



Stress Echo Cases: ... in Valvular Heart Disease

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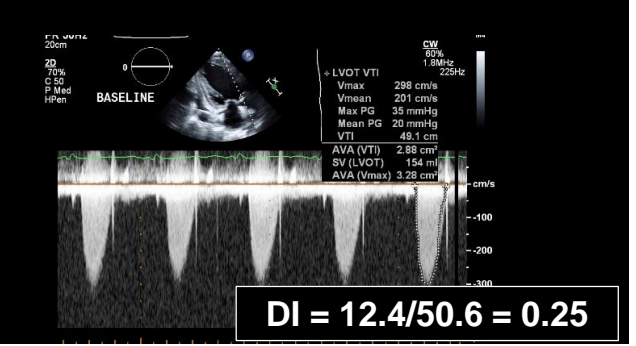
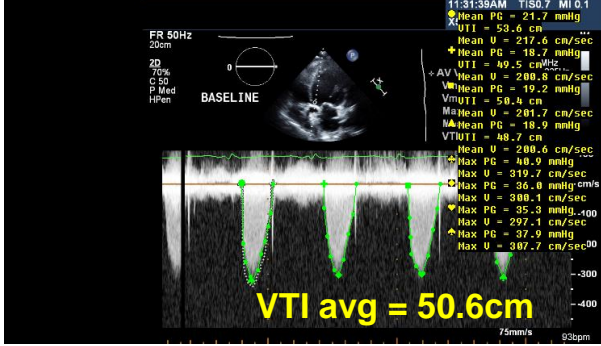
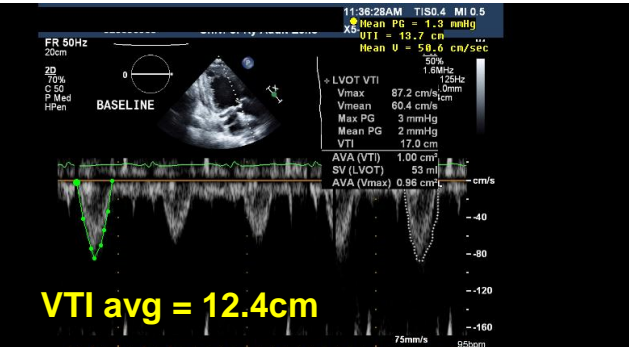
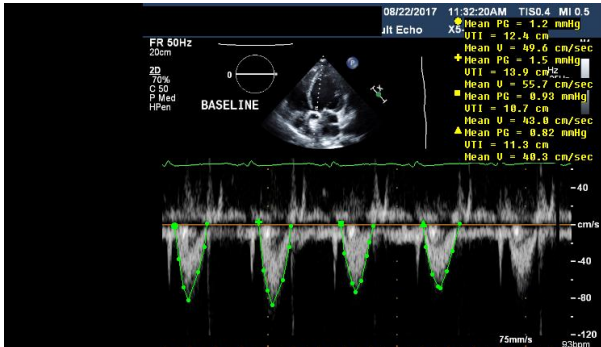
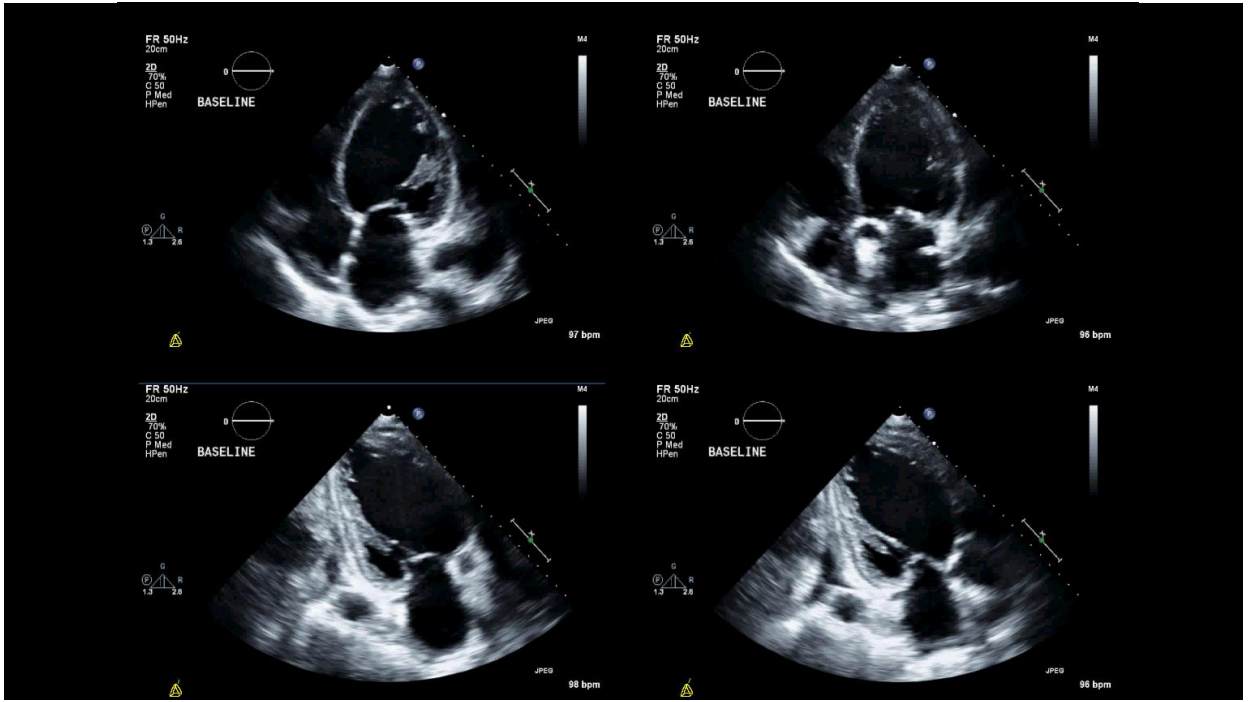
