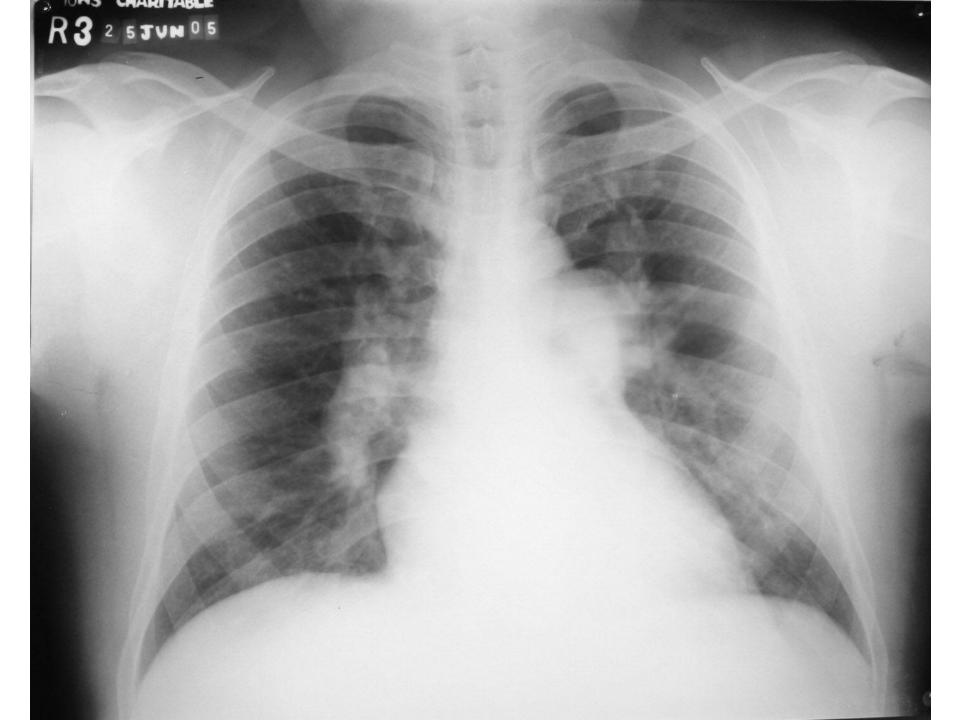
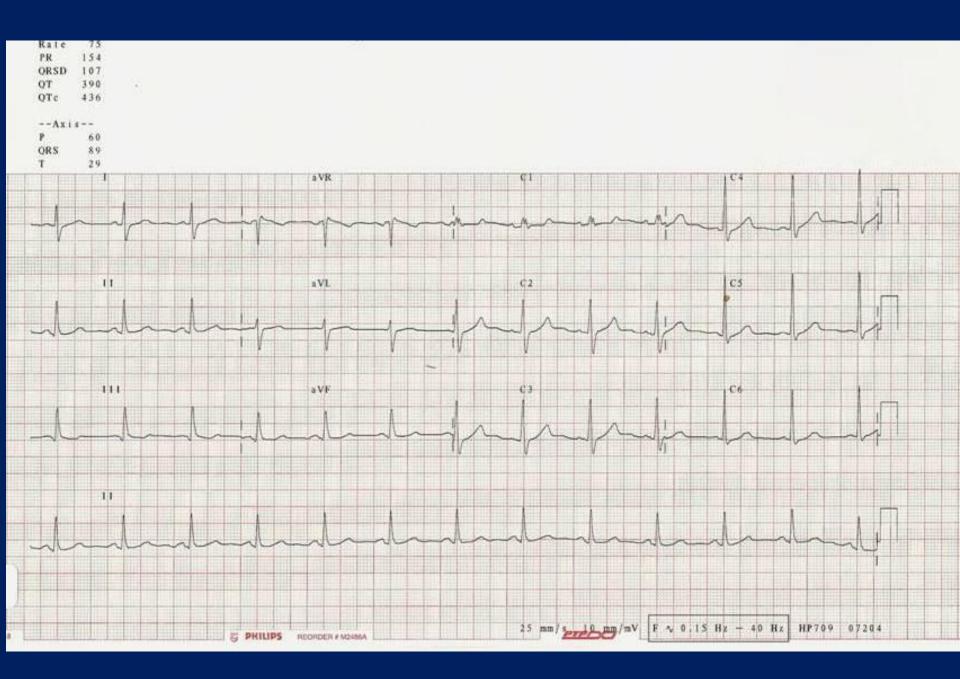
## Embolization of ASD Occluder – Lessons learnt

