

RVOT PERFORATION

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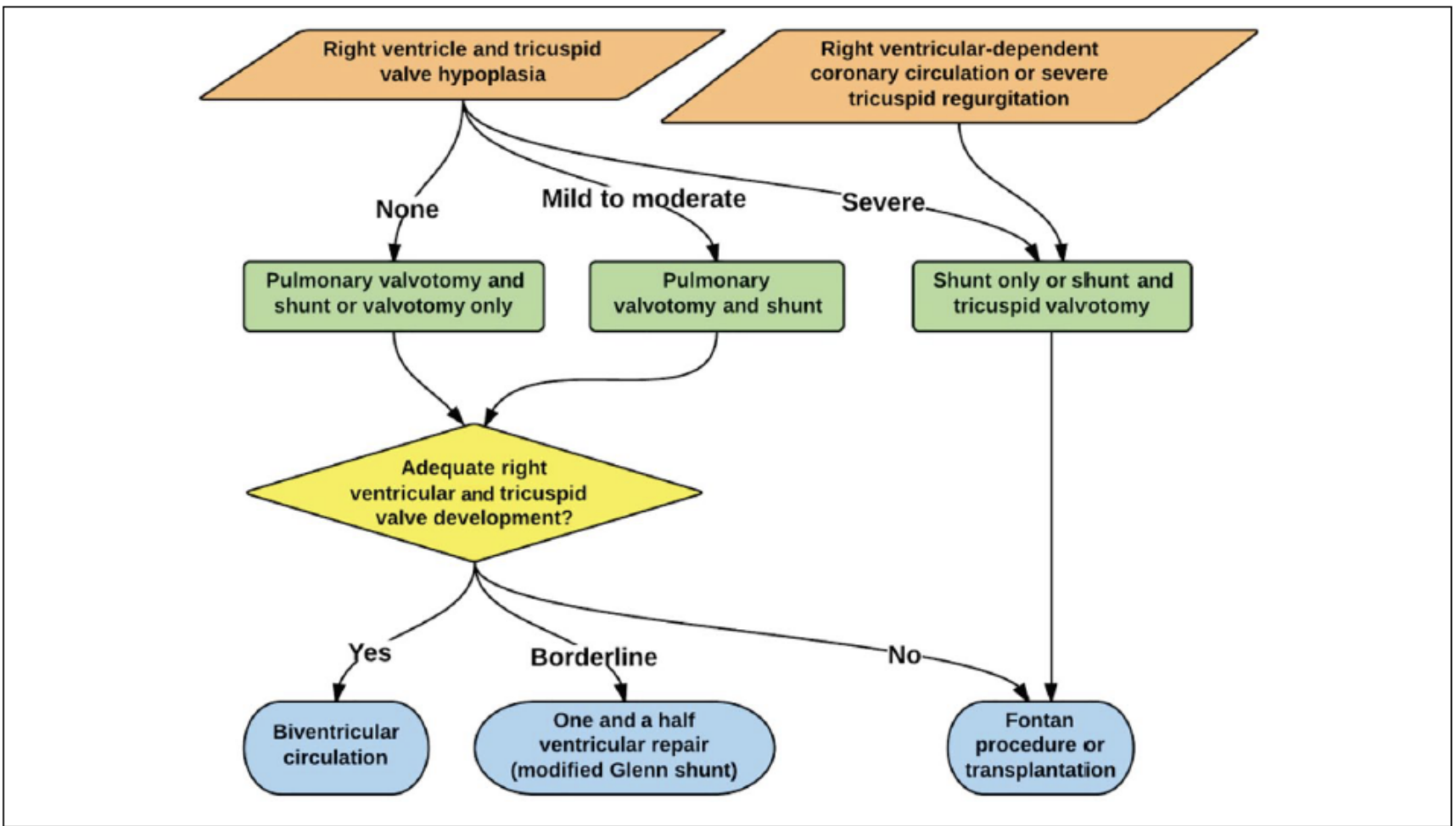


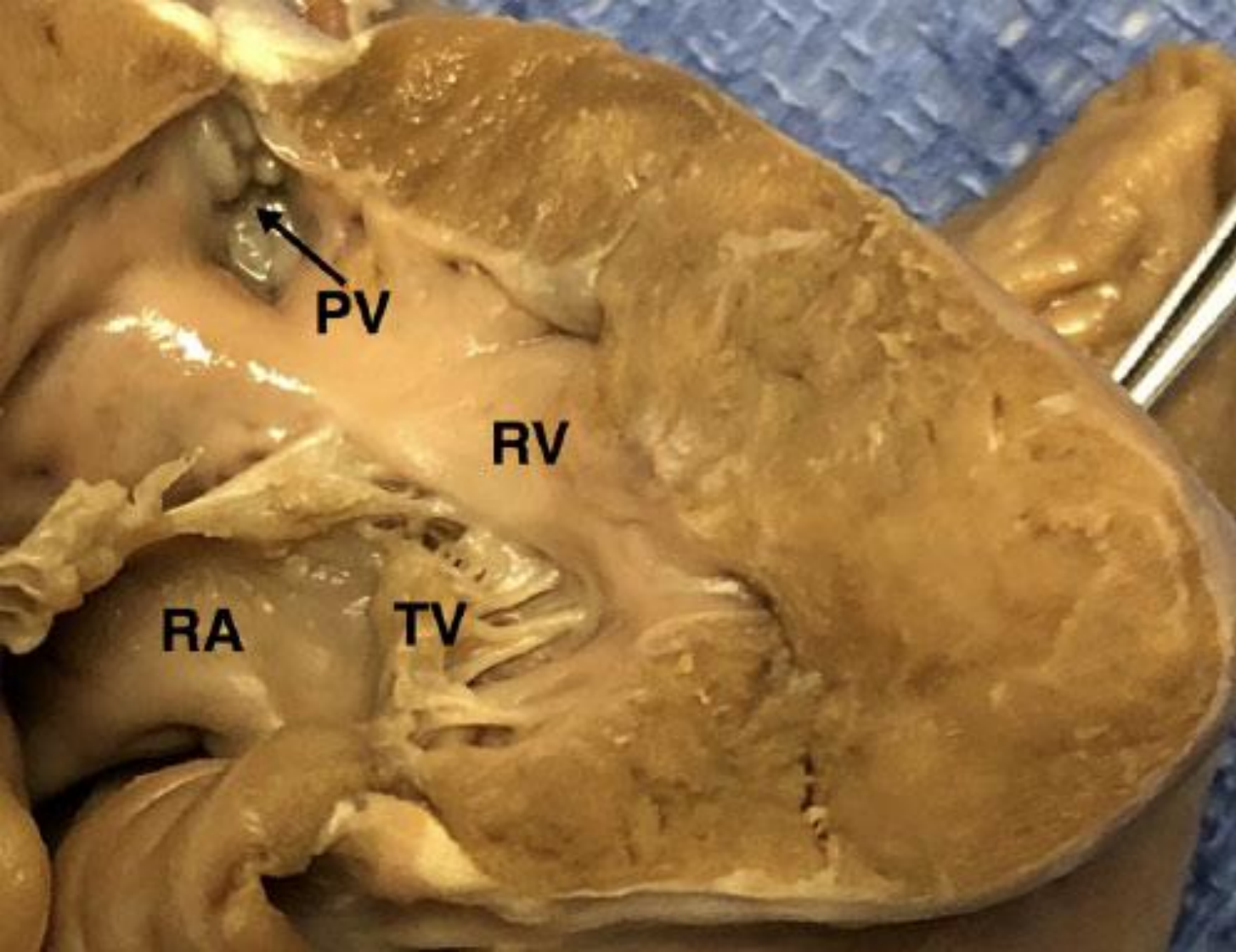
Figure 3. Treatment pathway flowchart denoting single-ventricle, 1.5-ventricular, and biventricular repair for patients with pulmonary atresia with intact ventricular septum.

