



Un enexpected "Double" Complication

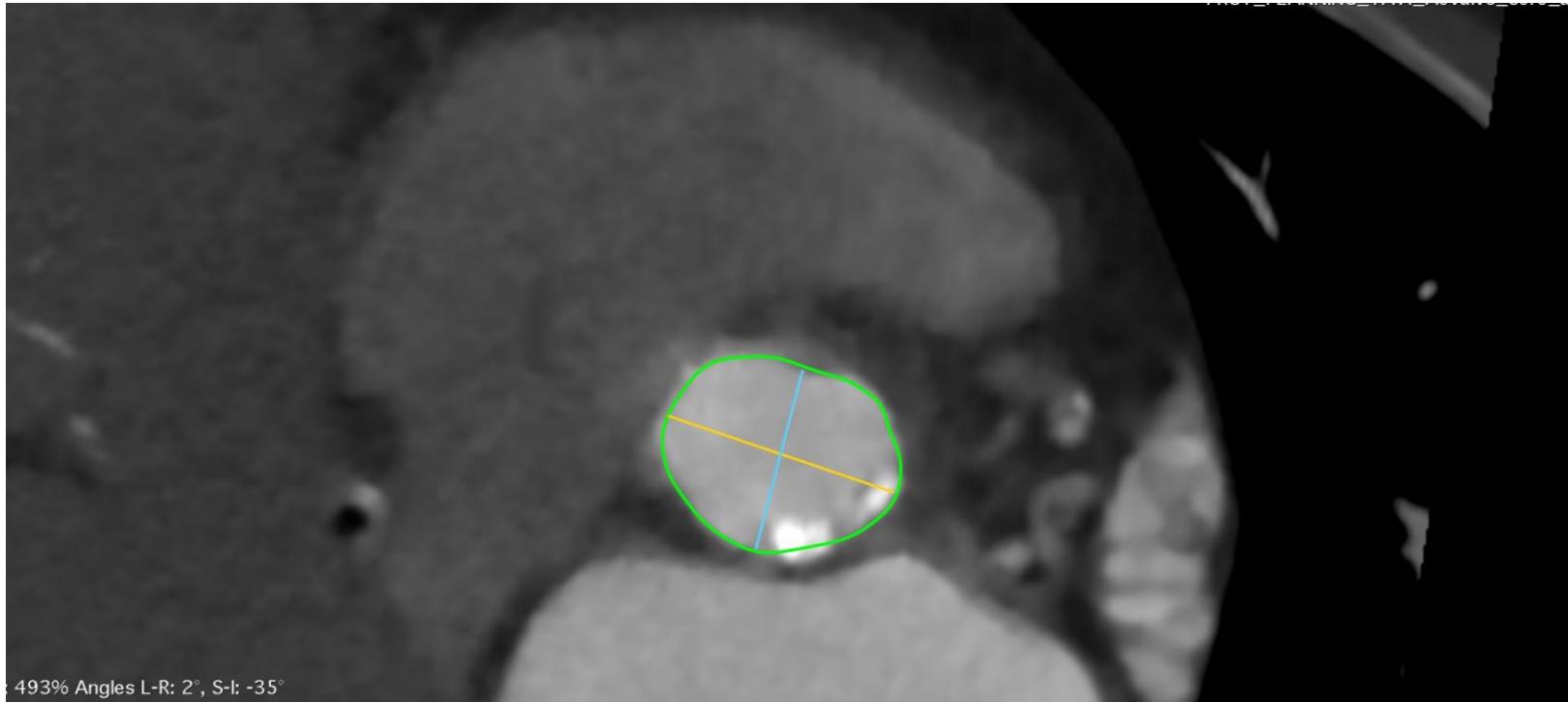
## Clinical History

- 87 years old, female
- Hypertension
- Severe aortic stenosis with preserved left ventricular ejection fraction
- Dyspnea (NYHA III class)
- One episode of acute heart failure



