Static Echo Cases

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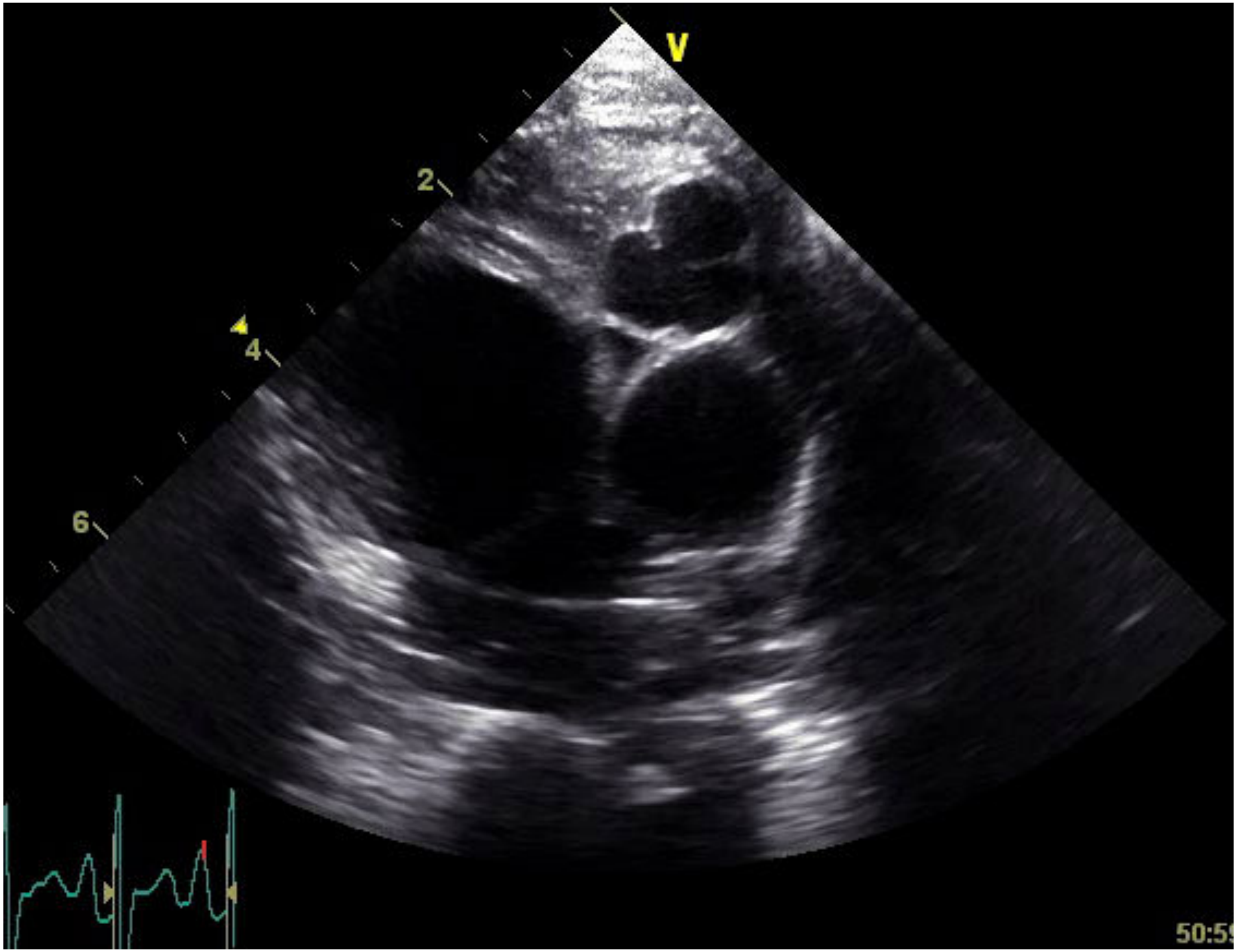
Rationale

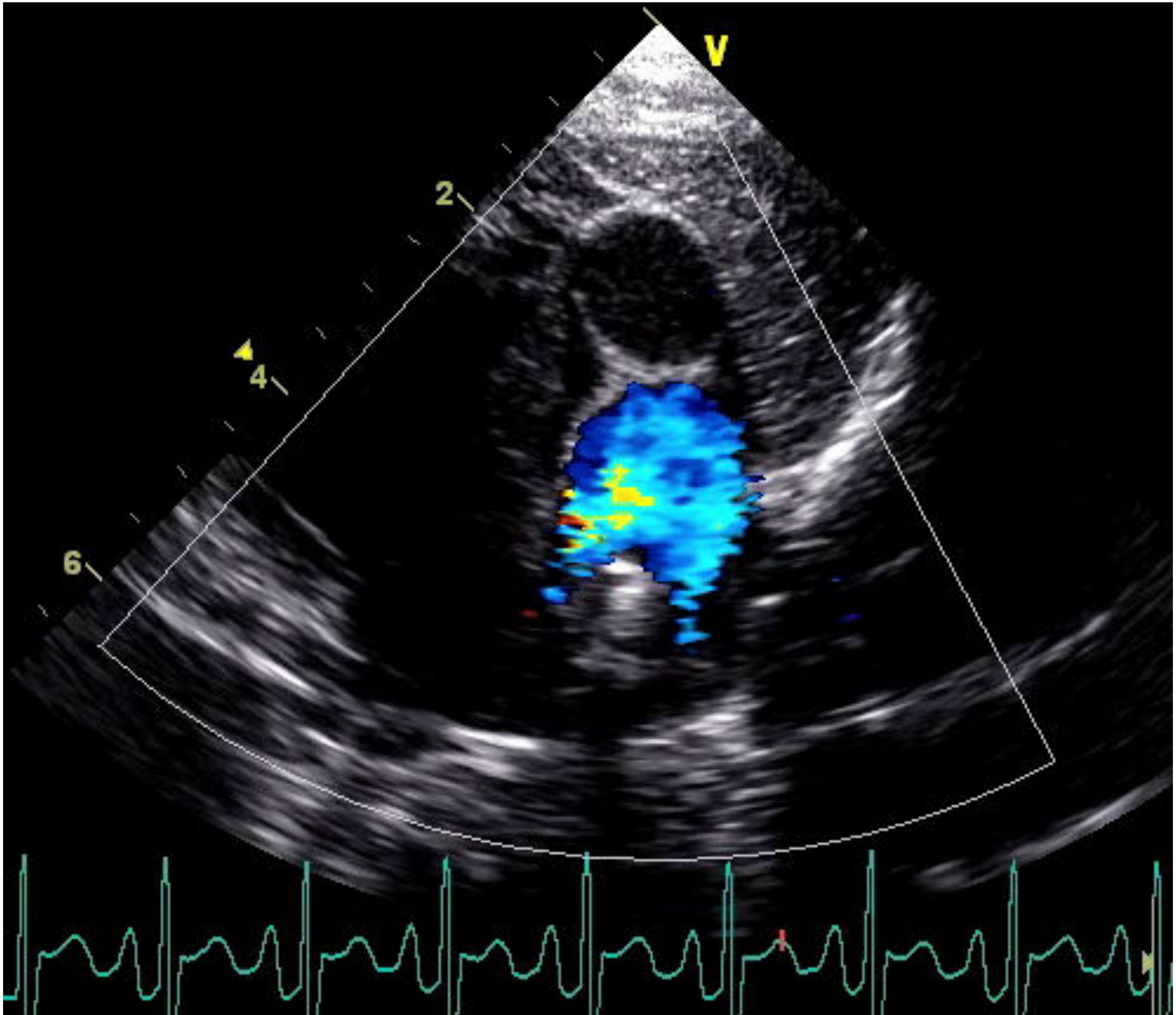
- Static echo images only on RC Cardio exam
- Lack of experience and dedicated teaching in static echo (spot diagnosis) interpretation
- Majority of cases submitted by Dr. Henryk Kafka