*Although this practice is controversial, some centers perform RV decompression even in cases of severe RV hypoplasia to relieve RV hypertension, and theoretically promote regression of fistulas. Data to support this approach are limited. Reproduced with permission of Schmitz ML, Ullah S, Dasgupta R, Thompson LL. Anesthesia for right-sided obstructive lesions. In: Andropoulos DB, ed. *Anesthesia for Congenital Heart Disease*. 3rd ed. Hoboken, NJ: John Wiley; 2015.

RV dependent coronary circulation



Anatomy

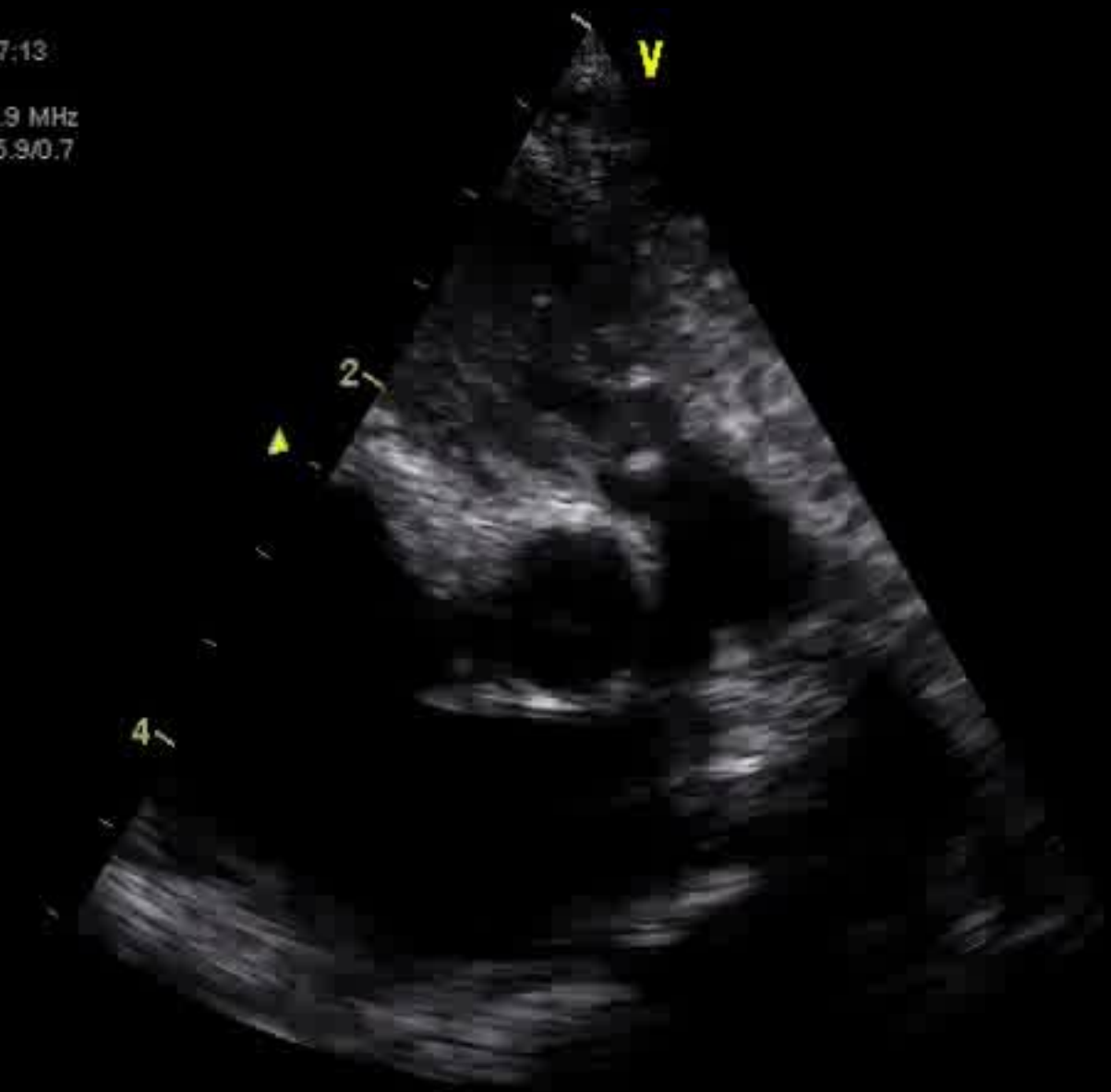


Echocardiogram pre procedure

12/09/2007 12:59:41
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Power: 0.0 dB
FPS: 71.2
Depth: 8.0 cm