TAVI evaluation

## CT scan

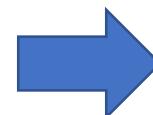


### Anulus dimensions:

Area: 410 mm<sup>2</sup>

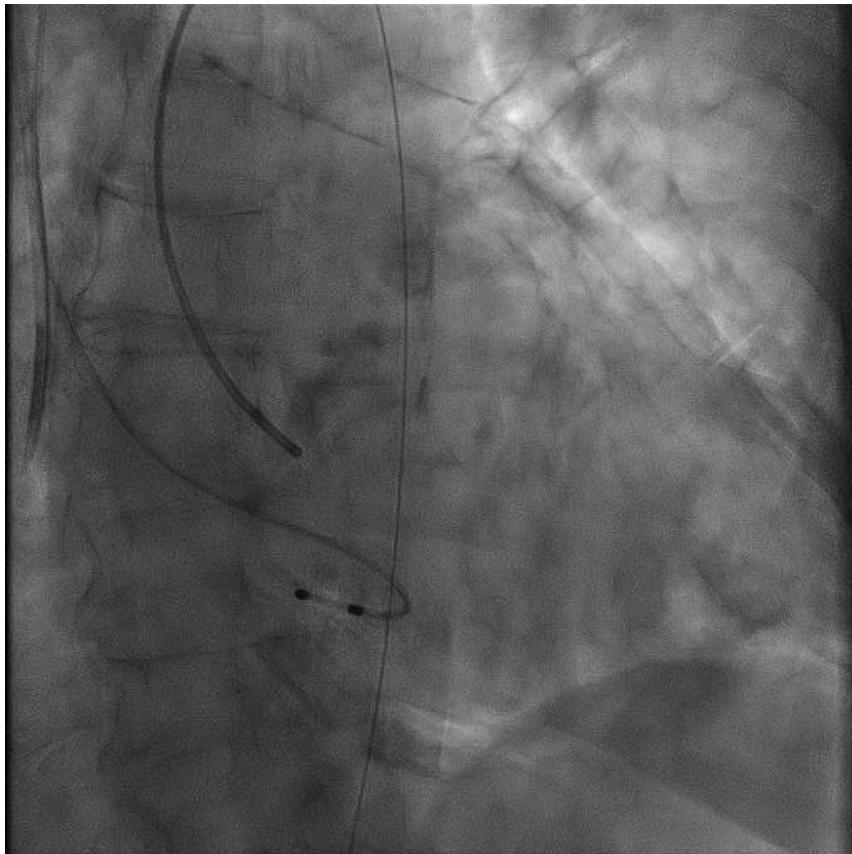
Perimeter: 72.1 mm

Short axis: 20.1 mm; long axis: 24.9 mm