Bharat Dalvi, MD Glenmark Cardiac Centre Mumbai, India

#### Case Scenario

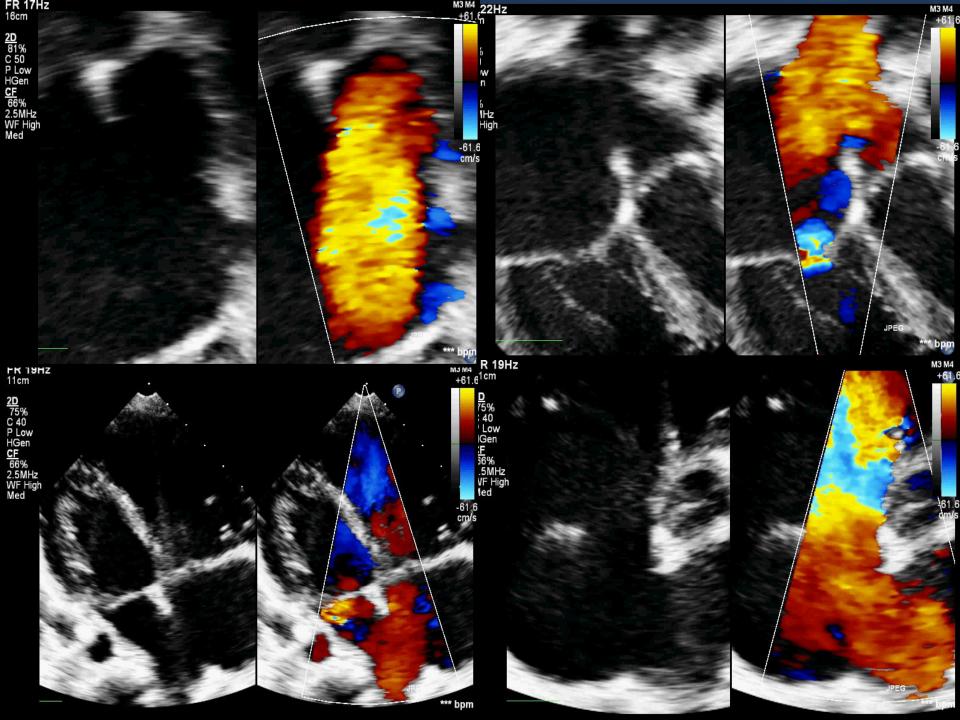
- 37 year old lady
- SOB, palpitations and easy fatiguability
- Vitals were normal
- Precordial activity
- 3/6 ESM in the PA
- 2/6 MDM across the TV
- A2P2 wide and fixed



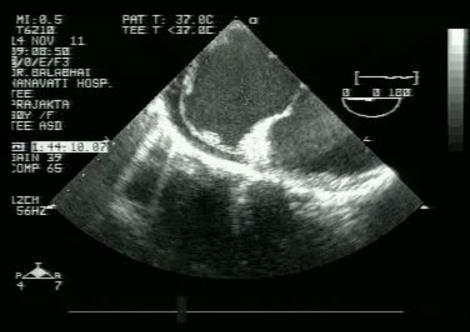


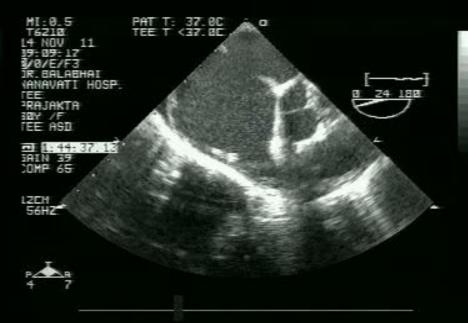
### 2DE and CD – TTE and TEE

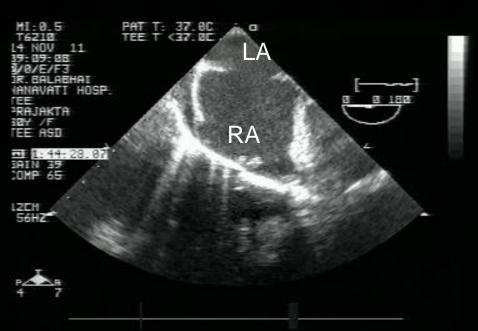
- Large secundum ASD measuring 28 mm
- RA and RVVO
- Mild TR. Estimated RV pressure of 55 mm Hg
- SVC rim 11 mm, AV valve rim 9 mm, atrial rim 6 mm, Aortic rim 3 mm, IVC rim was not well seen on TTE but measured 6 mm on TEE