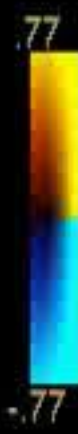


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FPS: 83.1
Depth: 5.0 cm

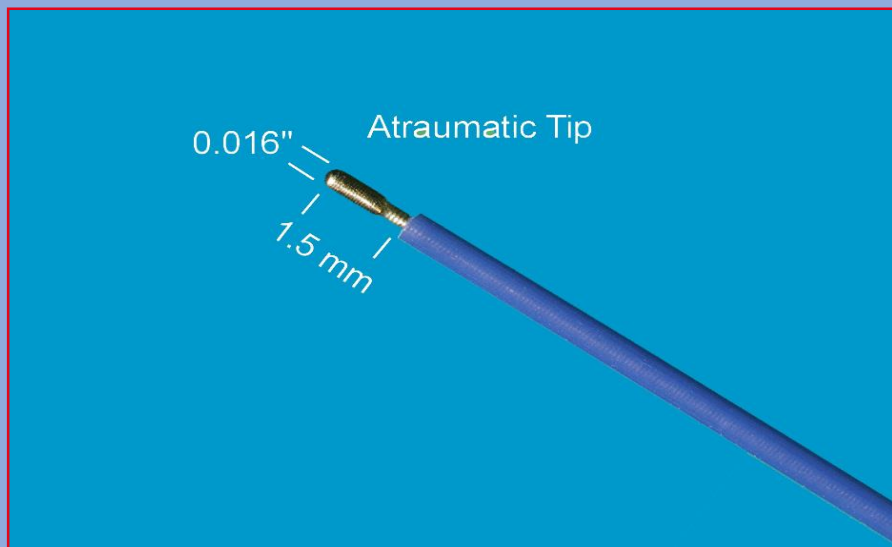
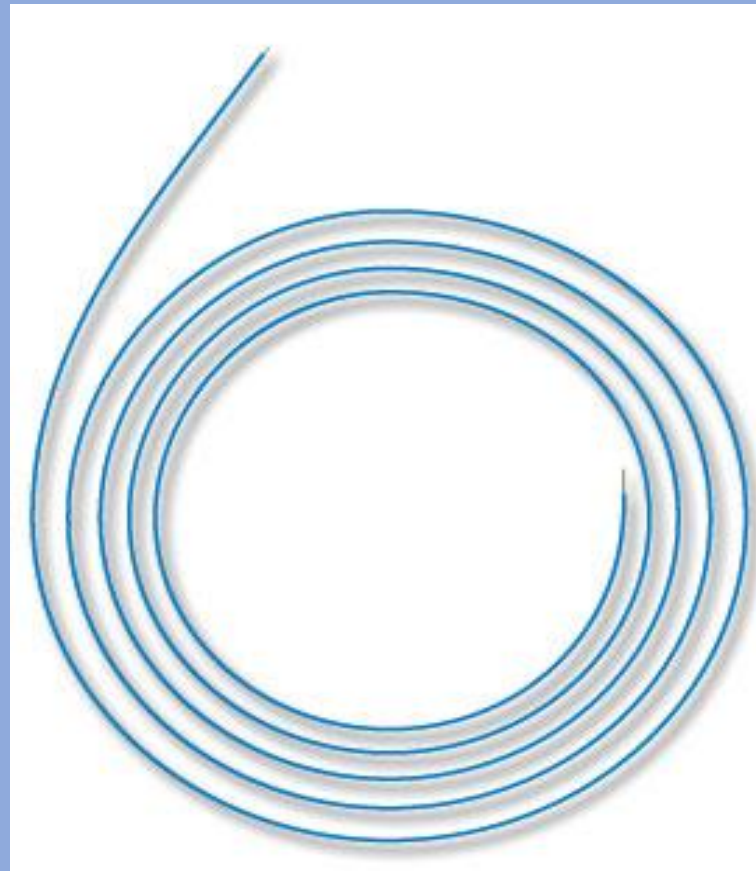


54:417

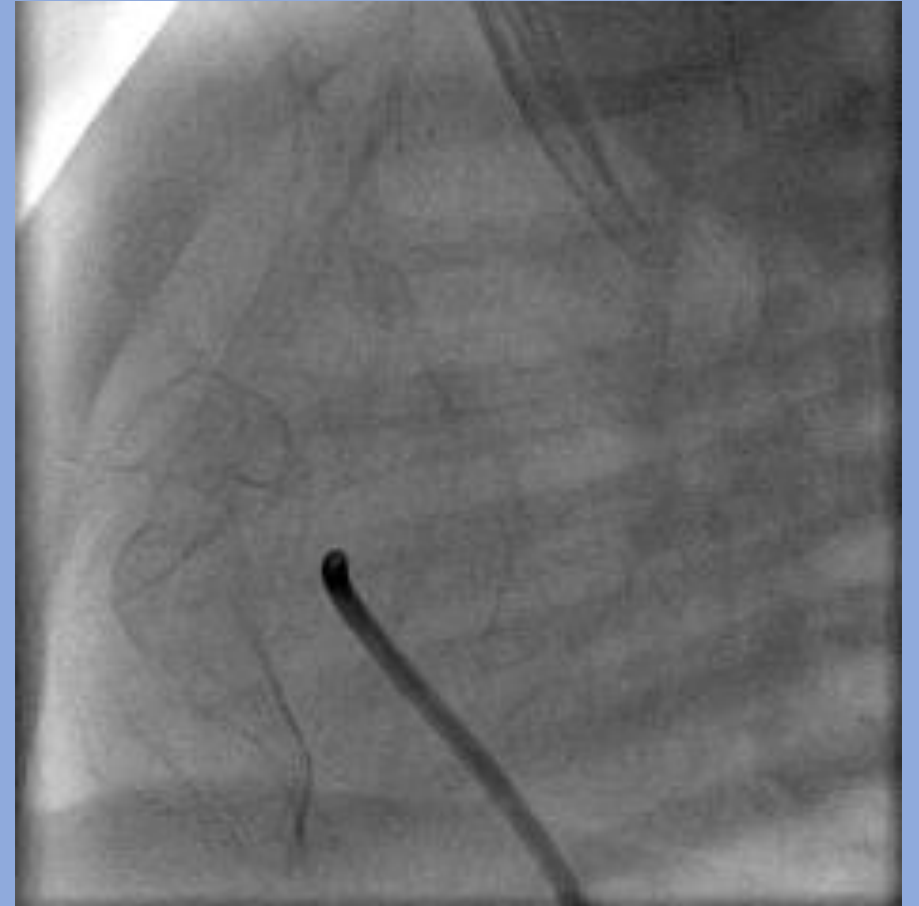
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Octave
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Power: 0.0 dB
FPS: 43.4/43.4
Depth: 5.0 cm
Gain: -7.0 dB
Scale: 9.52 kHz
Freq.: 4.3 MHz
SV: 0.5 mm
LVVej: 23.03 cm/s



