

CARDIOVASCULAR INNOVATIONS DIGITAL 2020

Clip Leaflet Mismatch

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Disclosure Statement of Financial Interest

I, Ashish Pershad DO NOT have a financial interest/arrangement or affiliation with one or more organizations that could be perceived as a real or apparent conflict of interest in the context of the subject of this presentation.

Clip Leaflet Mismatch-

- Primary jet outside A2-P2
- Multiple jets/wide jets
- Small valve area
- Severely degenerative leaflets with wide gaps (Barlows)
- Calcified grasping zone

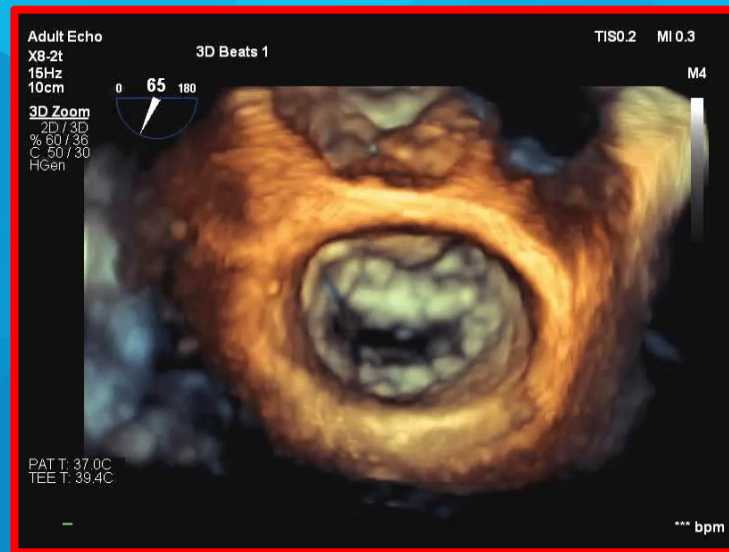
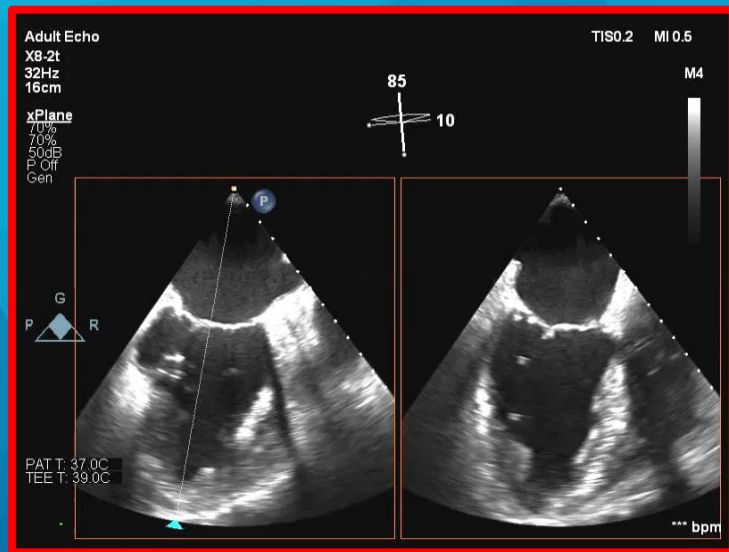
Clip Options in 2020

	XT-W	XT-R	NT-W	NT-R
Leaflet length >9mm	++	+	++	+
Mitral valve area (<.....>)	--	+	+	++
Width of jet (>...<)	++	++	++	+