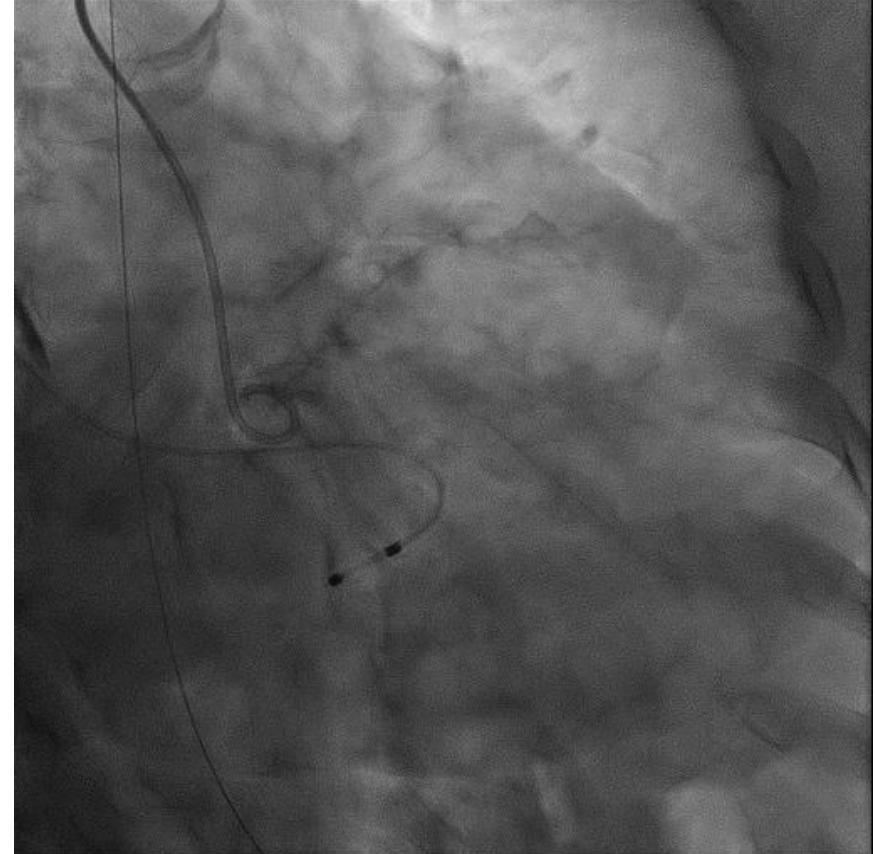


CoreValve Evolut R 29 mm

# Transcatheter aortic valve replacement

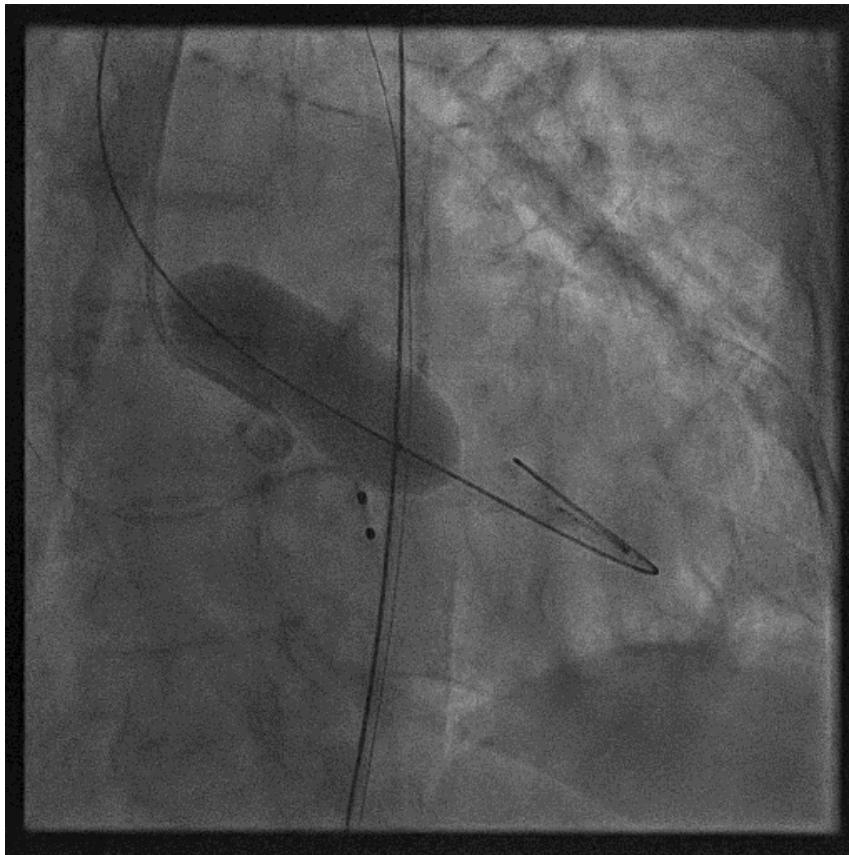


Basal aortography

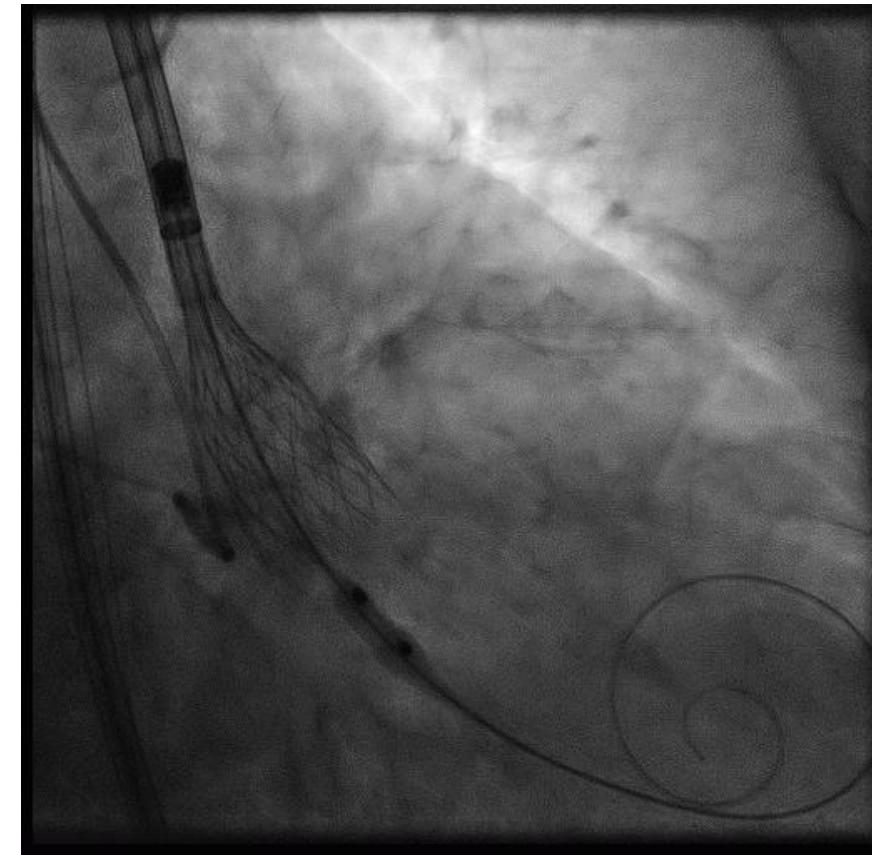


Basal aortography (cusp overlap)