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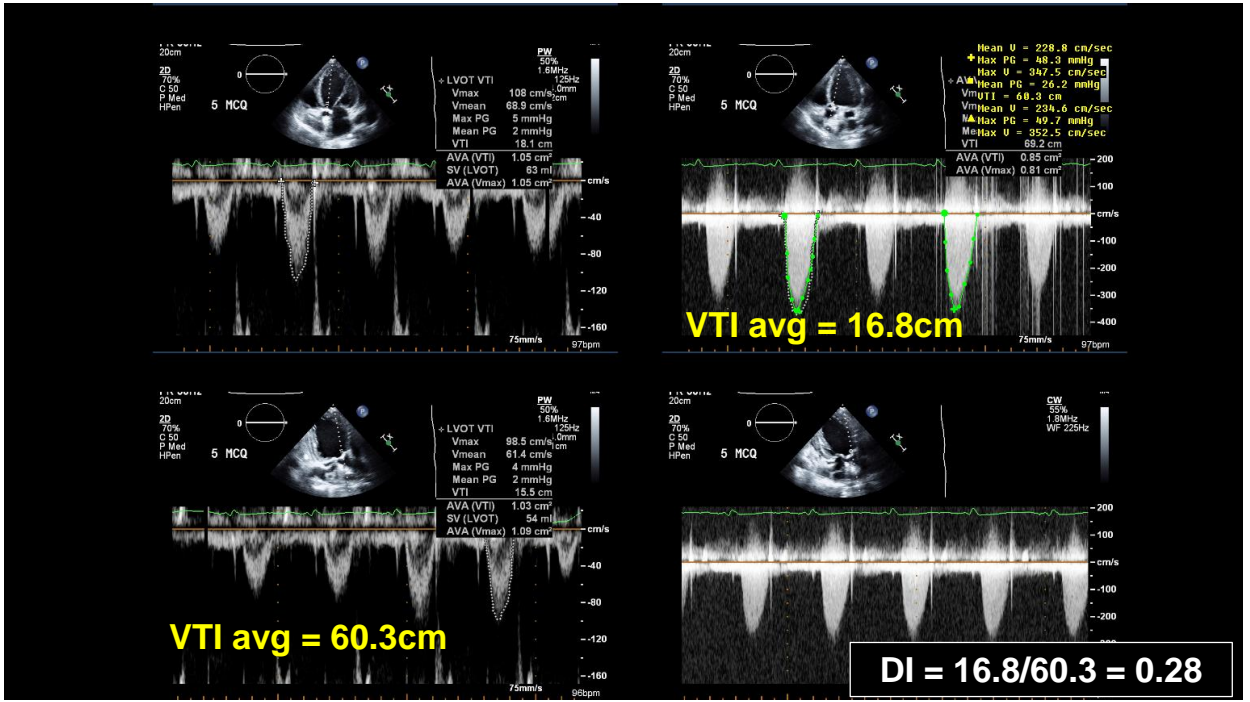
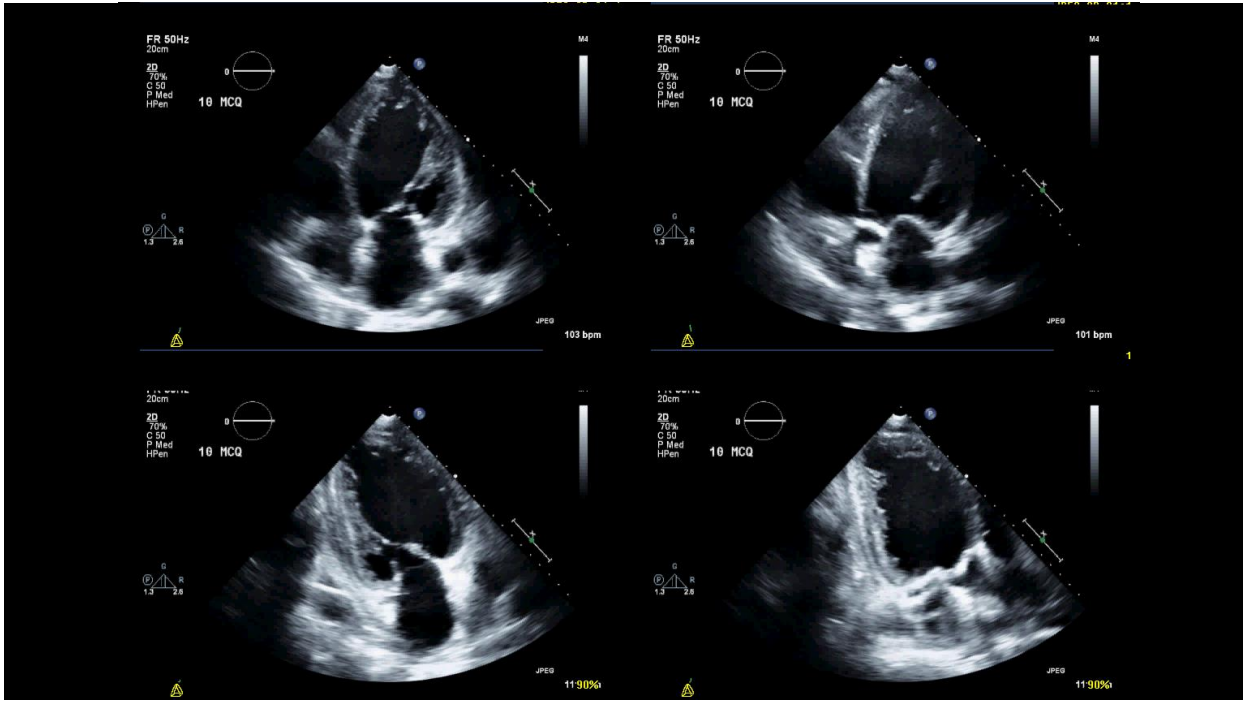


