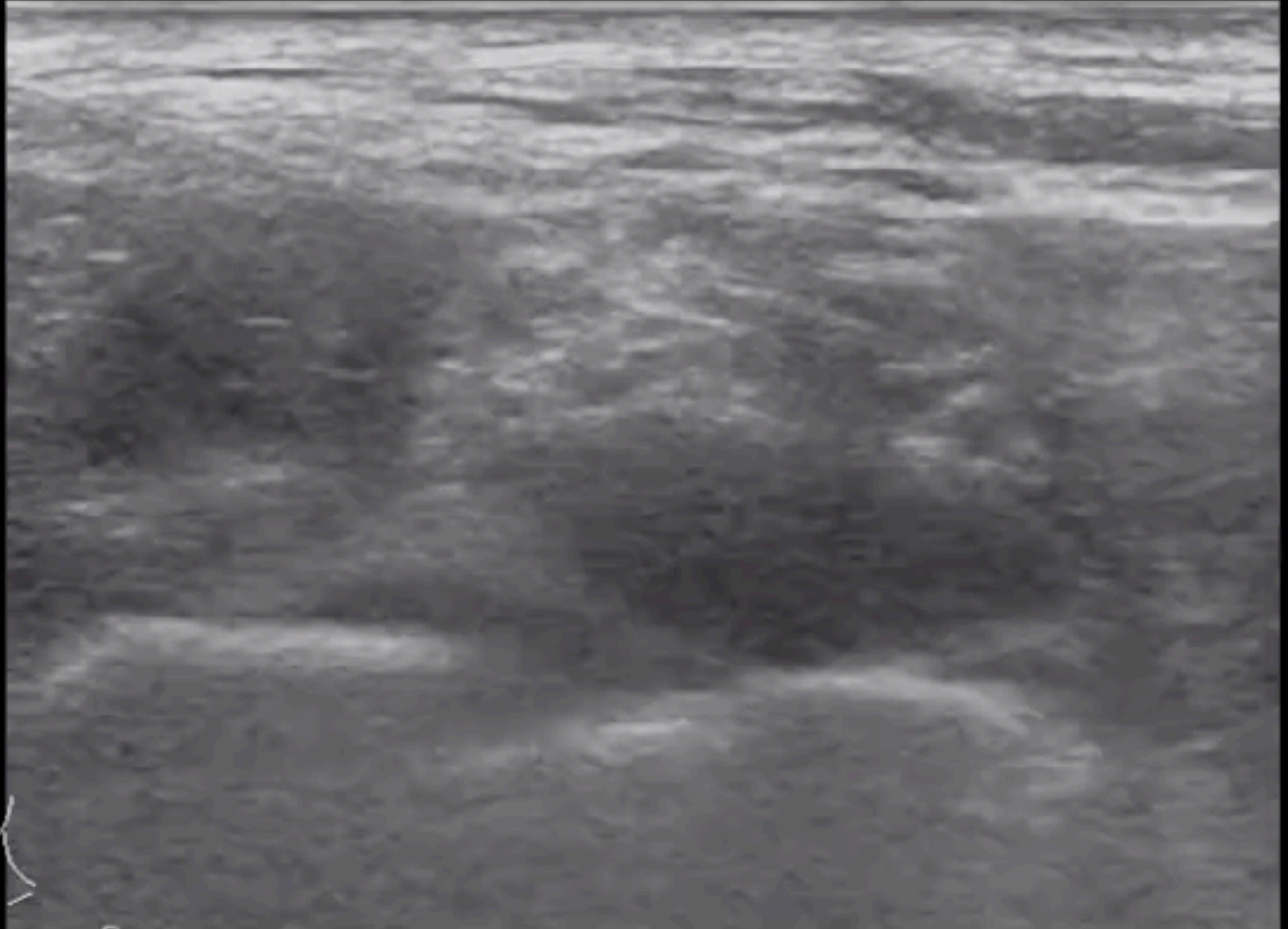
Diagnosis ?