# Transcatheter aortic valve replacement

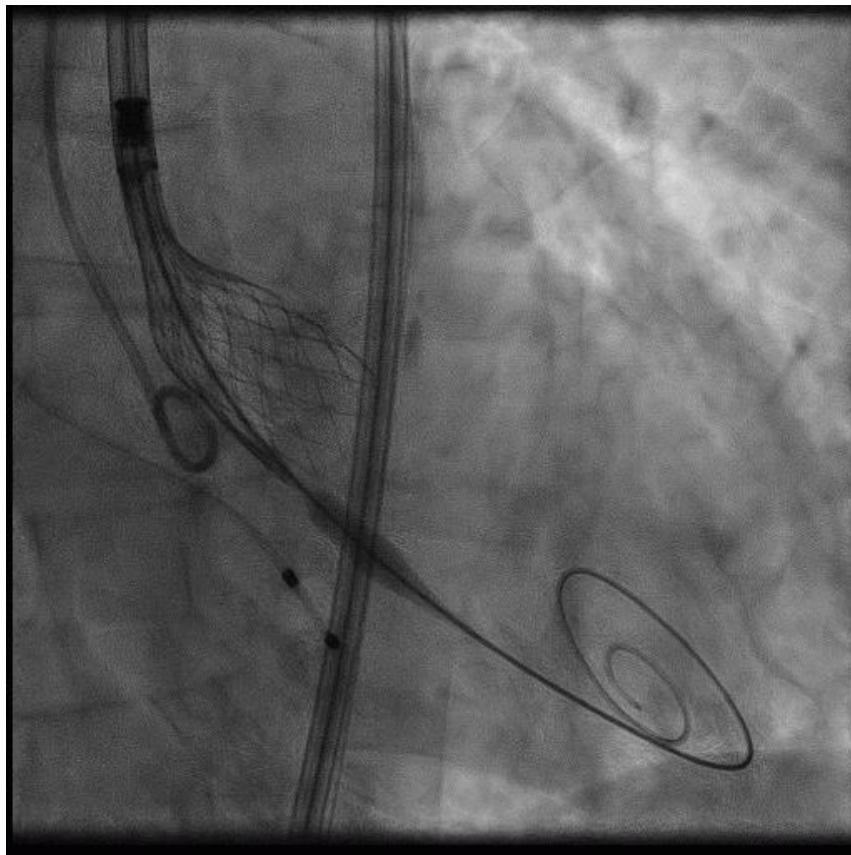


Predilatation with semicompliant 20 mm balloon

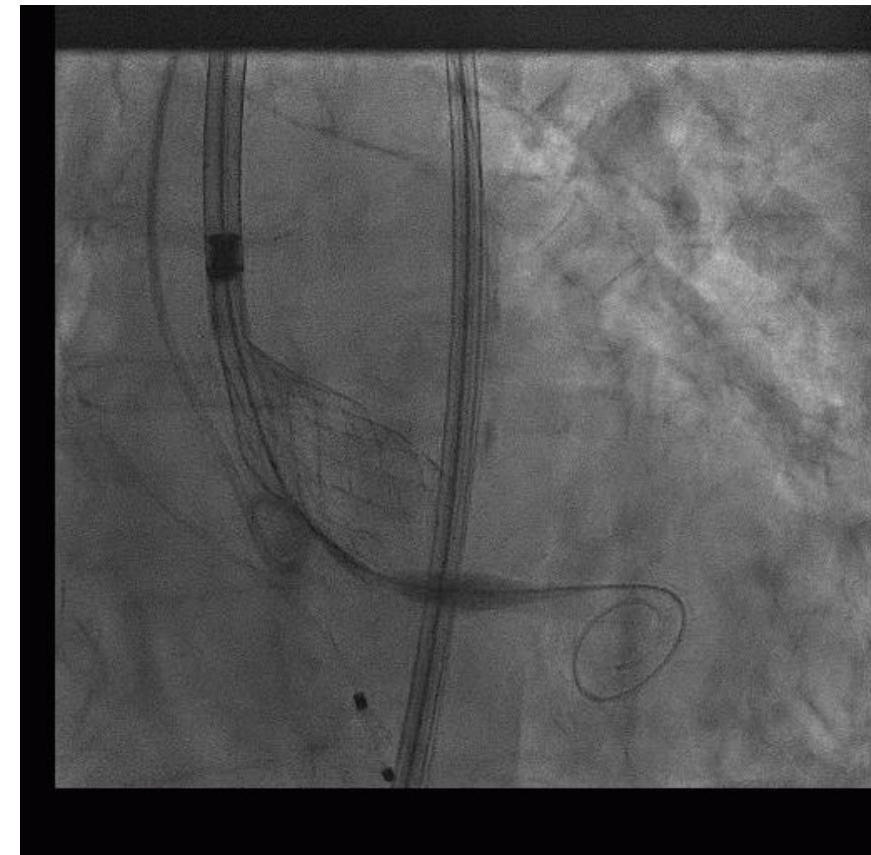