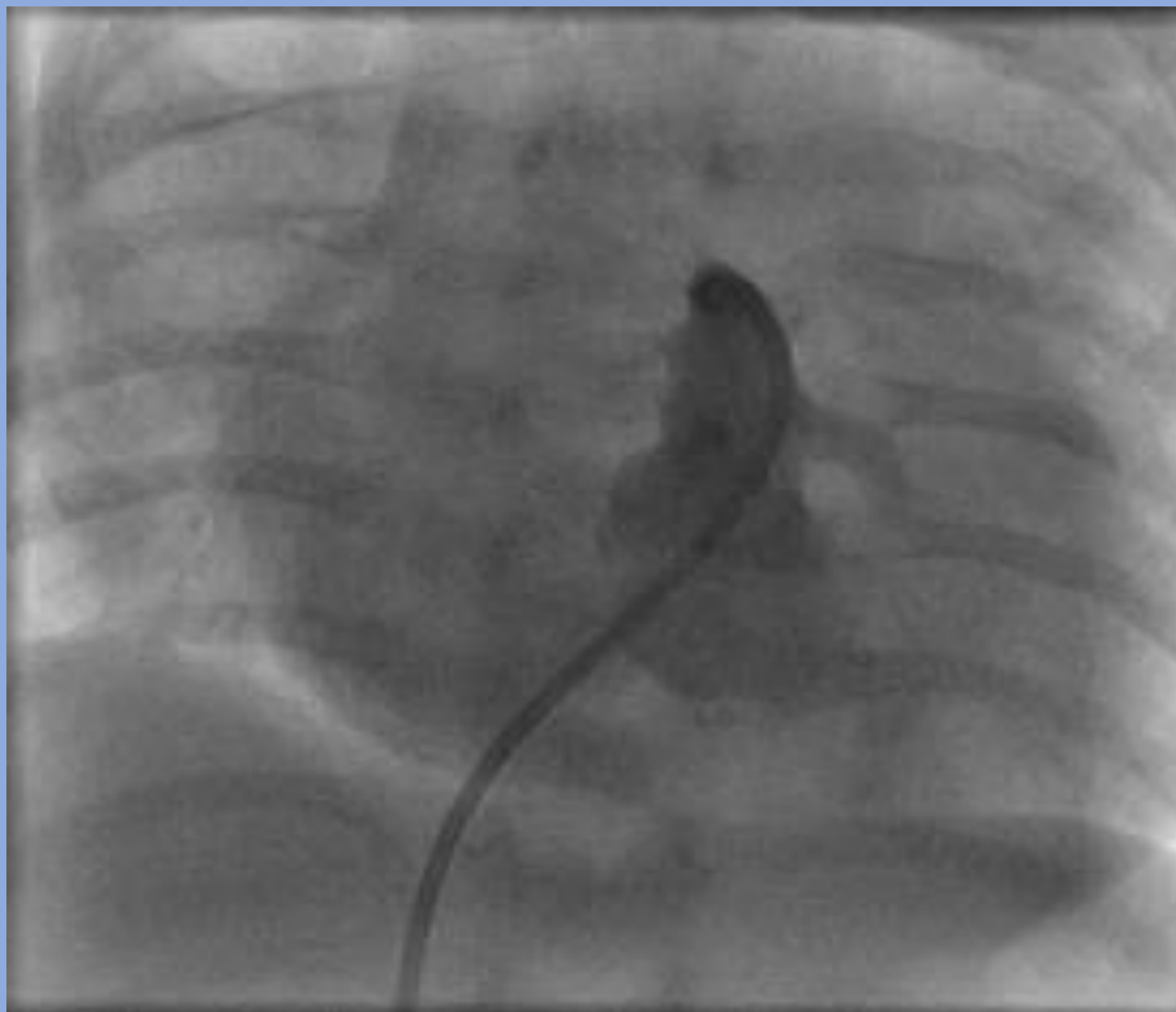
Baylis Radio Frequency Generator



RV ANGIOGRAPHY AP + LATERAL