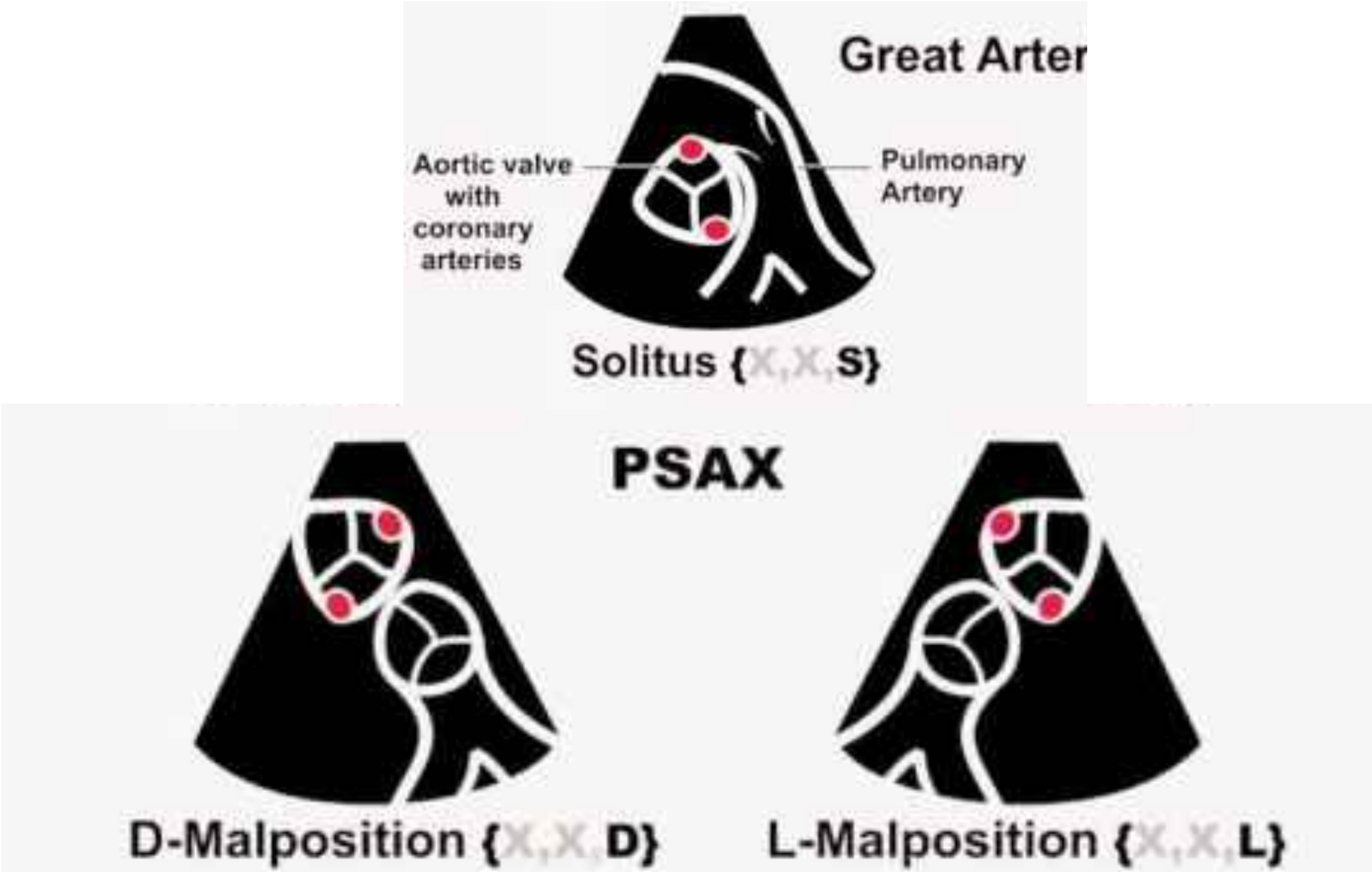
Format

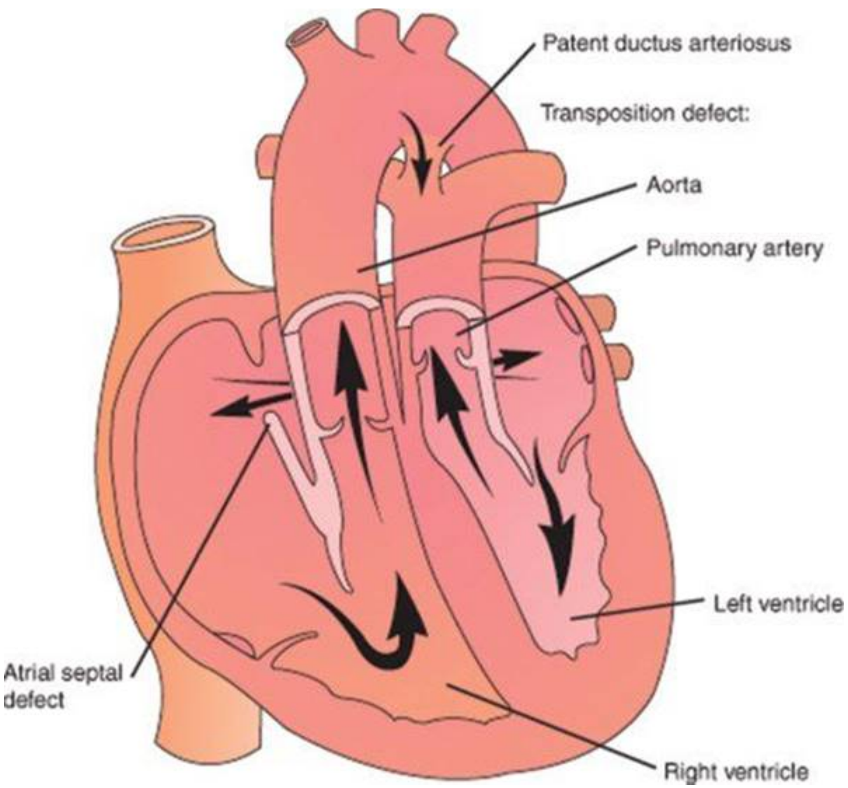
- Interactive cases
- Still images shown, trainees volunteer thought process, then answers provided
- Important to use all information available (stem, associated interventions) to guide you
- Focus is not details. It is spot diagnosis and follow-up questions