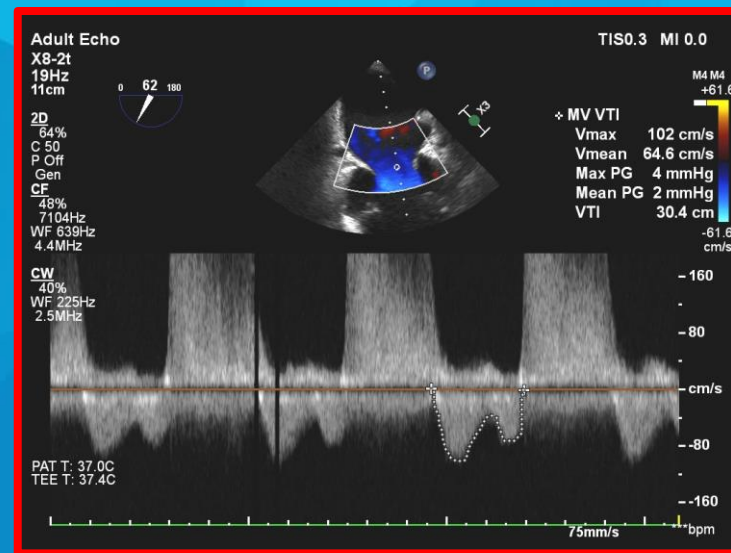
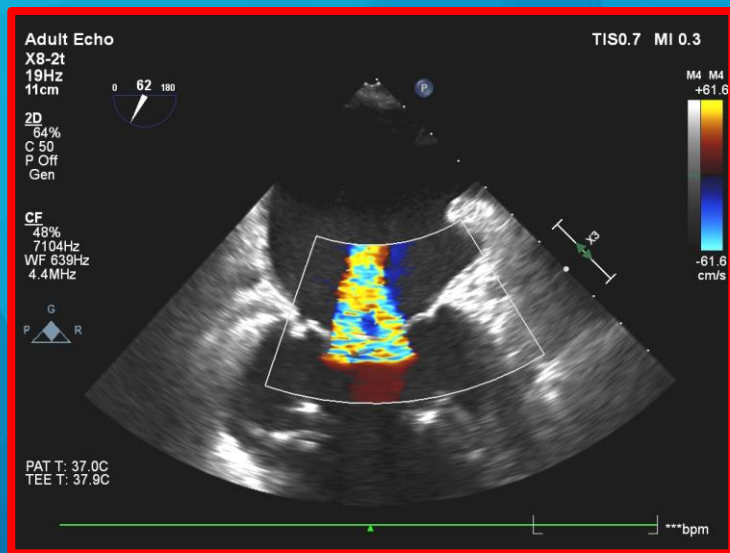
CASE Example-1

- 78 year old male with FMR (3plus)
- STS risk 6% for replacement
- Class III NYHA heart failure on GDMT for 6 months
- EF 30-35%
- CKD

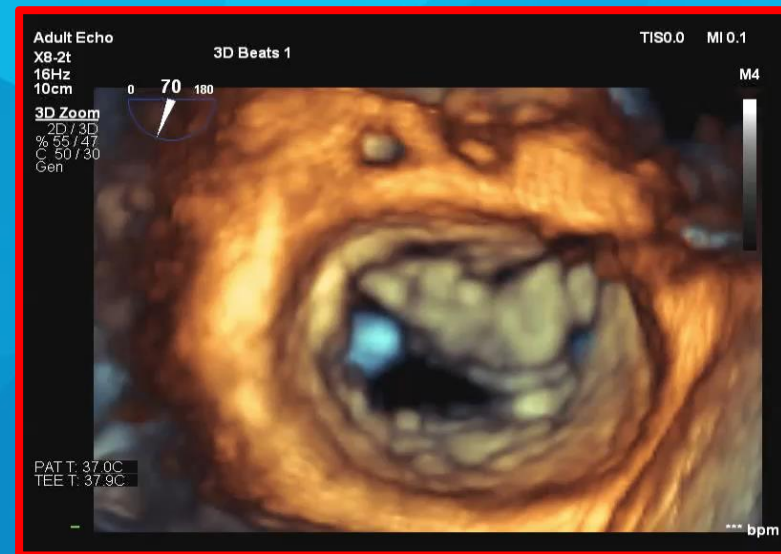
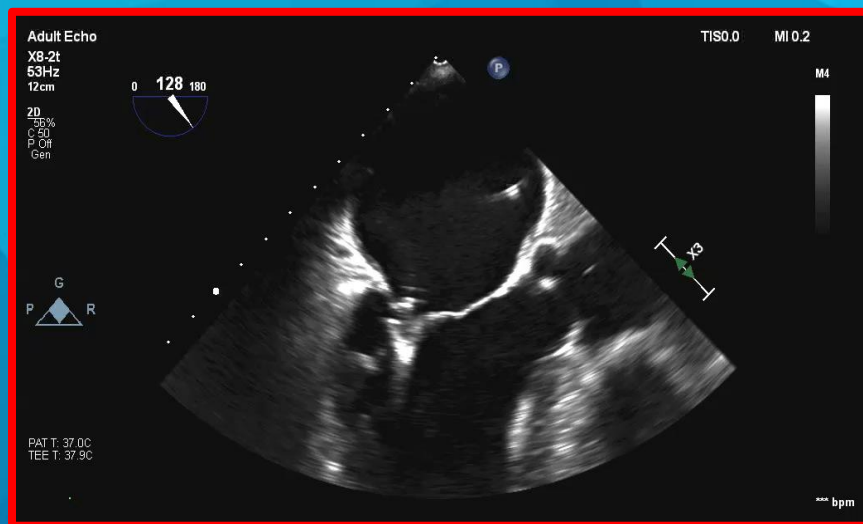
Screening Echo Assessment -1