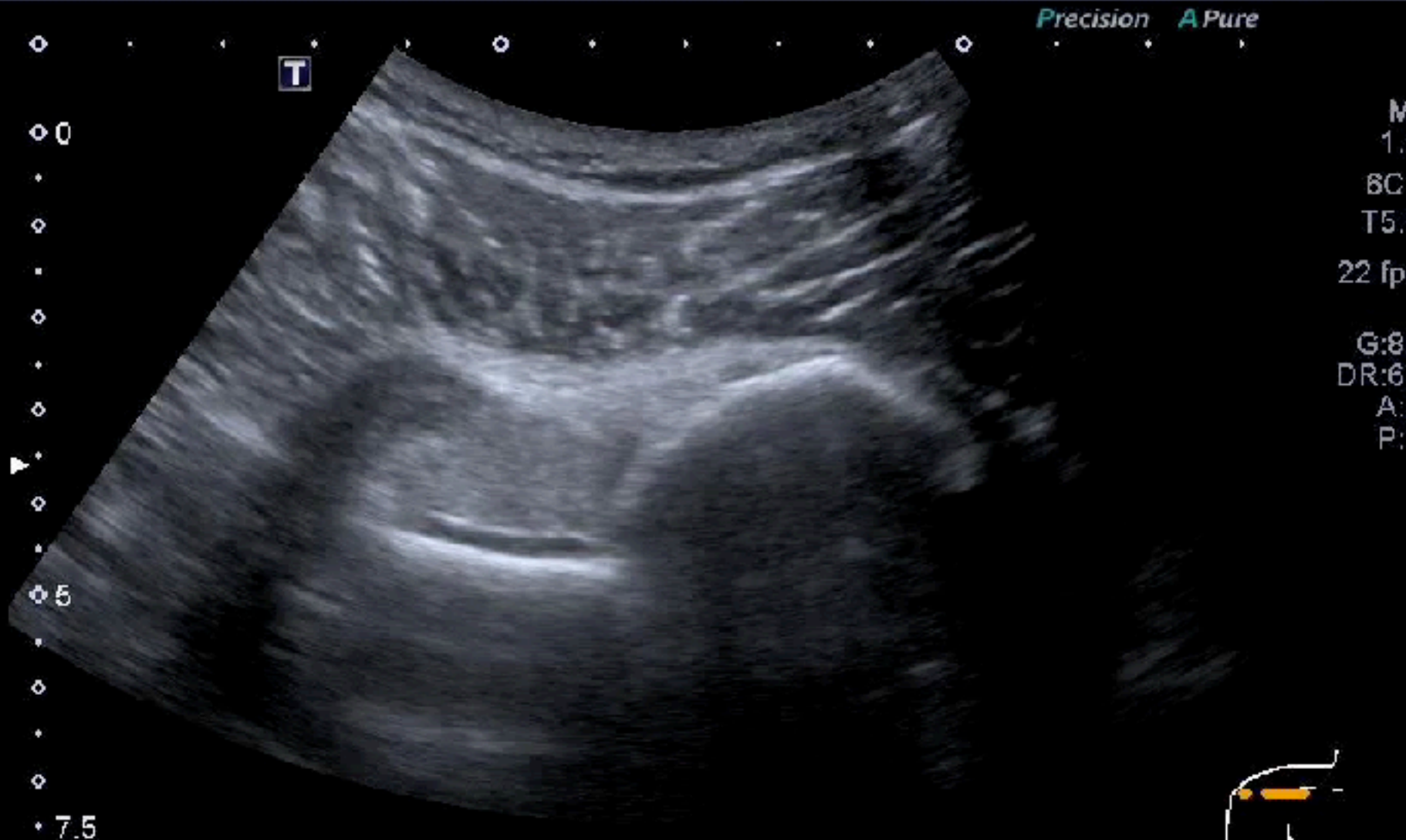
Supraclavicular BP block

Superficial
2-3
Hz
.0cm
en
n 94
52
/3/2

P

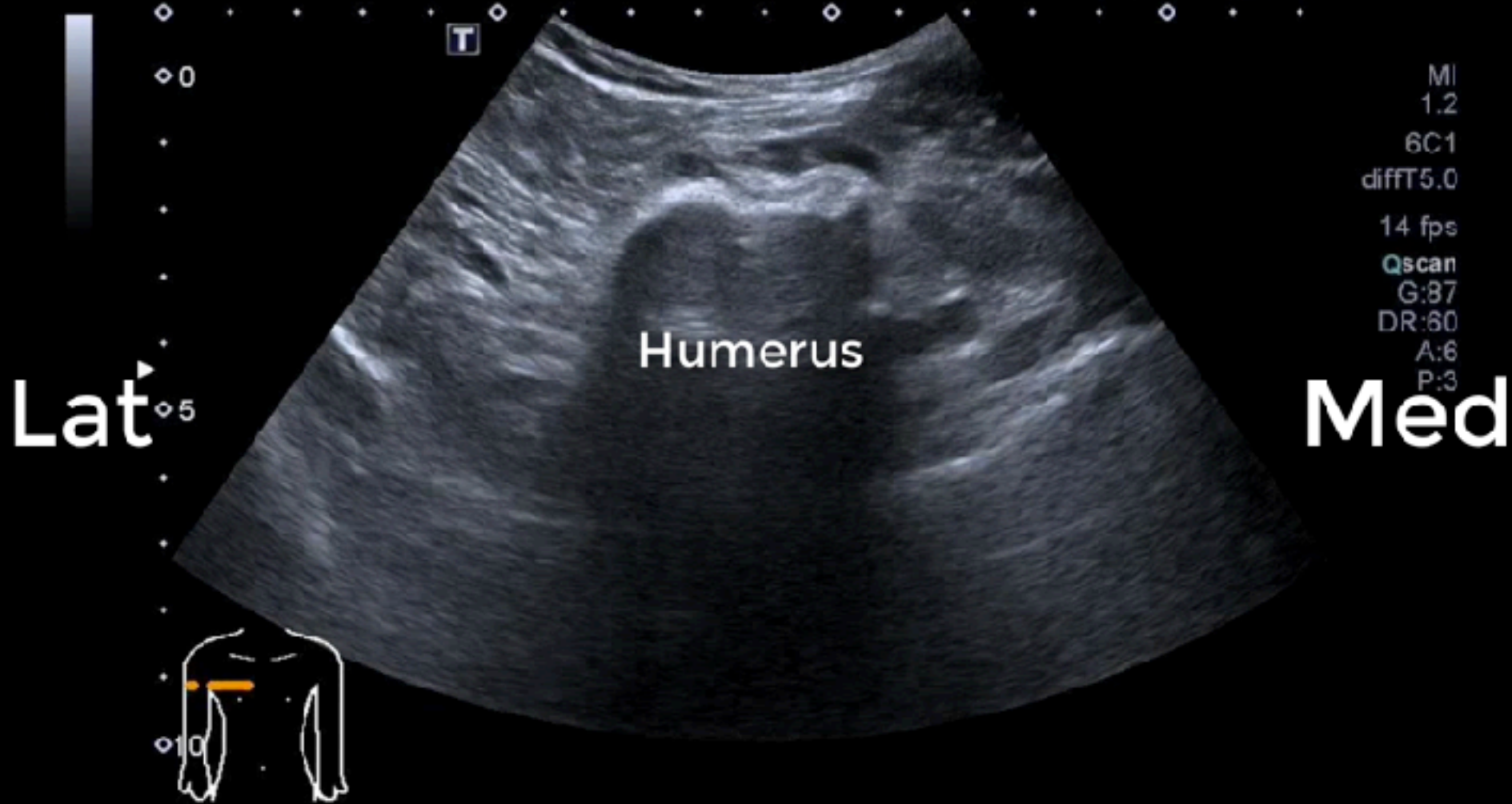


Anterior shoulder dislocation

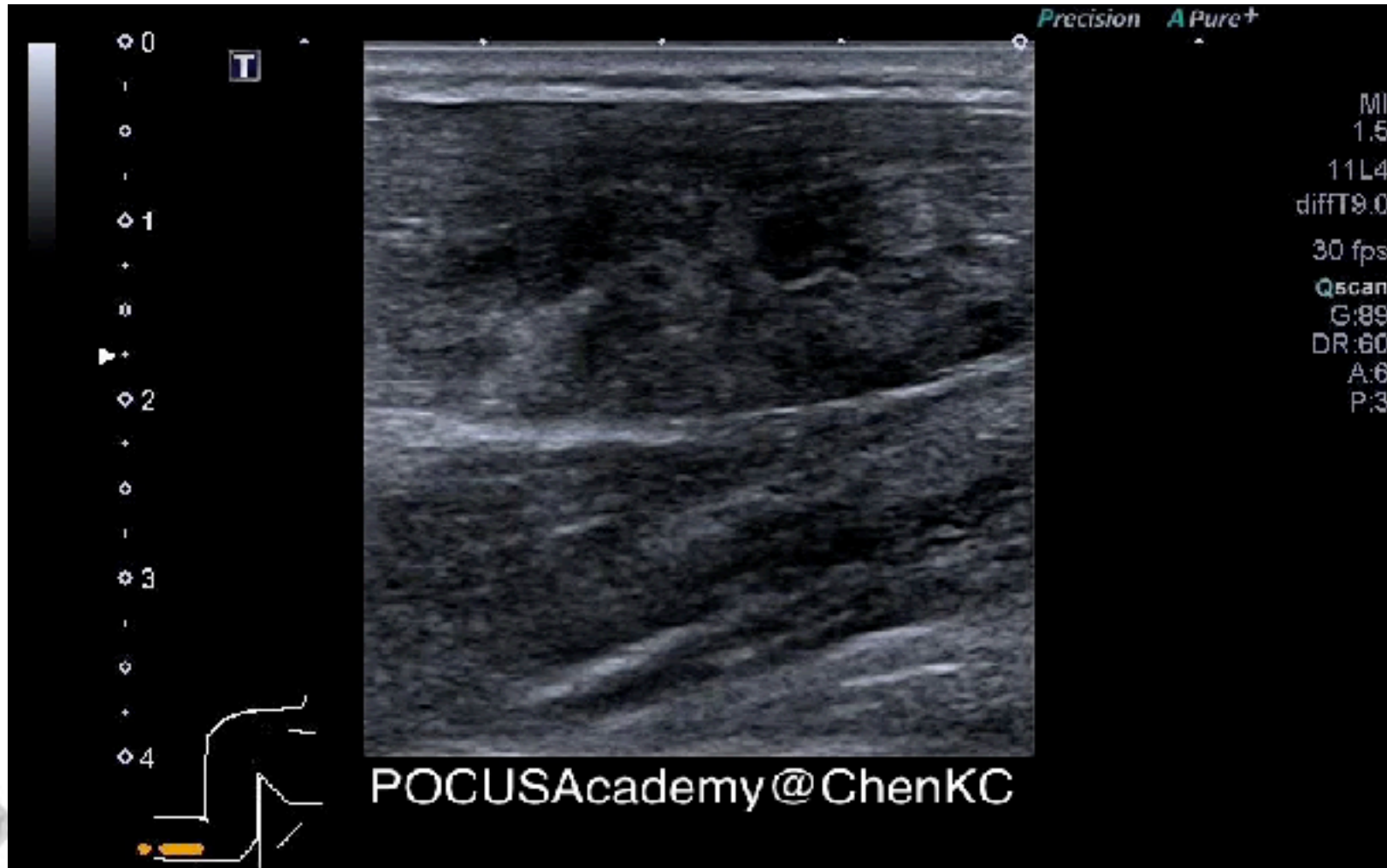




