

## Valve In Valve In A Complex Anatomy

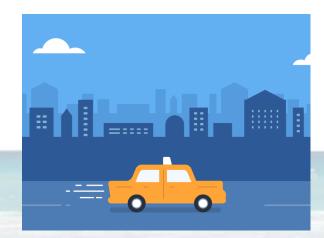
Walid Ibrahim.MD
Interventional Cardiology fellow
JMH/UMH

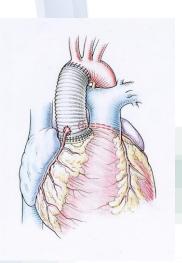


## UNIVERSITY OF MIAMI HEALTH SYSTEM INTERNATIONAL MEDICINE INSTITUTE

## Clinical history

- A 74-year-old Man from China, retired taxi diver.
- History of Bentall procedure for aortic insufficiency status, 2010.
- Presented with decompensated heart failure.
- PMH: HTN , CKD.











## Physical exam:

BP:170/60, pulse 73, temperature (36.9 °C), RR:22.

General exam: raised JVD.

CV:S1, S2, early diastolic murmur.

Chest: Decrease air entry bilaterally.

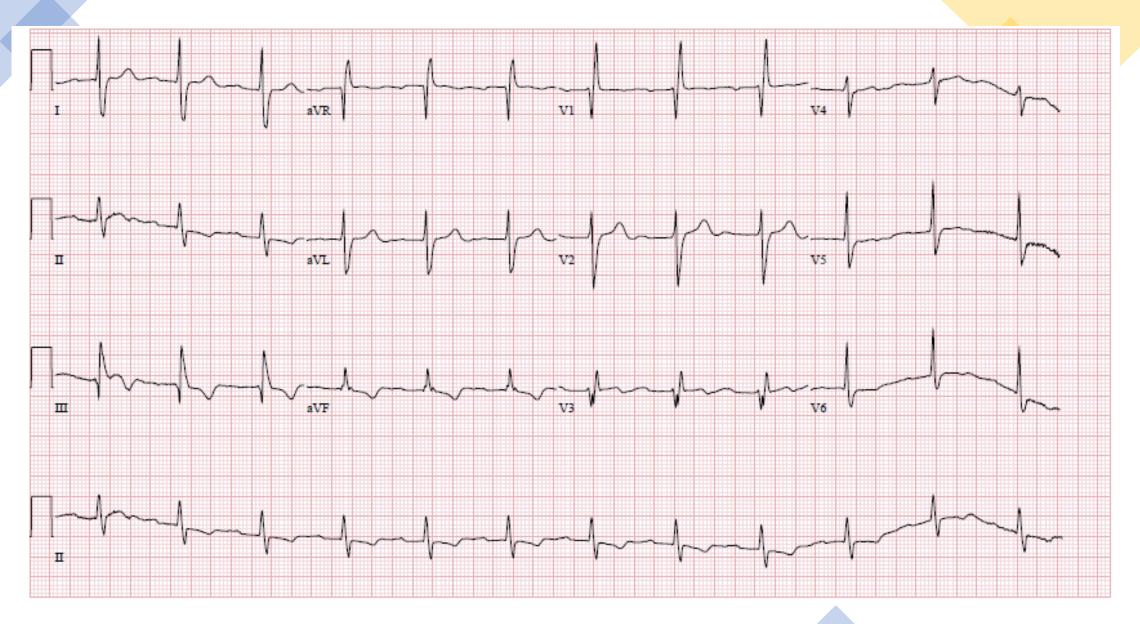
Extremities: edema +2.

Labs:

NT-ProBNP:7240.

