

CASE :

LVOT obstruction and LAVV stenosis following CCAVC repair

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20 year old

14 mo. - Diagnosed and repaired - Partial AVC repair

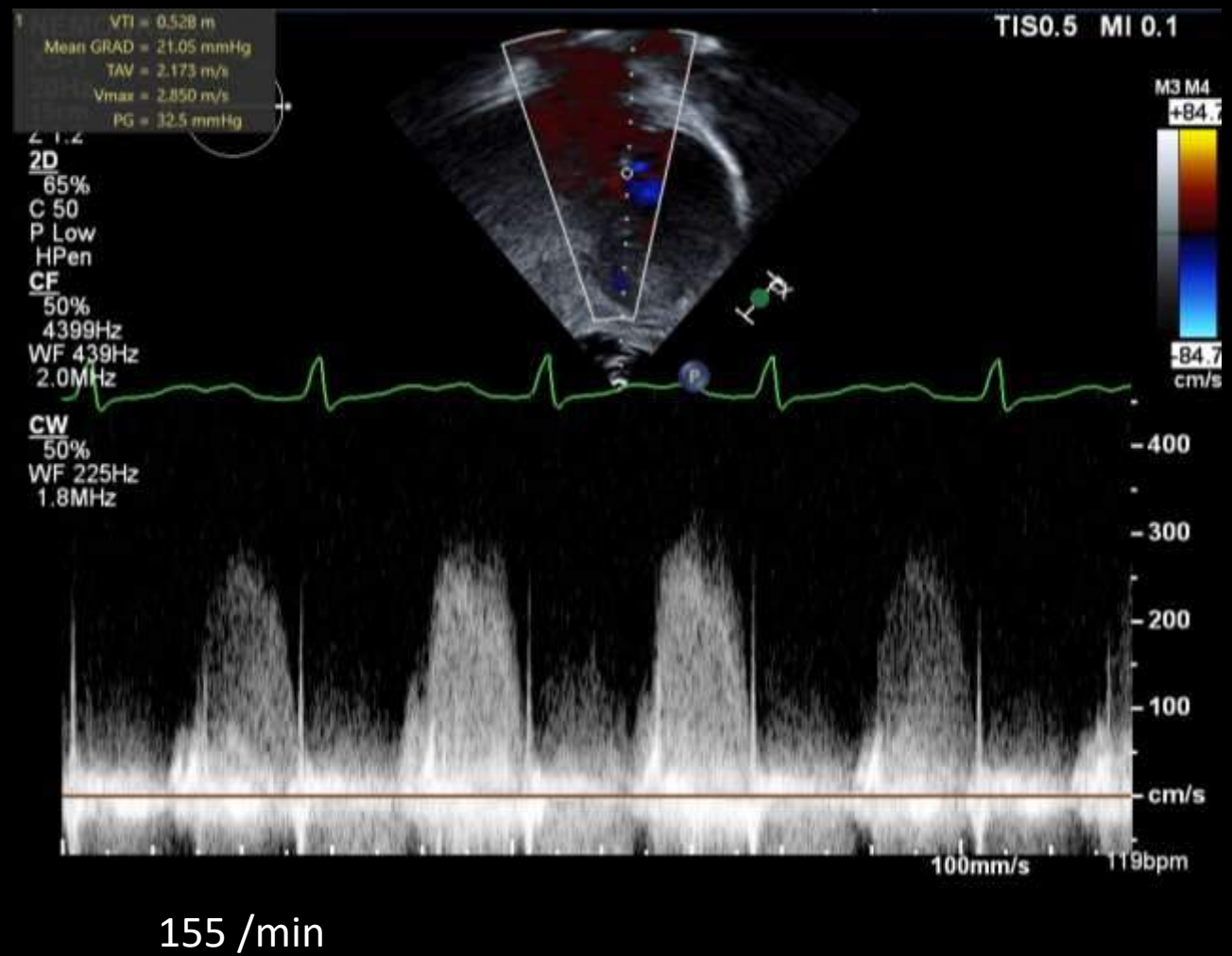
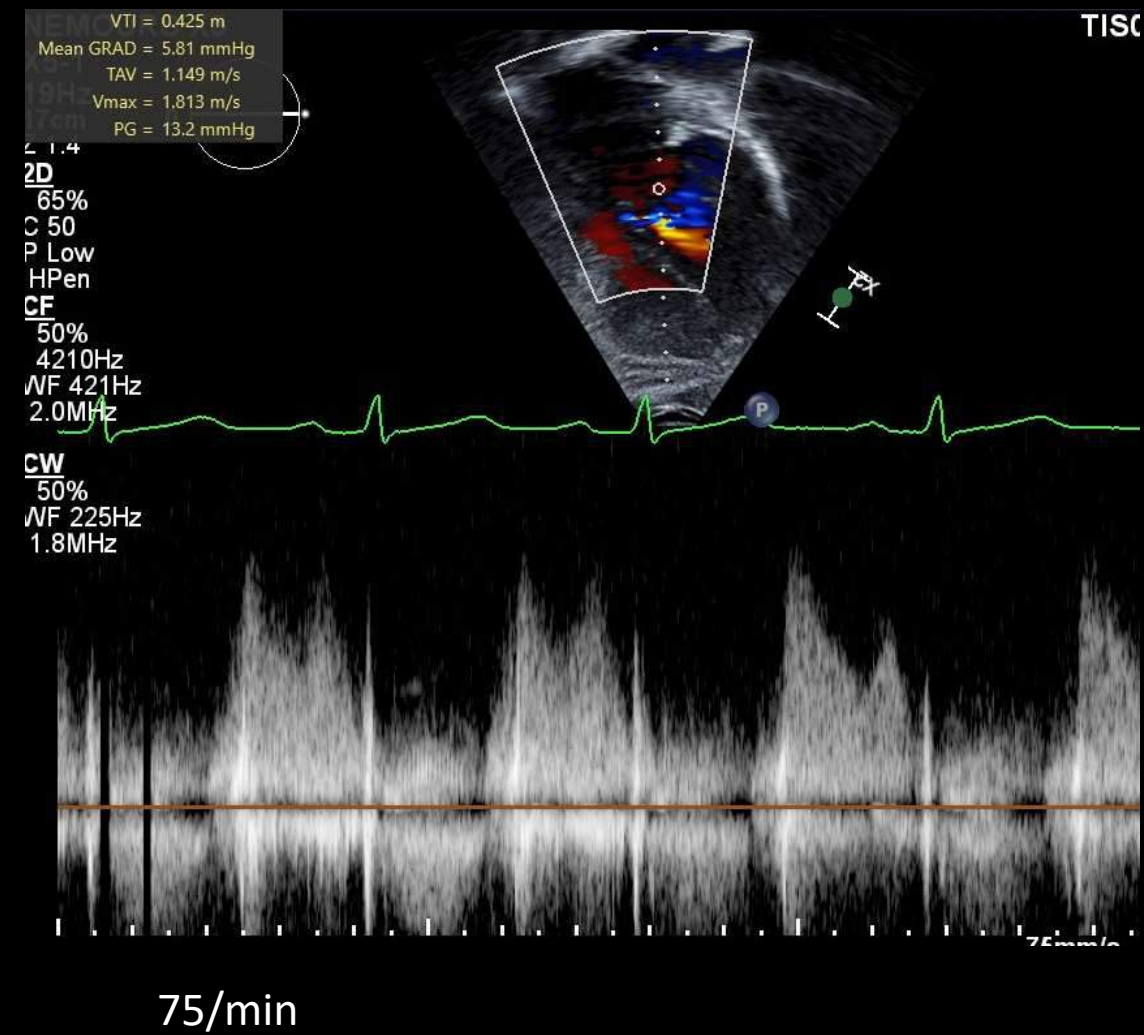
10 years – Subaortic membrane resection and Septal Myomectomy and division of accessory MV chordae – residual gradient peak 30 mmHg with Mild AR; Left AVV – mean Gradient 2 mmHg

19 years – Left AVV –mean 7-10 (HR 76/min) ; Sub AS 55 Pk (31 mean)