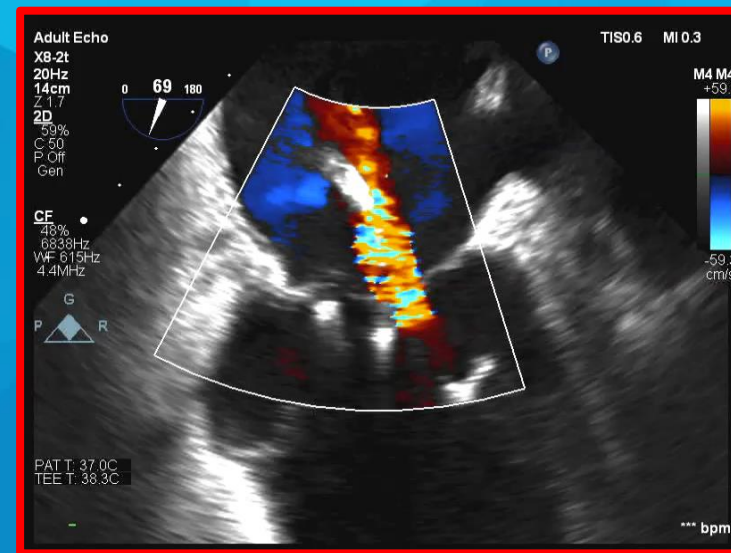
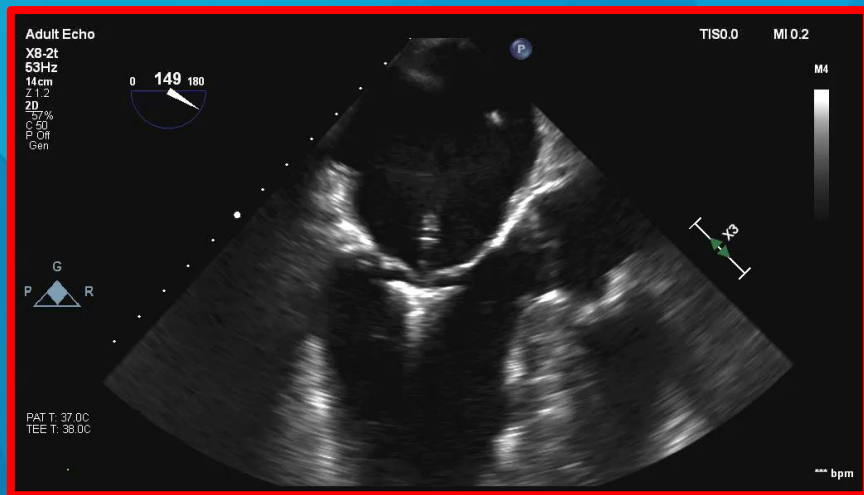
Screening Echo Assessment -2