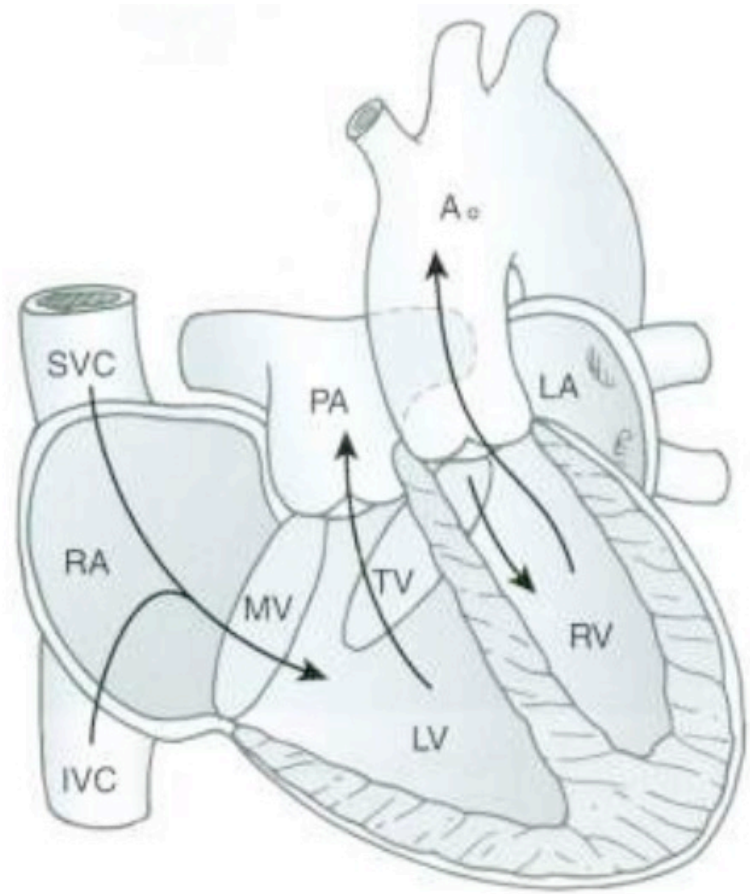
Case 1




V
2
4
6

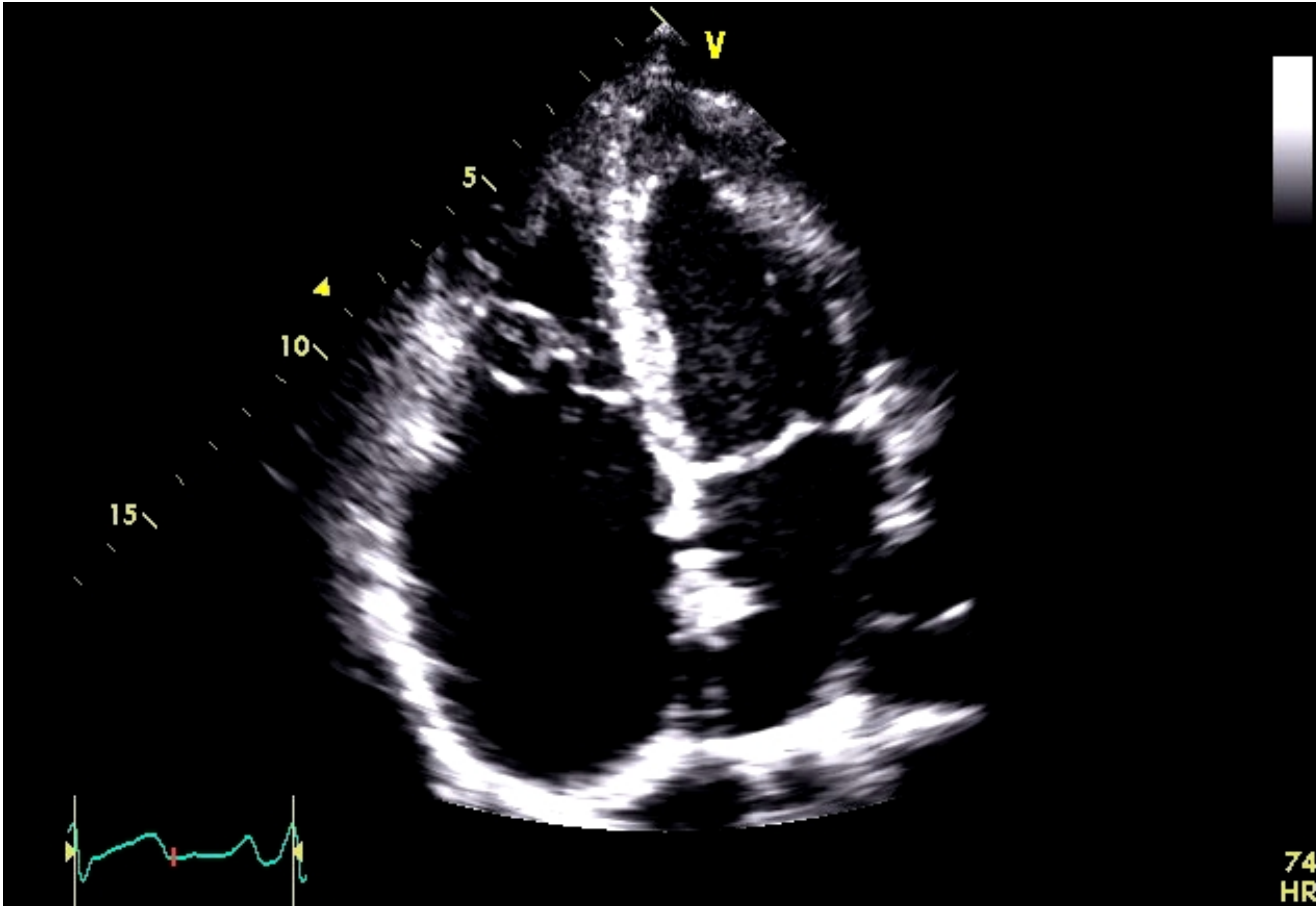

Great Arter
Aortic valve with coronary arteries
Pulmonary Artery
Solitus {X,X,S}
PSAX
D-Malposition {X,X,D}
L-Malposition {X,X,L}


Patent ductus arteriosus
Transposition defect:
Aorta
Pulmonary artery
Left ventricle
Atrial septal defect
Right ventricle

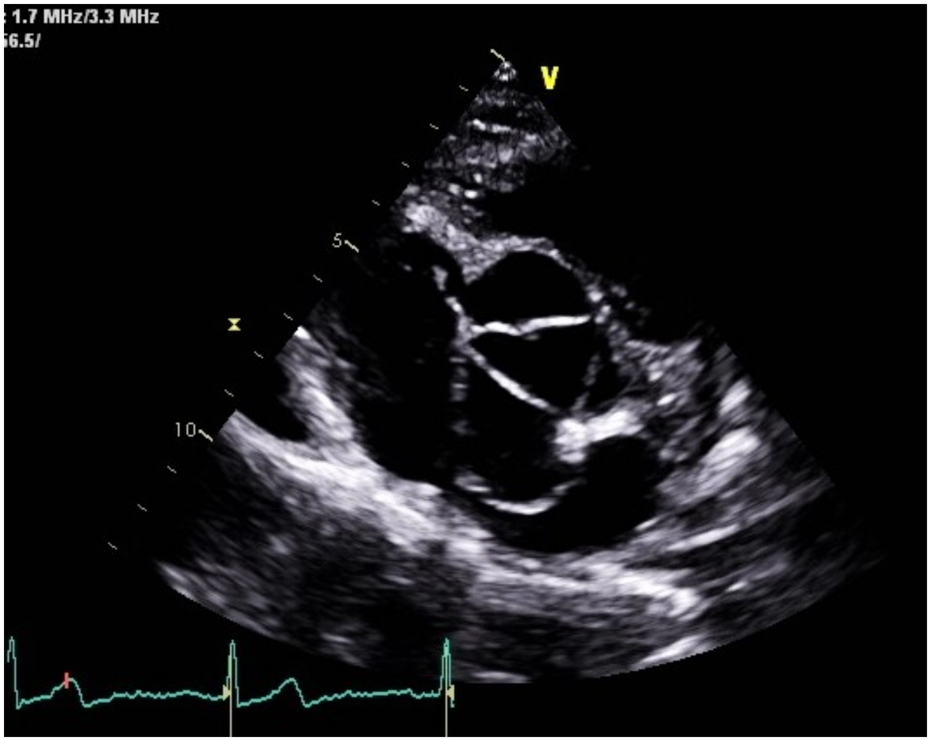

Ao
SVC
PA
LA
RA
MV
TV
RV
LV
IVC

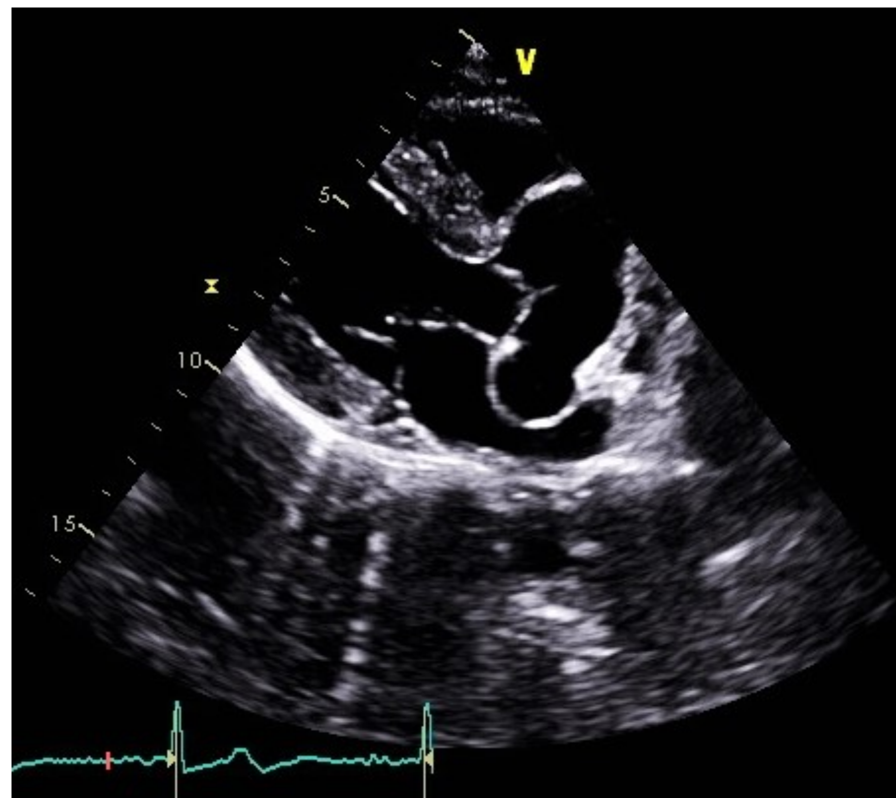
Case 2

- 26F planning pregnancy
- Cardiac procedure 14 years ago
- What procedure did she have and what are the congenital abnormalities?