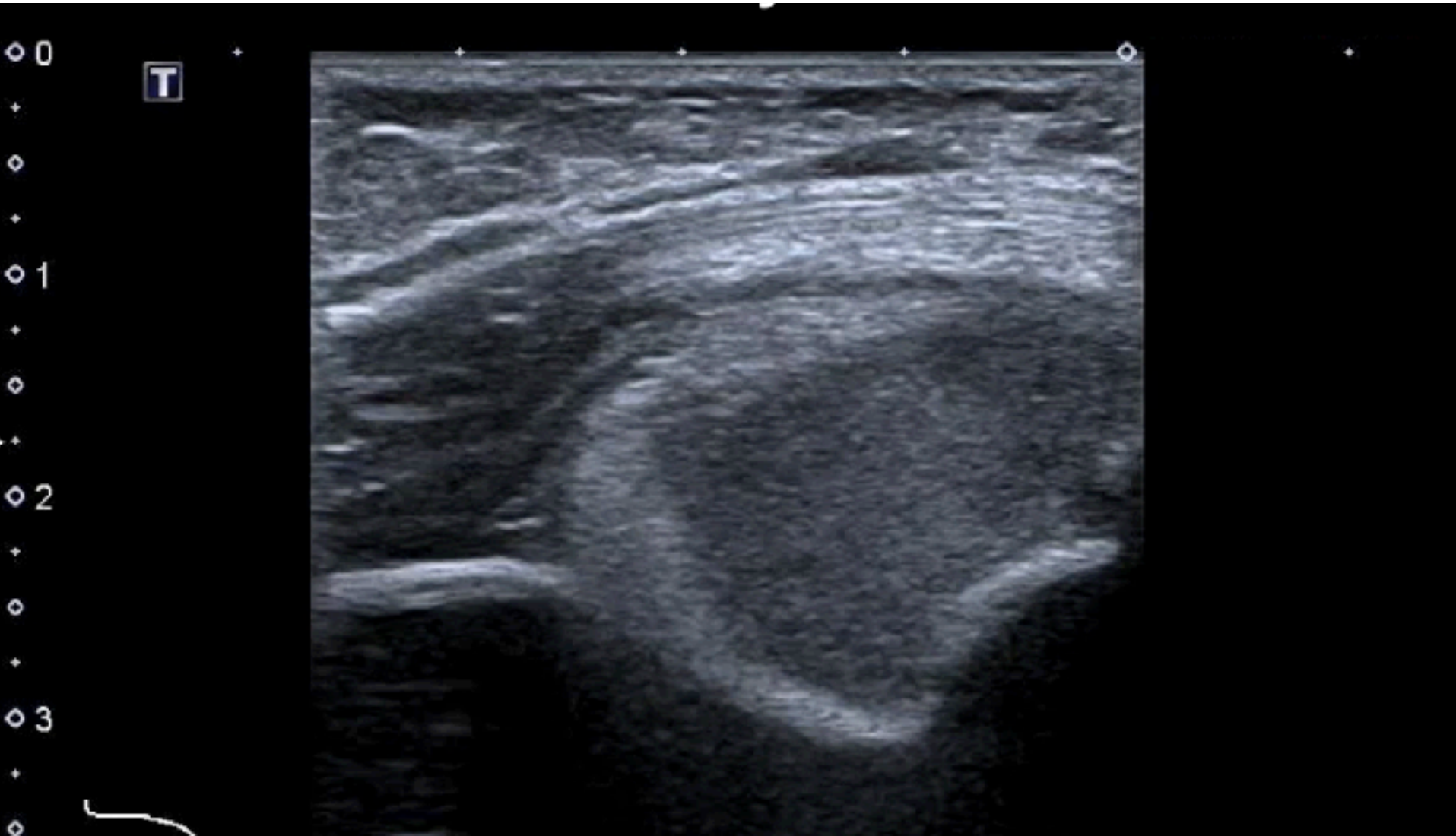
POCUSAcademy©ChenKC



Muscular injury



Posterior fat pad sign



Name of bursa

MI 0.5
TIS 0.1



3
F 7.6~16.2
DR 110
FR 61
D 6.0
S 46

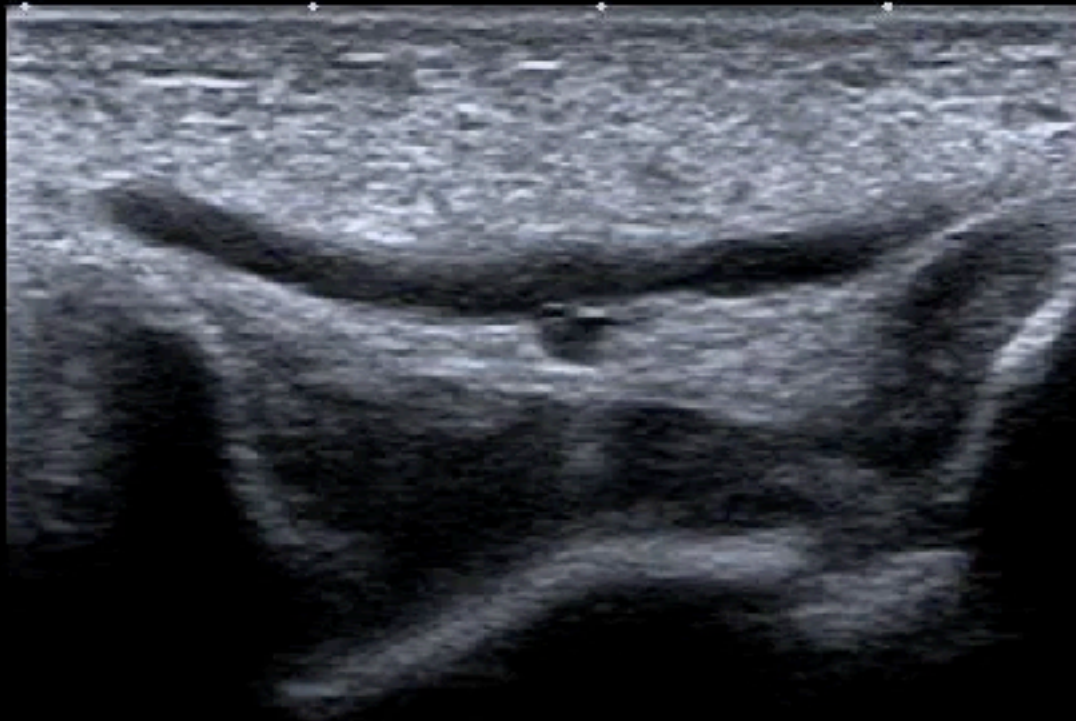


-0



Major finding ?