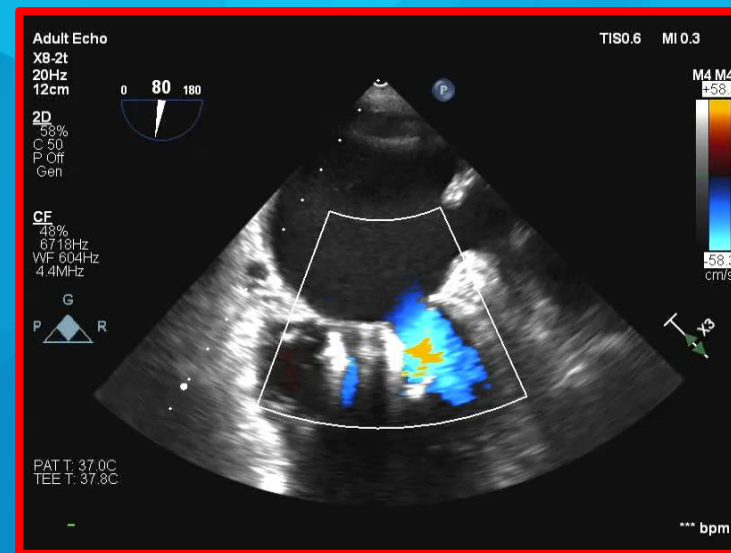
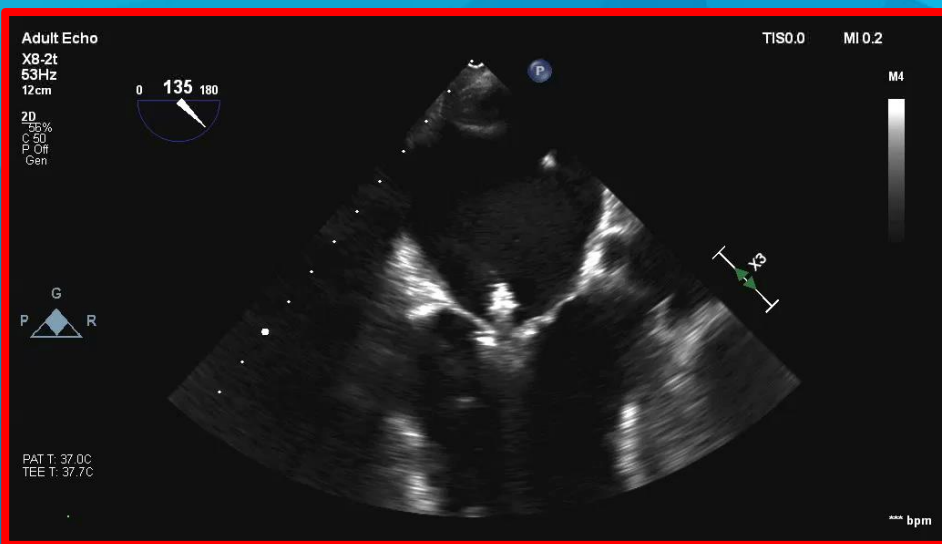
Strategy- NTR (zip and clip)