V
5
10
15
74
HR

Case 3





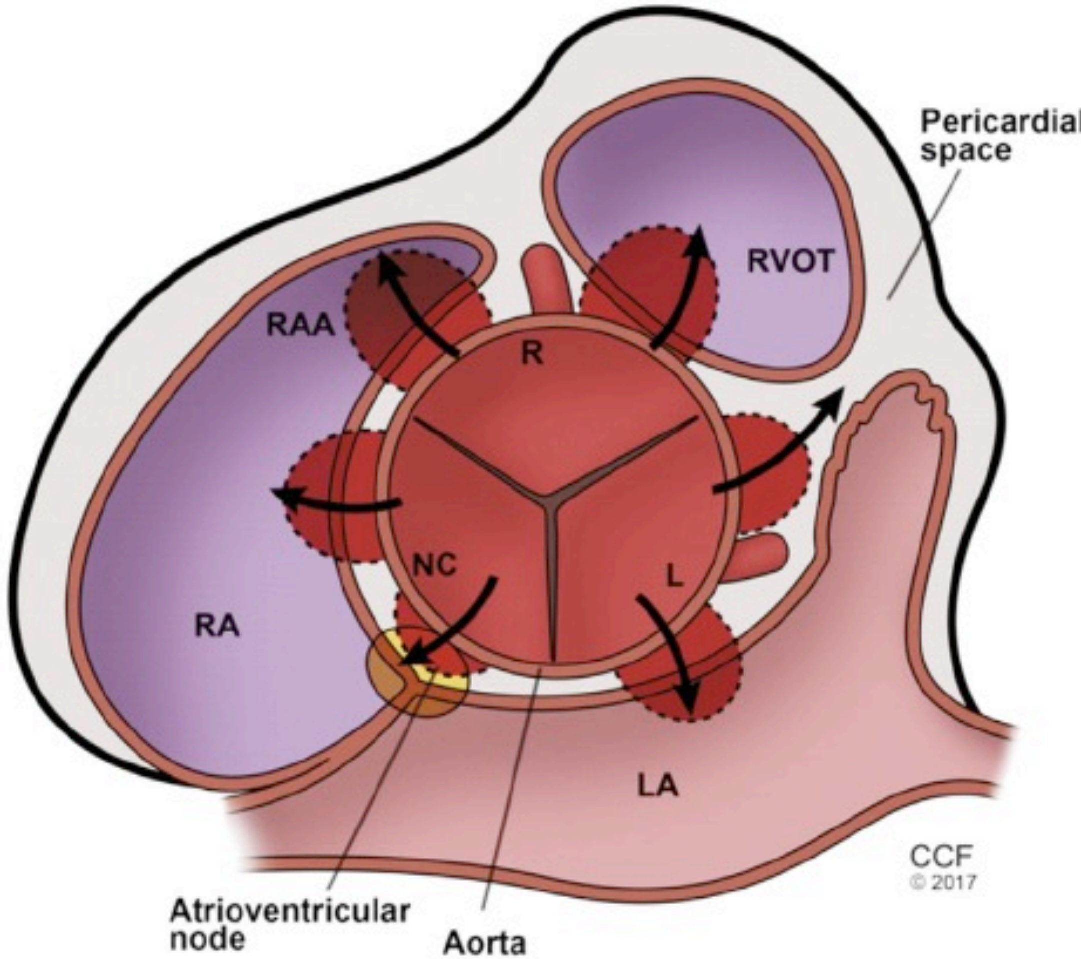
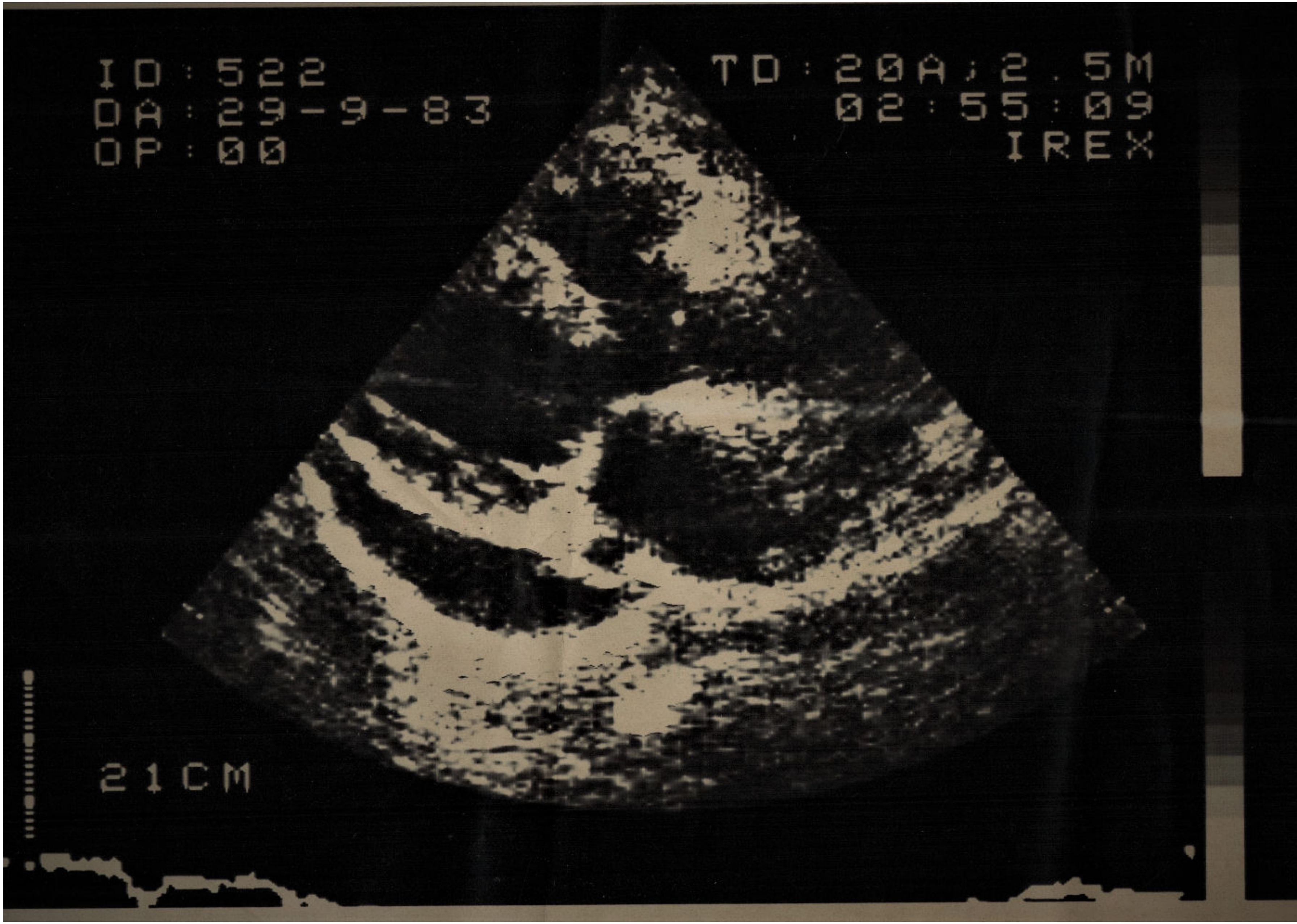