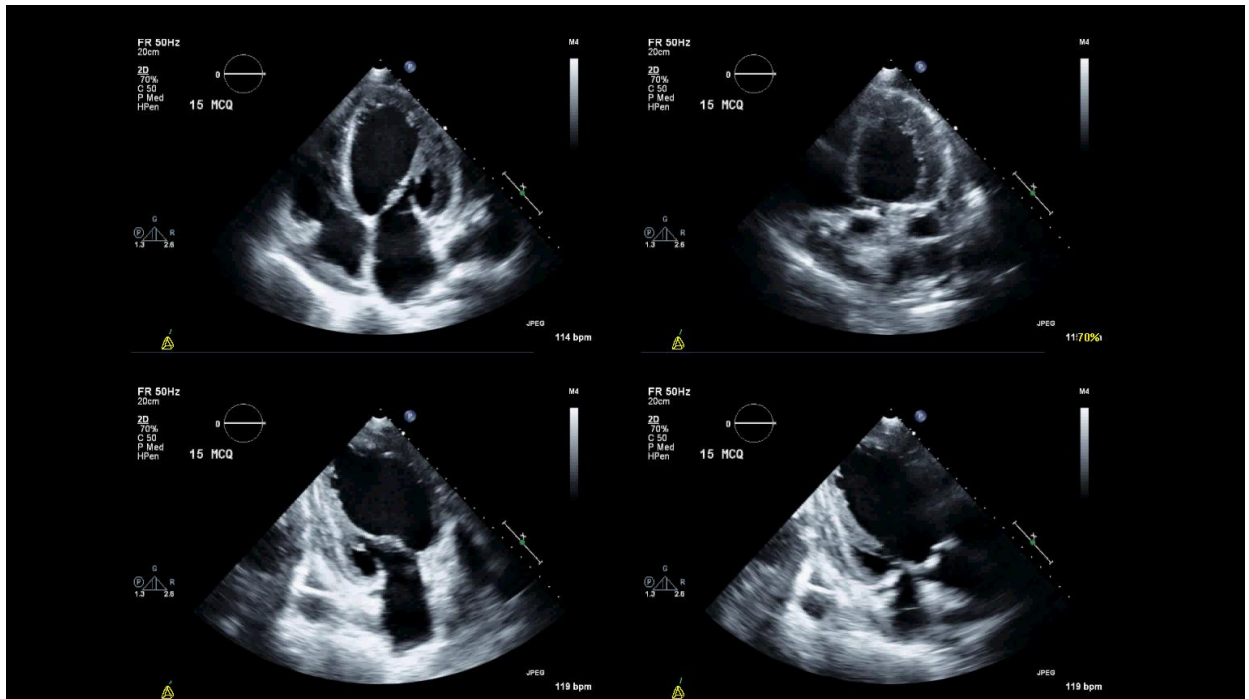
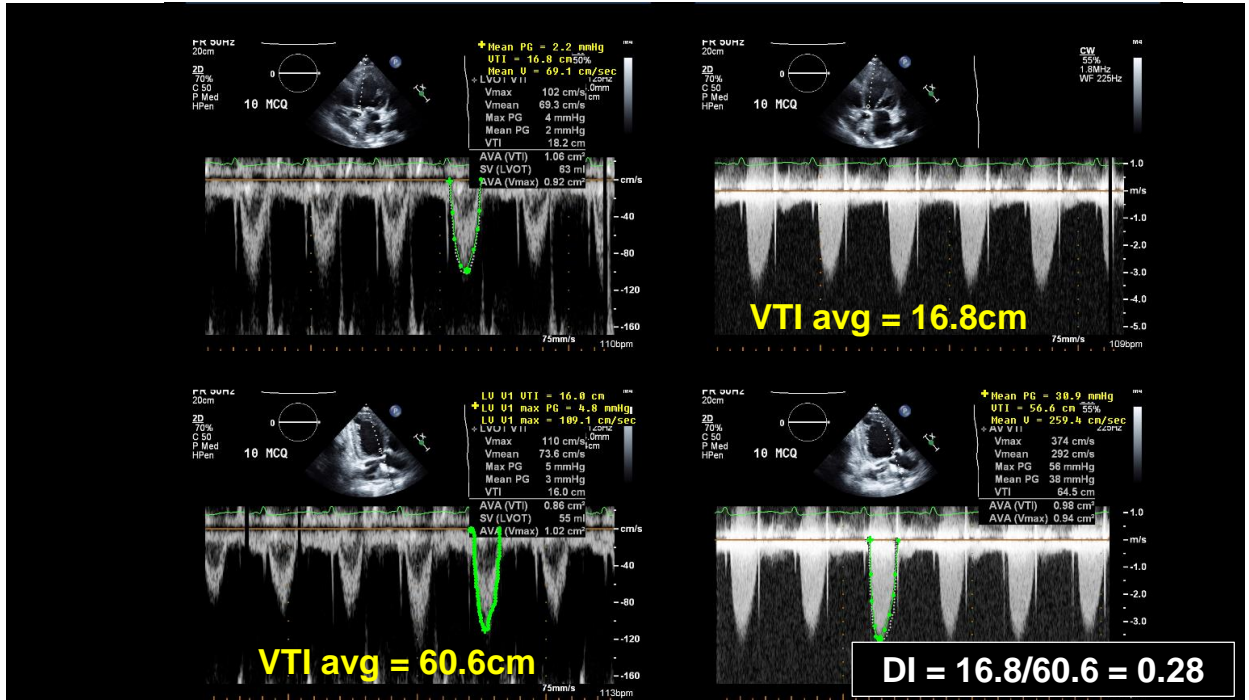
American Society of Echocardiography Sci Sessions, June 2016

