

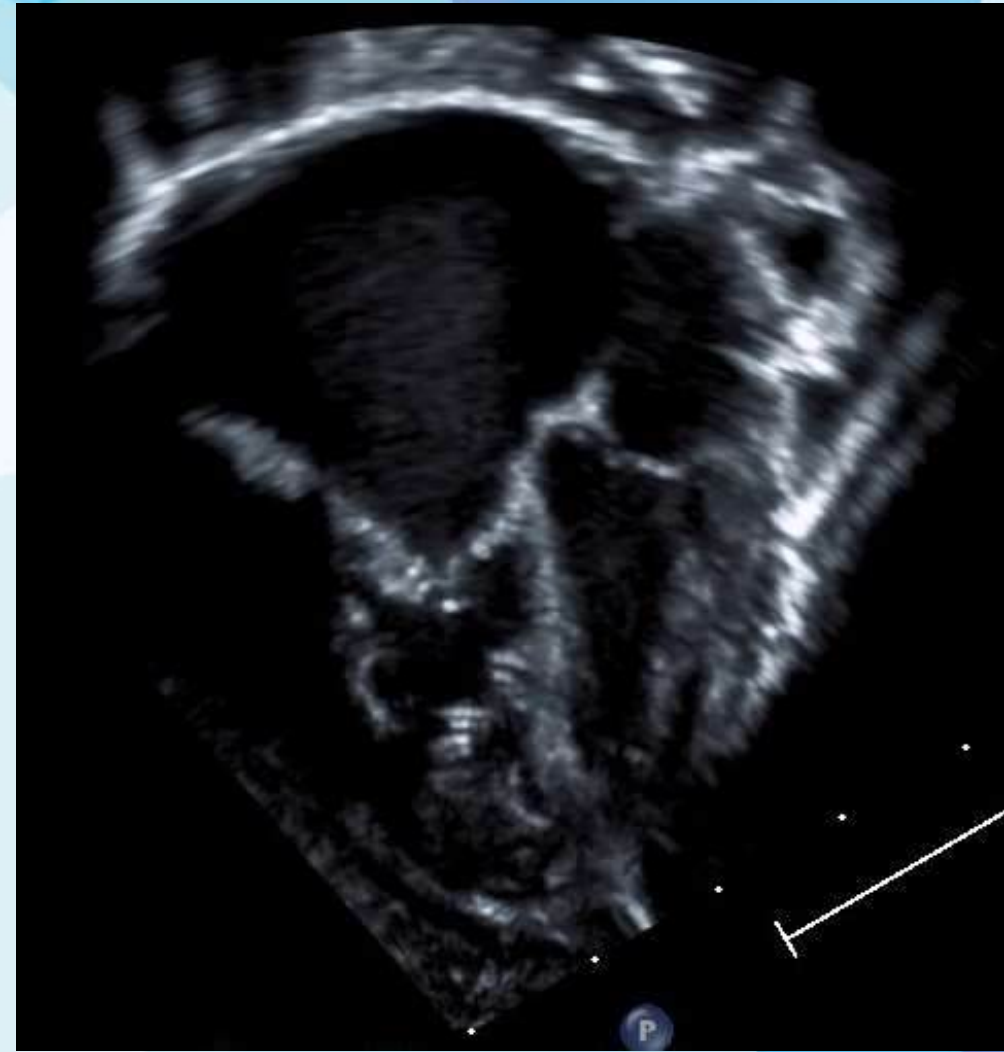
Patient Presentation: Ebstein's anomaly

CHOP Conference 2025

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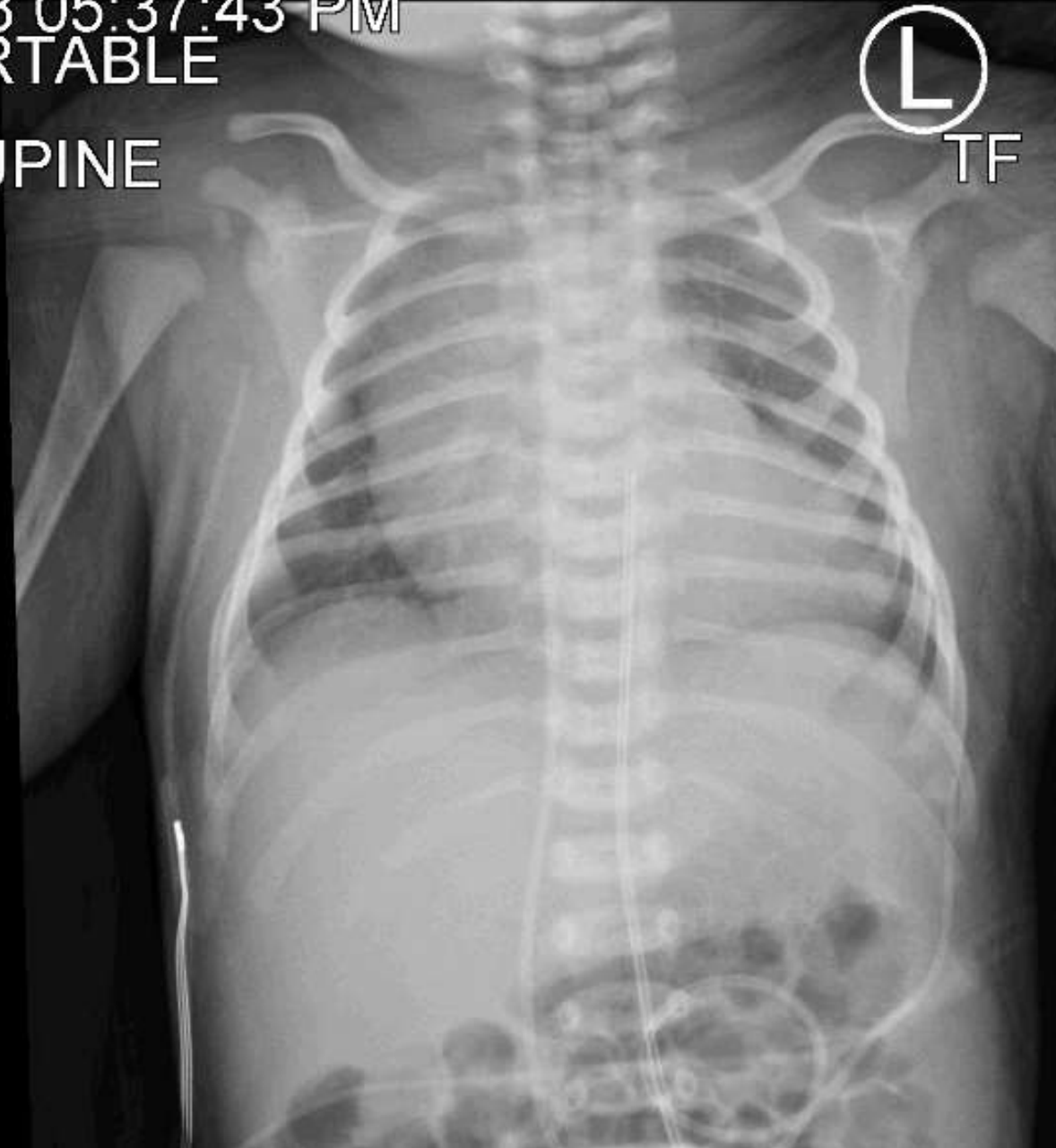
Case Presentation

- 1 day old born at 39w3d transferred from outside hospital
 - Elective c section
 - Heart rate found to be in 240s shortly after birth, consistent with SVT
 - Total of 7 doses of adenosine, esmolol drip at 200mcg/kg/min
 - Transferred to our institution
- Family history negative for cardiac disease
- Exam with normal rhythm at time of exam, normal S1, gallop vs widely split S2, II/VI systolic ejection murmur, peripheral pulses 2+

3:05:37:43 PM
PORTABLE

JPINE

L
TF



Vent. rate: 136 BPM
PR interval: 128 ms
QRS duration: 108 ms
QT/QTcB: 280 / 426 ms
P-R-T Axis: 44 / -15 / 72