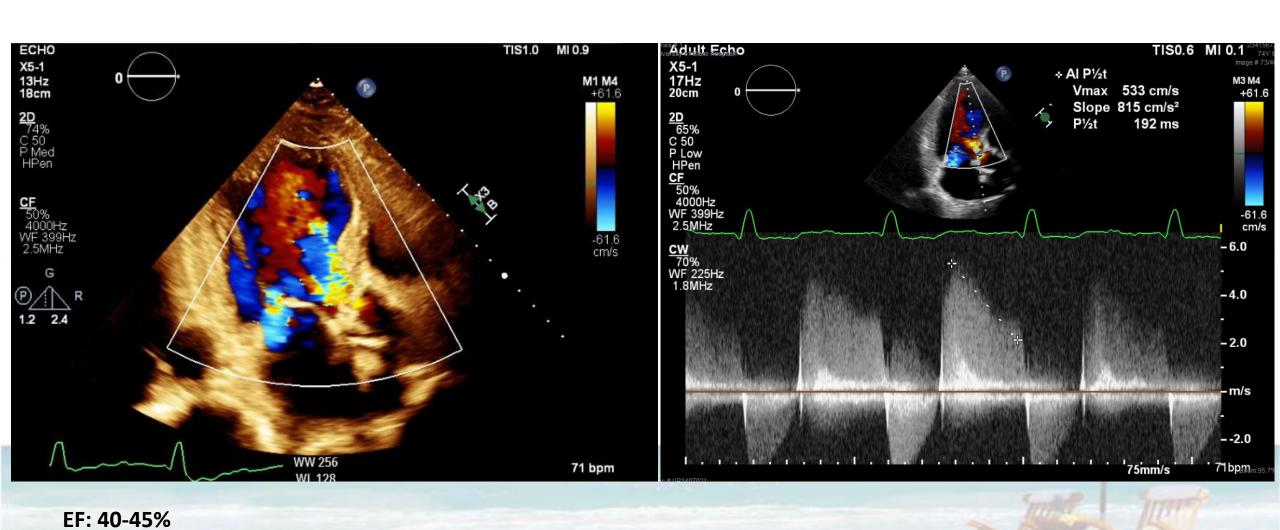
Cr:1.73





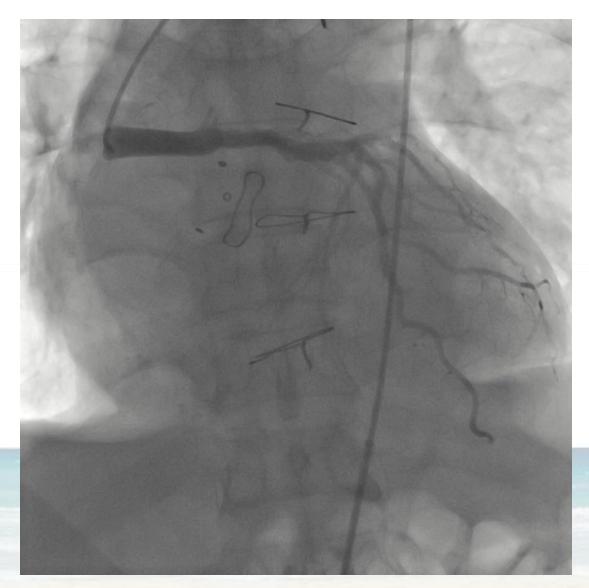


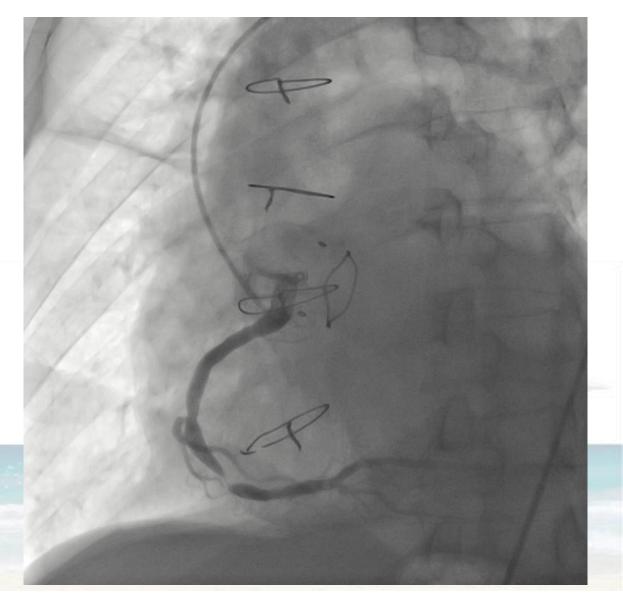






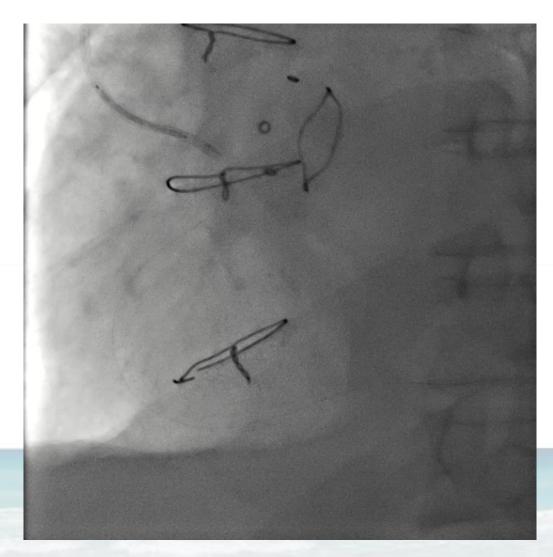


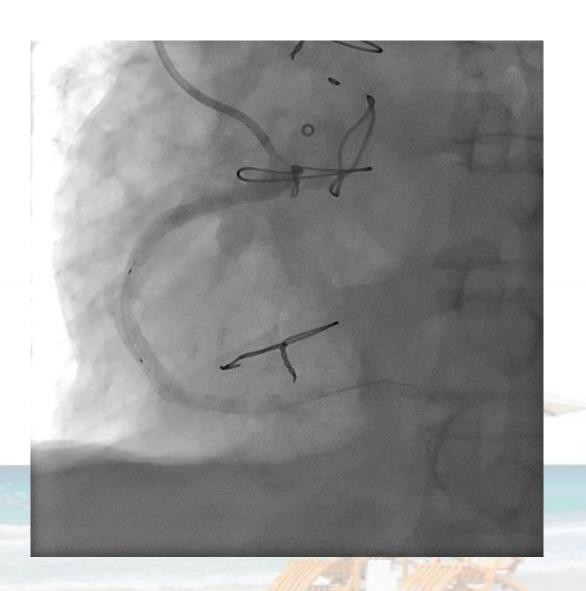




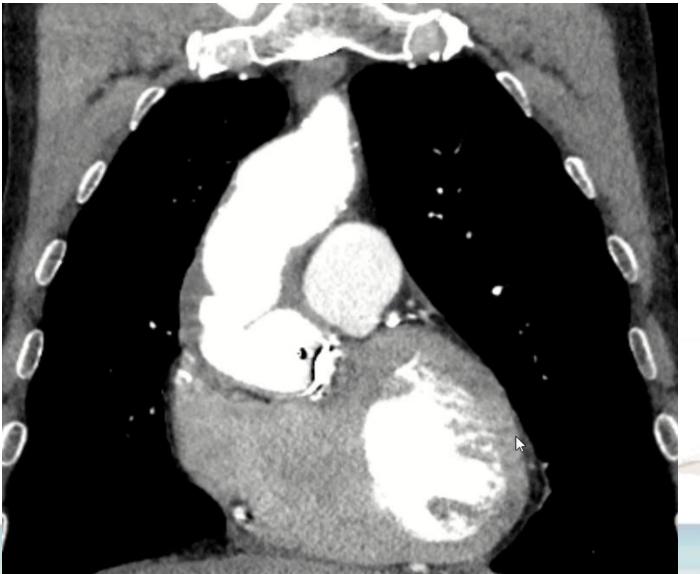