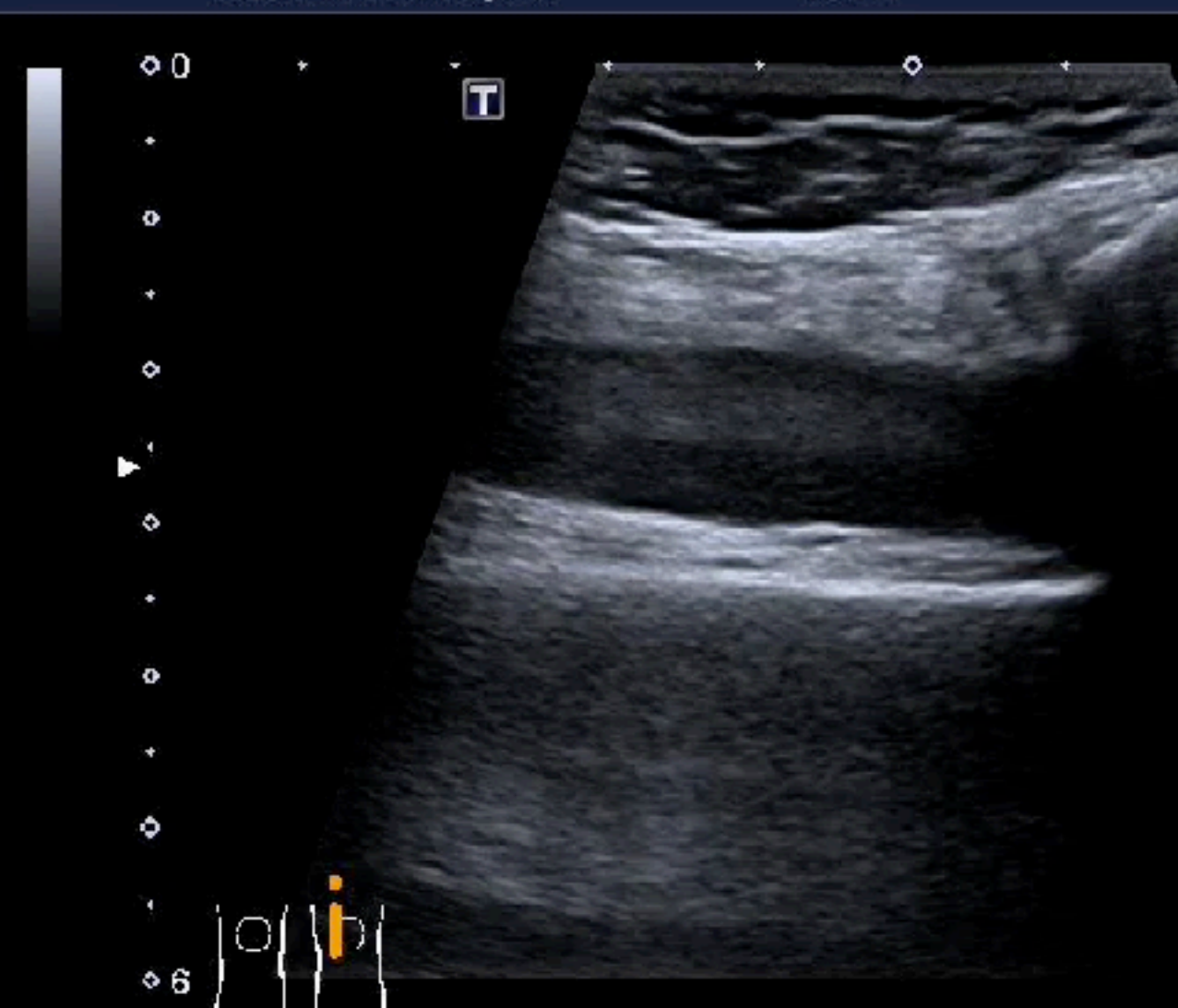
- 0
- T
- 1
- 2



Precision APure+

M
1.5
11L4
diffT9.0
30 fps
G:86
DR:60
A:6
P:3

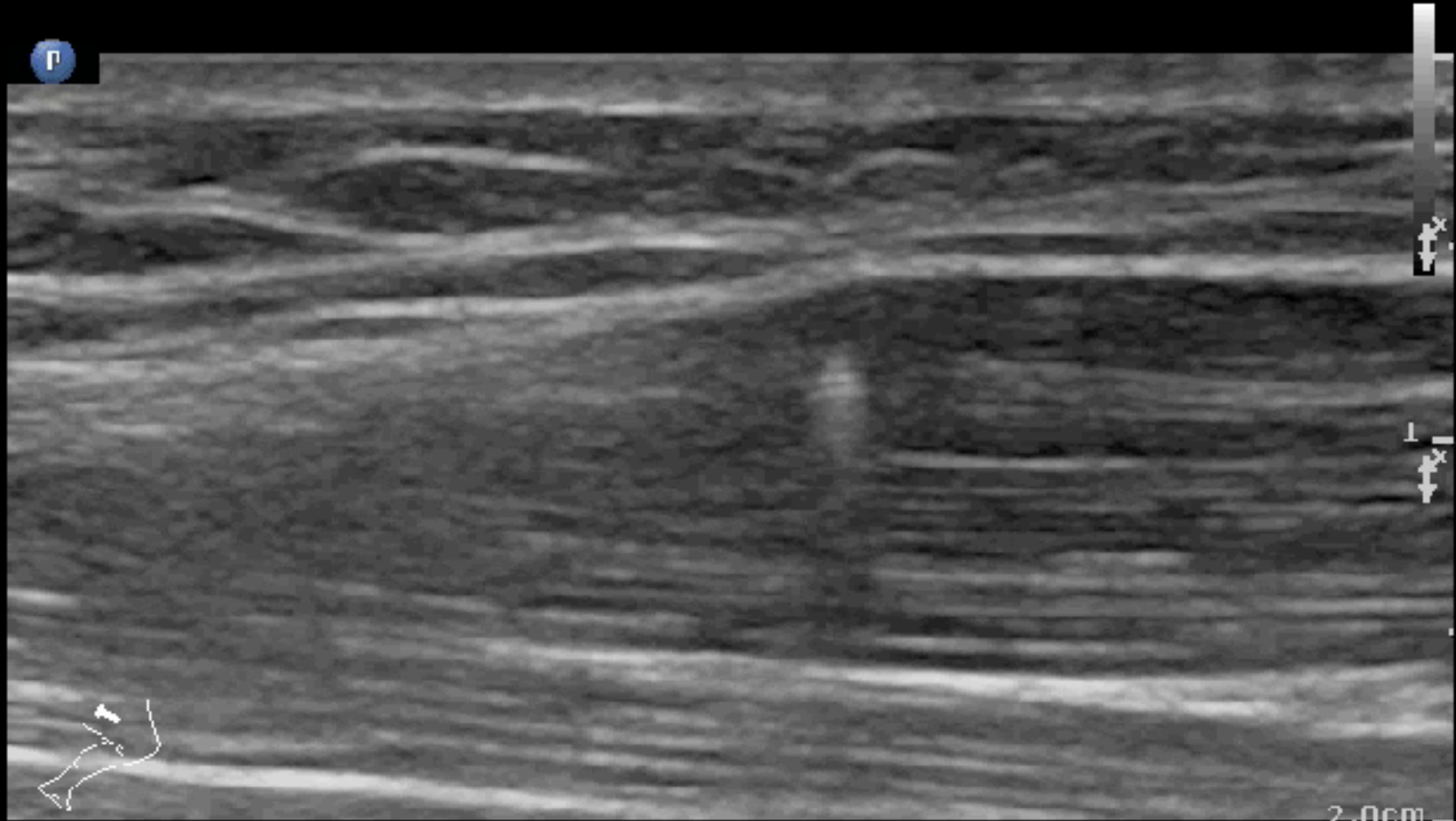
Lipohemarthrosis



Nature of the lesion

Superficial
L12-3
34 Hz
2.0cm

2D
Gen
Gn 60
C. 57
4/3/2



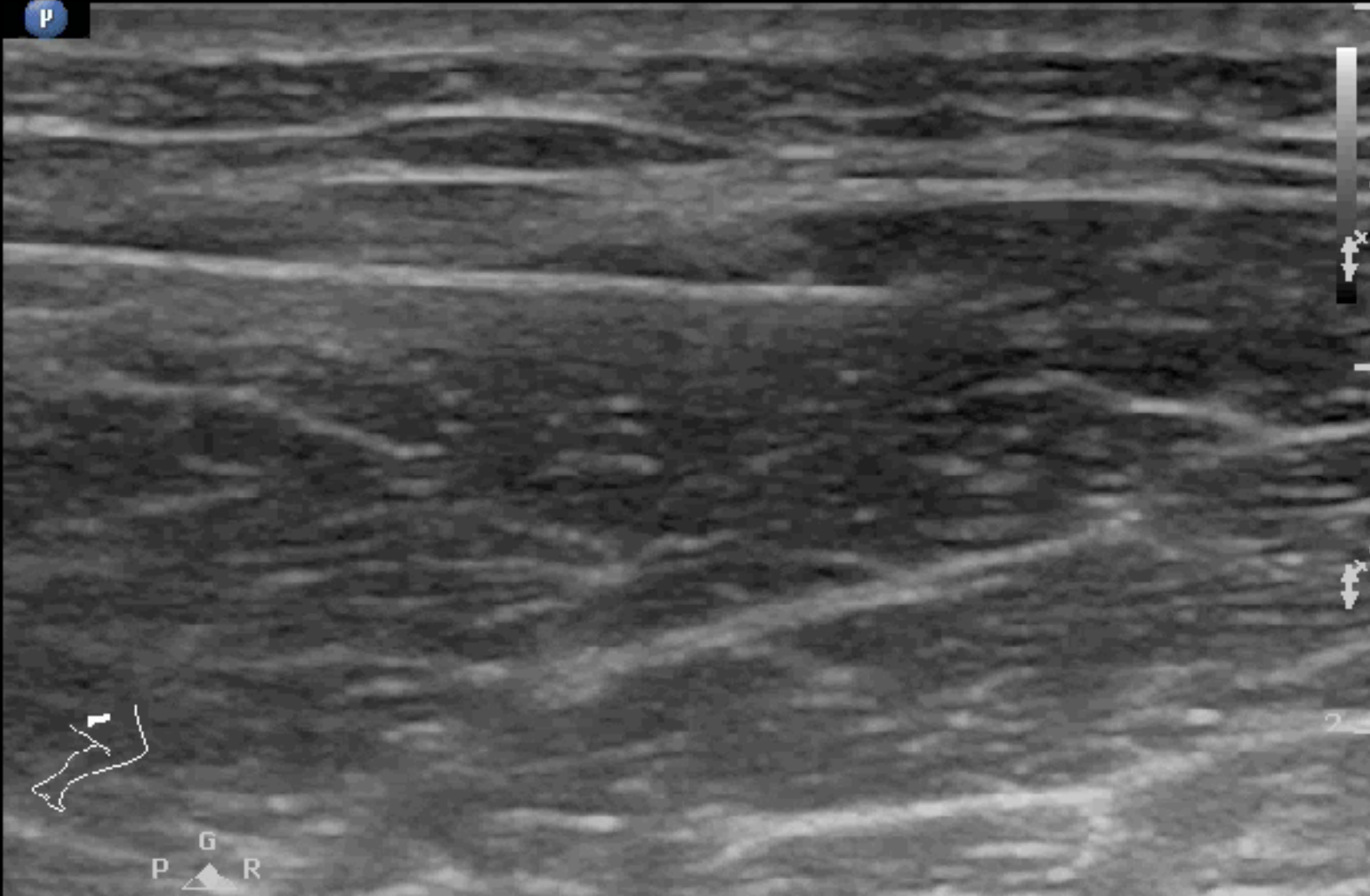
P R
70 120

2.0cm

Metal or needle ?