Figure 4 Schematic figure demonstrating the different aortic

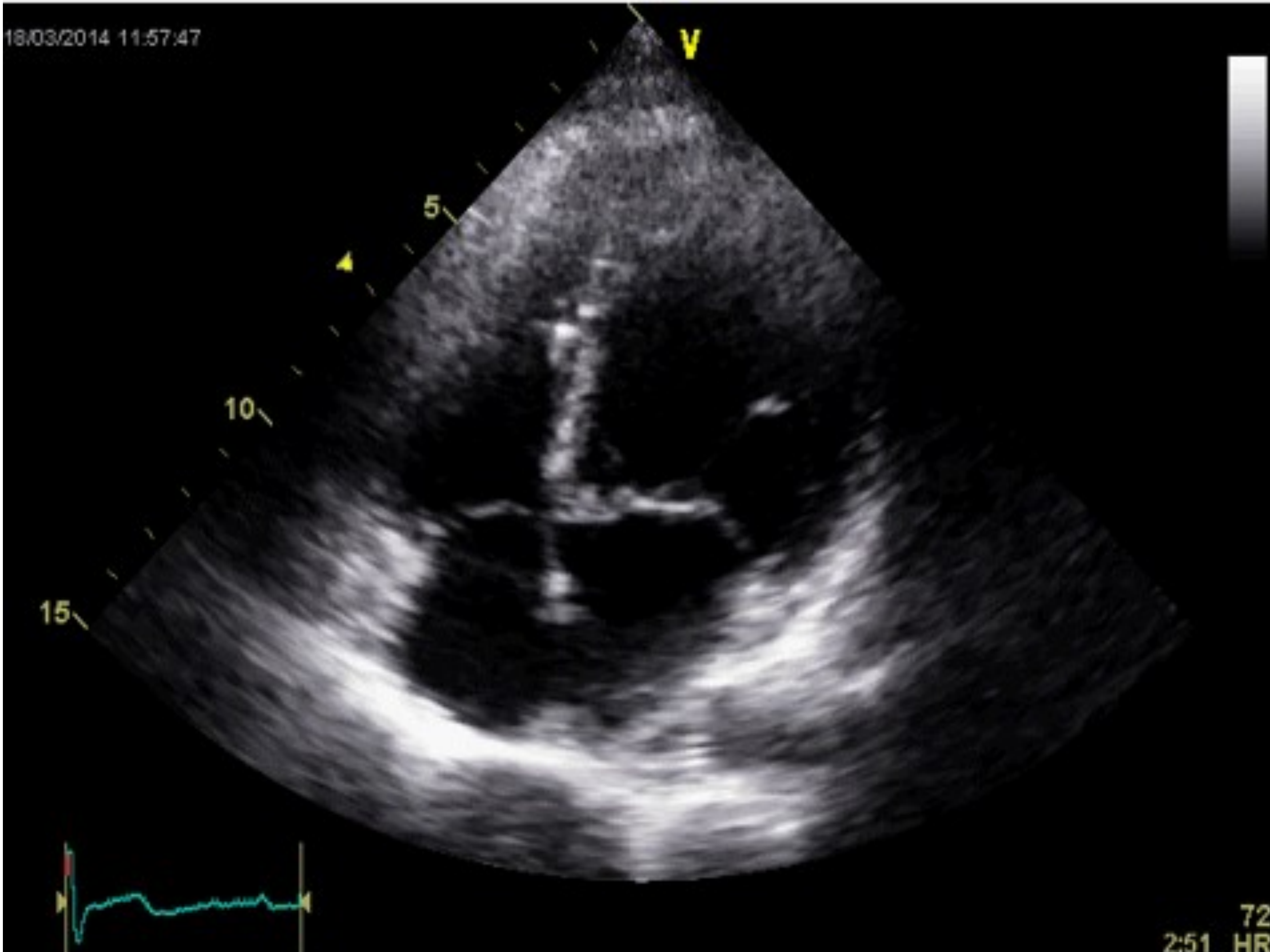
Case 4

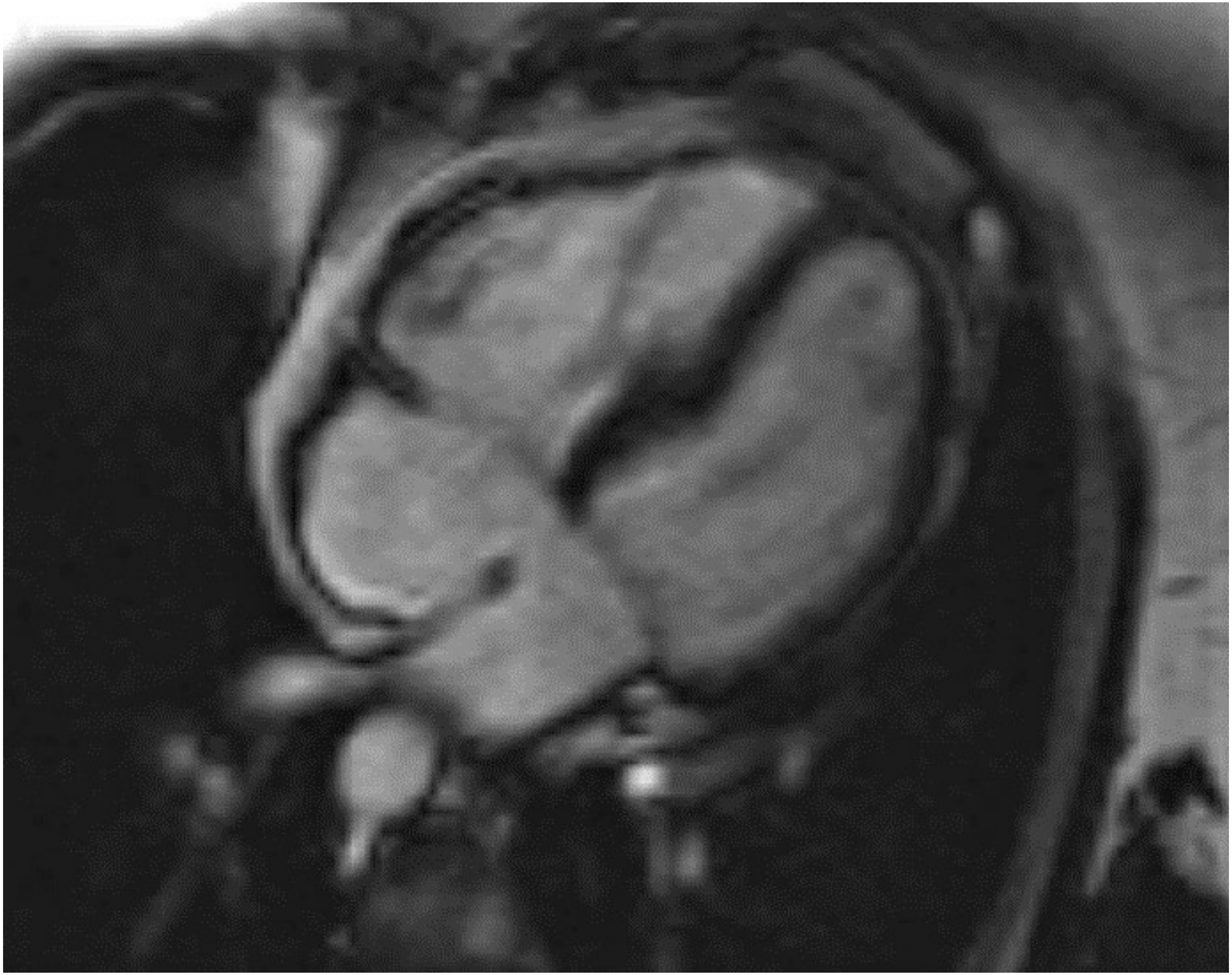
- 61F with clubbing, cyanosis, and pedal edema
- No prior surgery