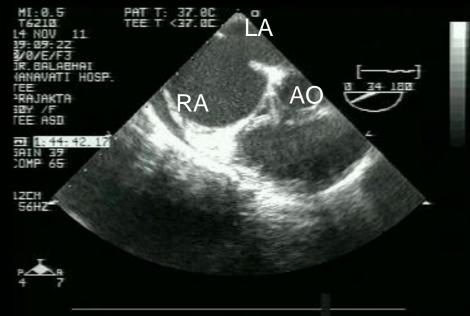


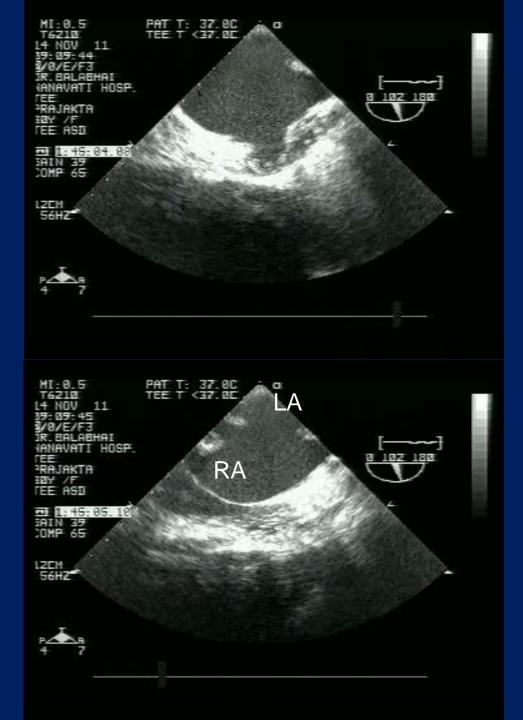
- Taken up for device closure under GA
- TEE showed large ASD measuring 27-28 mm Hg
- Surrounding rims appeared adequate