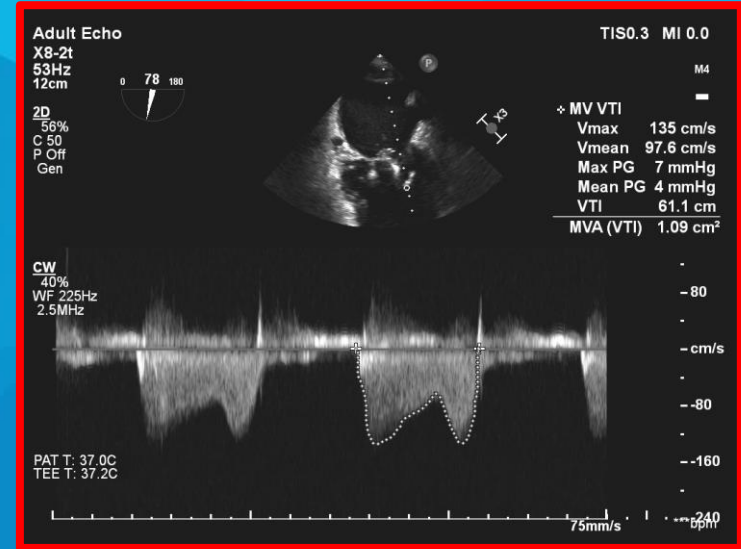
Isolation of Jet –lateral to clip



After “zip and clip” with 3 NT-R’s



Final Outcome



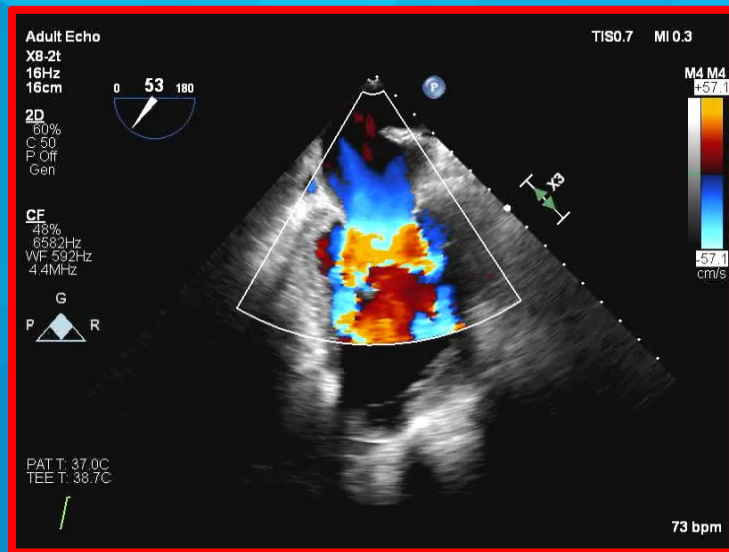
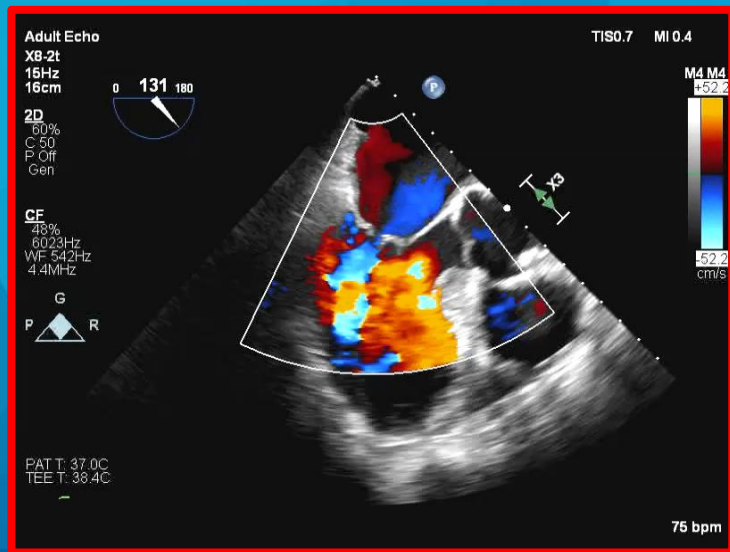
Clinical Outcome

- NYHA class 2 (I class improvement)
- Diuretic dose reduced with no congestion
- Mean gradient on TTE at 30 days 8 mm Hg (not an unusual finding)
- MR grade trace