ID:522
DA:29-9-83
OP:00
TD:20A;2.5M
02:55:09
IREX
21CM

Case 5

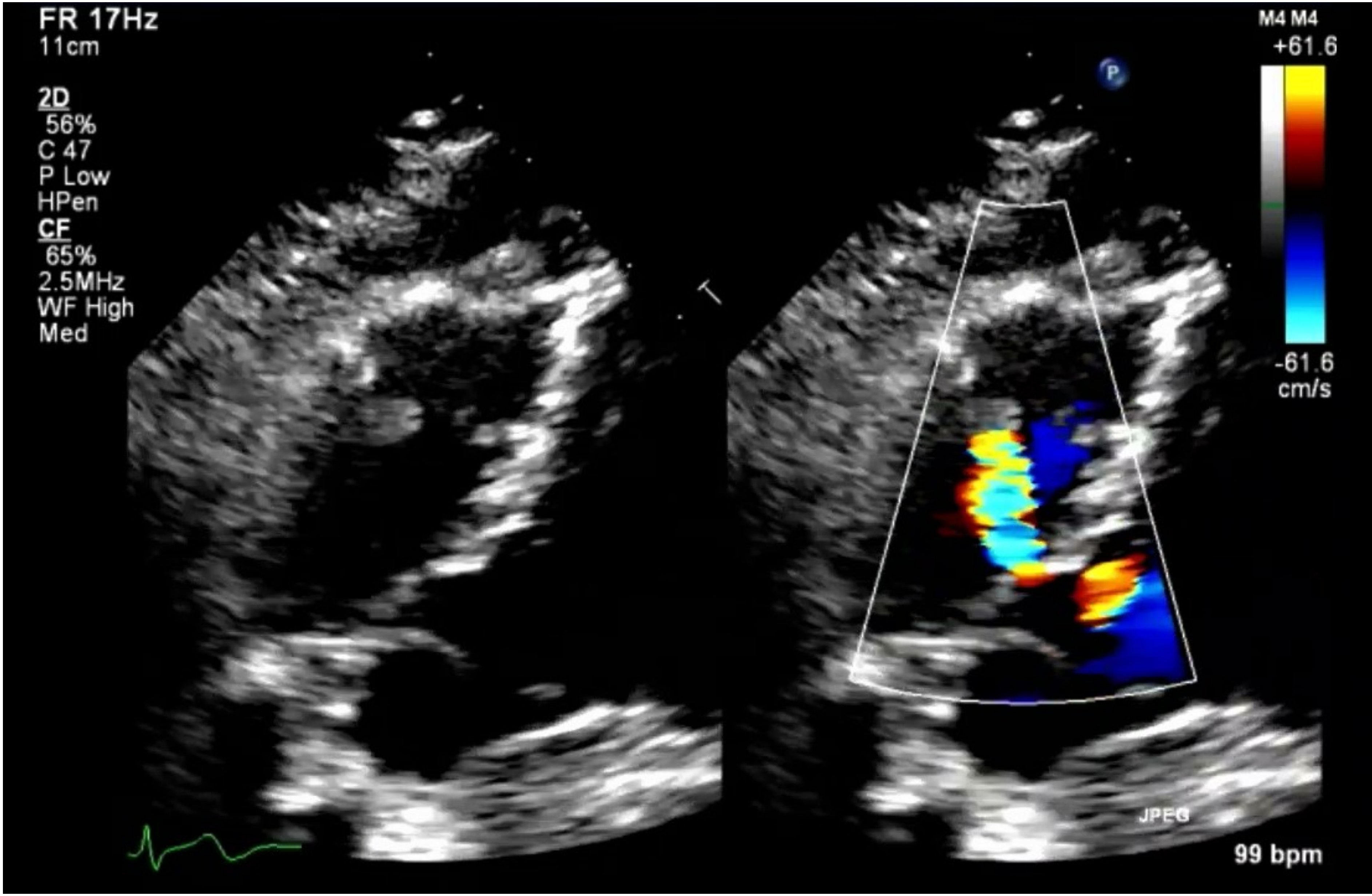
- 29F cardiac surgery as a toddler
- Pan-systolic murmur at apex
- Underlying congenital defect?
- What was her surgery?