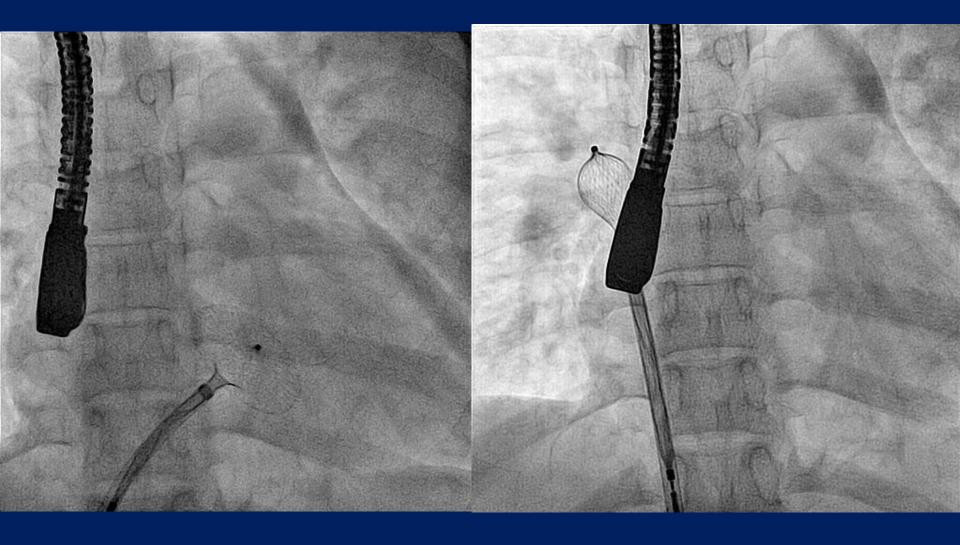


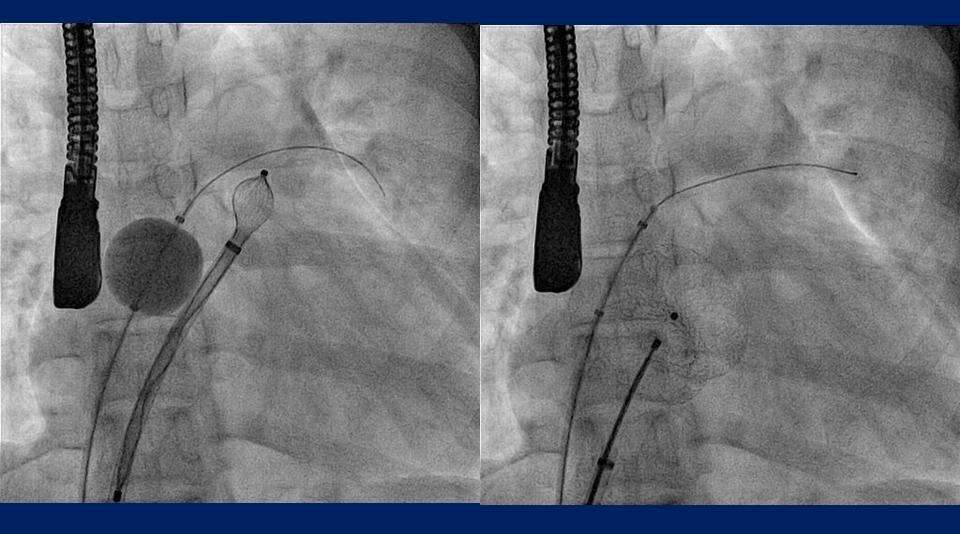


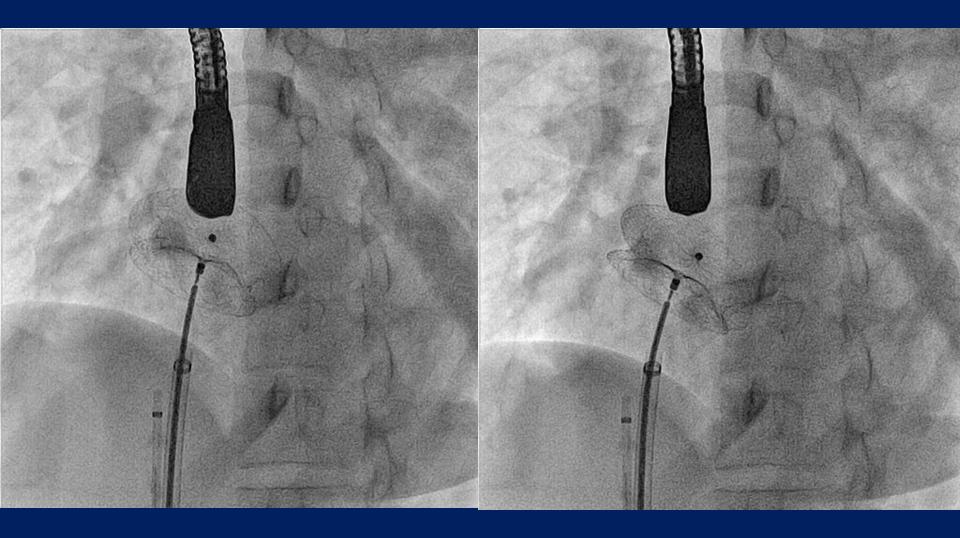


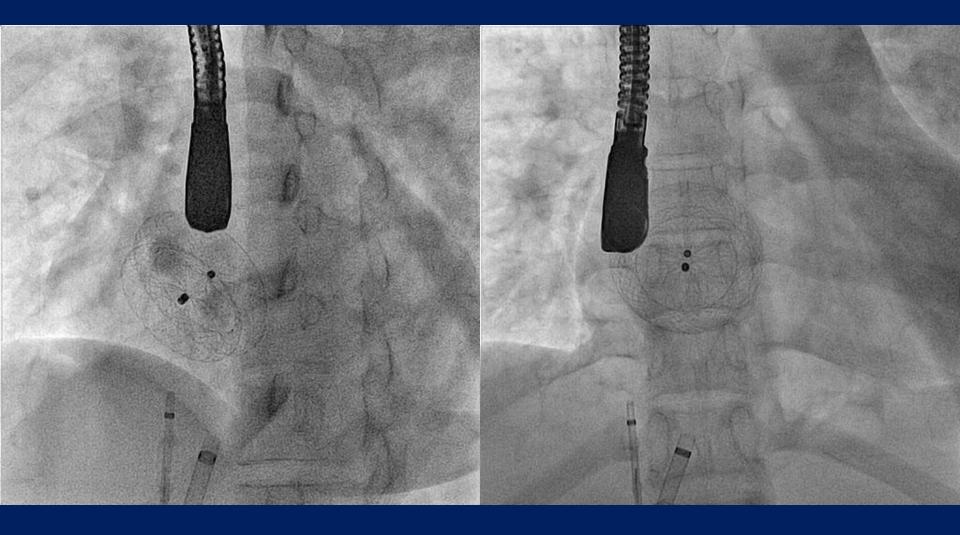




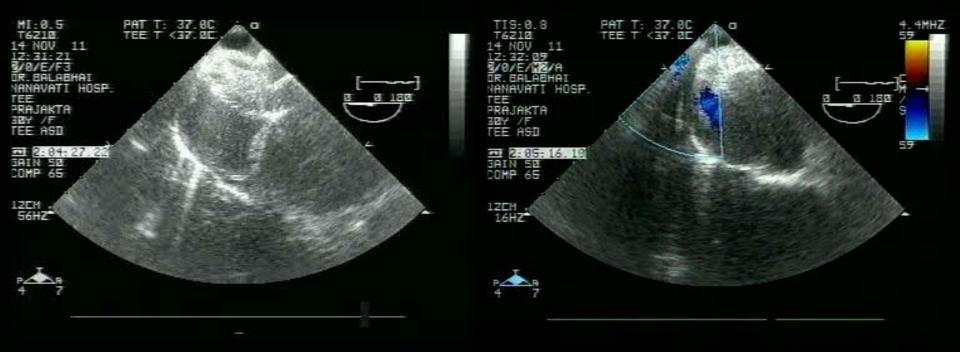