- Stress Echo Mean LAVV -27 mmHg (HR 150s/min) and LVOTO 86 peak (mean 48mmHg)-

- modest response on BP

Stress Echo

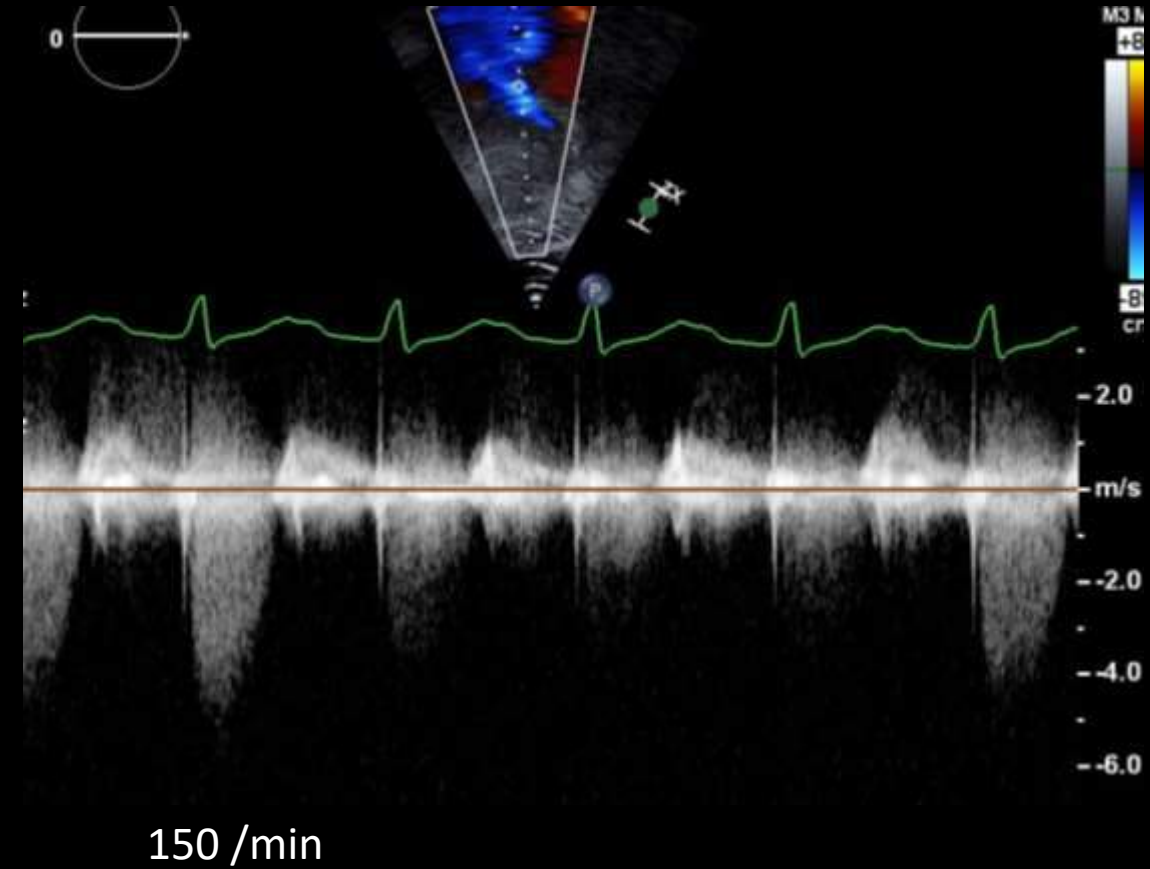
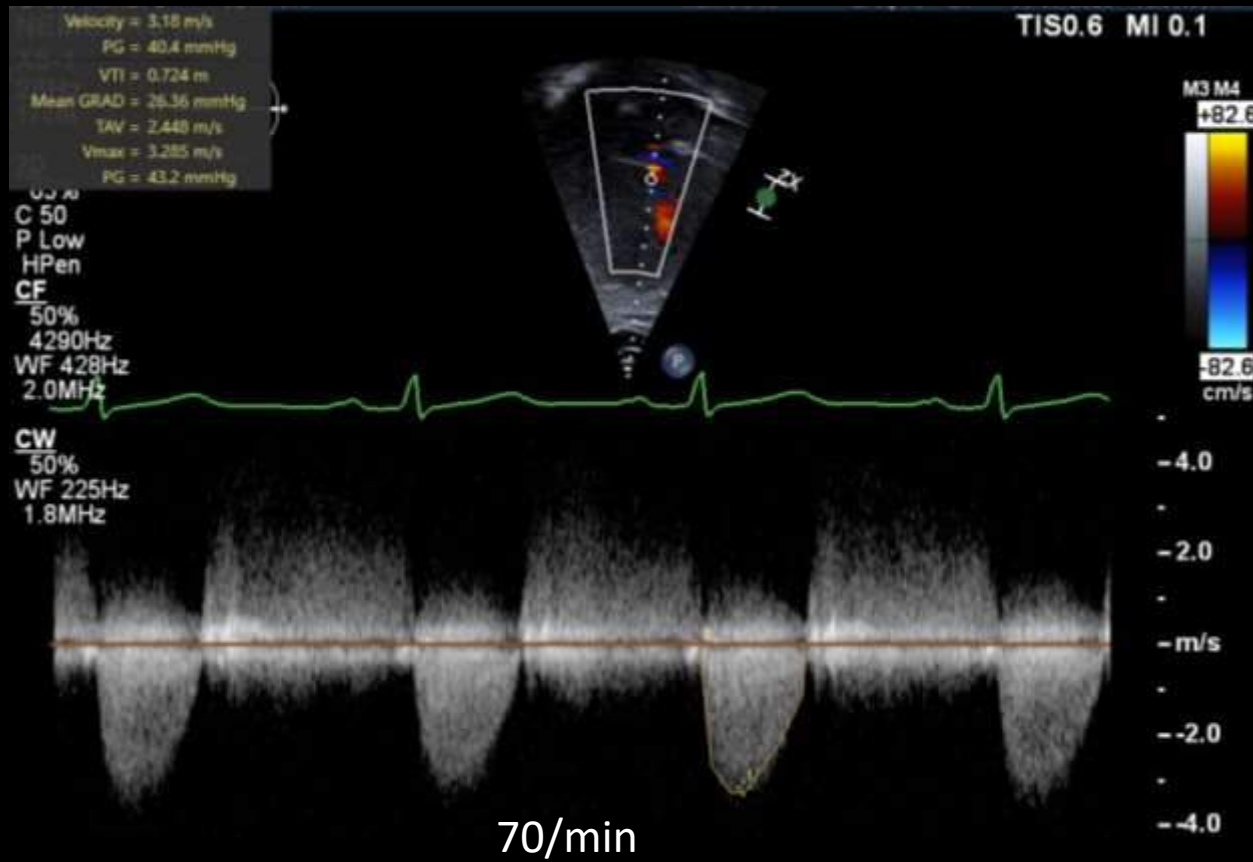