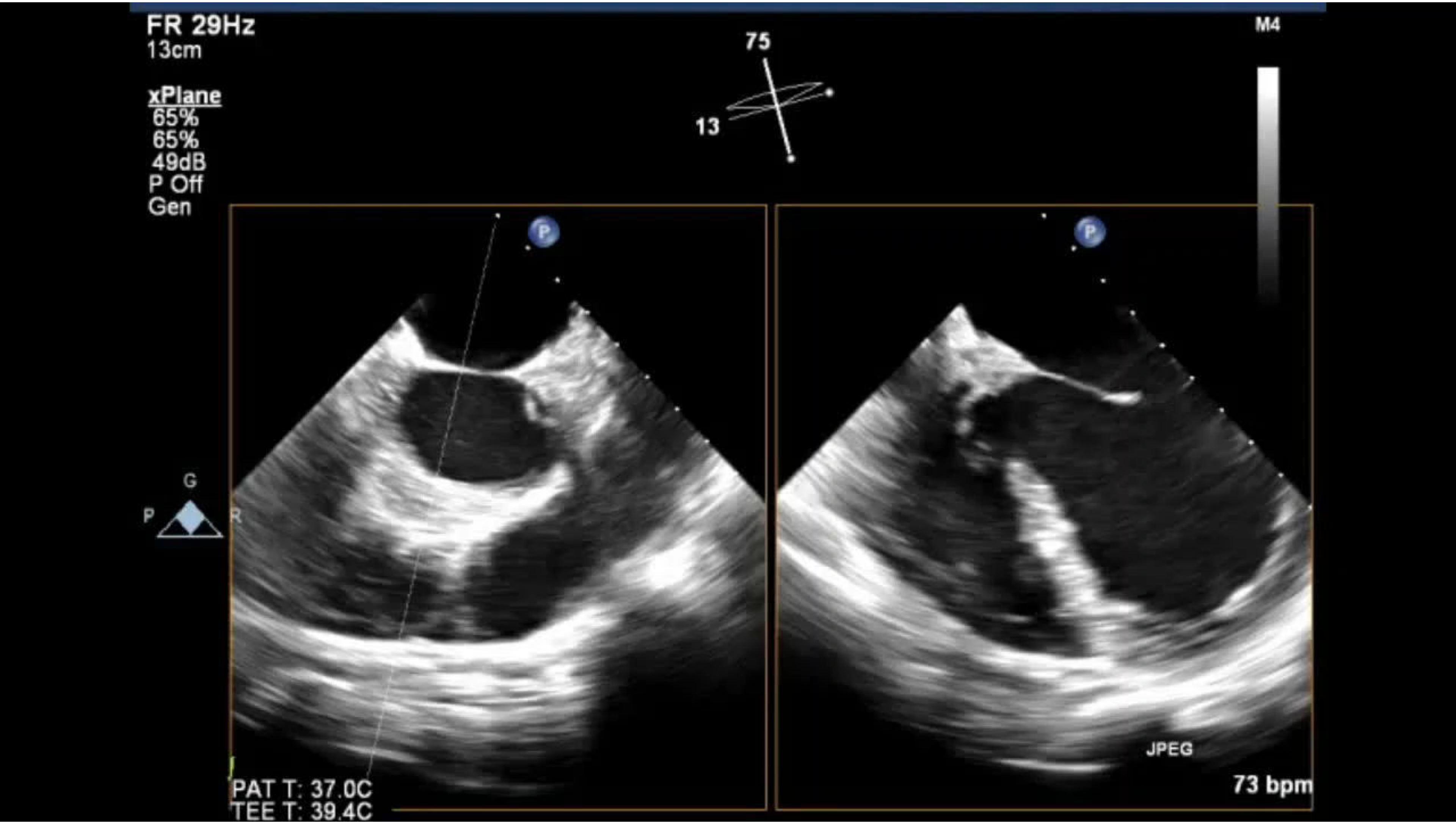

18/03/2014 11:57:47
V
5
4
10
15
72
2:51 HR



Case 6

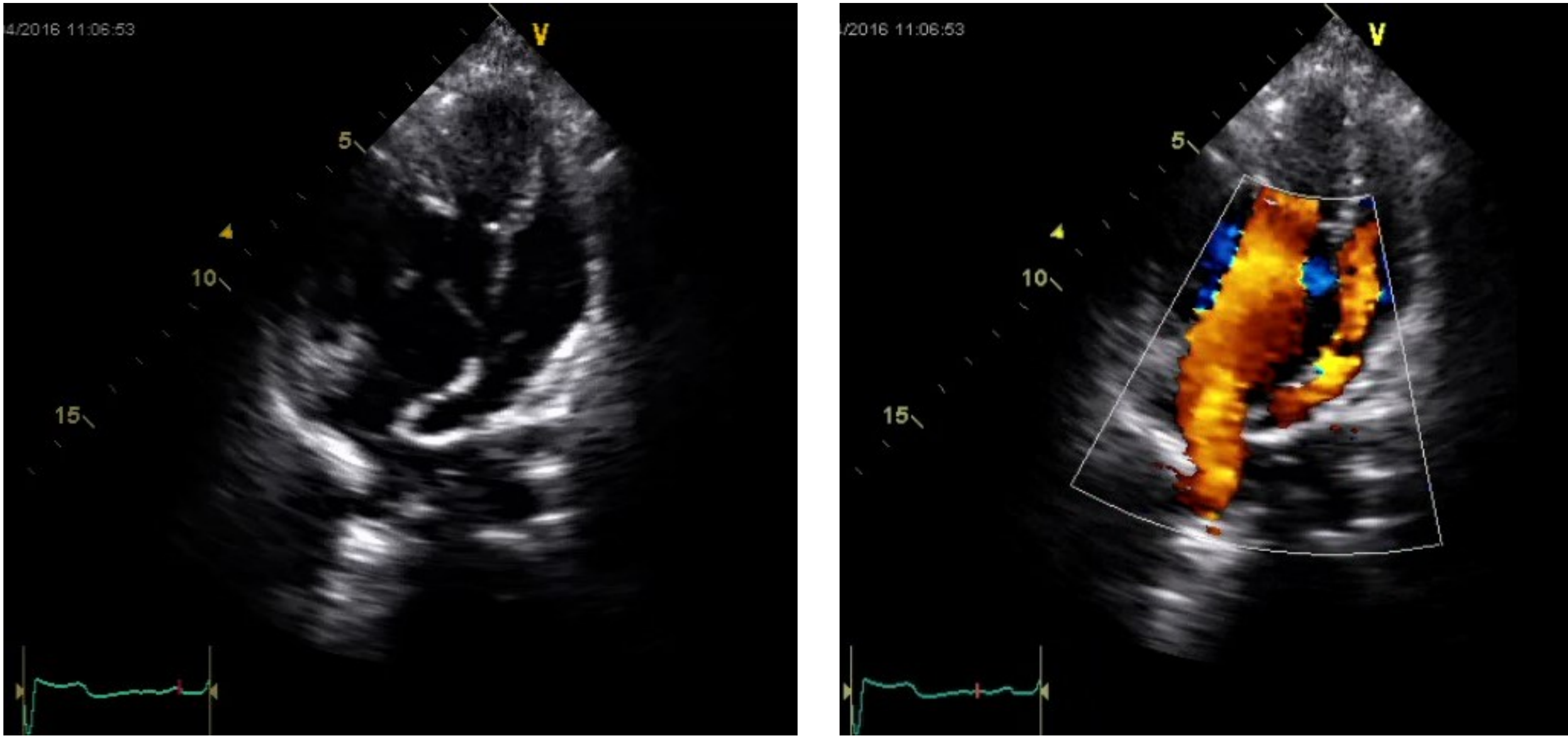
- Young woman with fever
- Positive blood cultures
- Pan-systolic murmur


FR 17Hz
11cm
2D
56%
C 47
P Low
HPen
CF
65%
2.5MHz
WF High
Med
M4 M4
+61.6
-61.6
cm/s
JPEG
99 bpm


FR 29Hz
13cm
xPlane
65%
65%
49dB
P Off
Gen
75
13
M4
G
P
R
PAT T: 37.0C
TEE T: 39.4C
JPEG
73 bpm