NORMAL SINUS RHYTHM
WOLFF-PARKINSON-WHITE
ABNORMAL ECG



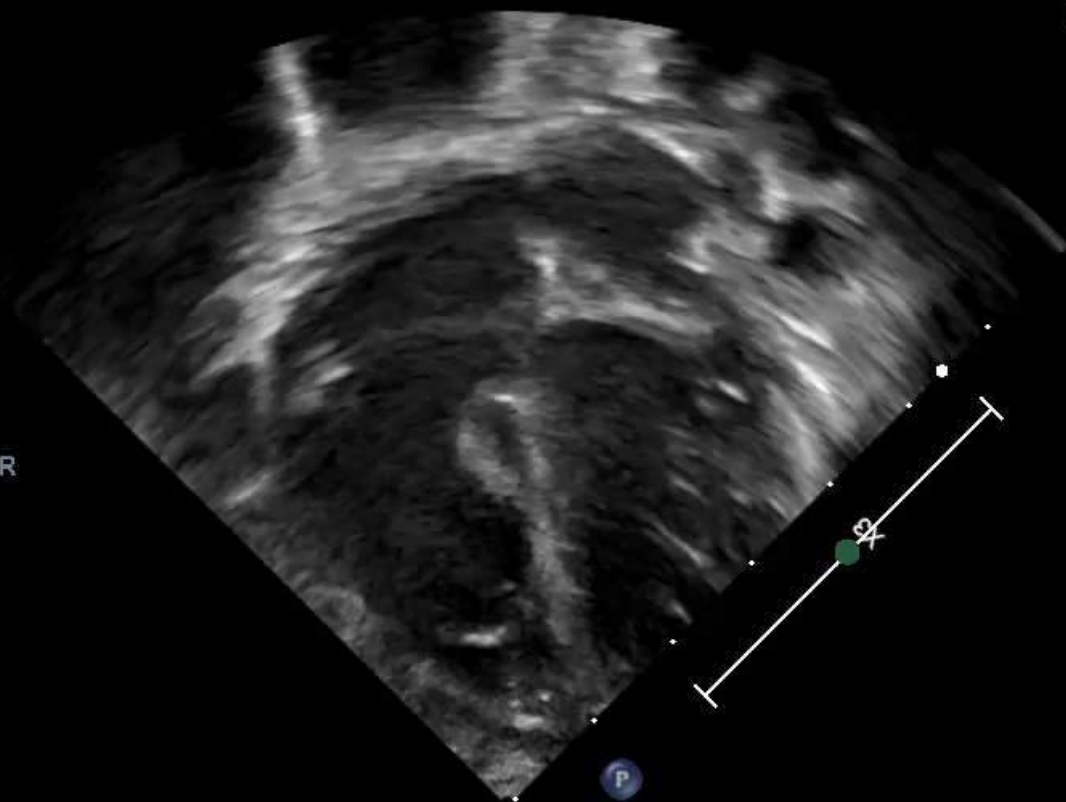
Vent. rate: 136 BPM
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P-R-T Axis: 44 /-15 /72