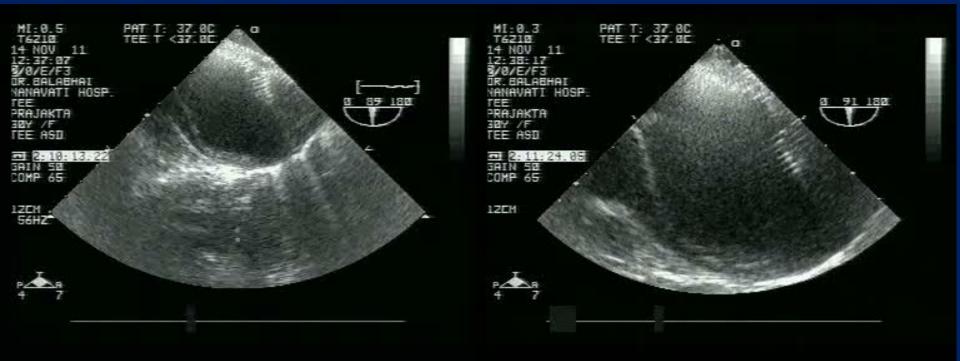






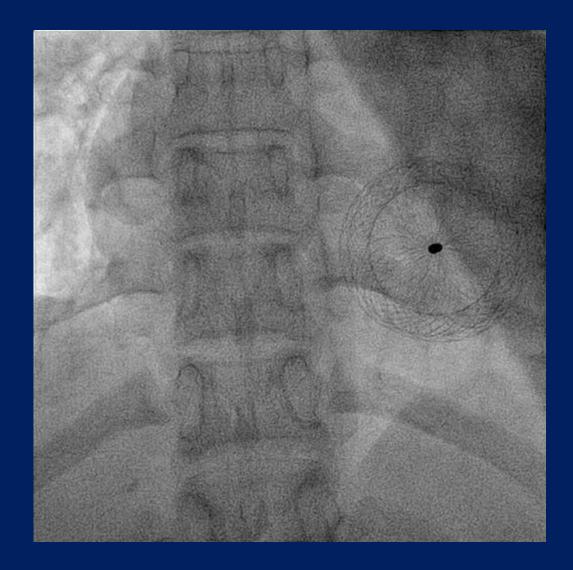






# Most important step in large ASD closure

- EXTUBATION
- Retching and coughing
- More retching
- Scope showing VPBS!!!!!!!!!!