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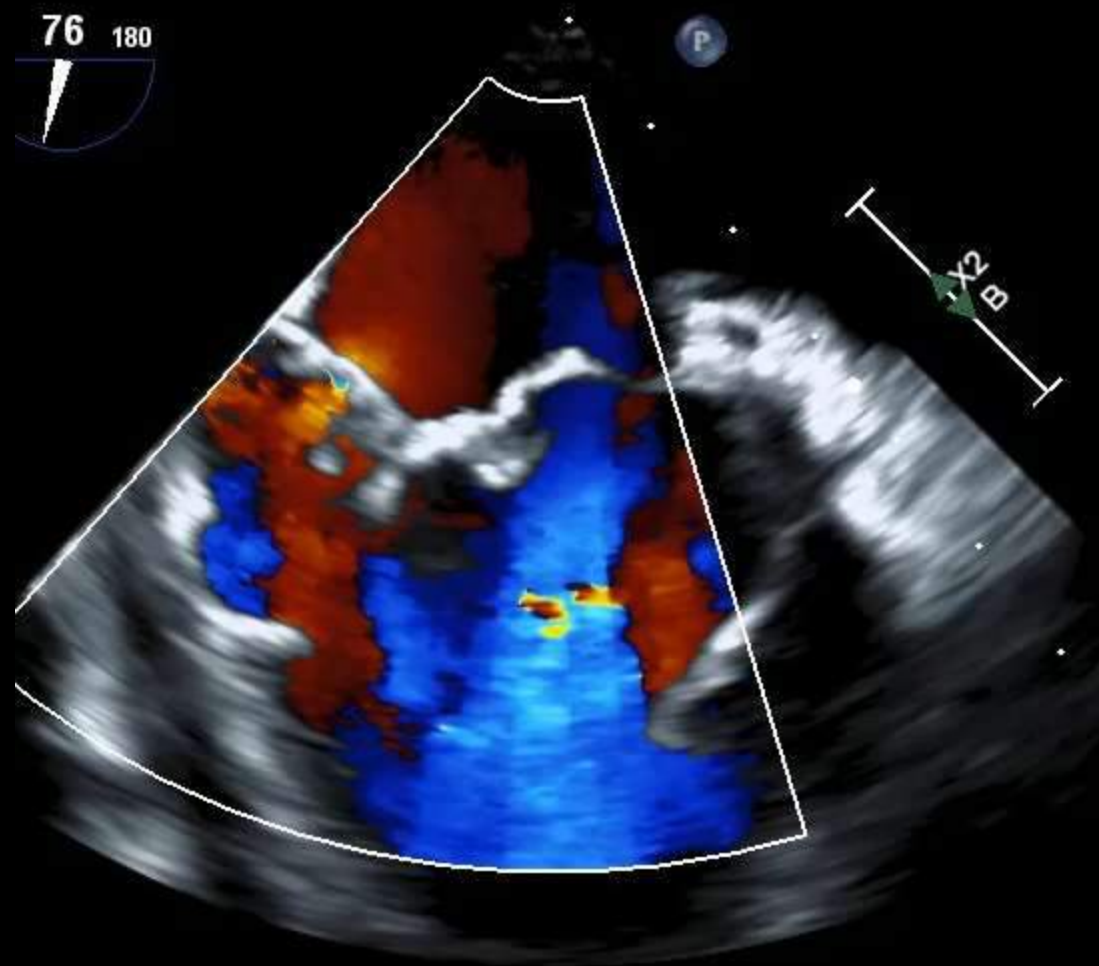
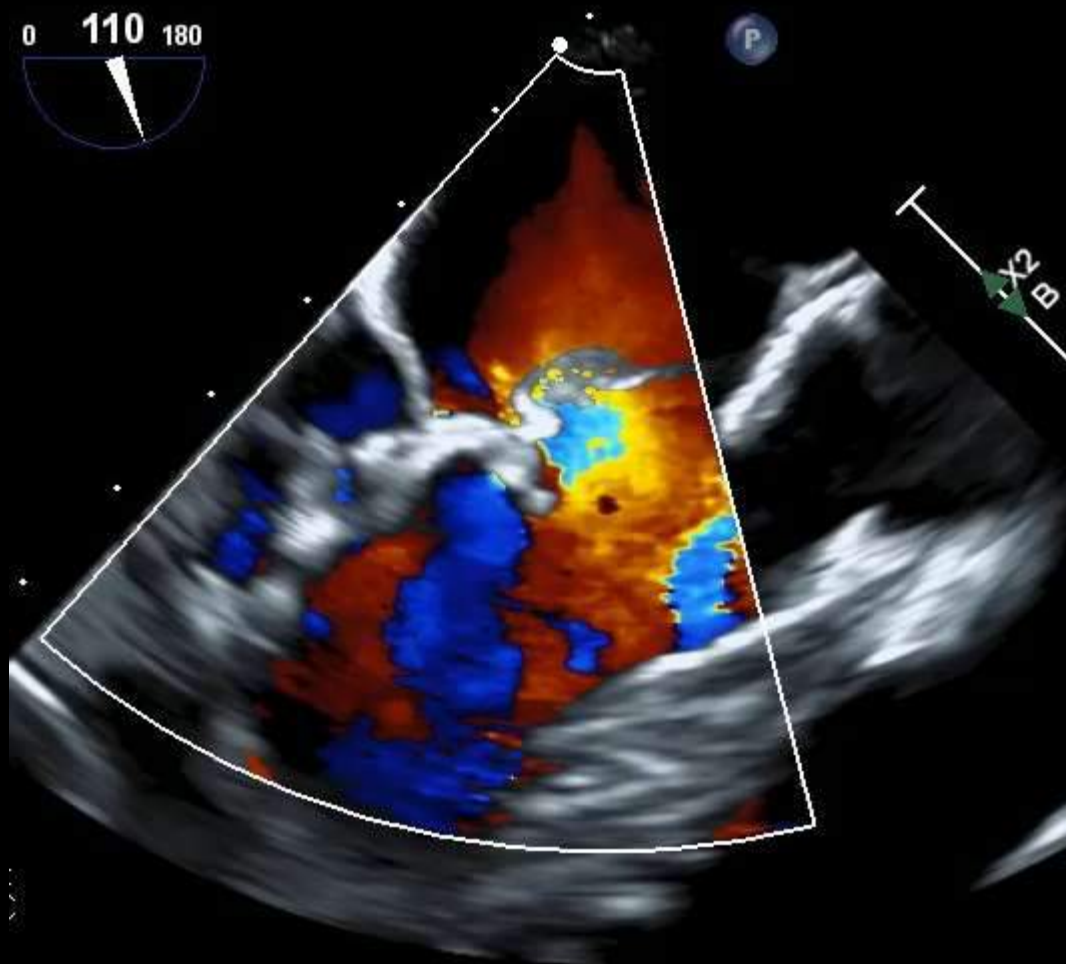
Stress echo- LVOTO



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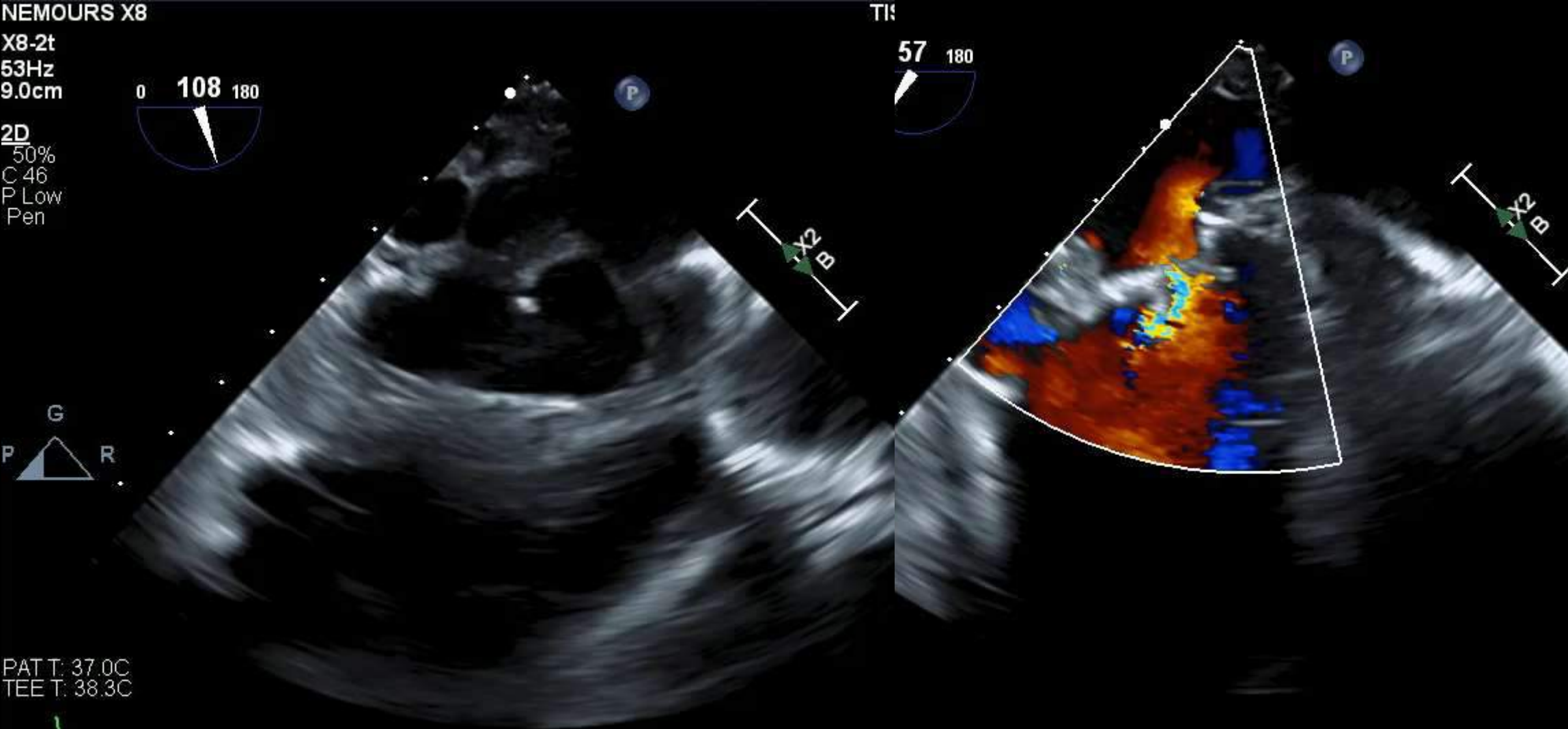
NEMOURS X8