First deployment-> Low implantation

# Transcatheter aortic valve replacement

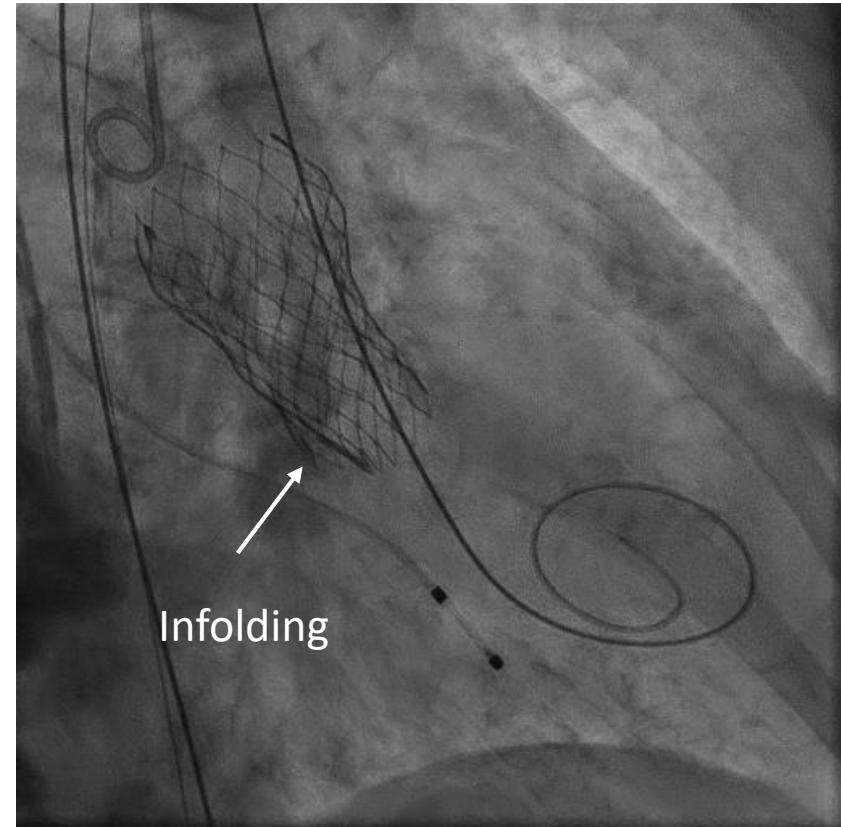
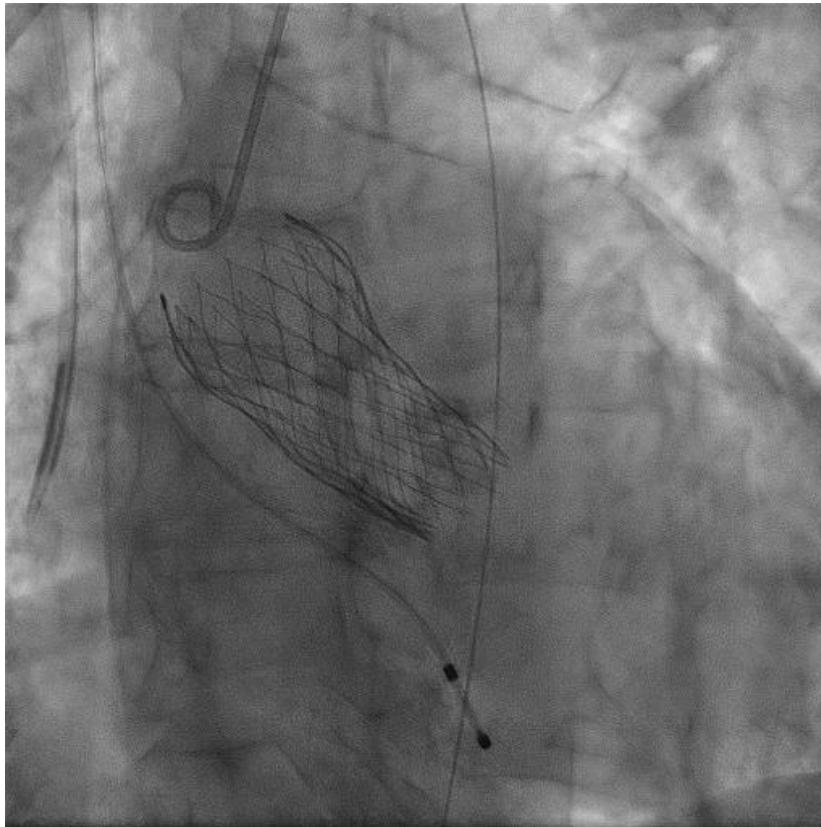