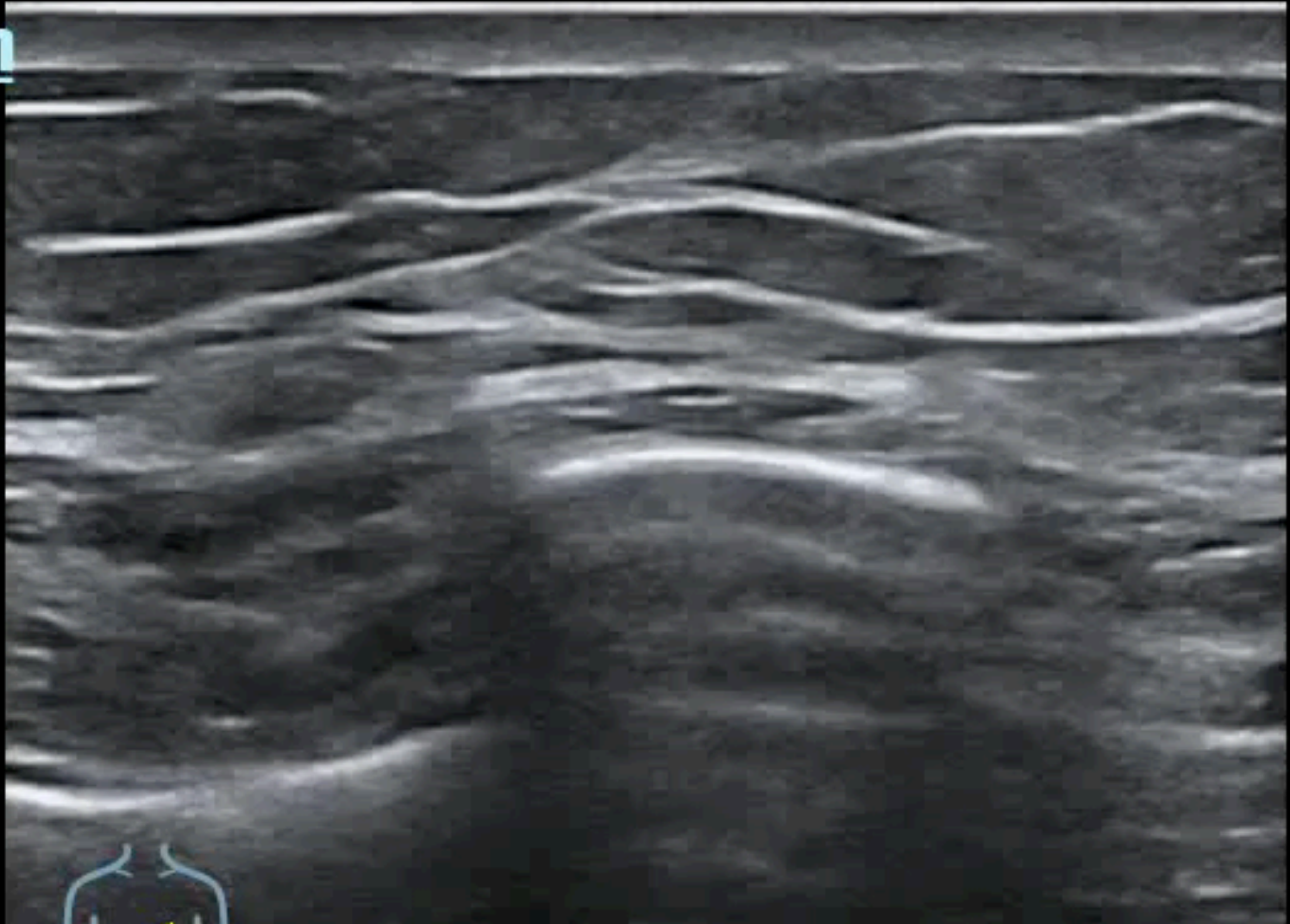
Superficial
L12-3
34 Hz
2.5cm

2D
Gen
Gn 60
C 52
4/3/2

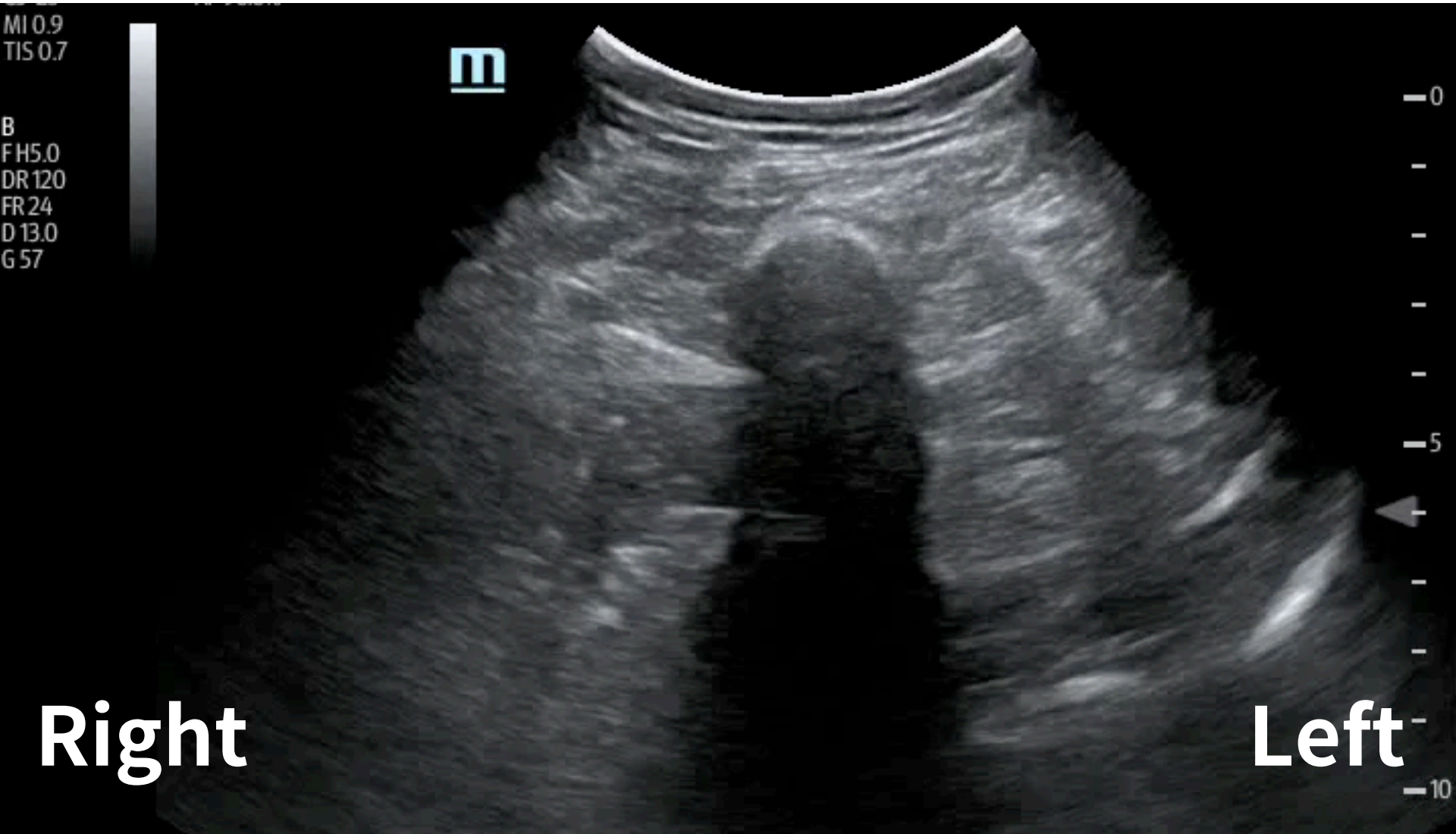


Major finding

m



Where is the fracture ?