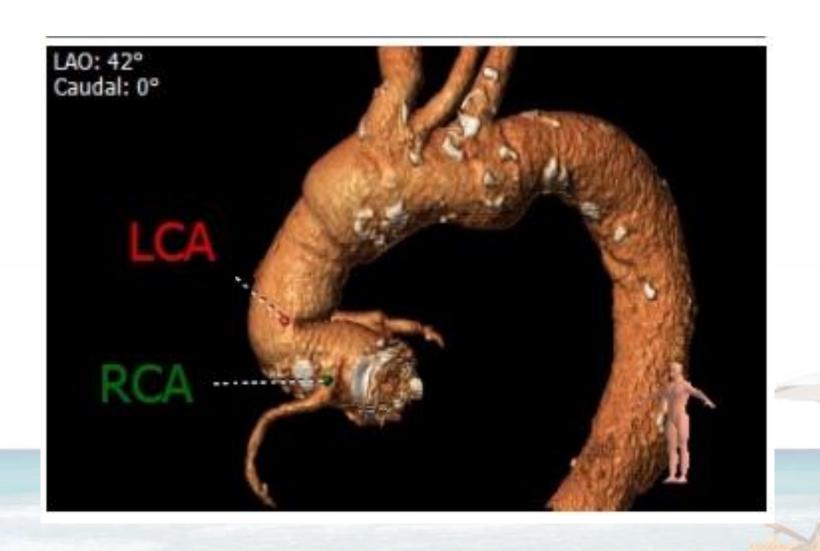




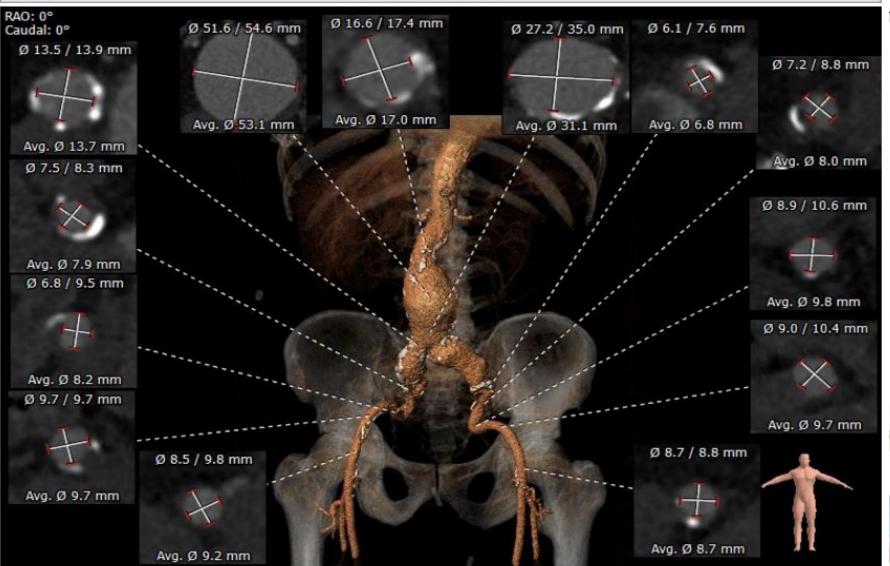








Dimmed background TERNATIONAL MEDICINE INSTITUTE











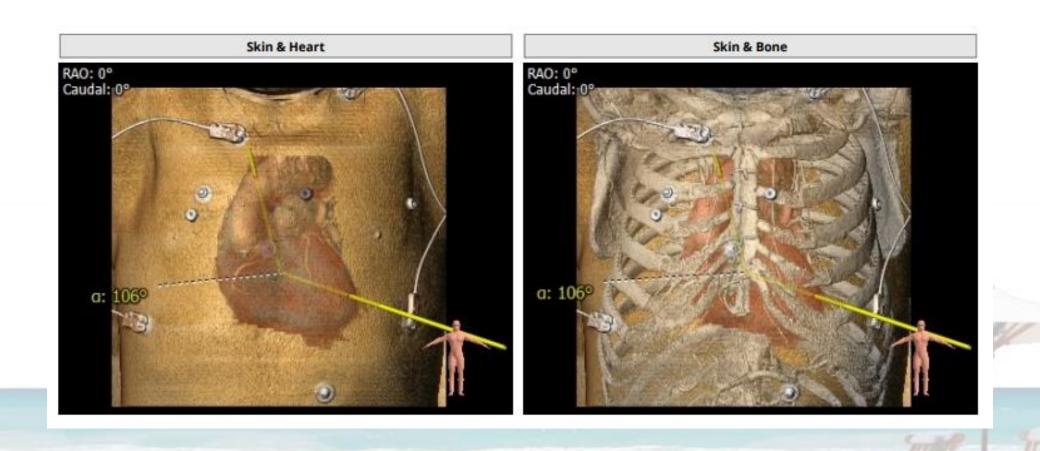
















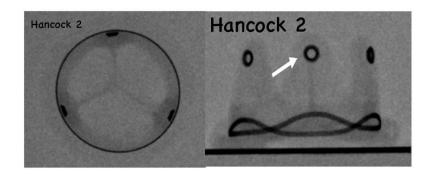