X8-2t
53Hz
9.0cm

2D
50%
C 46
P Low
Pen



PAT T: 37.0C
TEE T: 38.3C



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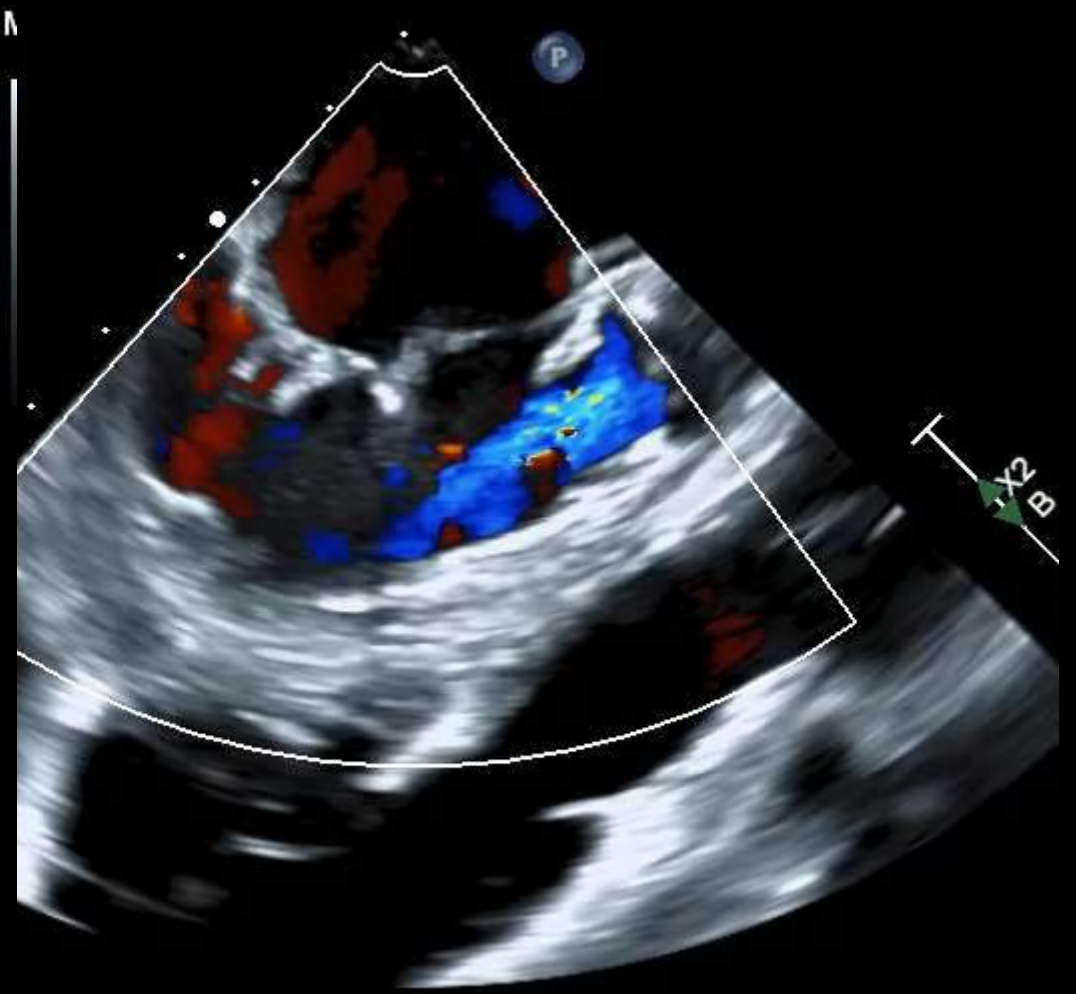