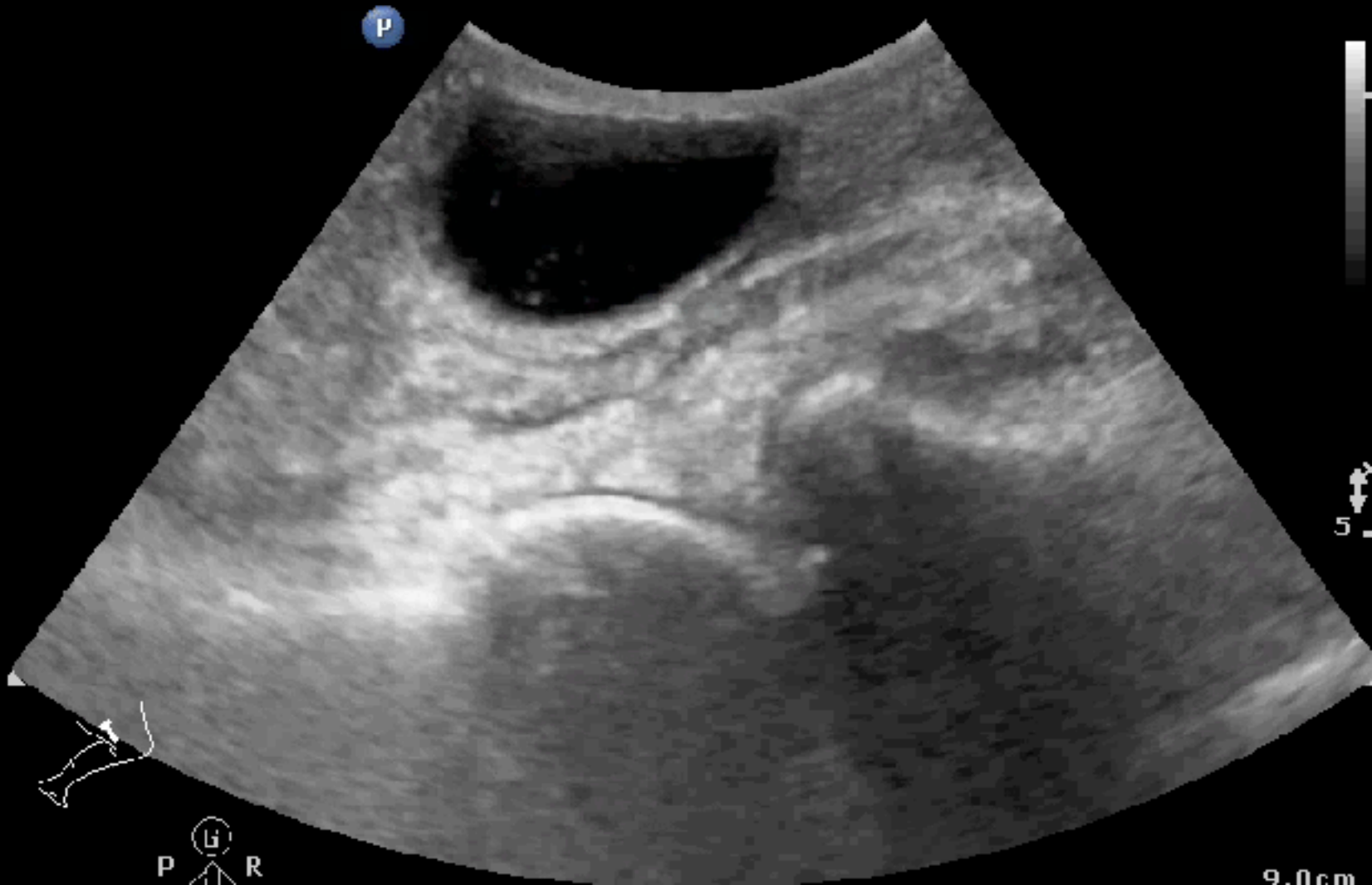
Left femoral fracture



Baker's cyst

Abd Gen2
C5-1
47 Hz
9.0cm

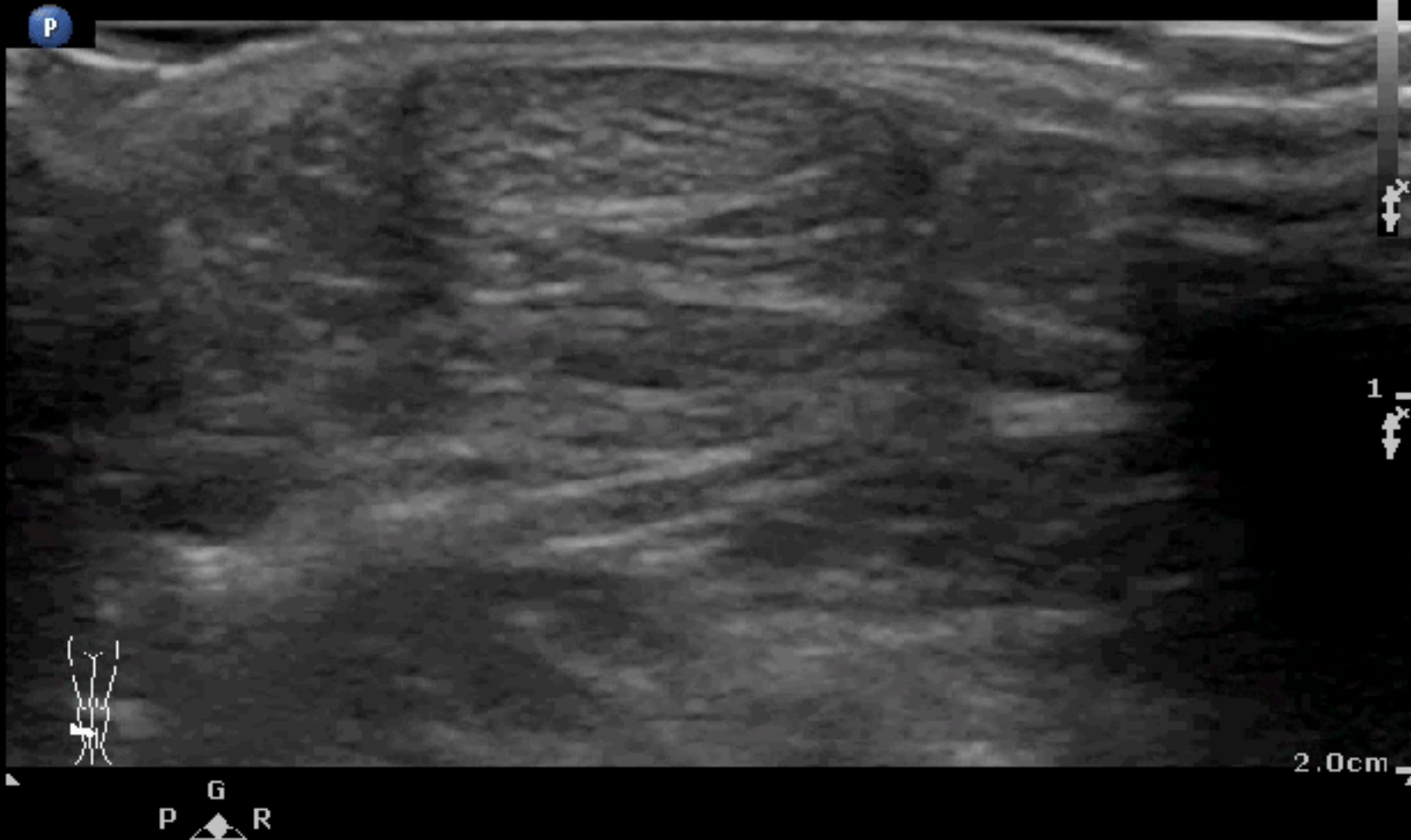
2D
HGen
Gn 85
C 56
3 / 3 / 3



Achilles tendon rupture

Superficial
L12-3
34 Hz
2.0cm