NORMAL SINUS RHYTHM
WOLFF-PARKINSON-WHITE
ABNORMAL ECG



Pediatric
S8-3
87Hz
7.0cm

2D
59%
C 50
P Off
Gen



TIS1.4 MI 0.6

M4

Pediatric
S8-3
27Hz
7.0cm

2D
59%
C 50
P Off
Gen

CF
40%
6600Hz
WF 659Hz
3.3MHz



141 bp

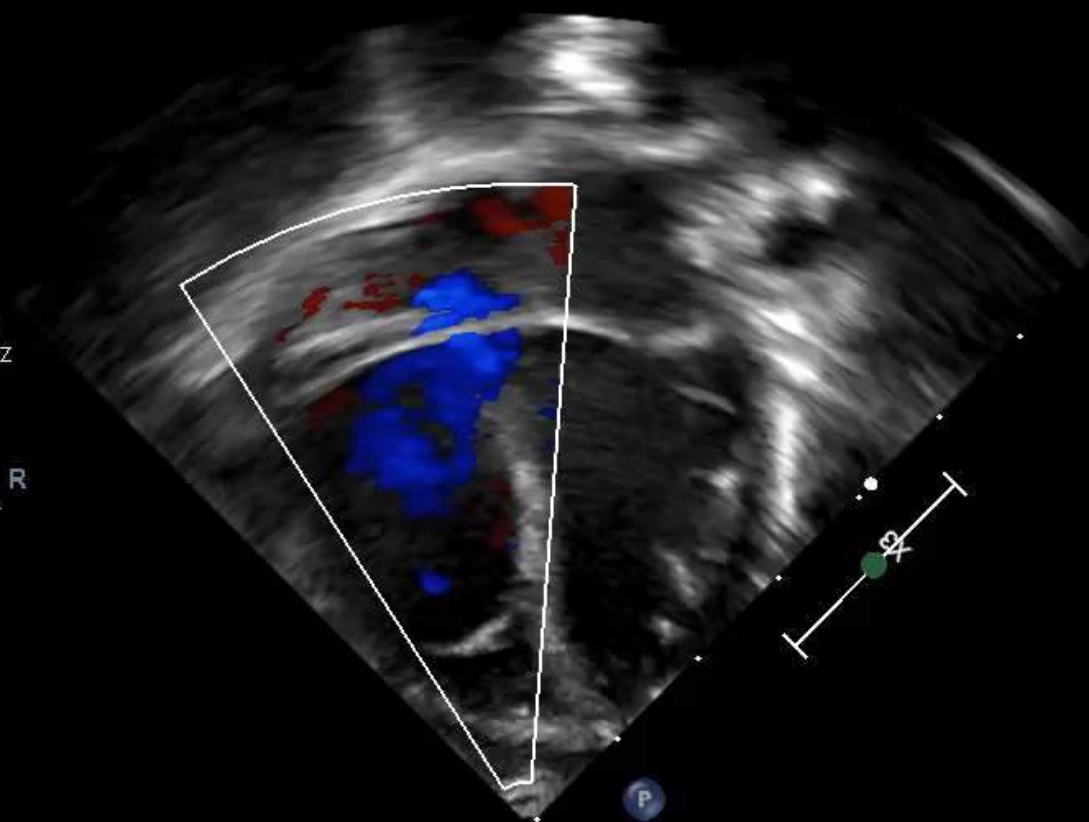
TIS1.4 MI 1.0

M4 M4

+77.0

-77.0

cm/s



140 bpm

PHILIPS

TIS0.8 MI 1.2

S8-3/CHOP1

PHILIPS

TIS1.2 MI 1.2

S8-3/CHOP1

FR 61Hz
7.0cm

2D
71%
C 49
P Off
HGen

M4

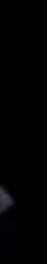


FR 23Hz
7.0cm

2D
73%
C 49
P Off
HGen

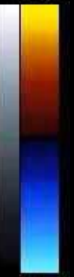
CF
75%
3.0MHz
WF Max
Med

M4



M4 M4

+92.4



-92.4

cm/s

P R
2.6 5.2

P R
2.6 5.2

JPEG

131 bpm

JPEG

134 bpm

Case Presentation

- At 3 years of age underwent Cone procedure and partial ASD closure and WPW ablation (right posterior accessory pathway ablation)
 - Uneventful post operative course, transferred out of ICU on POD2
- Currently with no cardiac medications, asymptomatic with follow up every 6 months

CHOP S5

S5-1

85Hz

10cm

2D

71%

C 47

P Low

HGen



TIS0.5

MI 1.3

M3



CHOP S5

S5-1

36Hz

12cm

2D

78%

C 47

P Low

HGen

CF

40%

6112Hz

WF 611Hz

2.5MHz



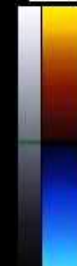
83 bpl

TIS1.3

MI 1.2

M3 M4

+94.