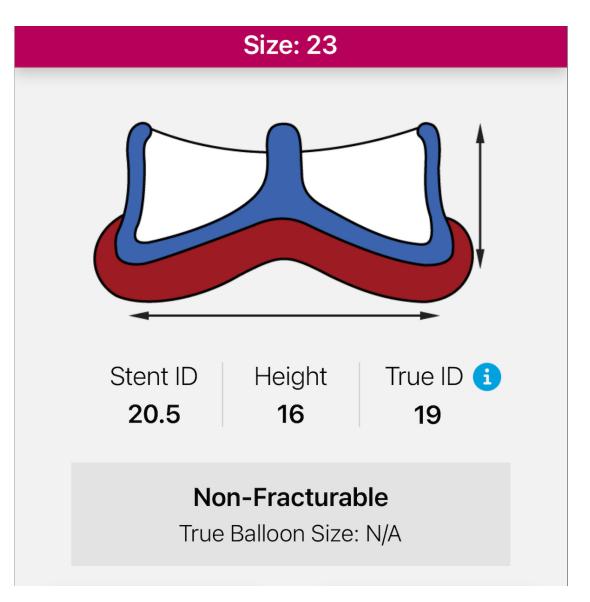


#### Hancock II

Left image shows the complete sewing ring marker of the Hancock 2. Right image shows the perfectly circular eyelet ring of the Hancock 2



Annulus perimeter: 66.1 mm Annulus Area: 345.3 mm2.