2D
Gen
Gn 94
C 52
4/3/2

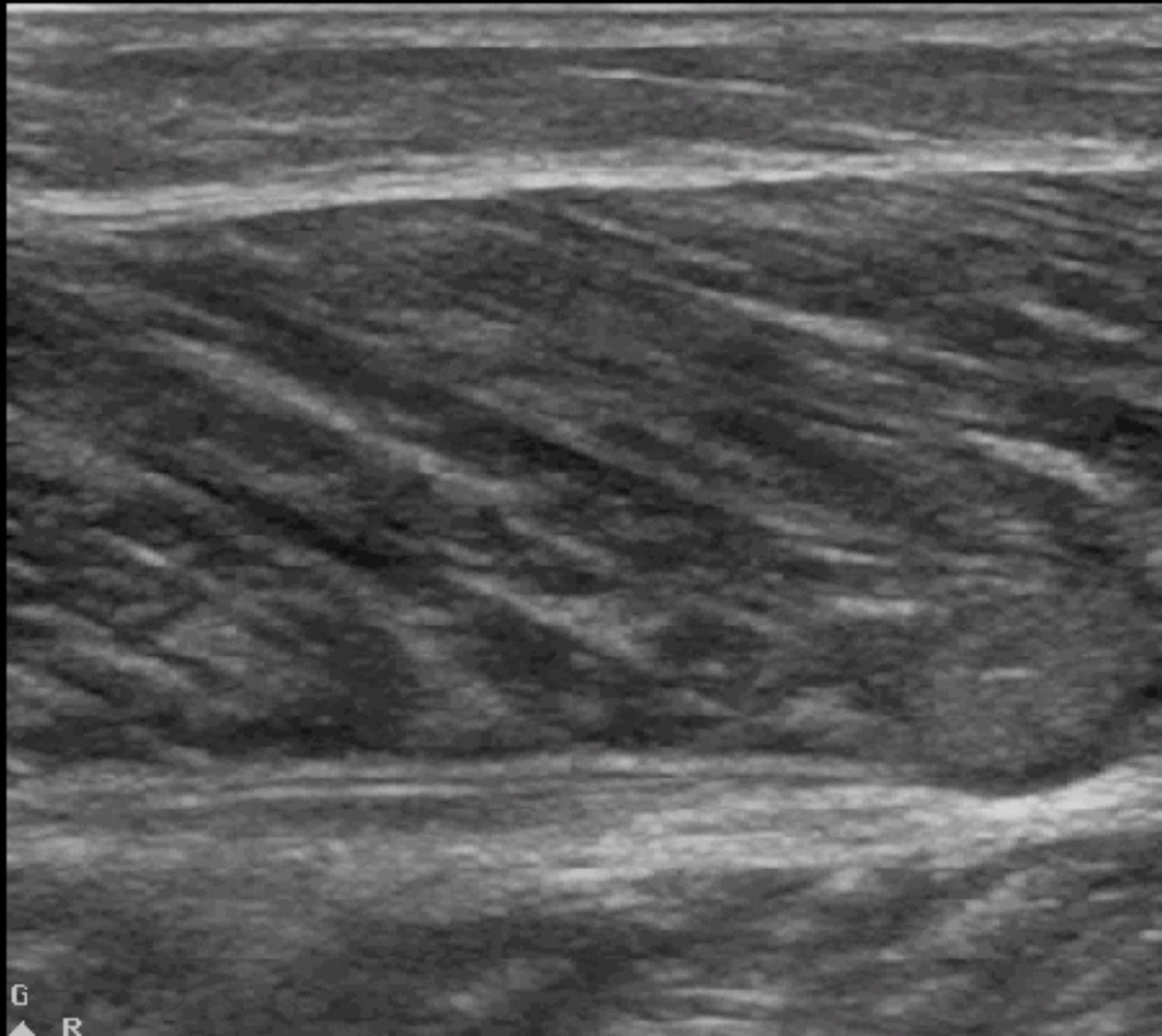


Gastrocnemius M tear

Superficial
12-3
31 Hz
3.5cm

2D
Gen
Gn 94
C 52
4/3/2

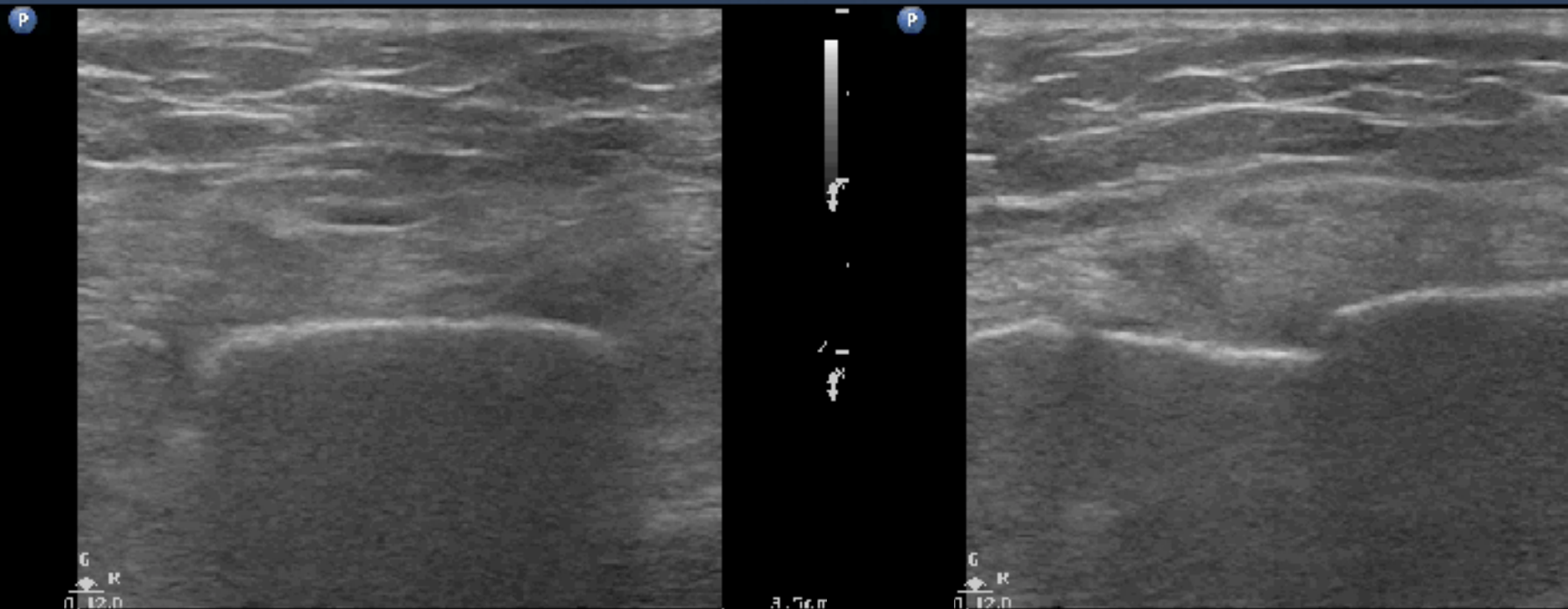
P



P
G
R

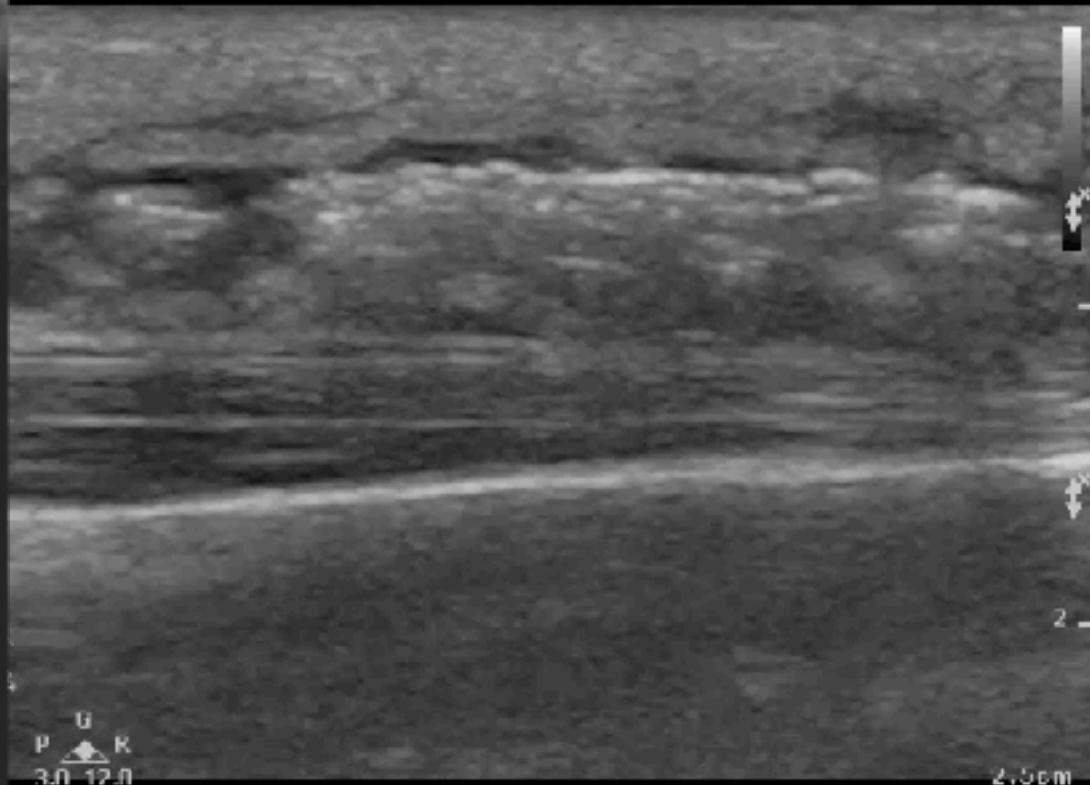