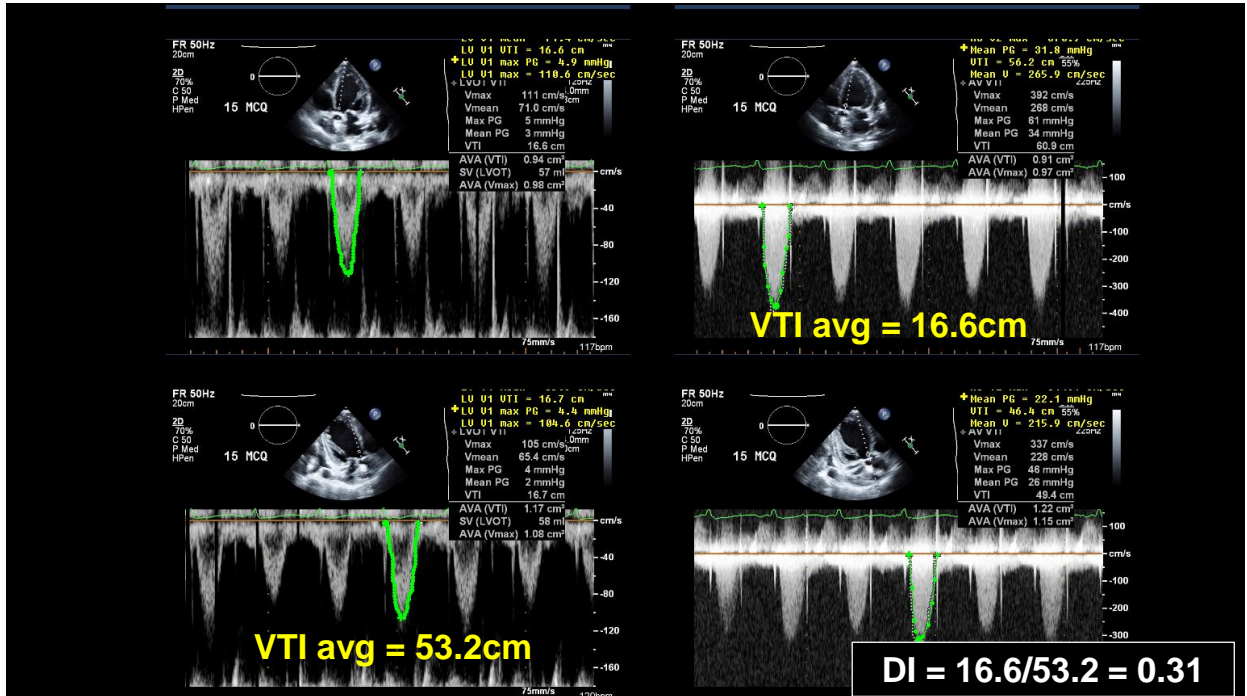
60F, NICM, severe AS

- ❑ LVEF 25%; COPD; AF; DM; Hypothyroidism
- ❑ Admitted with HF, CP, and VT (ICD fired)
- ❑ 131/81mmHg; HR 70bpm; BMI 23.4
- ❑ LVd = 74mm; AS mod (Max Gr = 31mmHg)
 - ? Low flow; low gradient severe AS?