# STS Calculation 7.336%



#### Adjusted TAVR In-Hospital Mortality Risk

Click here for info about this risk model

Patient's Risk A.07%

National Average

**4%** as of May 2015

In the United States, the average mortality of all patients undergoing this procedure is **4%**.

Taking into account the patient's specific clinical condition, the statistical estimate that he might not survive the procedure is **4.07%**.

This means that for every 100 patients having a similar clinical makeup, there would be 4.07 who did not survive.



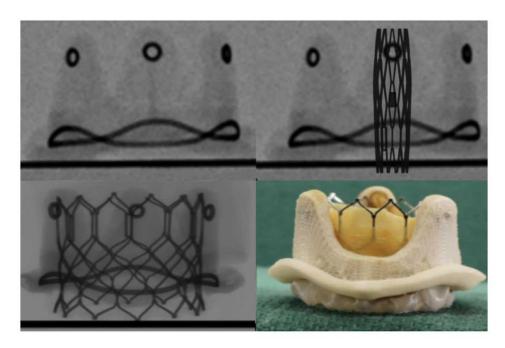


## What is your valve choice?



#### S3 Ideal Placement

Bottom row of 'small cells' below the fluoroscopic sewing ring marker.

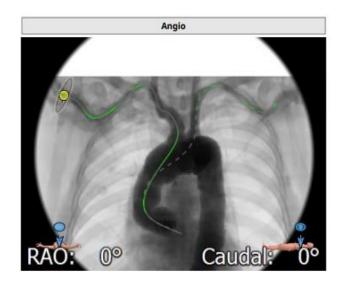


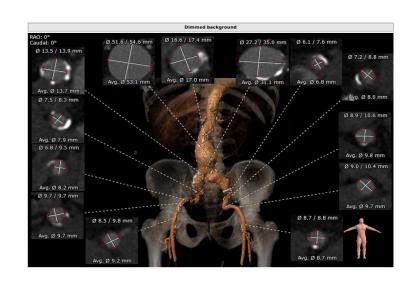
## Evolut Ideal Placement

If recommendation is two sizes, choose the valves size depending on the size of sinus of valsalva. Place Evolut 4 mm below the fluoroscopic marker in the sewing ring.