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15 AD

1130.2 1110.0

1130.0 11



90



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91 bpm

seats 6Q

180



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X8-2t

3D Beats 6Q

52Hz

7.1cm

0 75 180



Full Volume

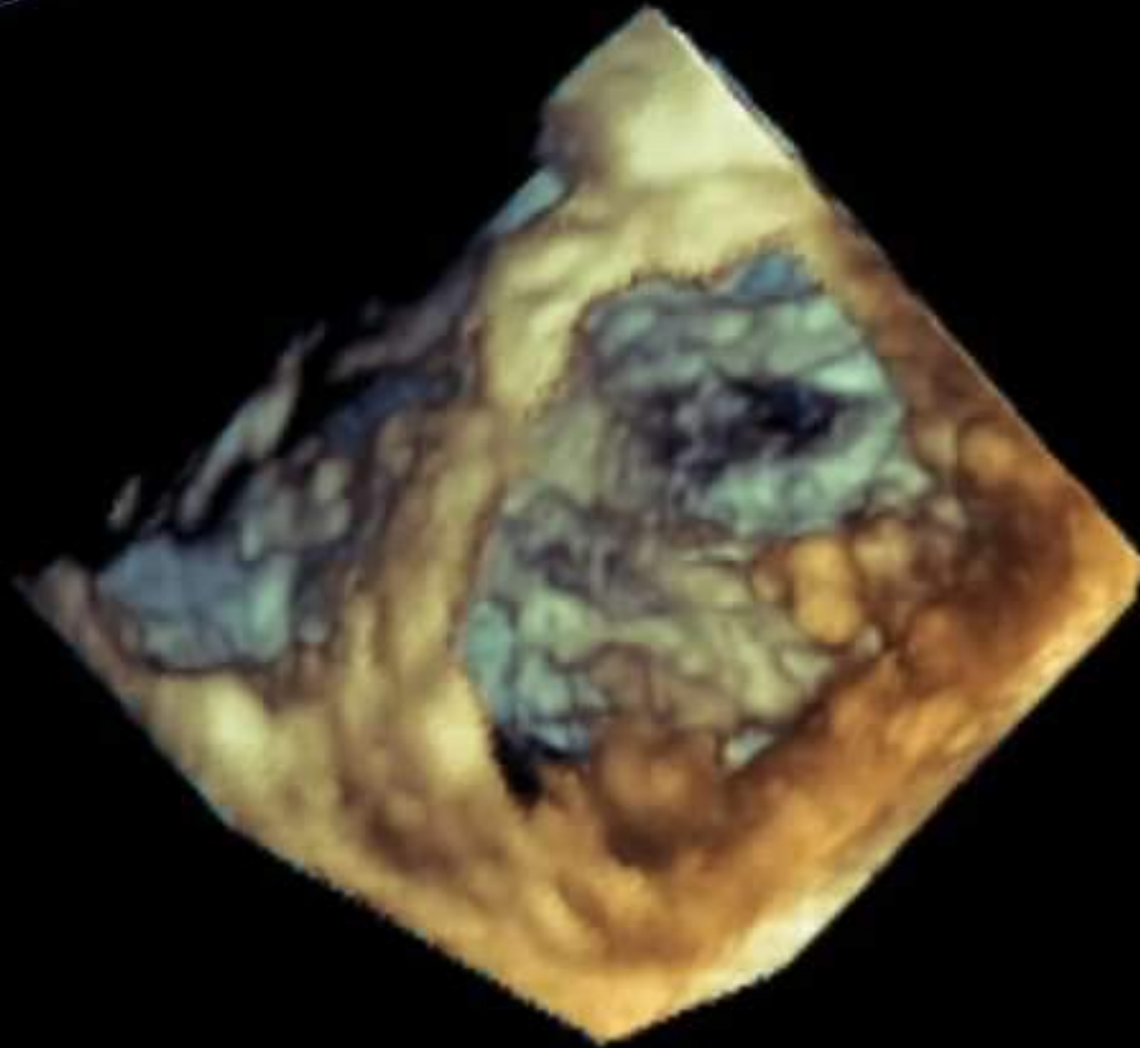
2D / 3D

% 52 / 39

C 45 / 28

Pen

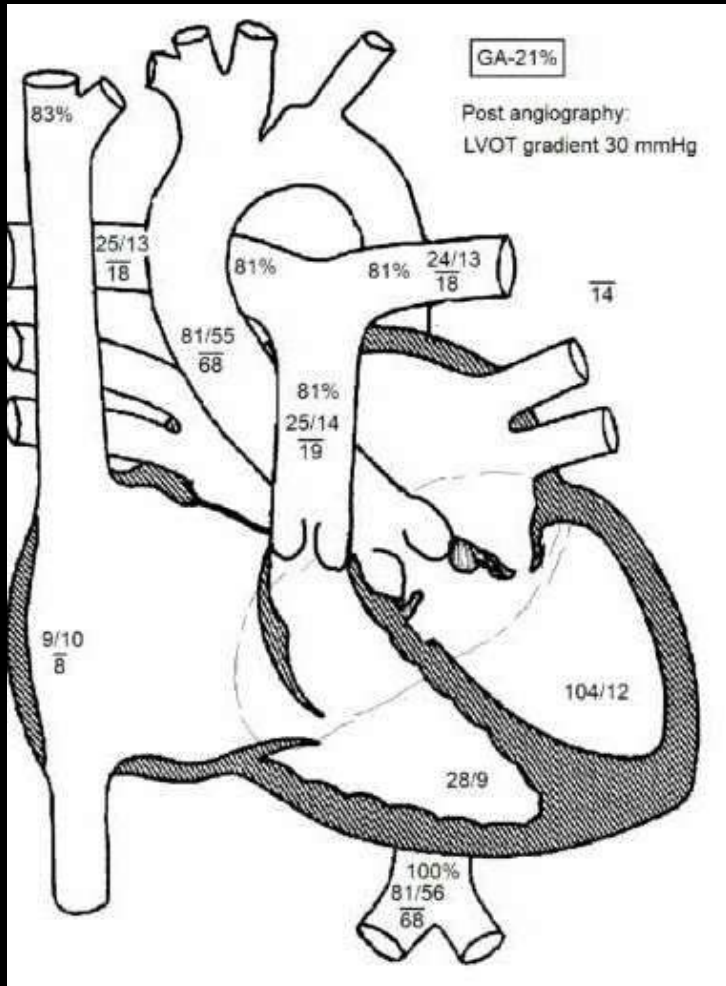
XRES ON



PAT T: 37.0C
TEE T: 39.4C



Cath



Mild mitral stenosis, mean gradient 6.3 mmHg; slightly elevated PCWP of 14-15 mmHg; normal PAp at 31% systemic (mean PAp 18 mmHg) with normal Rp of 2.1 units.m2 (Rp/Rs= 0.07) using the depressed thermodilution CI of 1.9 l/min/m2
Mild to moderate residual SubAS, gradient 23-30 Hg, narrowest diameter 11.0 mm (LVOT 20.6 mm), excentric opening of aortic valve; mild aortic insufficiency (angio grade I-II)

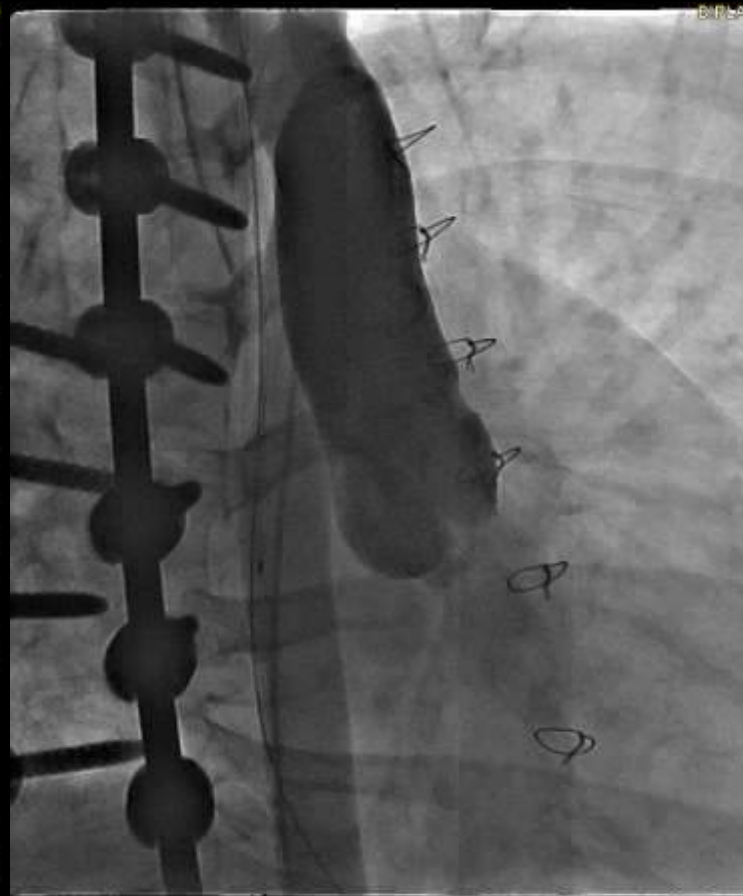
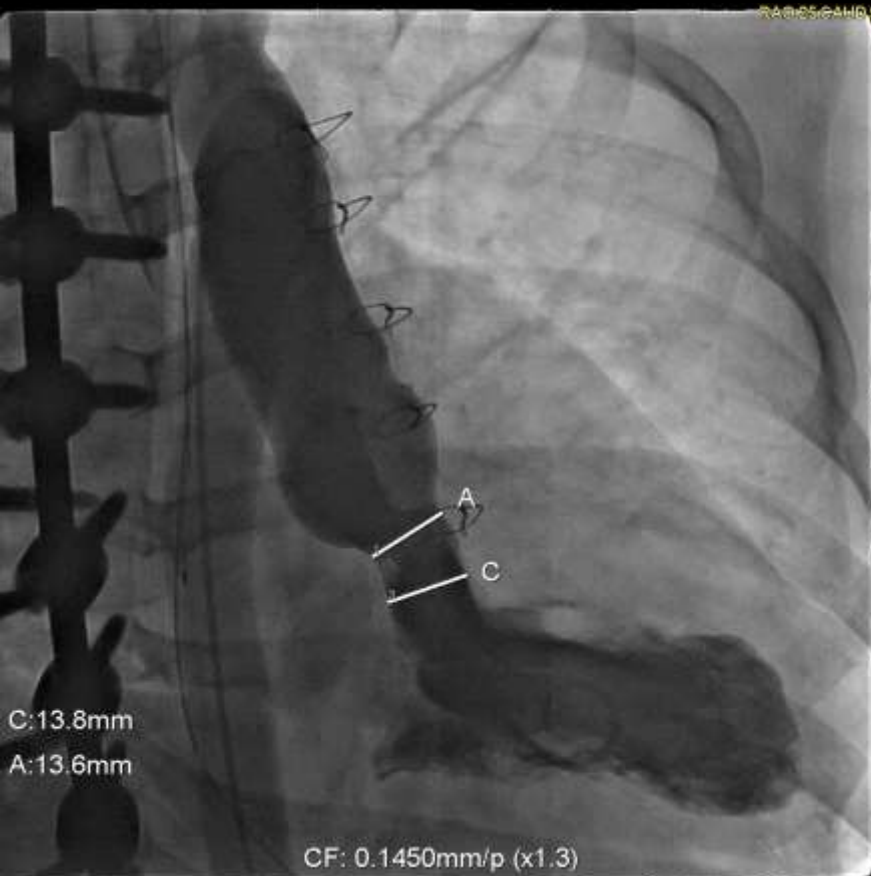