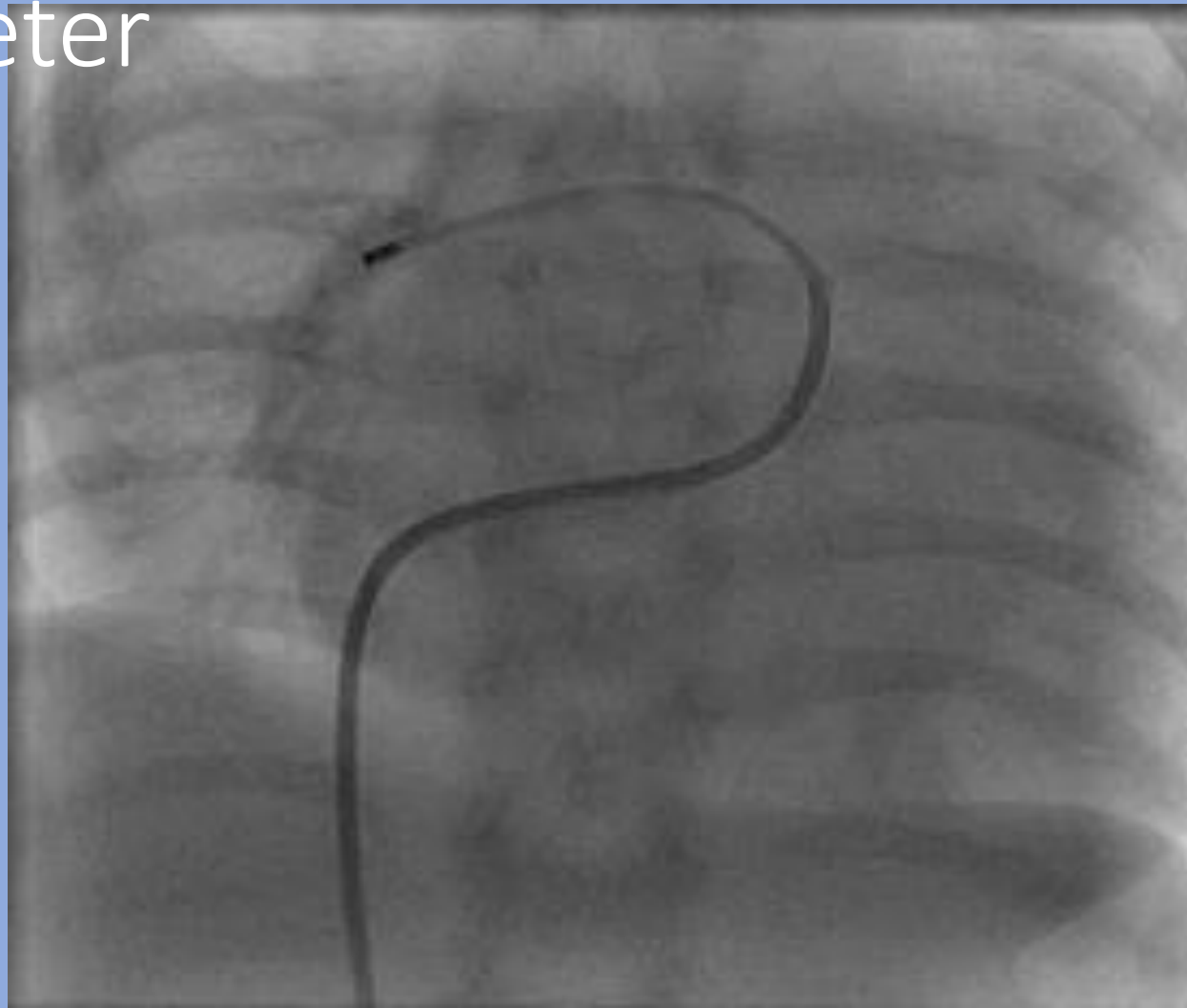
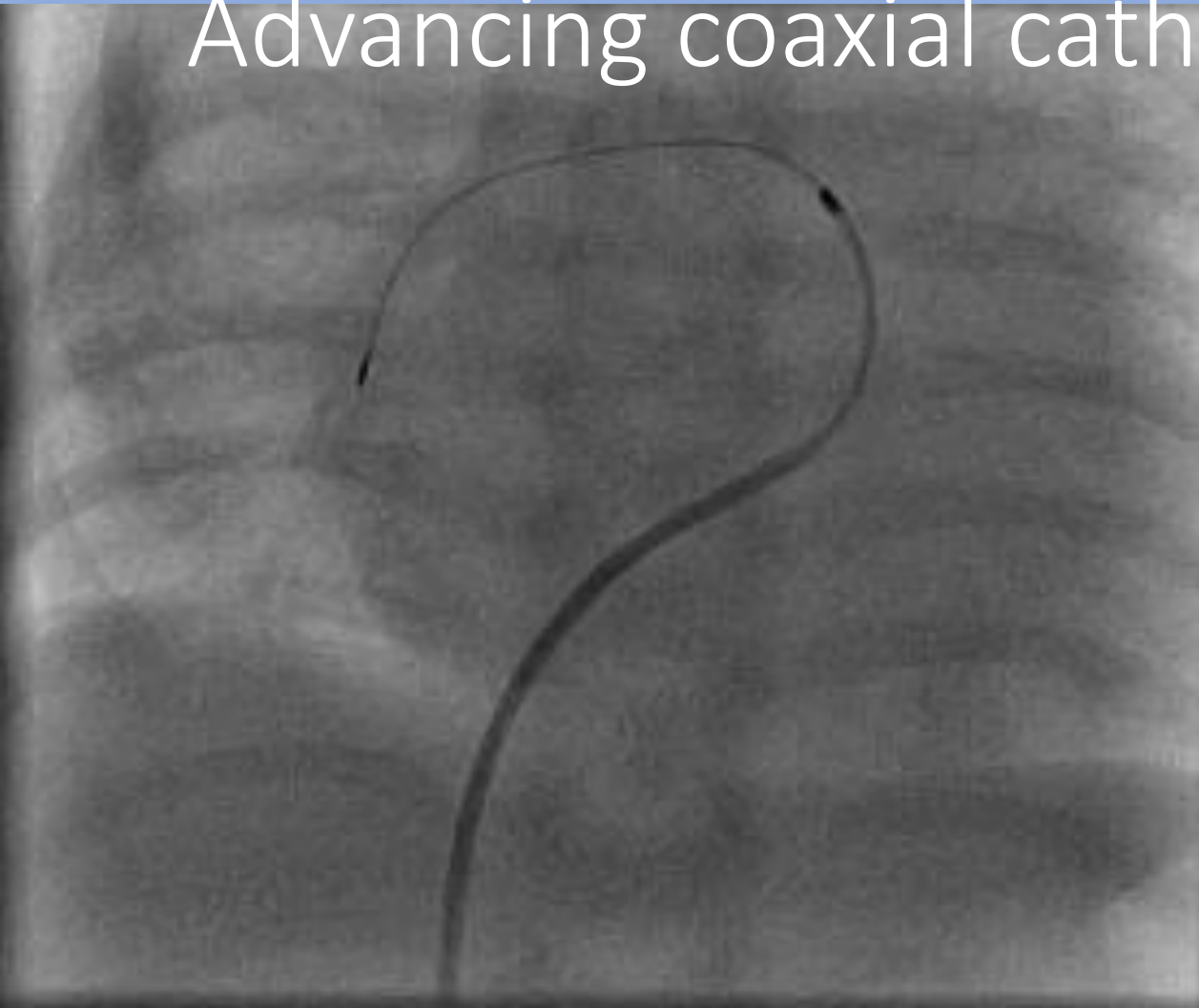
RVOT angiogram in AP and Lateral