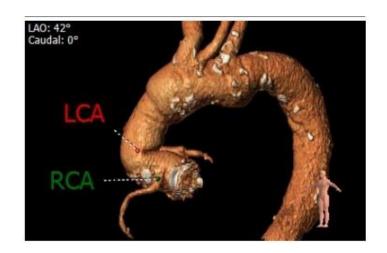
S3 23 mm 26 mm Evolute Pro

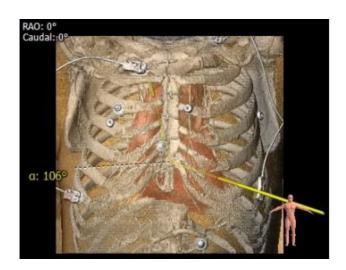






## What is your access choice?

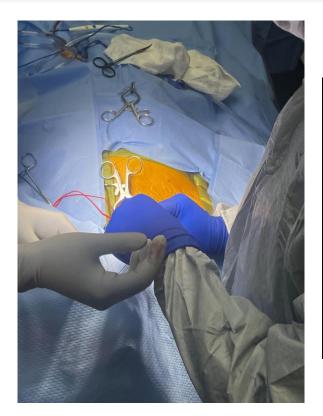




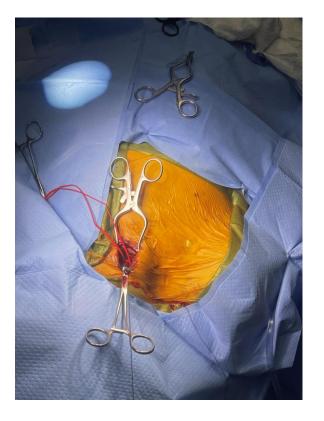




### Right Internal Carotid cut down

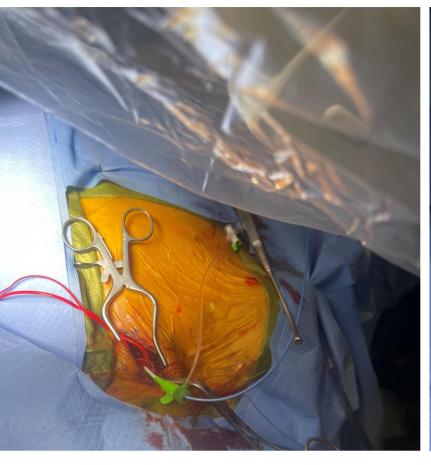










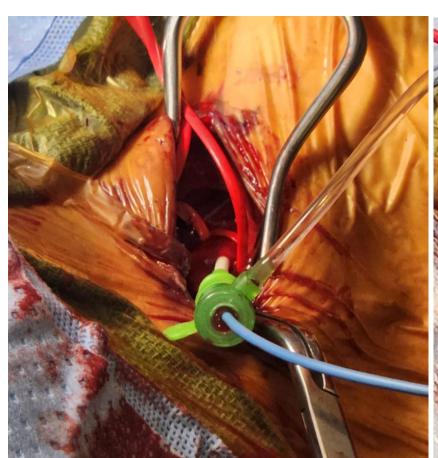