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Cath



7-2t
7Hz
2cm

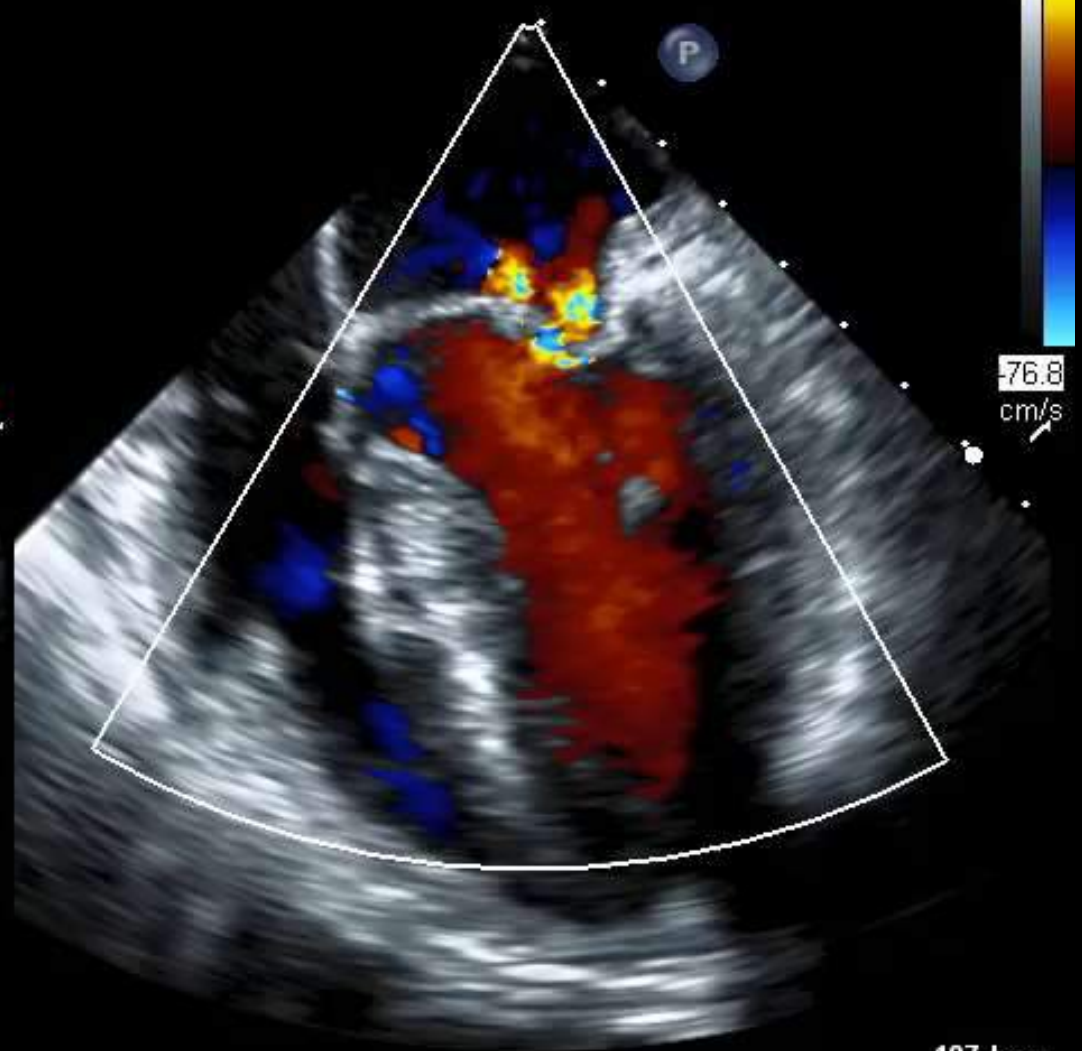
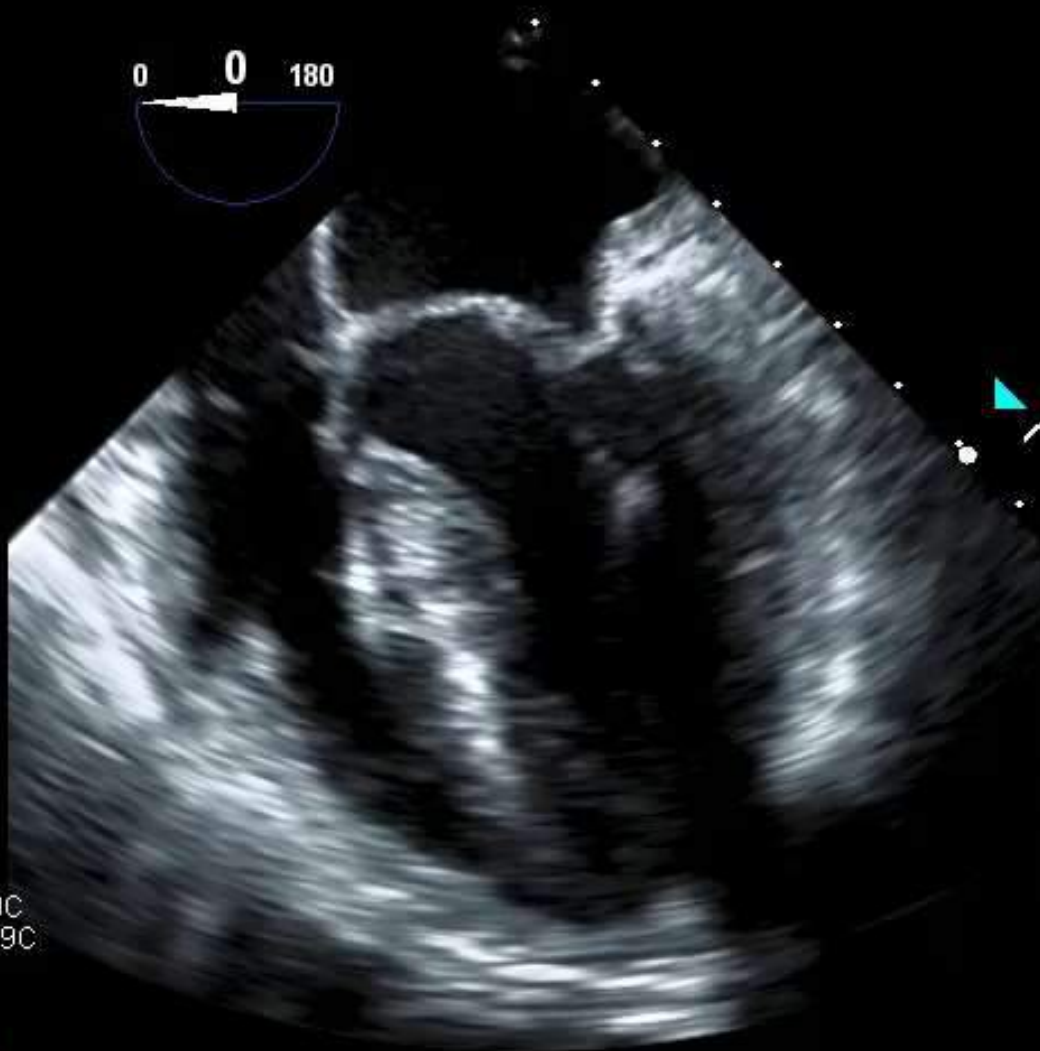
INTRA OP