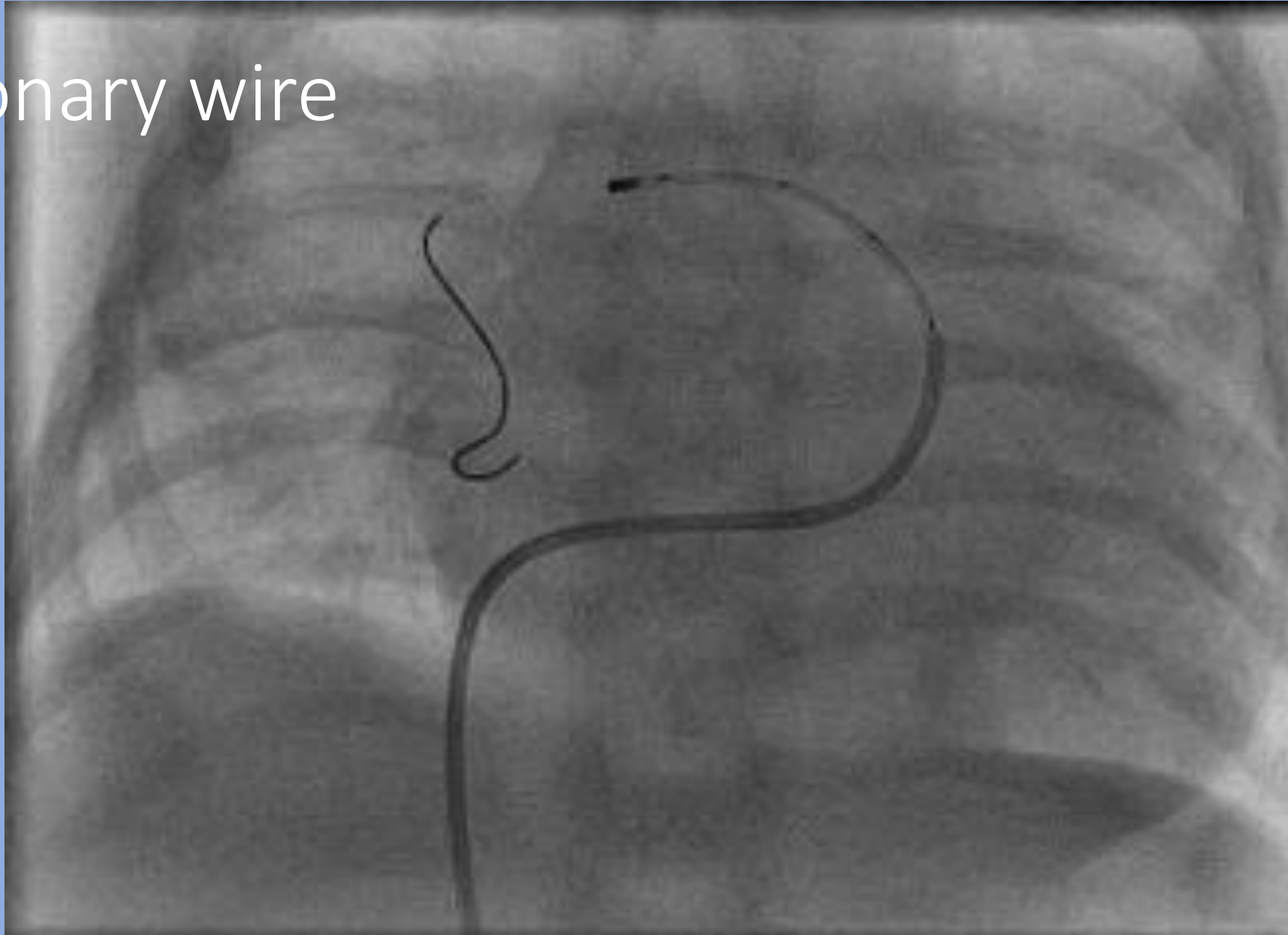
RF perforation



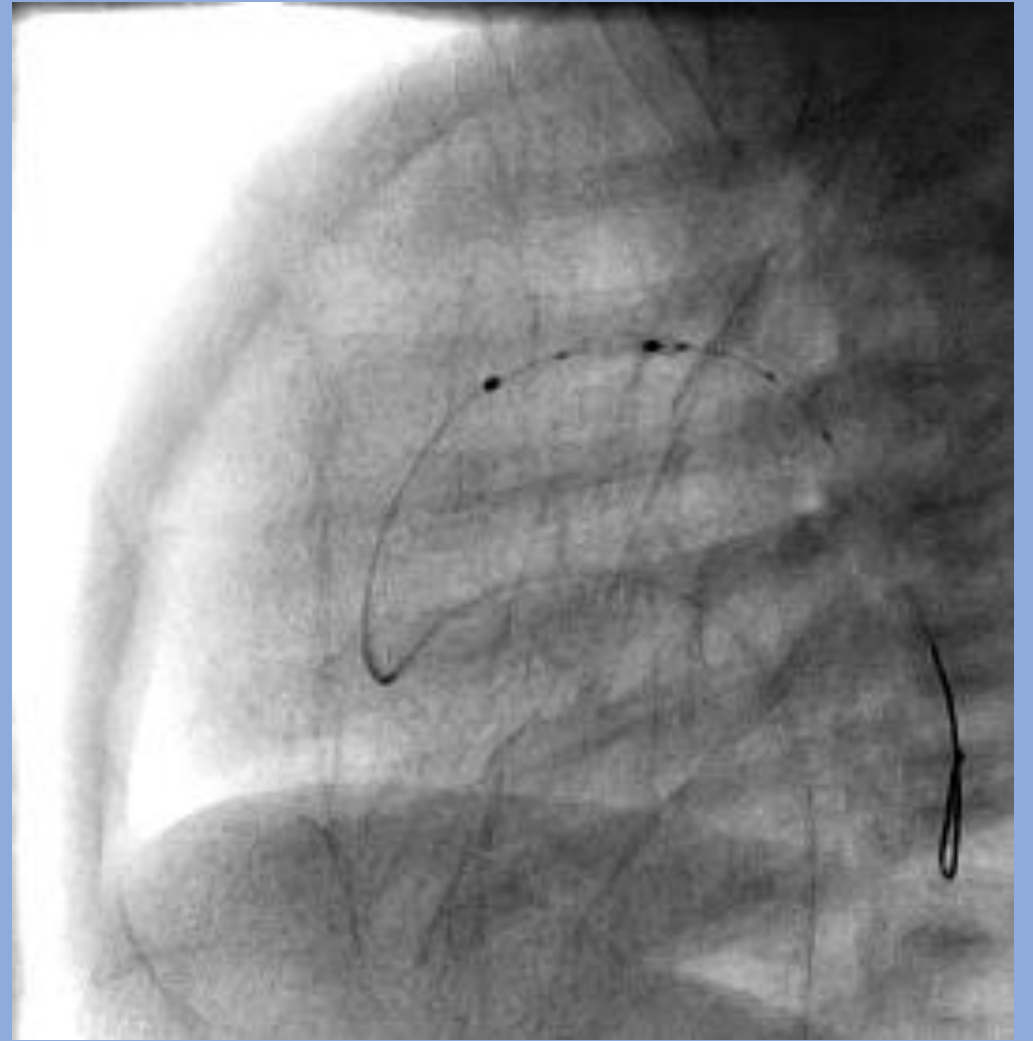
Advancing coaxial catheter



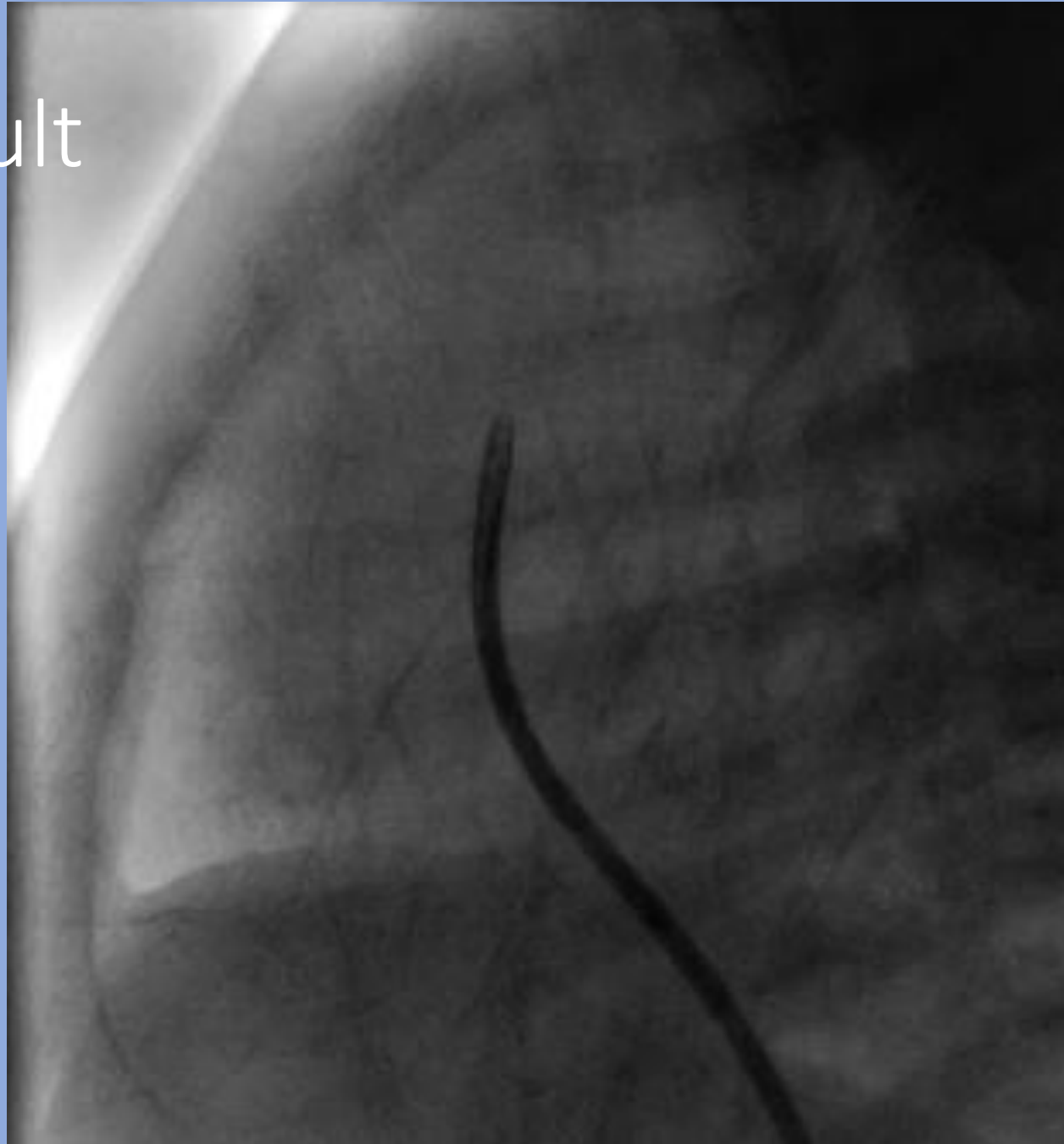
Coronary wire



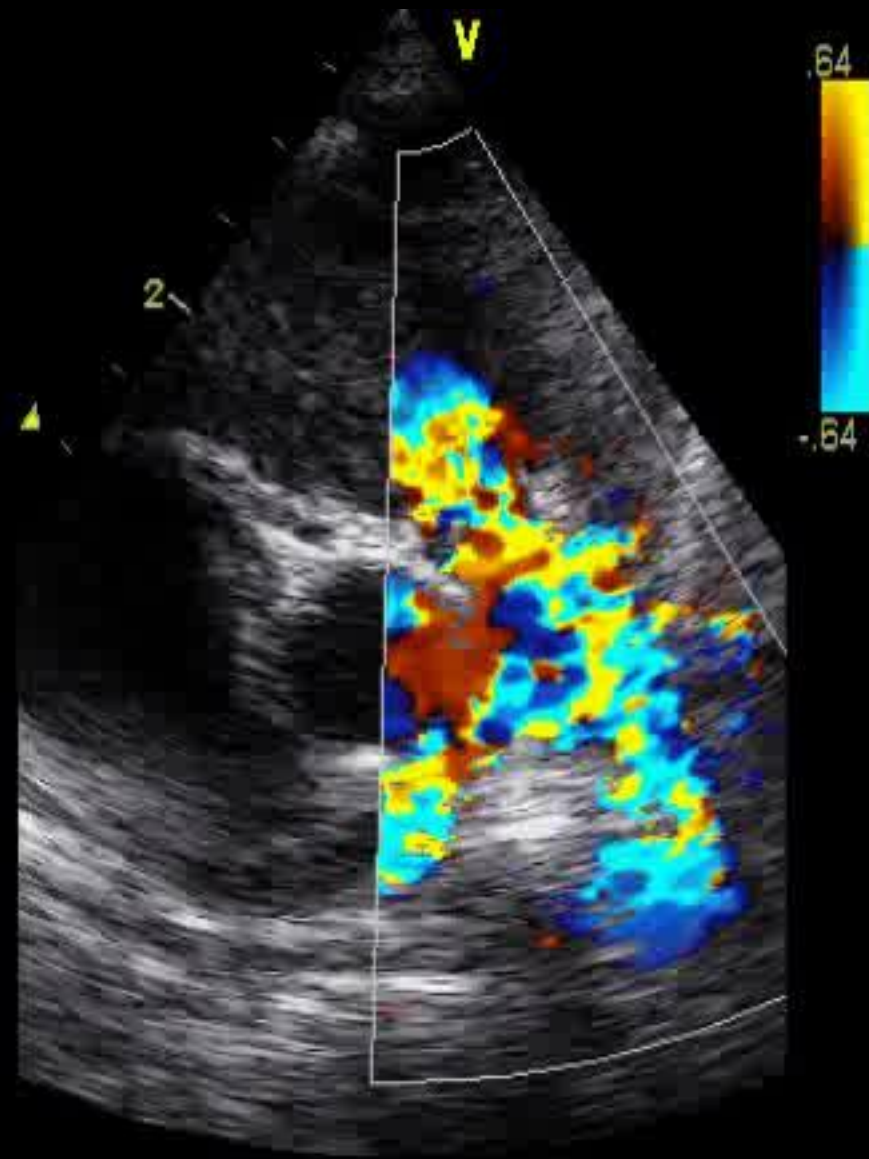
Balloon dilation