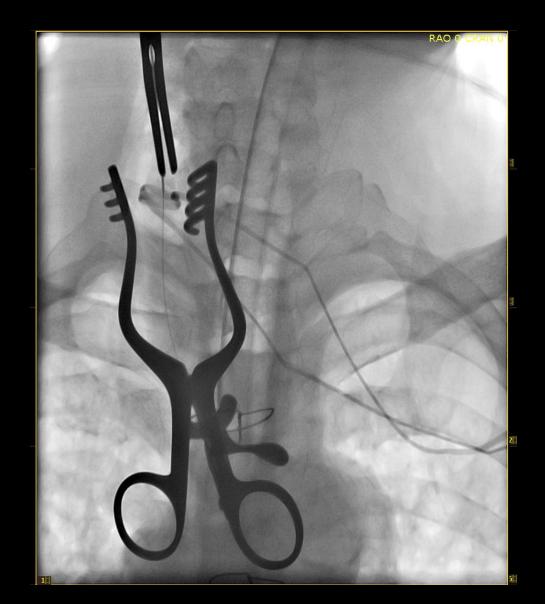




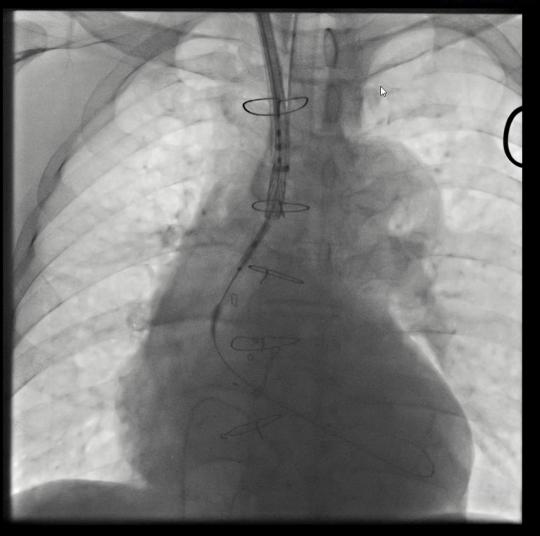








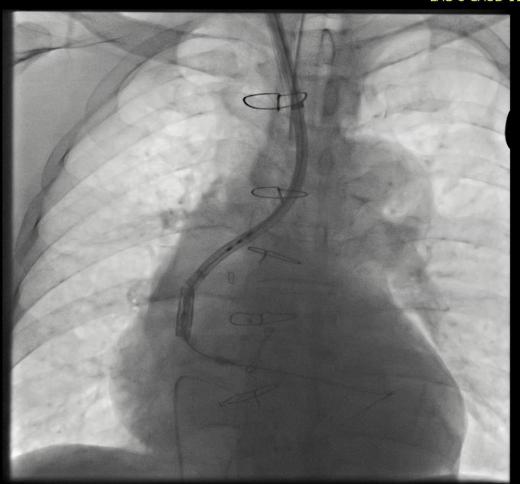
LAO 8 CAUD 11





LAO 8 CAUD 11



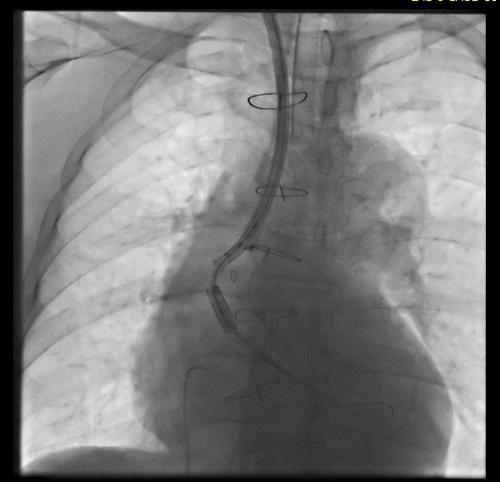


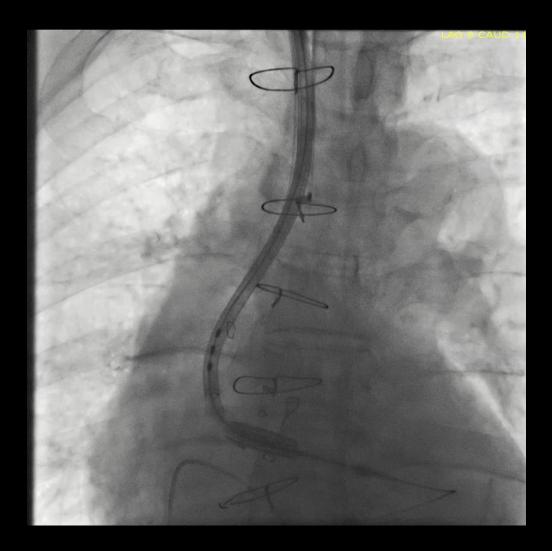






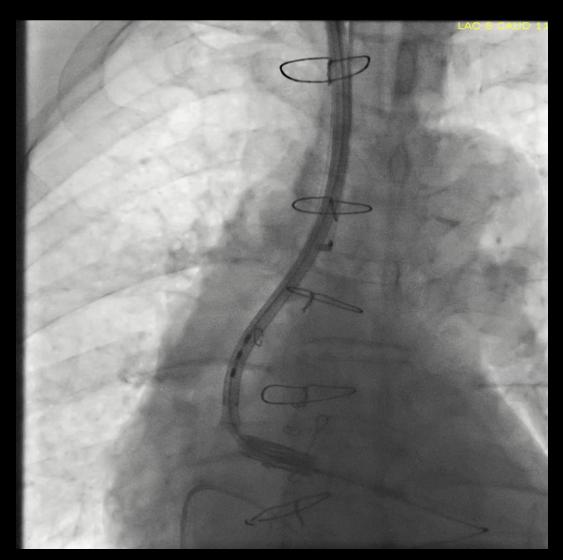
LAO 8 CAUD 11

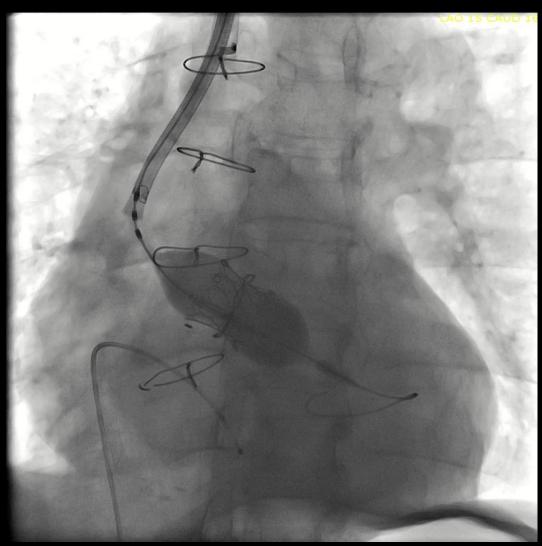