D
56%
50
Off
pen



F
45%
6652Hz
√F 598Hz
1.3MHz

WAT T: 42.0C
EE T: 40.9C



107 bpm

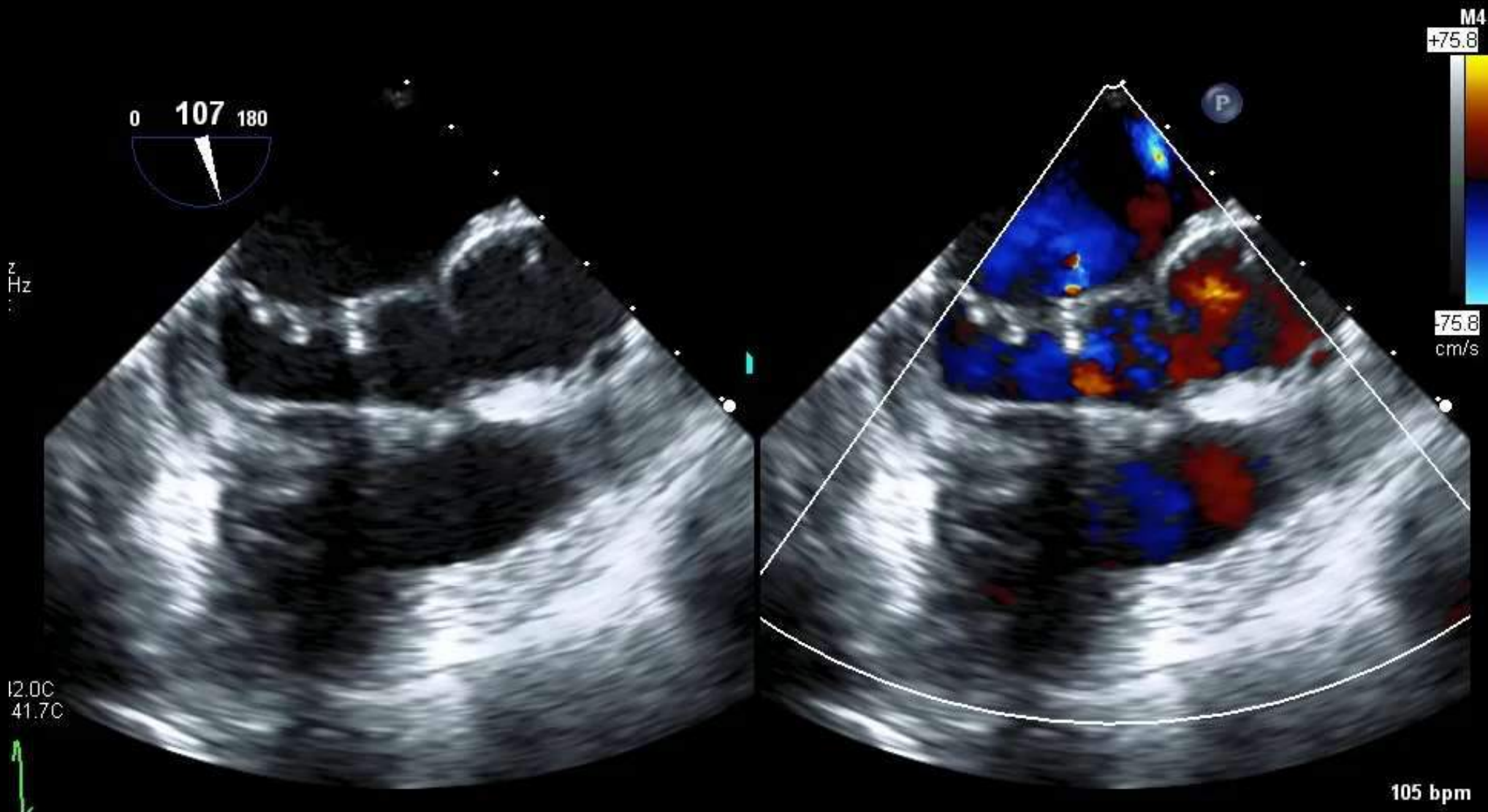


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INTRA OP



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105 bpm
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Post operative

- AI- Mild
- No LVOTO
- LAV Valve stenosis- ~3mmHg mean
- Mild to moderate Left AVV regurgitation



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Summary

- Worsening of Symptoms
- Worsening Gradients and elevated EDP
- Utility of Stress Echo and TEE and 3D