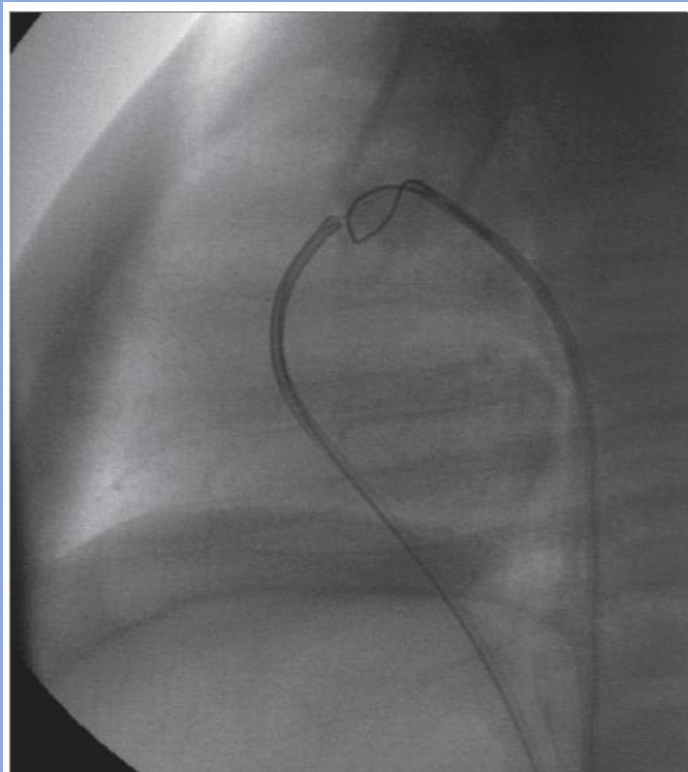
Final result



11/10/2007 11:15:04
Octave
Freq.: 3.5 MHz/6.9 MHz
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Power: 0.0 dB
FPS: 42.6/42.6
Depth: 6.0 cm
Gain: -7.0 dB
Scale: 8.00 kHz
Freq.: 4.8 MHz
RV: 0.5 mm
LVRej: 19.35 cm/s