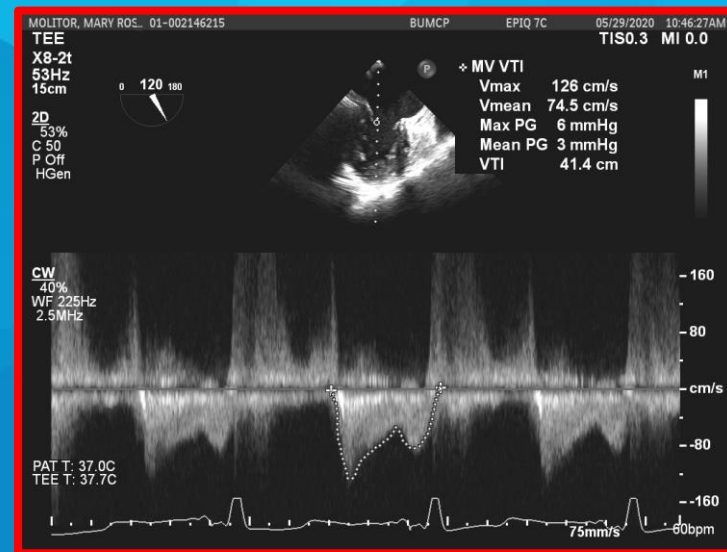
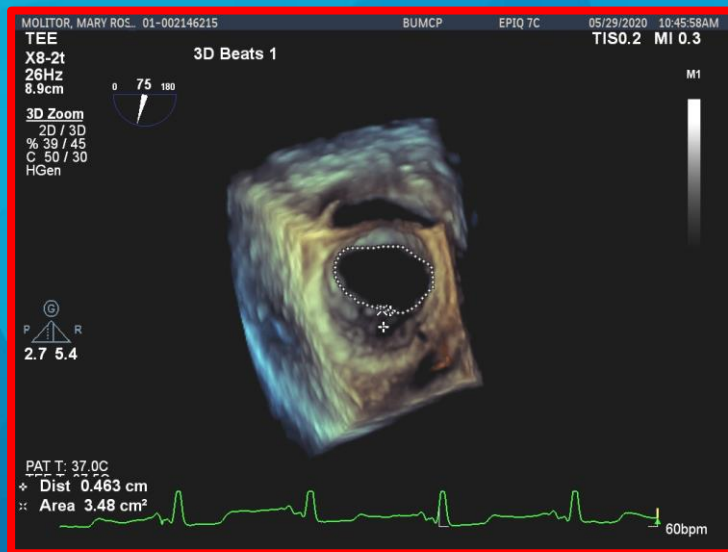
CASE Example-2

- 80 year old female
- ESRD
- Severe MR
- NYHA class 3-4 heart failure

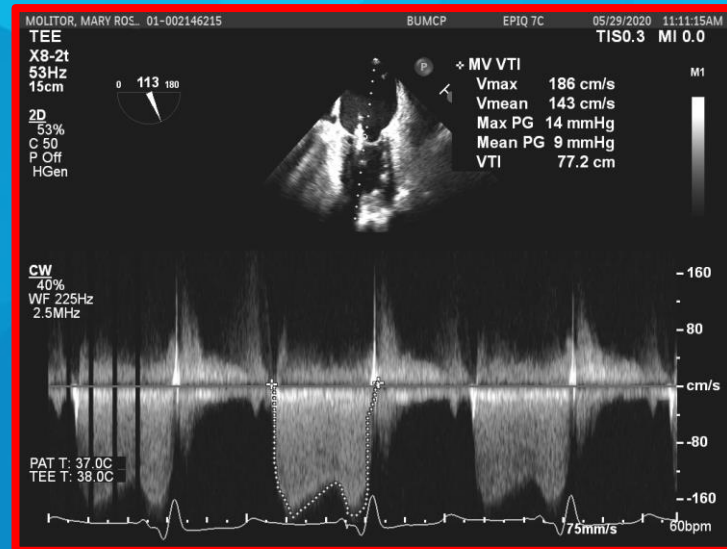
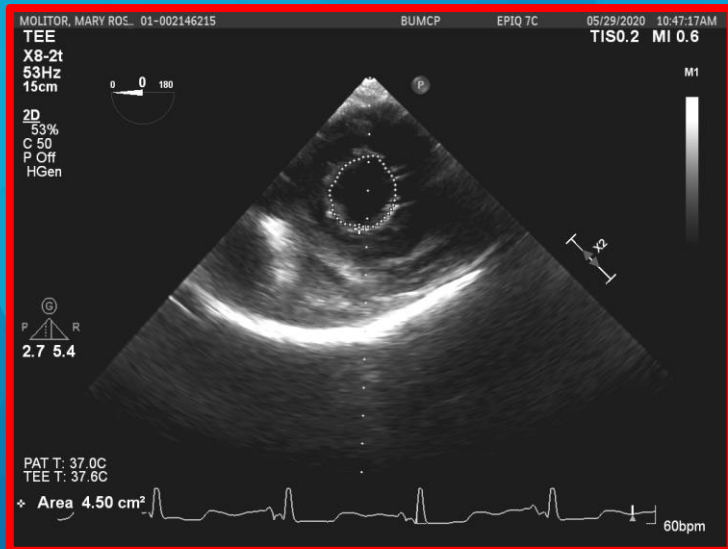
Baseline Echo