THthank you!**YOU!**

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X8-2t
63Hz
9.0cm

2D
53%
C 45
P Low
Pen

0 144 180



P

M4



PAT T: 37.0C
TEE T: 39.7C



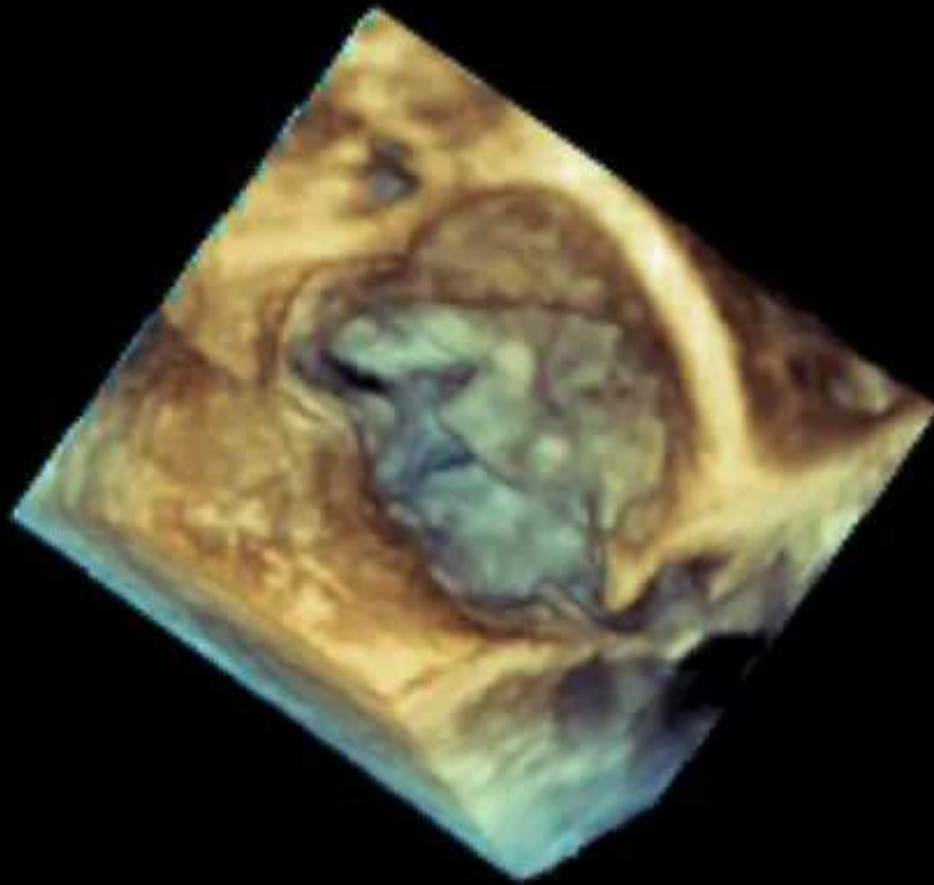
90 bpm



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ay 0ms

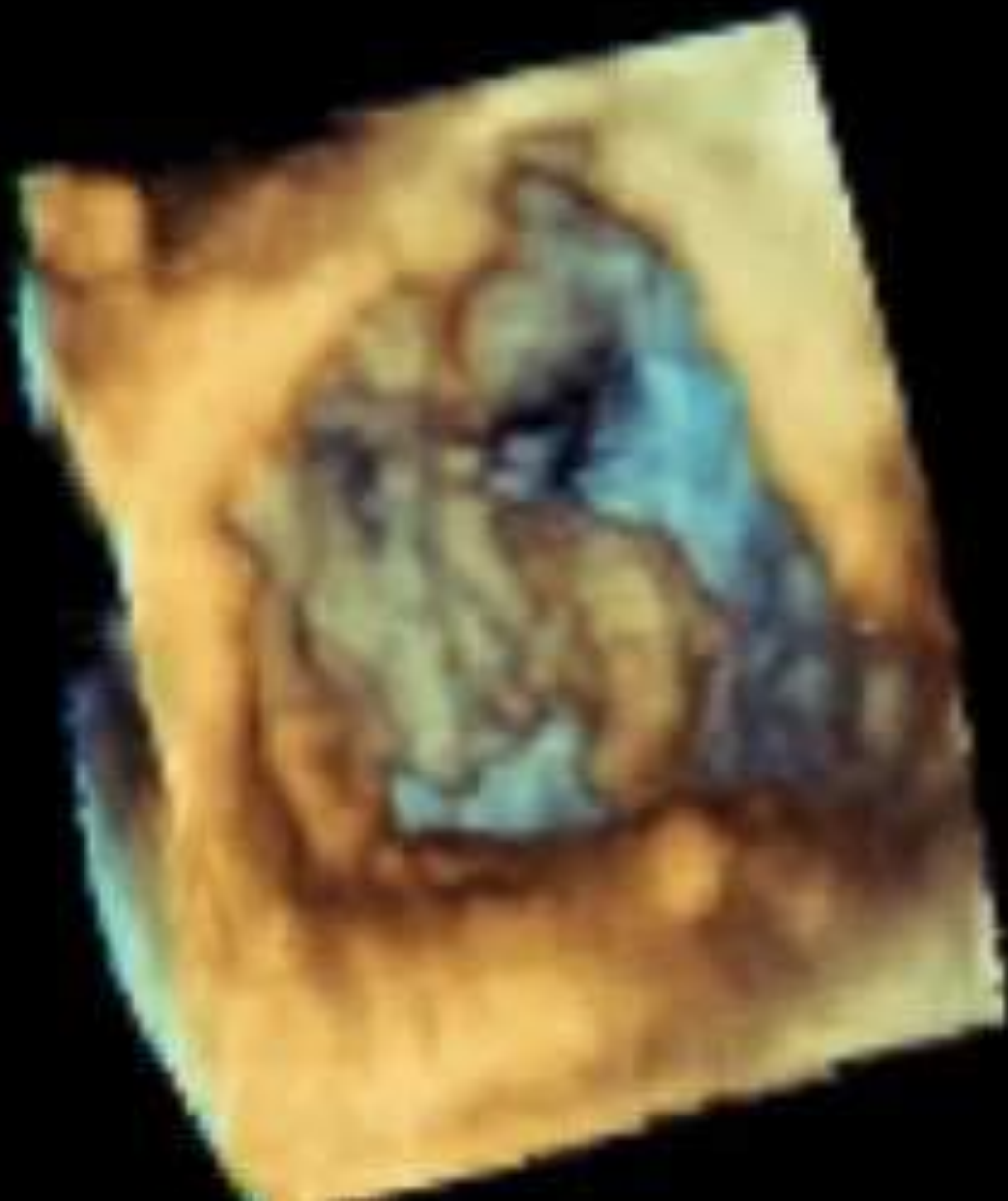
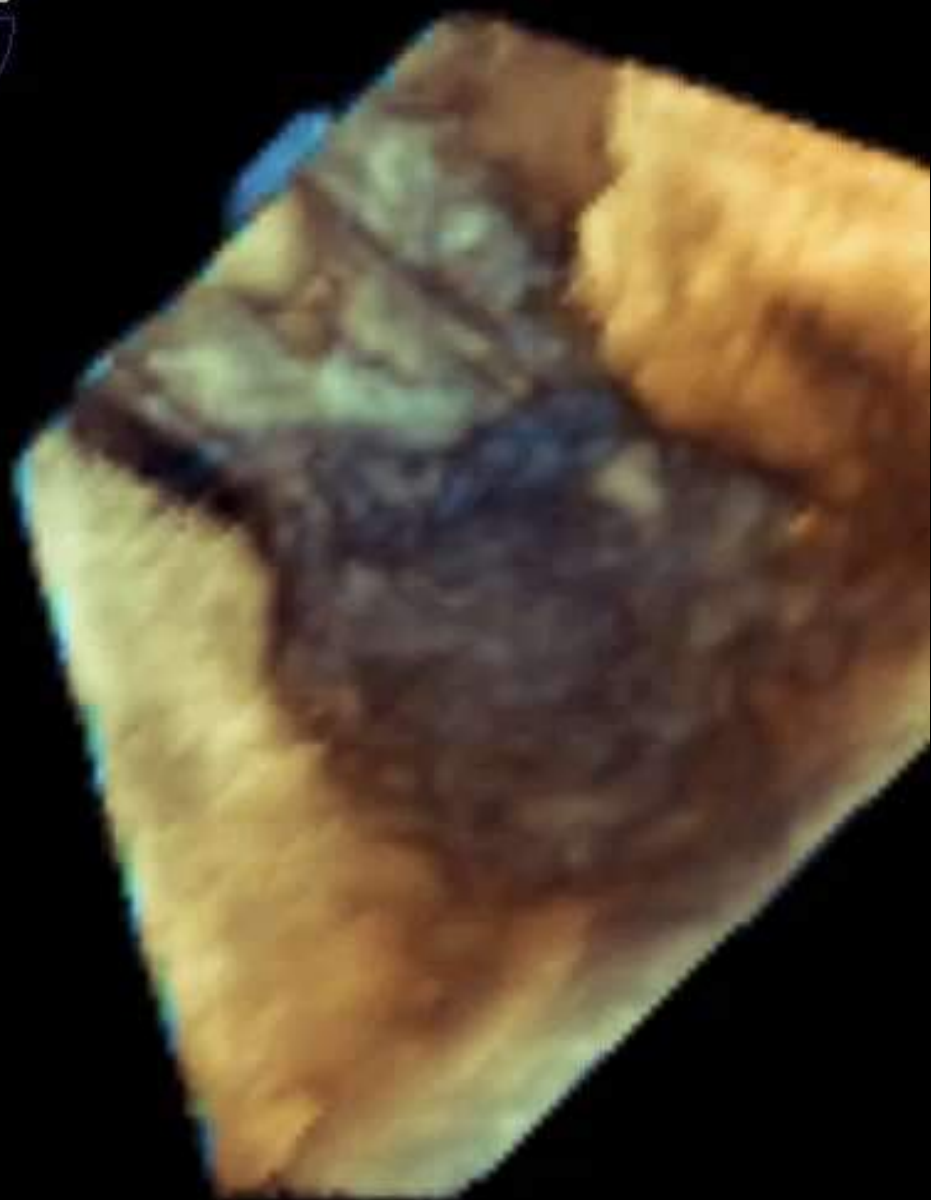
87 bpm



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INTRA OP

X7-2t
17Hz
12cm

2D
58%
C 50
P Off
Pen

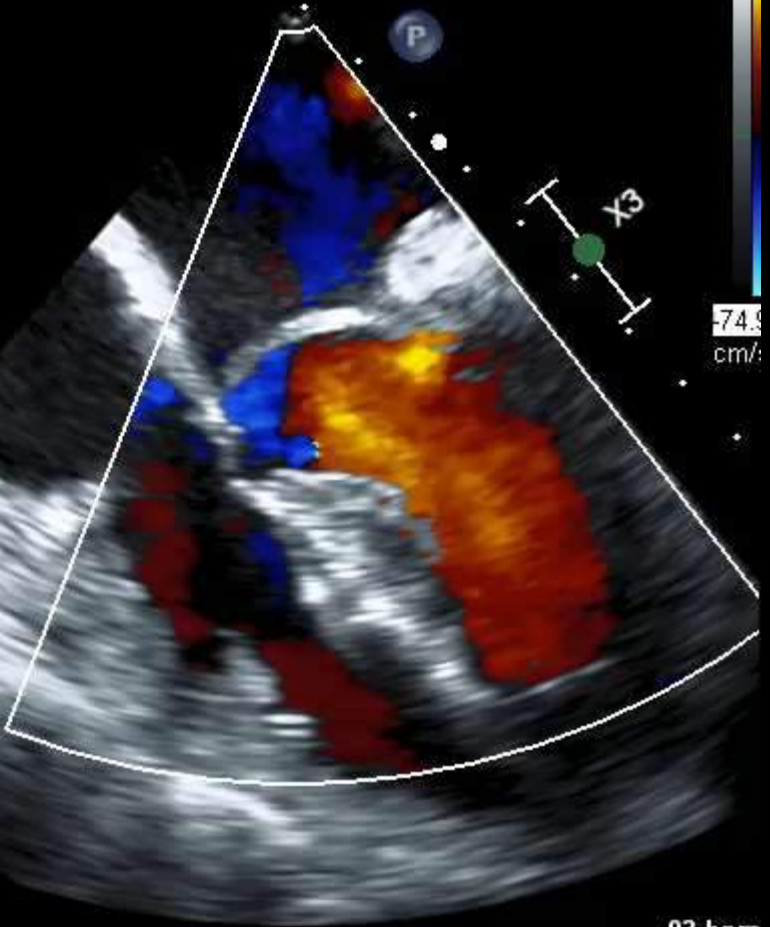
CF
47%
6485Hz
WF 583Hz
3.3MHz

0 0 180

PAT T: 42.0C
TEE T: 40.5C



M
+74.9
-74.9
cm/s



93 bpm



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180