Alternative

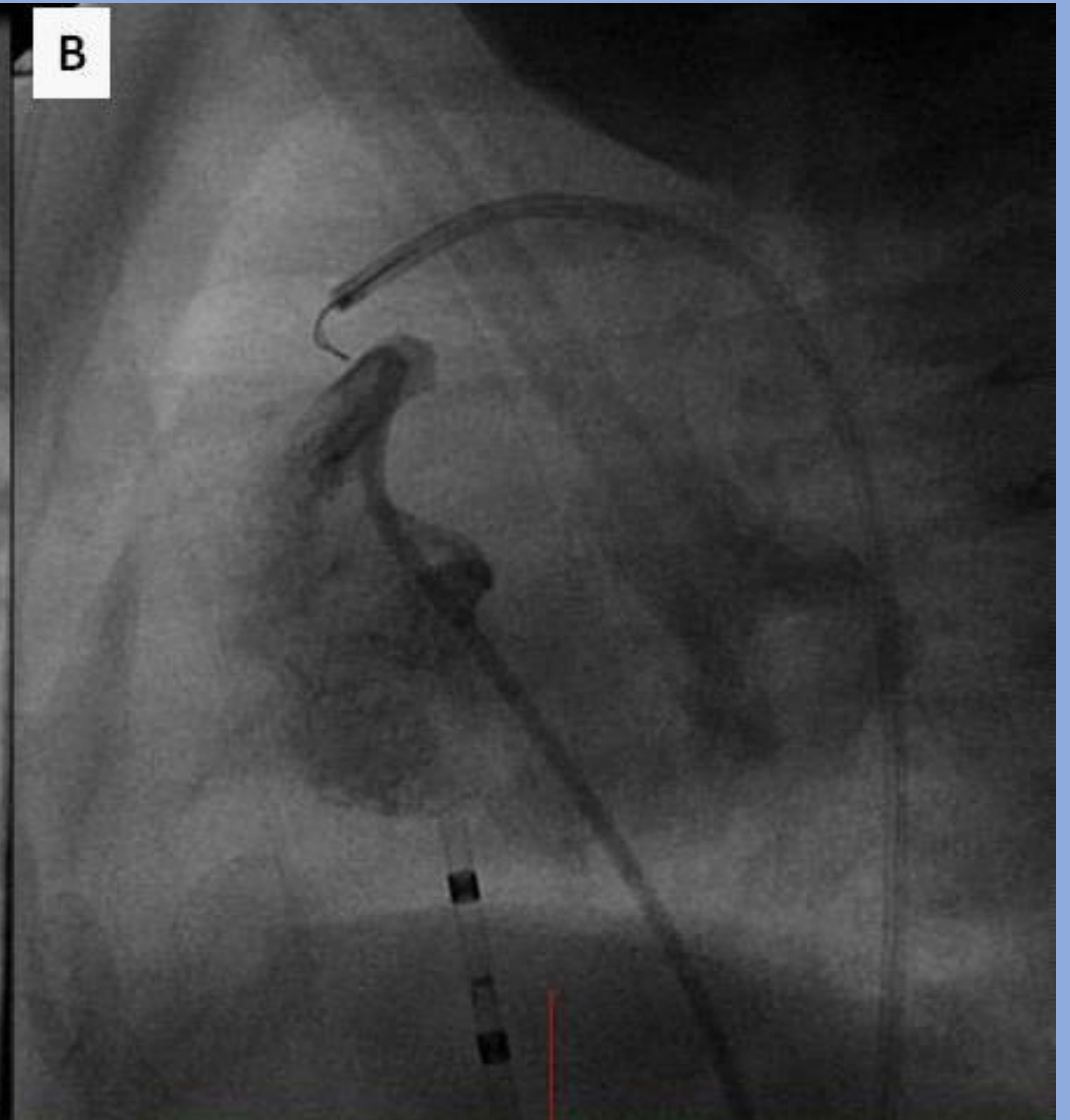
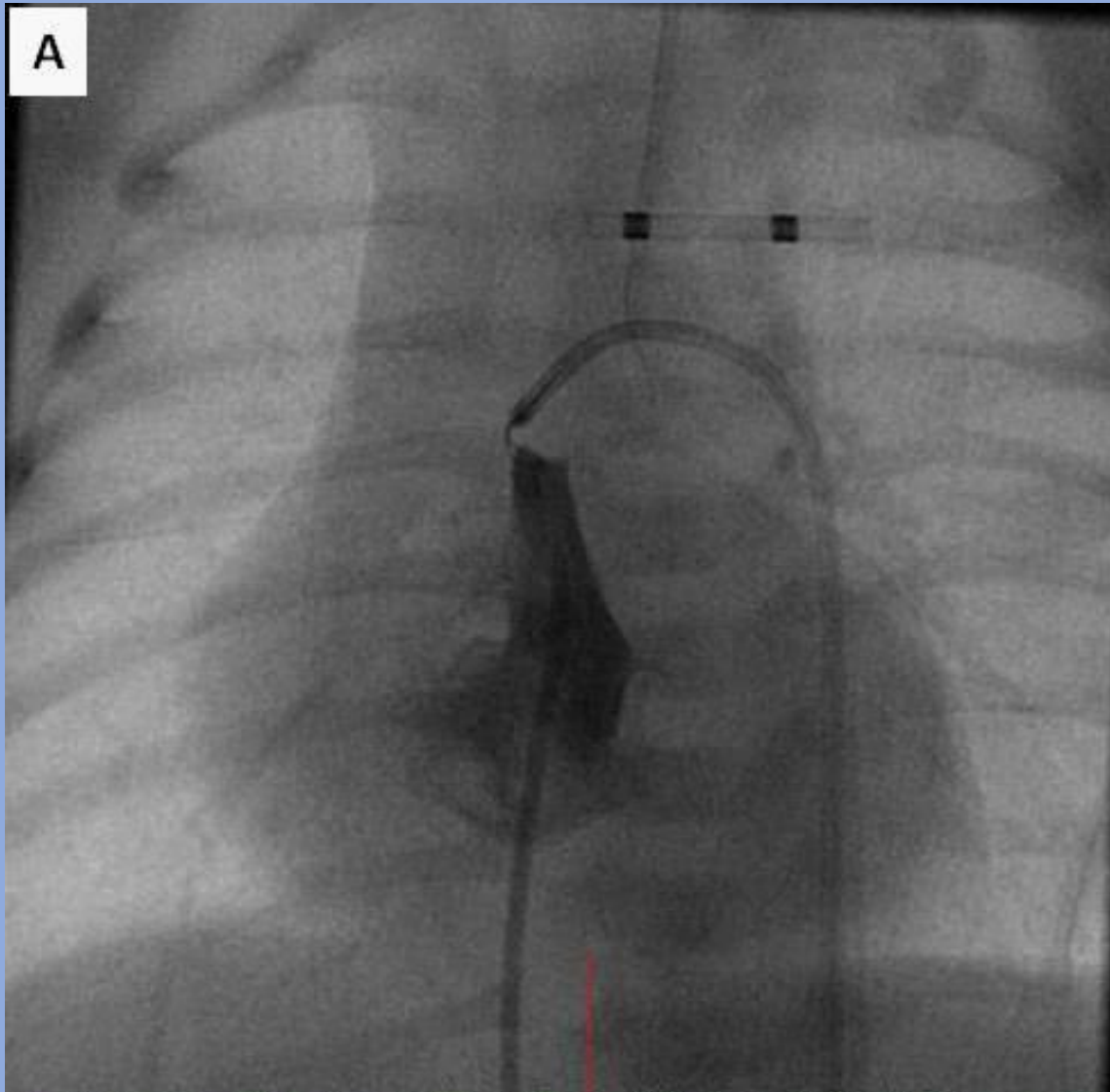


J Saudi Heart Assoc
2018;30:222-232

El Shedoudy et al

Table 1: Wire type, coating, tip load, and penetrating force

Wire	Manufacturer	Coating	Tip load	Penetration force kg/in²
Miracle 3	Abbott	Hydrophobic	3.0	20
Miracle 6	Abbott	Hydrophobic	6.0	39
Miracle 12	Abbott	Hydrophobic	12.0	78
CROSS-IT 100	Abbott	Hydrophilic	1.7	22
CROSS-IT 200	Abbott	Hydrophilic	4.7	60
CROSS-IT 300	Abbott	Hydrophilic	6.2	79
CROSS-IT 400	Abbott	Hydrophilic	8.7	110
Shinobi	Cordis	Hydrophilic	2.0	13
Shinobi plus	Cordis	Hydrophilic	4	26
Conquest	Asahi	Hydrophobic	9.0	142
Conquest Pro	Asahi	Hydrophilic	9.0	142
Conquest Pro12	Asahi	Hydrophilic	12.0	189



Burkholder and Balaguru, *Pediat Therapeut* 2012, S5

Thank you