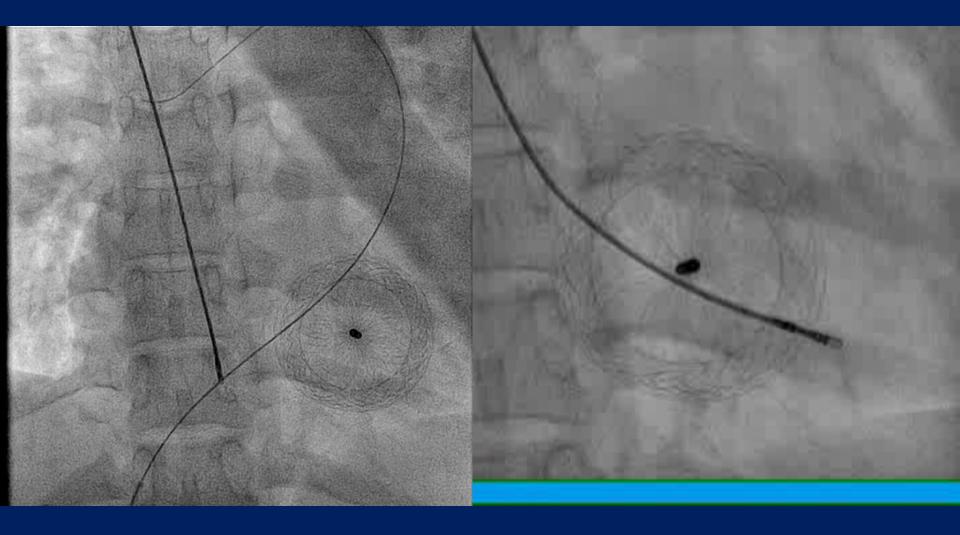
#### **Actions Taken**

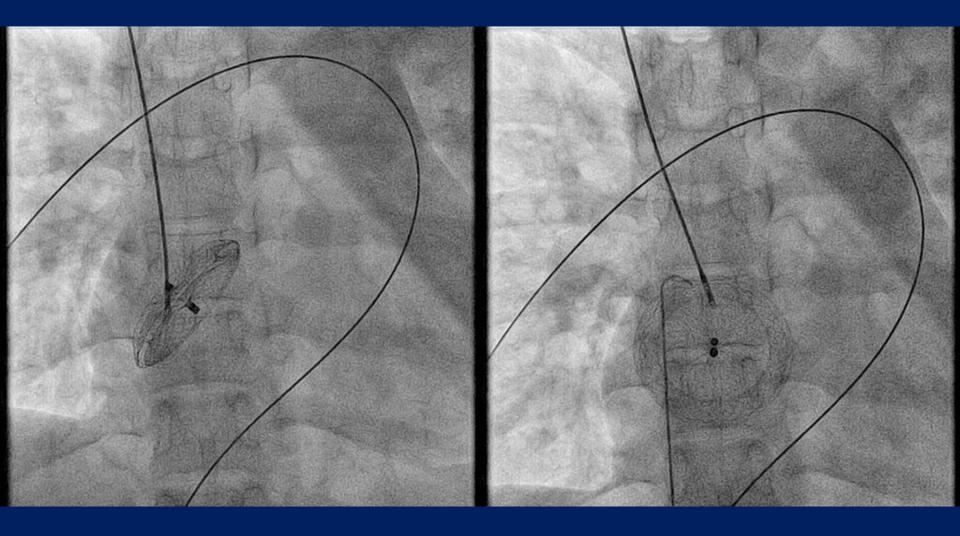
- Family informed
- Surgical team informed
- OR informed
- Decision to attempt retrieval
- Put under GA and intubated

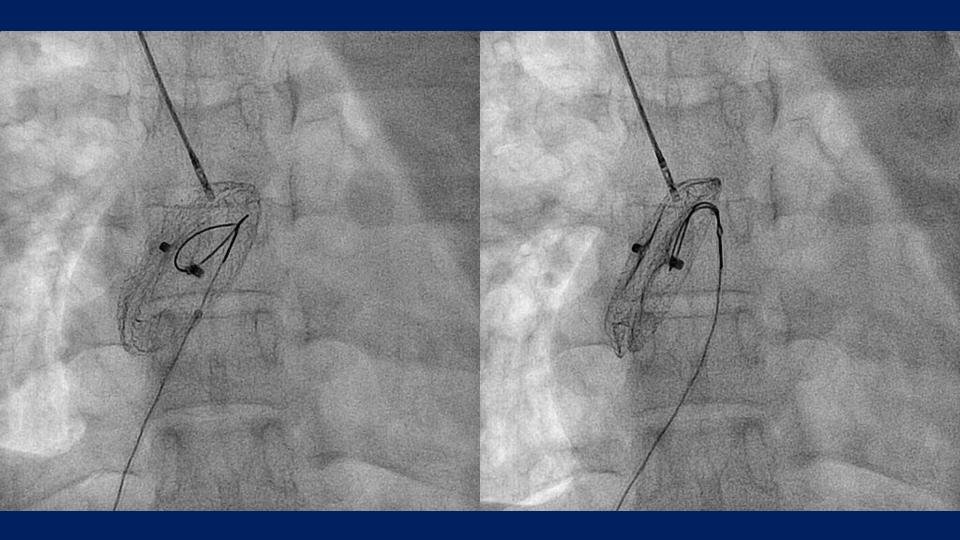
#### Issues

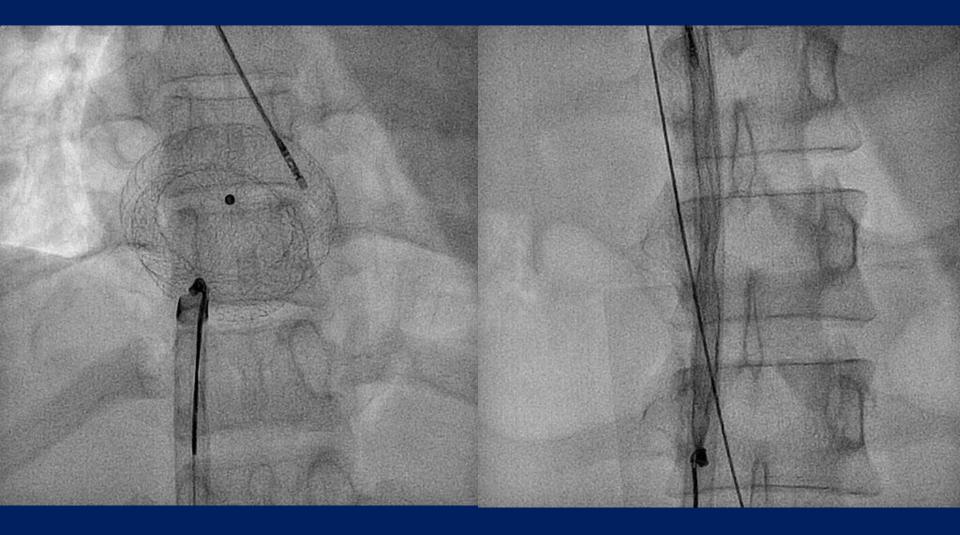
- What size sheath is needed to retrieve a 34 mm device
- Can it be retrieved by holding the RA screw alone or will need to be held at both ends
- How safe is it to retrieve the device from RV?
- What is an alternative?