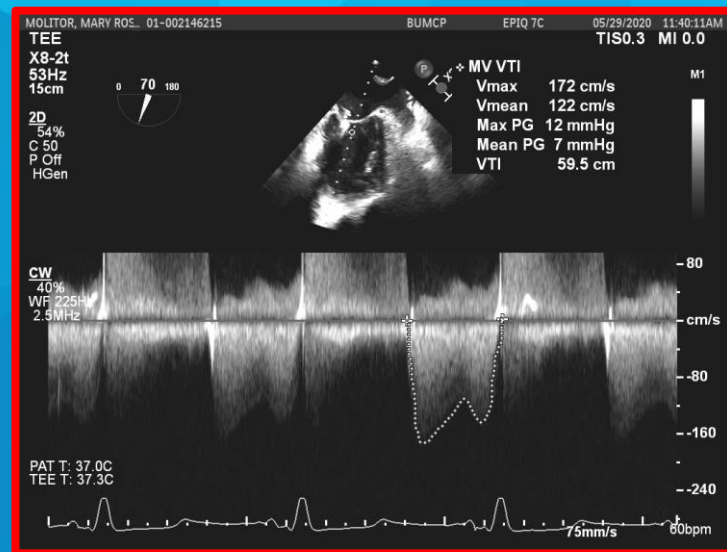
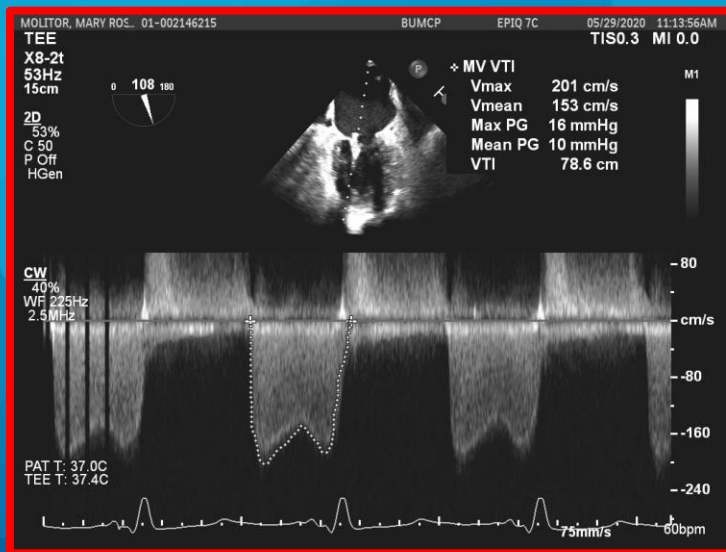
Baseline Echo MVA and Gradient



Single Clip-NTR Mean Gradient 9mm Hg



Best Gradient 7mm Hg



Clinical Course

- Clip procedure aborted
- Not eligible for TMVR trials because of ESRD (Tendyne and Intrepid)
- Not eligible for Sapien in mitral valve because not enough MAC
- Referred to hospice