Second Deployment



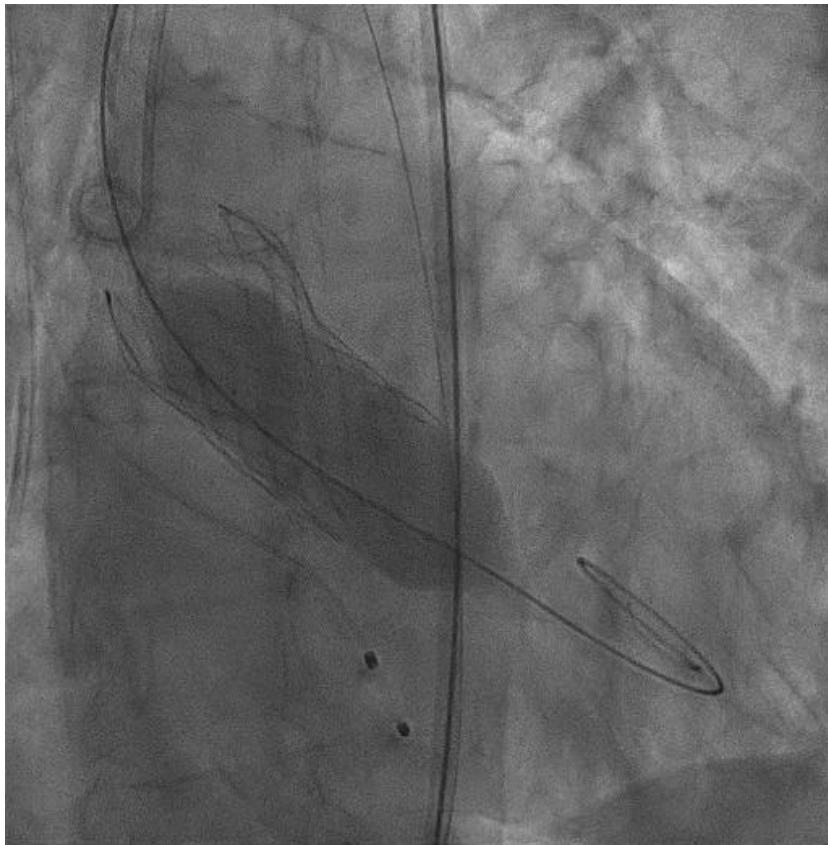
Ground zero implantation

# Transcatheter aortic valve replacement

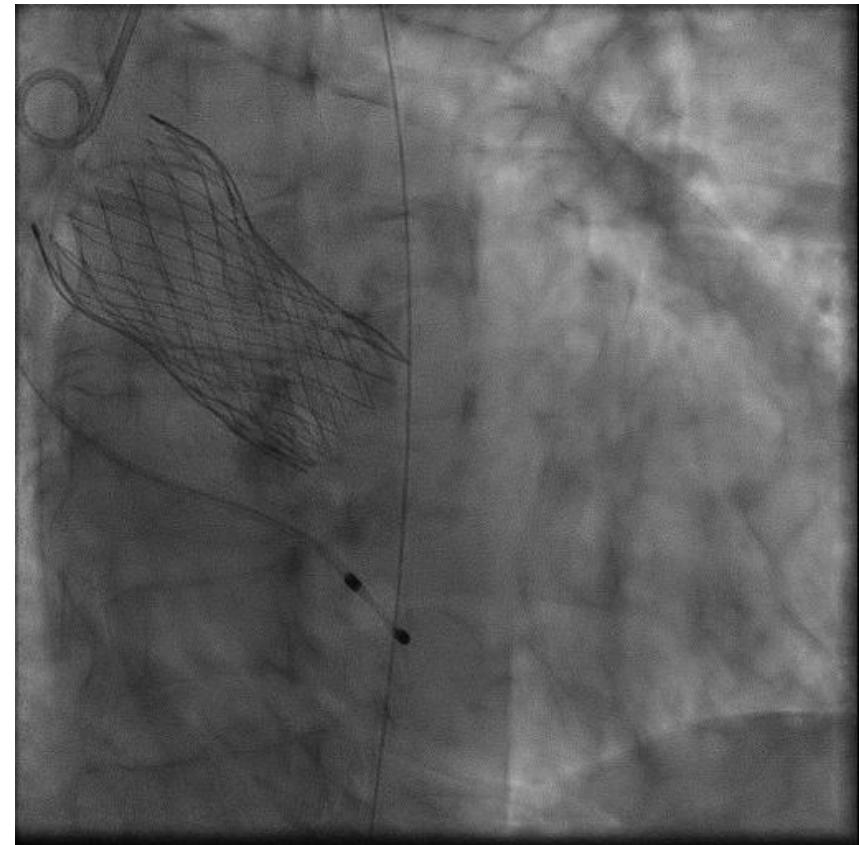


Moderate aortic regurgitation with evidence of infolding of the transcatheter heart valve