- 16F sheath
- Holding the device at two ends Good strategy : Right jugular access and a bioptome
- Dislodging the device from the RV would be helpful.
  - Put a wire and then a catheter through the other groin across the TV – Prevent it from coapting
  - VPBs to produce AV dissociation



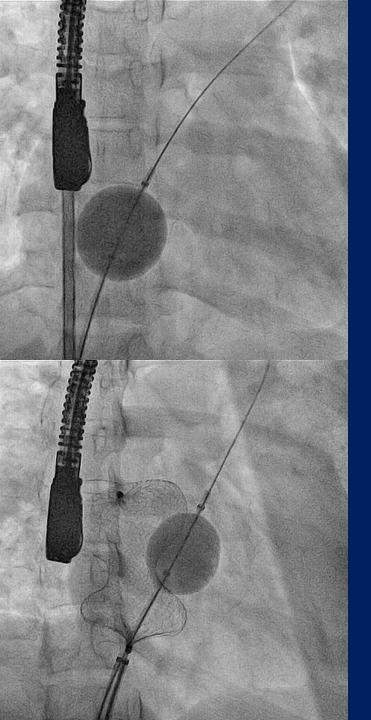


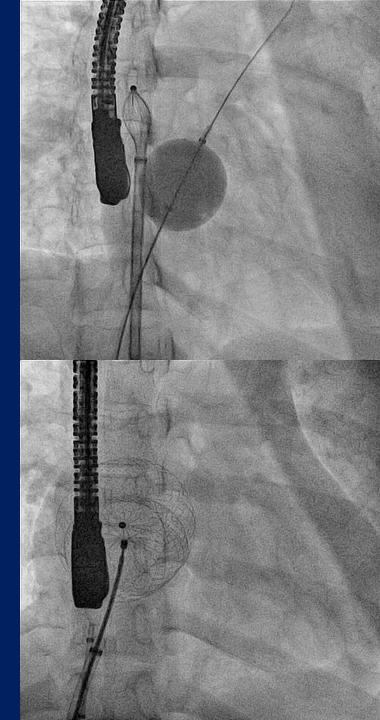


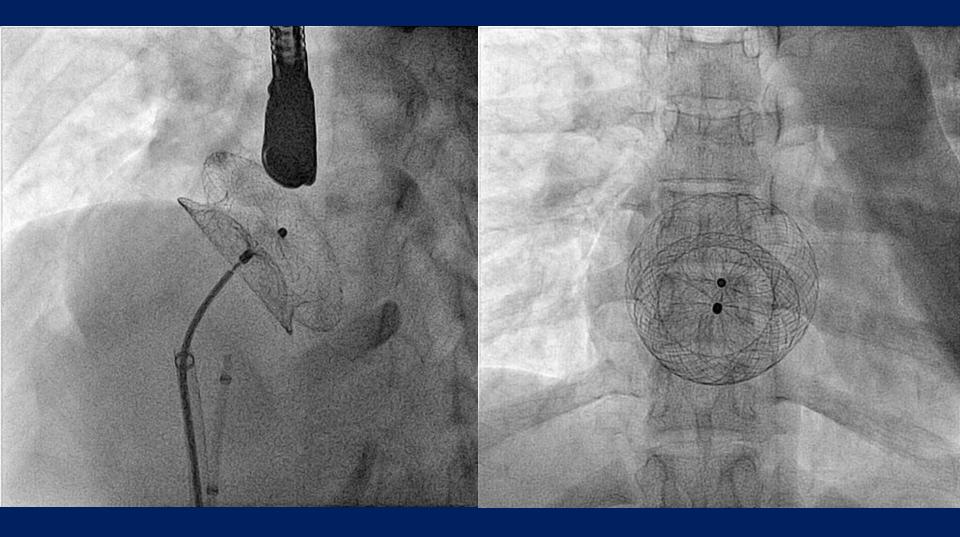


#### What Next?

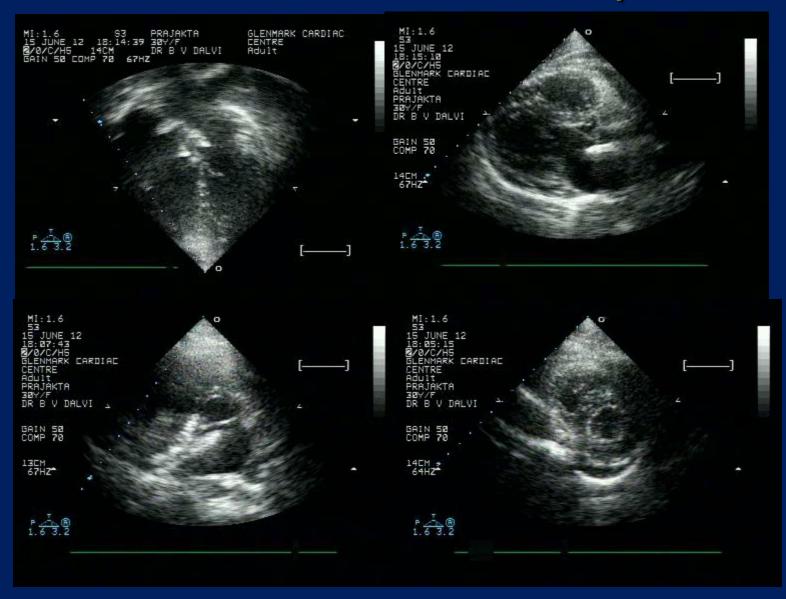
- Surgery?
- Device?
- What size device? 36, 38, 40???





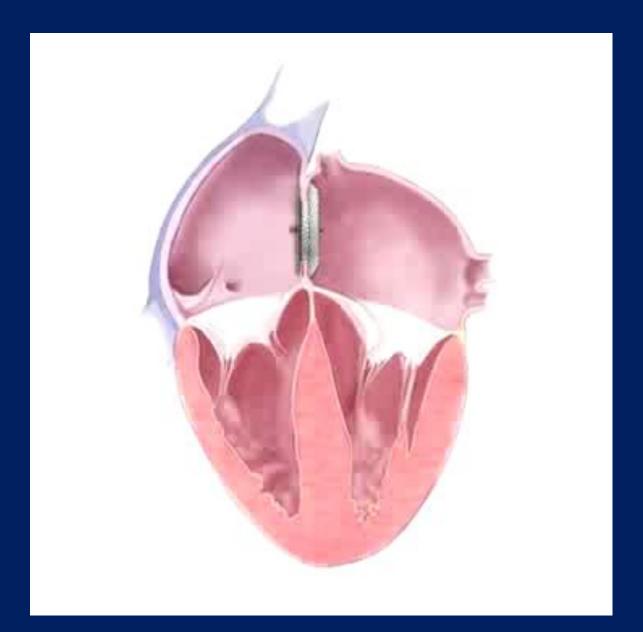