Mean Grad 17-25mmHg increased 30-38mmHg

Max Grad 13-50mmHg increased 50-61mmHg

Stroke volume 39ml increased to 53ml

LVEF 22% increased to 28%

DI increased 0.25 to 0.31

Question

Best INTERPRETATION of these findings:

- Viable LV & Severe AS
- Viable LV & Pseudo-severe AS
- Non-viable LV & Moderate AS
- Non-viable LV & Mild AS
- No AS

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Max Grad 13-50mmHg increased 50-61mmHg

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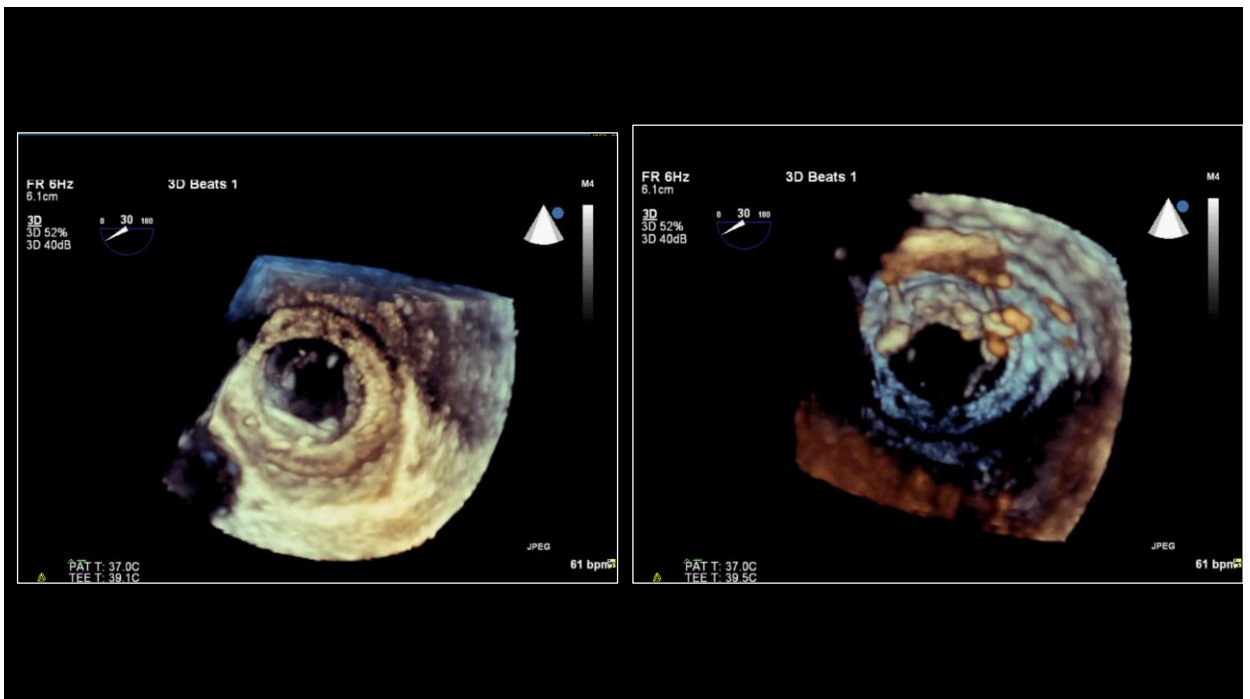
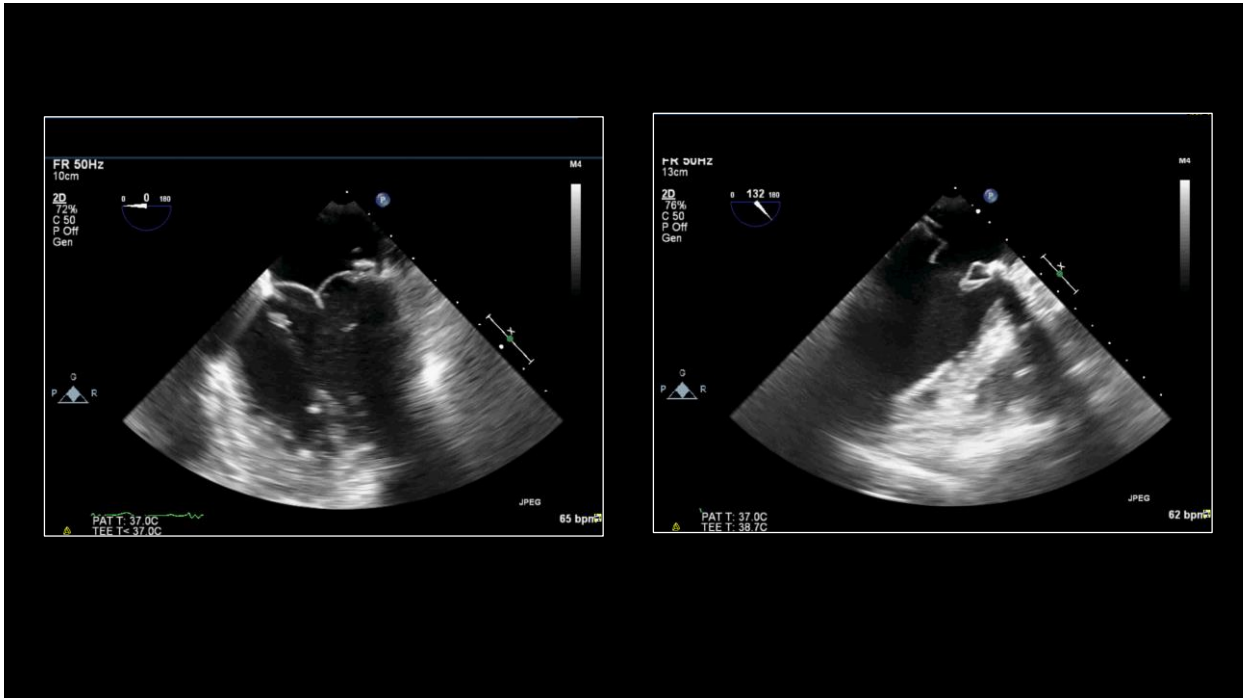
Question