-94.

cm/s

78 bpm

CHOP S5

S5-1
65Hz
10cm

2D
70%
C 47
P Low
HGen



TIS0.5 MI 1.3

M3

CHOP S5

S5-1
28Hz
10cm

2D
73%
C 47
P Low
HGen

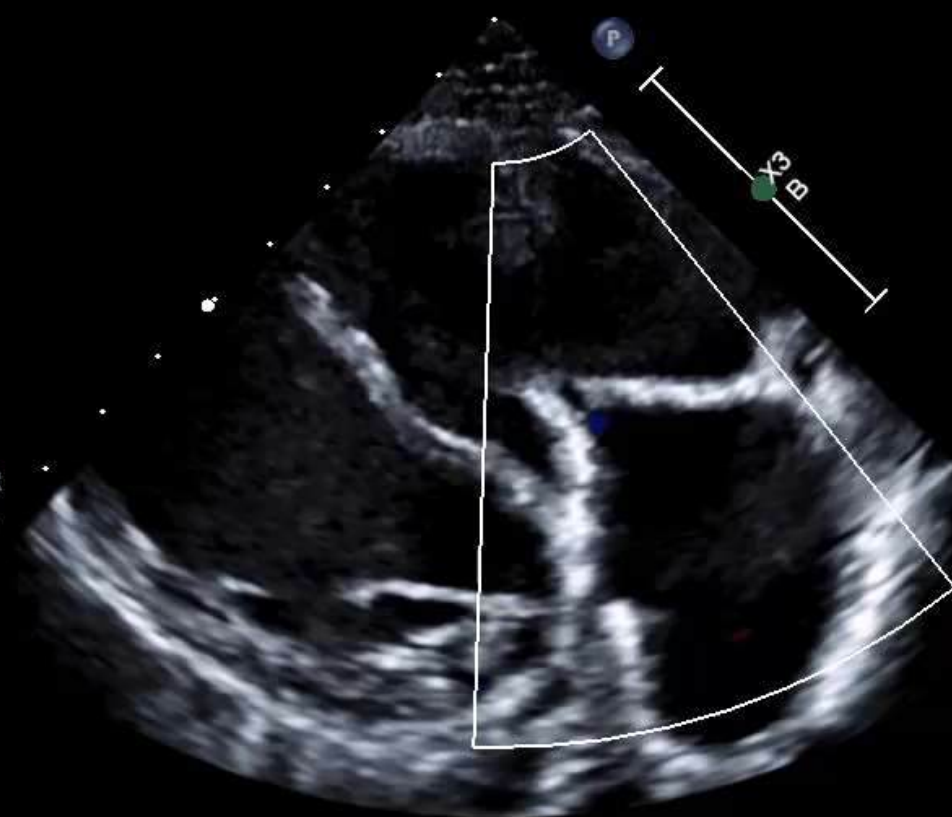
CF
40%
6931Hz
WF 693Hz
2.5MHz



70 bpm

TIS1.4 MI 1.3

M3



82 bpm

In Summary

- Postnatal presentation of severe Ebstein's anomaly
- Associated neonatal arrhythmia s/p successful ablation
- Underwent surgical repair with excellent results
 - No clinically significant tricuspid regurgitation or stenosis
 - Dyskinetic ventricular septum
- Now clinically thriving following surgical repair

The Children's Hospital of Philadelphia

Questions?

PHILIPS

TIS0.9 MI 1.3

S8-3/CHOP1

FR 61Hz
7.0cm

2D
64%
C 49
P Off
HGen

M4



PHILIPS

TIS1.2 MI 1.2

S8-3/CHOP1

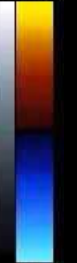
FR 21Hz
7.0cm

2D
68%
C 49
P Off
HGen

CF
75%
3.0MHz
WF Max
Med

M4 M4

+92.4



-92.4
cm/s

P R
2.6 5.2

P R
2.6 5.2

JPEG

119 bpm

JPEG

125 bpm