# Transcatheter aortic valve replacement

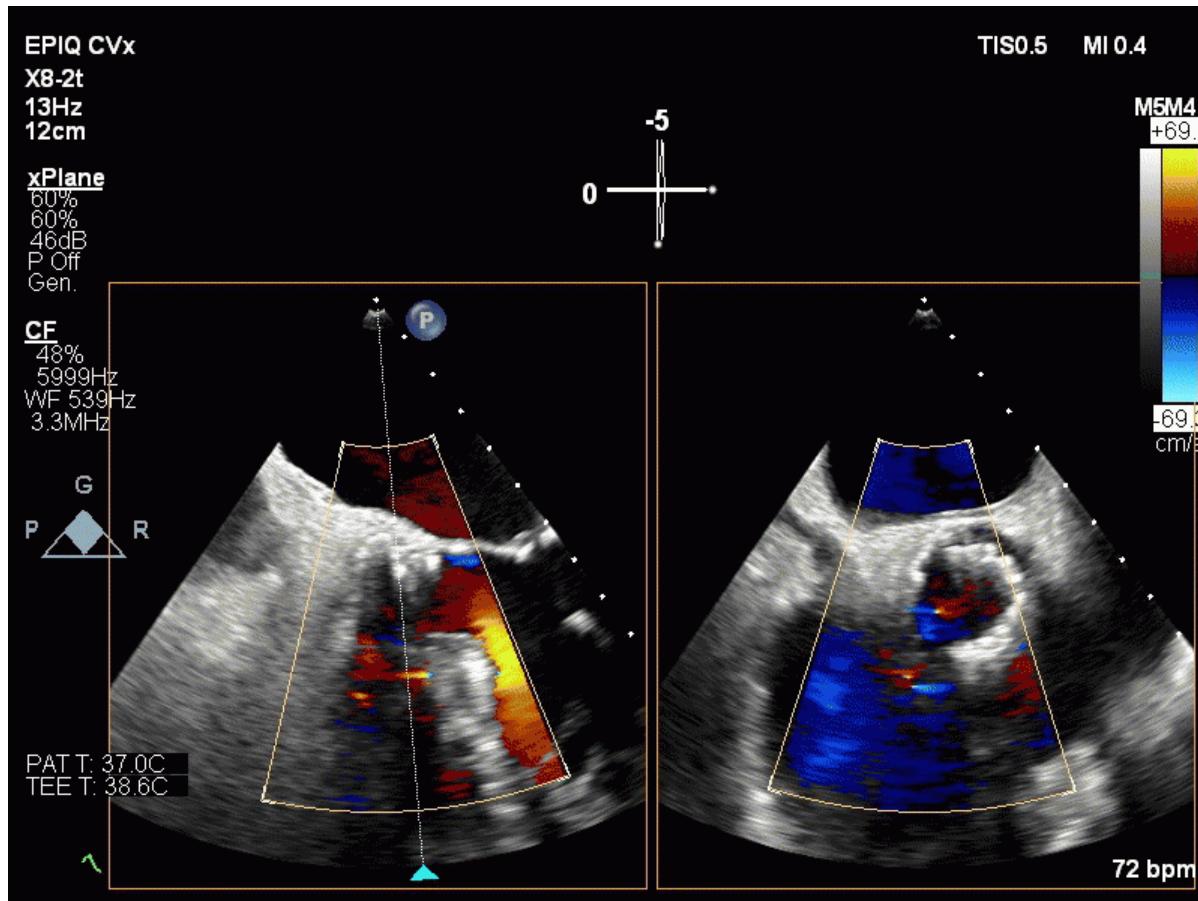


Post-dilatation with non compliant 22 mm balloon



Final angiographic result->no paravalvular leaks

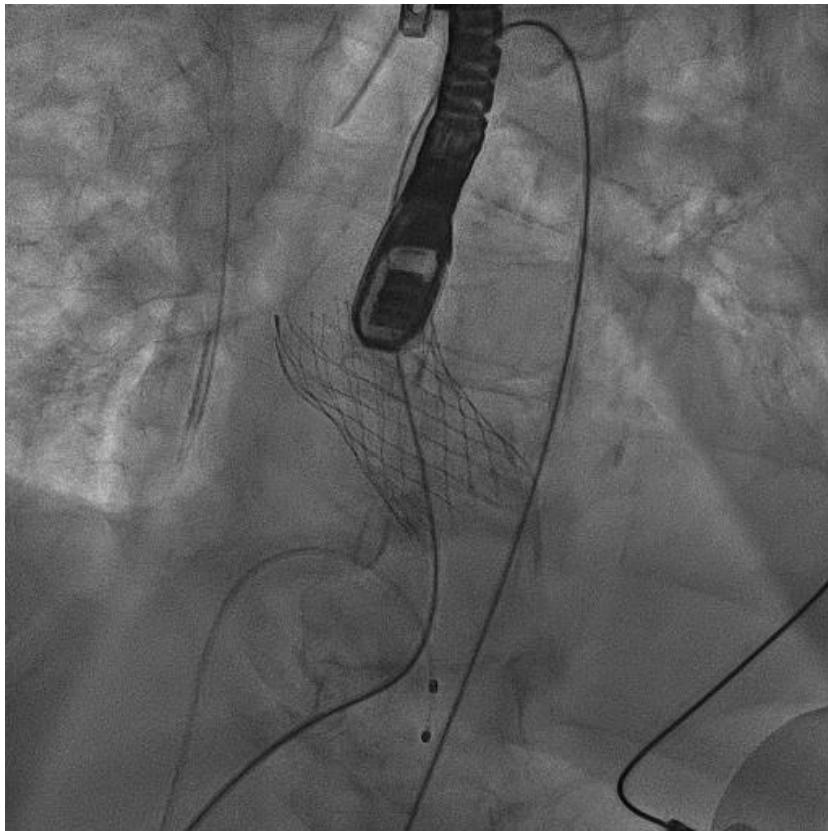
# Transcatheter aortic valve replacement



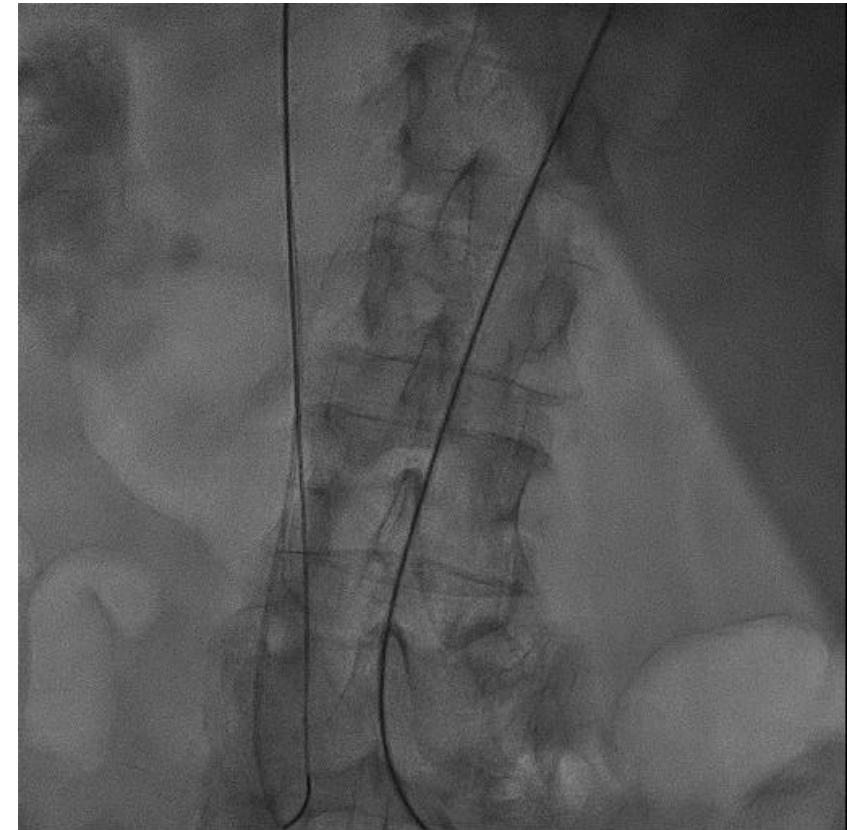
Subaortic ventricular septal defect with initial conservative strategy.

Four days later worsening of dyspnea with pulmonary hypertension > percutaneous closure of ventricular septal defect planned