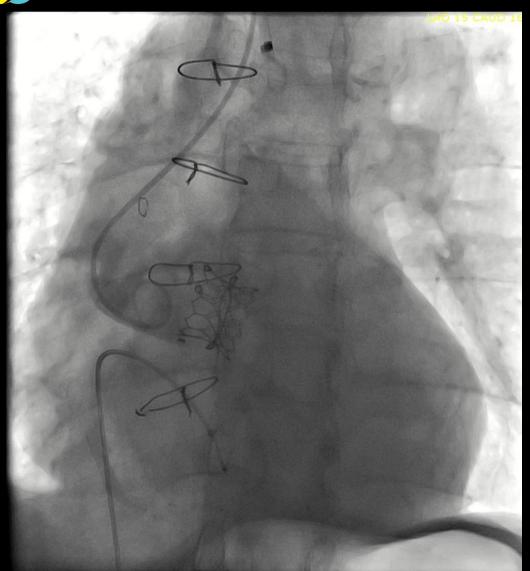


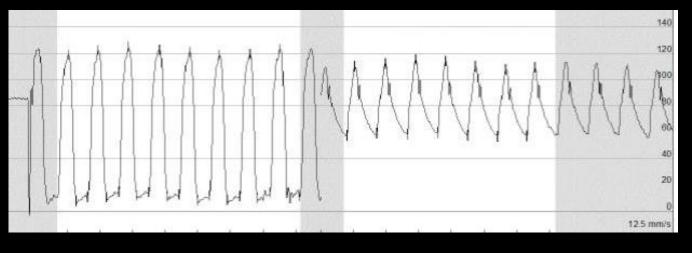








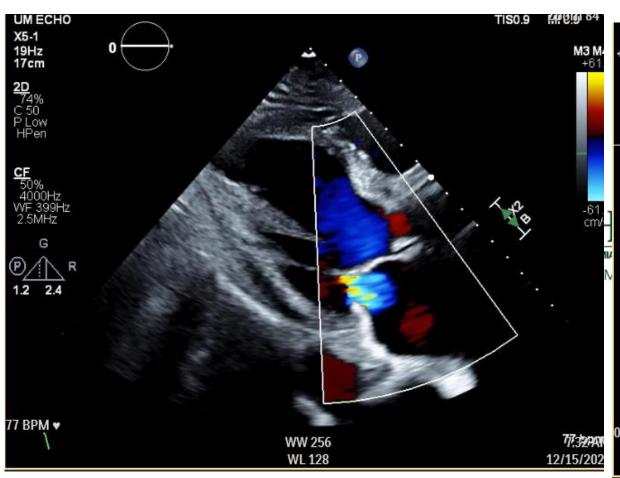


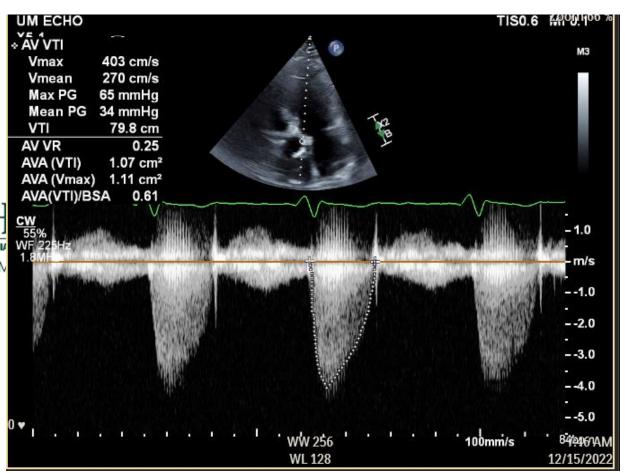


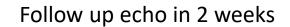
Invasive transaortic gradient of 11 mmHg.





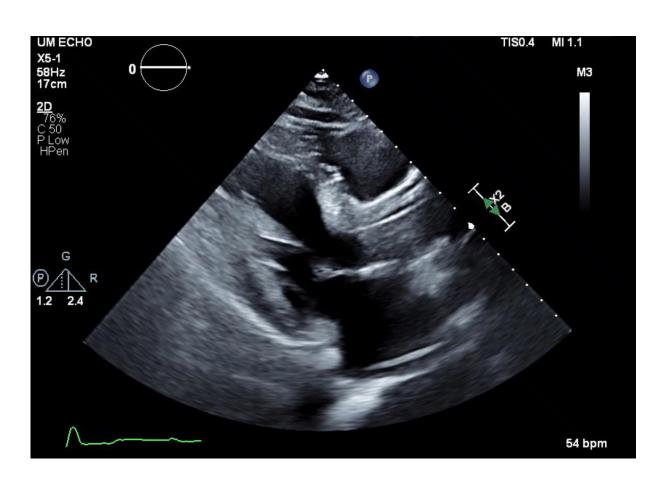


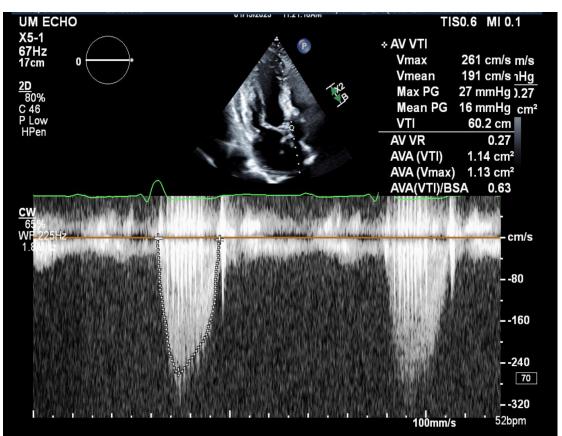












EF = 55-60%