#### Seven month Follow Up



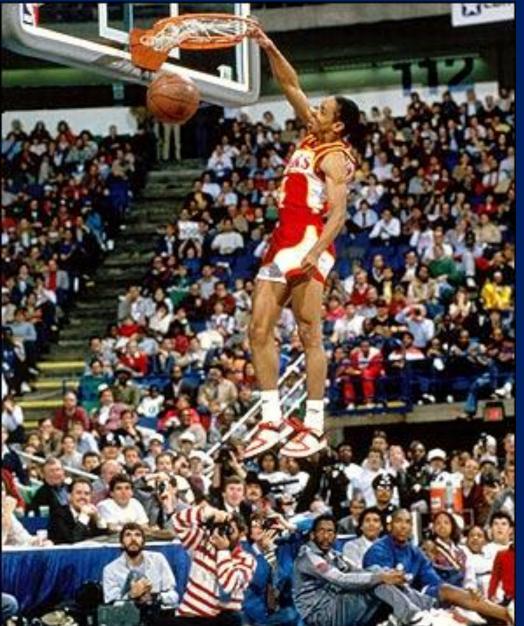
#### Lessons learnt

- Embolization remains a problem despite "experience"
- Undersizing is probably the commonest cause
- The exact mechanism remains unknown so also its relation to retching and coughing



#### Lessons learnt

- There needs to be a plan in place
- Large sheaths, snare and bioptome are essential
- This technique almost always works (3)
- Whether to proceed with larger device ????
- If you are confident that the rims are adequate in length as well as in strength – another try may be worthwhile



# "No intervention is a slam dunk"