2.
↑
↓

Diagnosis ?



Necrotizing fasciitis

SKH-EUTC

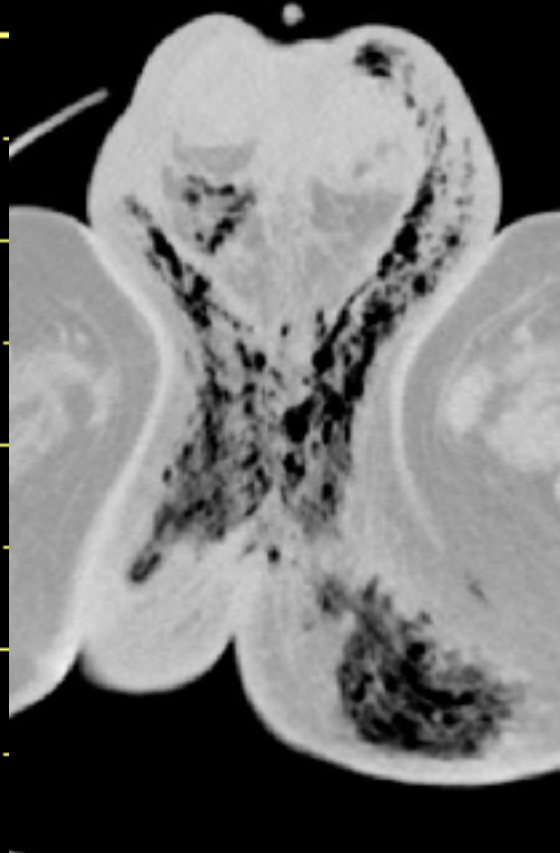


Fournier's gangrene



Fournier's gangrene

MI: 0.8 TI: 0.2 #: 345 19:47:25
21/Apr/2015



MI: 0.8 TI: 0.2 #: 345 19:46:55
21/Apr/2015