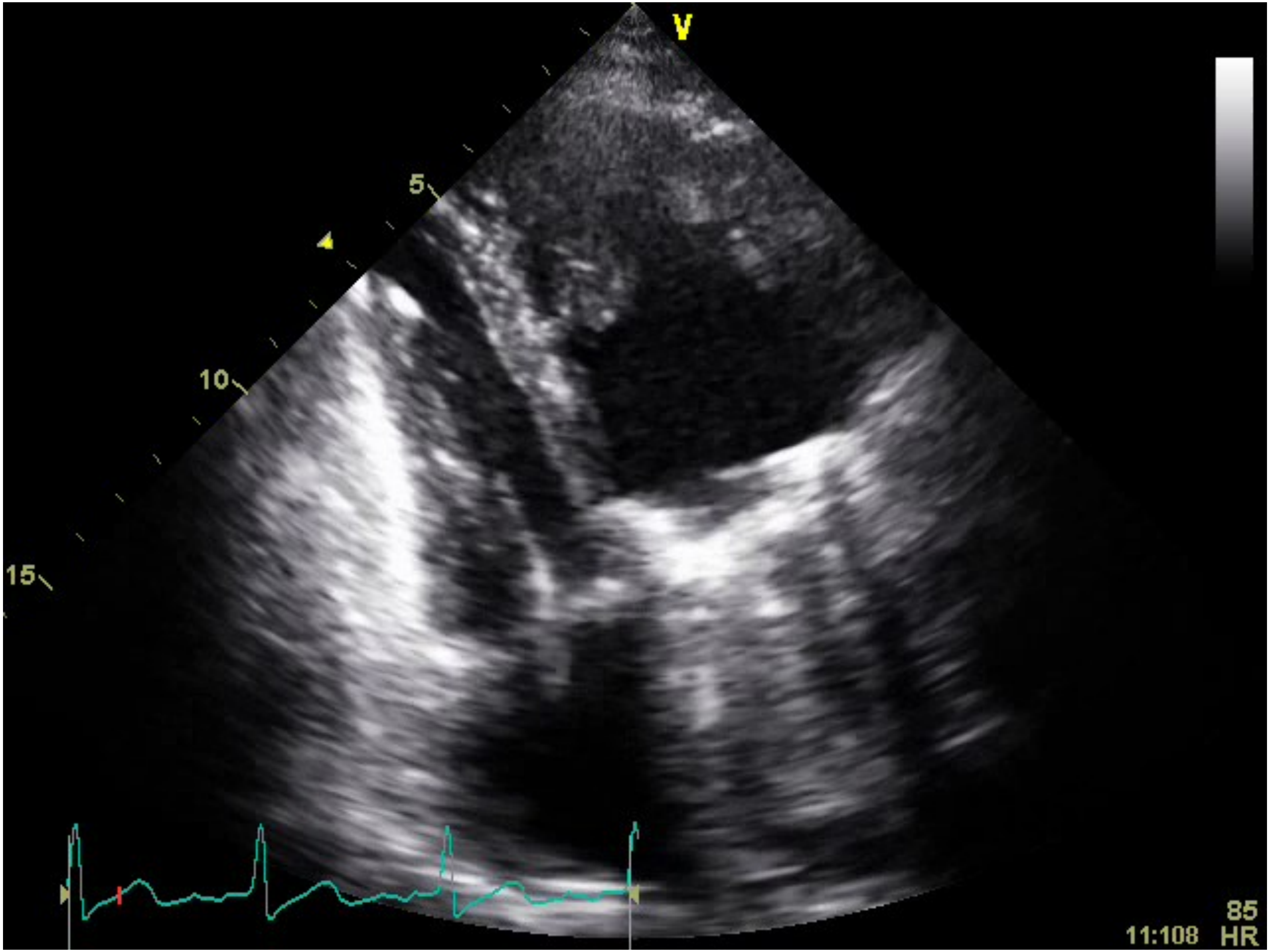
Case 7

- 25F with surgery in childhood
- No symptoms
- Wants to become pregnant

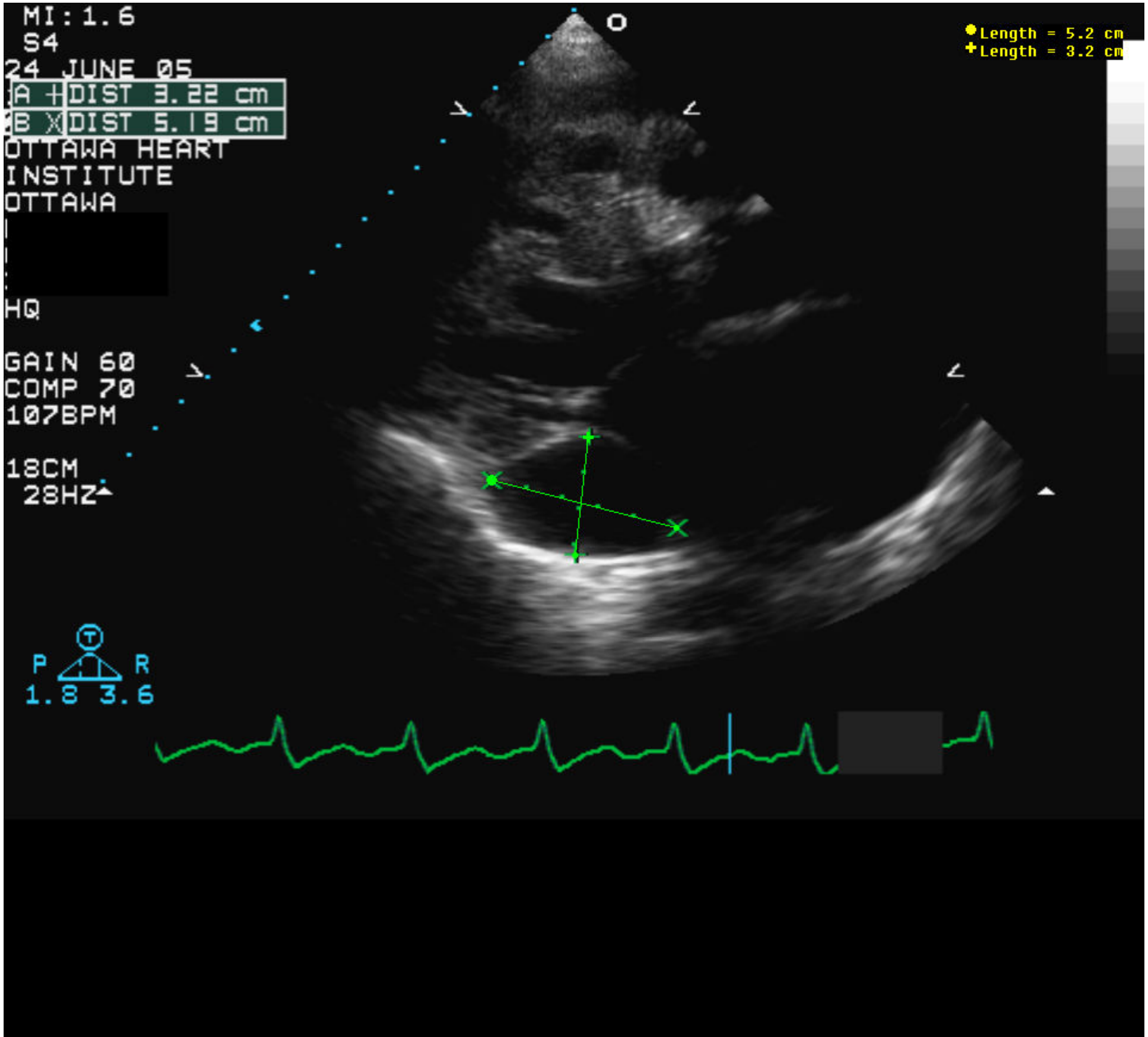

4/2016 11:06:53
V
5
10
15
/2016 11:06:53
V
5
10
15

Case 8

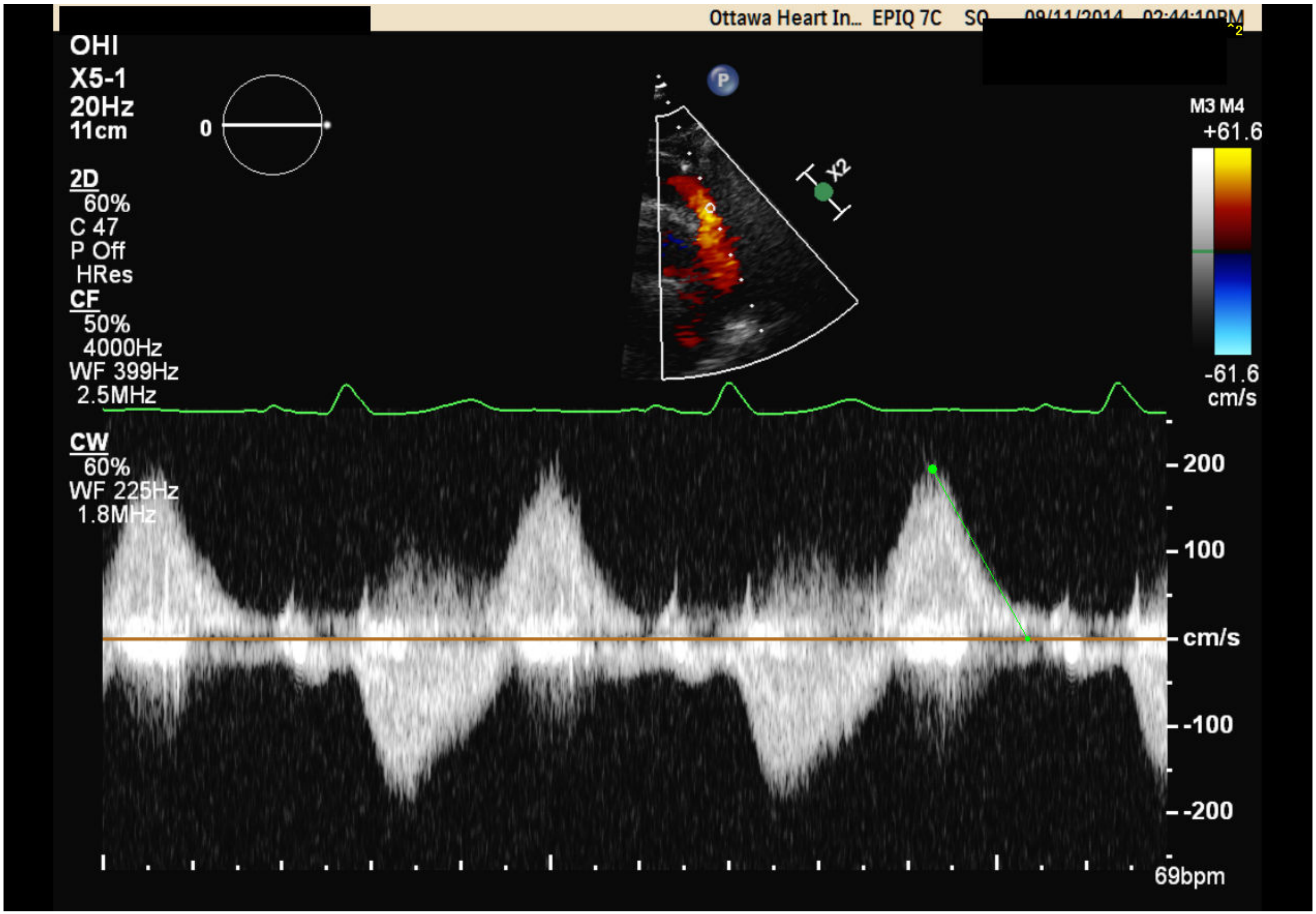
- Pregnant 25F who had surgery as a child
- What is the underlying congenital defect?
- What previous surgery / procedures are evident on this 4 chamber view?


V
5
10
15
85
11:108 HR

Case 9


MI:1.6
S4
24 JUNE 05
A + DIST 3.22 cm
B X DIST 5.19 cm
OTTAWA HEART
INSTITUTE
OTTAWA
[redacted]
HQ
GAIN 60
COMP 70
107BPM
18CM
28HZ
P R
1.8 3.6
Length = 5.2 cm
Length = 3.2 cm

Case 10


[redacted]
Ottawa Heart In... EPIQ 7C SQ [redacted]
OHI
X5-1
20Hz
11cm
0
2D
60%
C 47
P Off
HRes
CF
50%
4000Hz
WF 399Hz
2.5MHz
CW
60%
WF 225Hz
1.8MHz
X2
P
M3 M4
+61.6
-61.6
cm/s
200
100
cm/s
-100
-200
69bpm