# Percutaneous closure of VSD

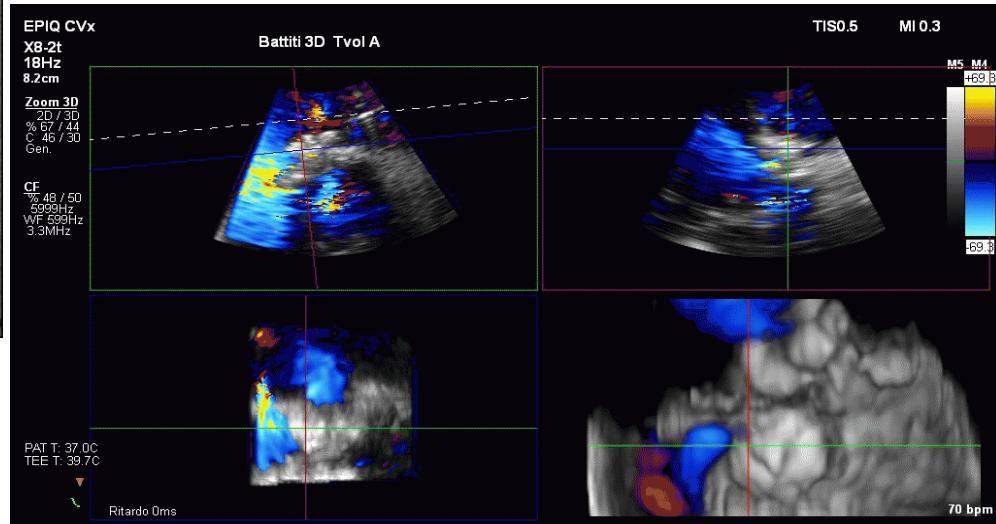
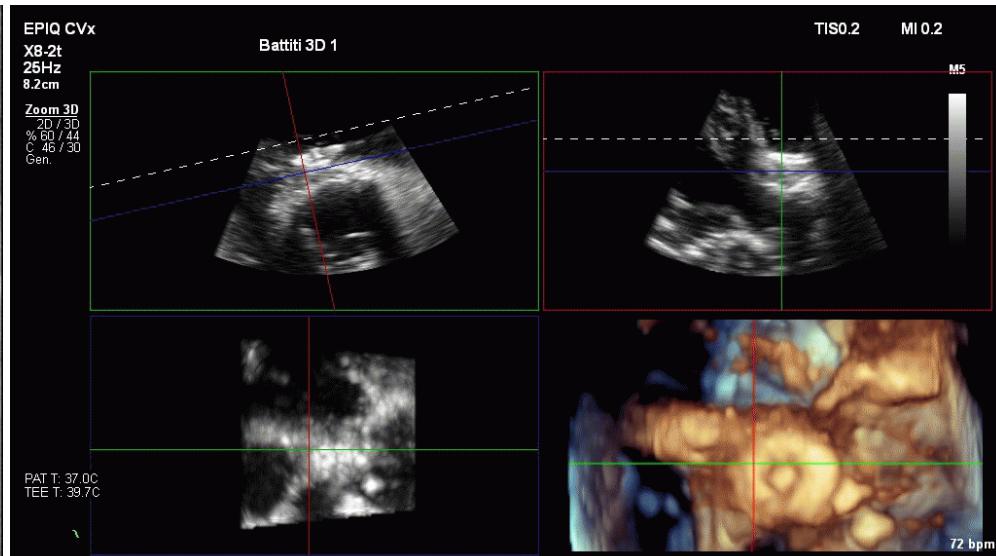
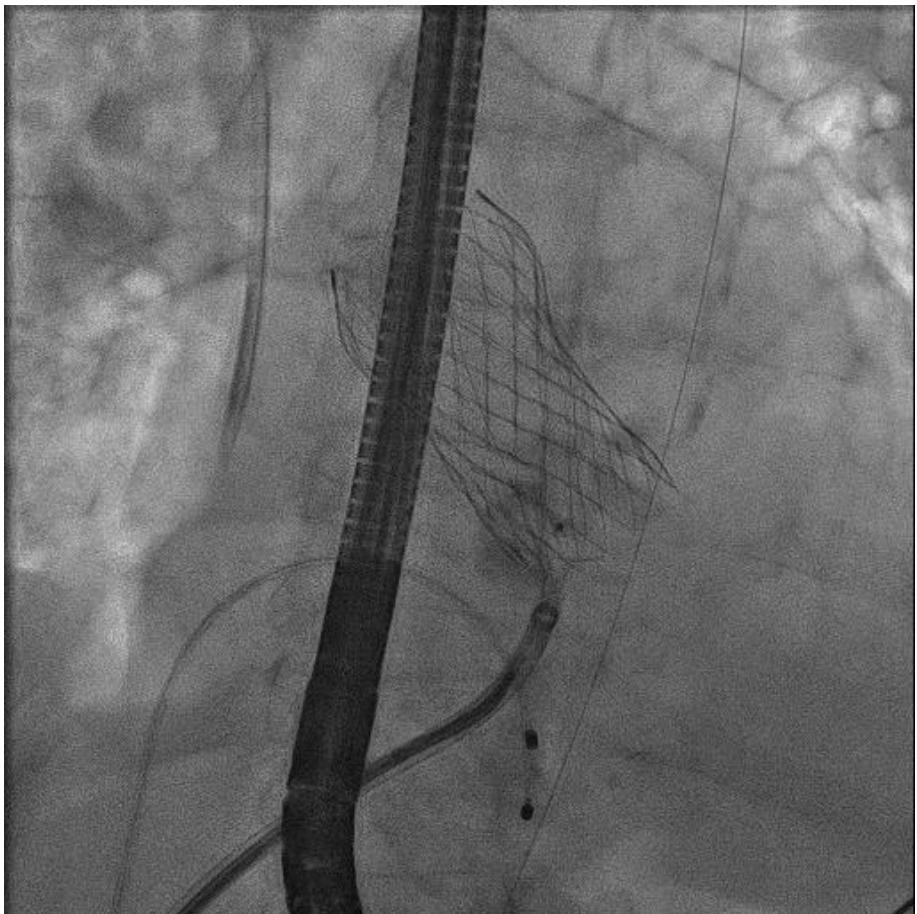


Crossing of the defect



Wire externalization

# Percutaneous closure of VSD



Implantation of Amplatzer Muscular VSD Occluder (8 mm) with mild residual left to right shunt.  
Patient discharged few days later.

## Conclusions

- Post-dilatation of an infolded self expanding prosthesis should be done with caution, especially in cases of high implants (proximity to membranous septum)
- Ventricular septal defects following TAVR can be effectively closed percutaneously in selected cases