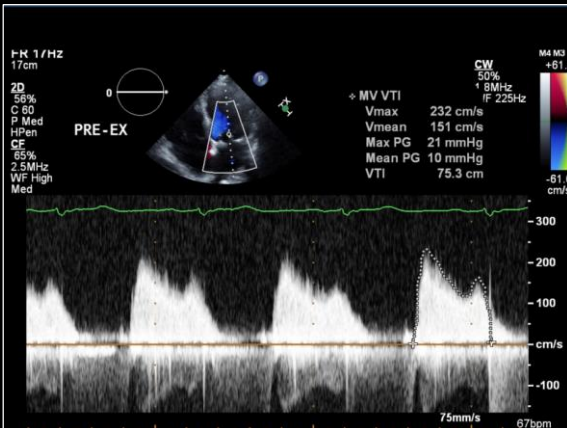
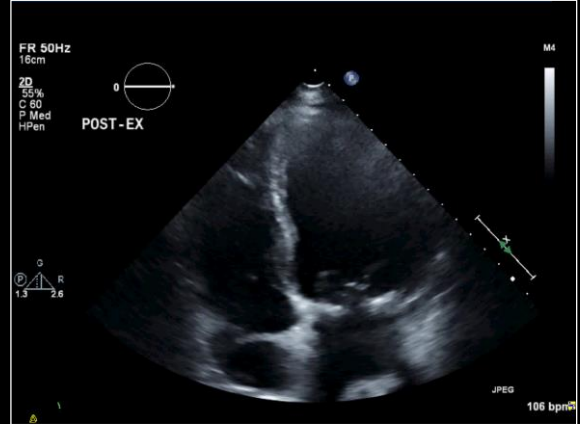
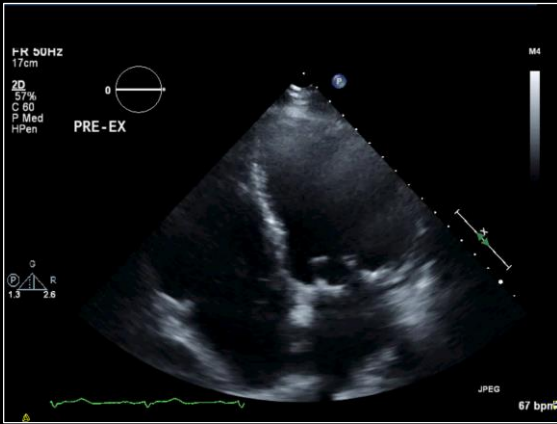
Best INTERPRETATION of these findings:

- A. **Viable LV & Severe AS**
- B. **Viable LV & Pseudo-severe AS (SV increased 26%)**
- C. **Non-viable LV & Moderate AS**
- D. **Non-viable LV & Mild AS**
- E. **No AS**

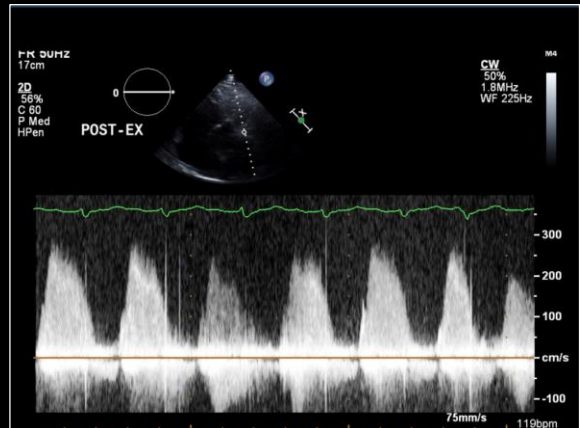
67M s/p MVR 8 months ago

- Severe symptomatic MR (stage D); AF; HBP
 - 33mm pericardial valve
 - MAZE, LAA ligation
- Well until 1 month ago- progressive dyspnea
- Echo, TEE, and then Stress echo was done

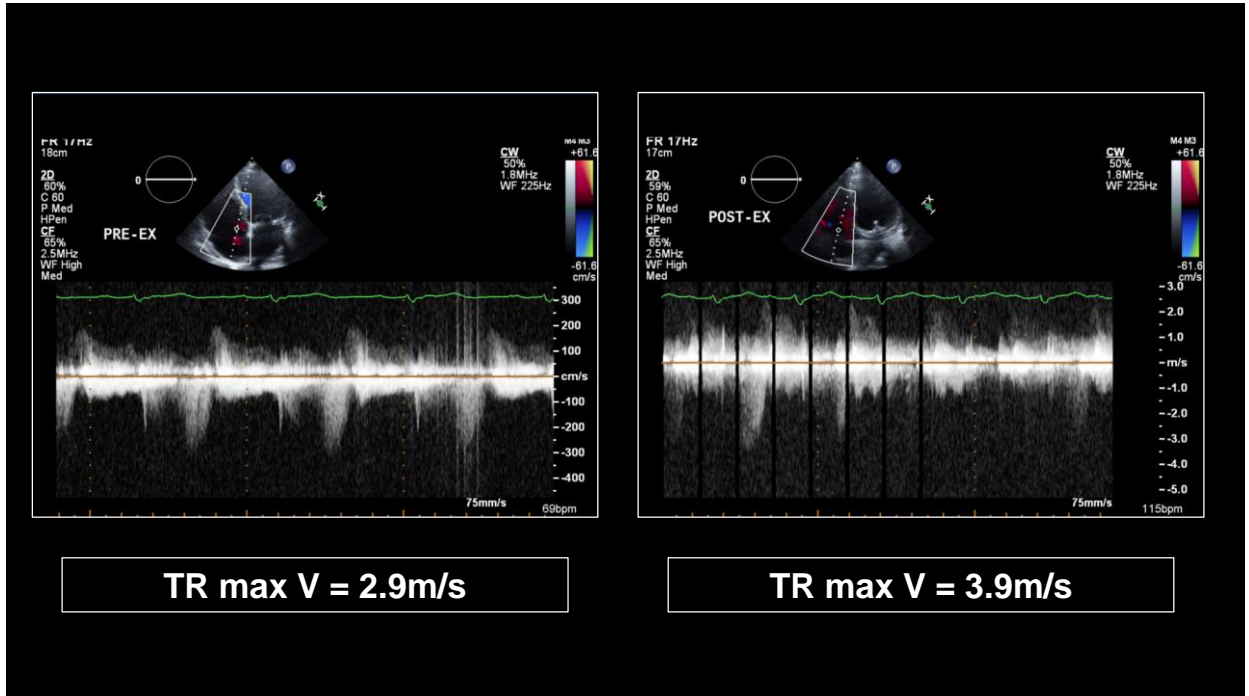




Mean MV grad = 10mmHg



Mean MV grad = 22mmHg



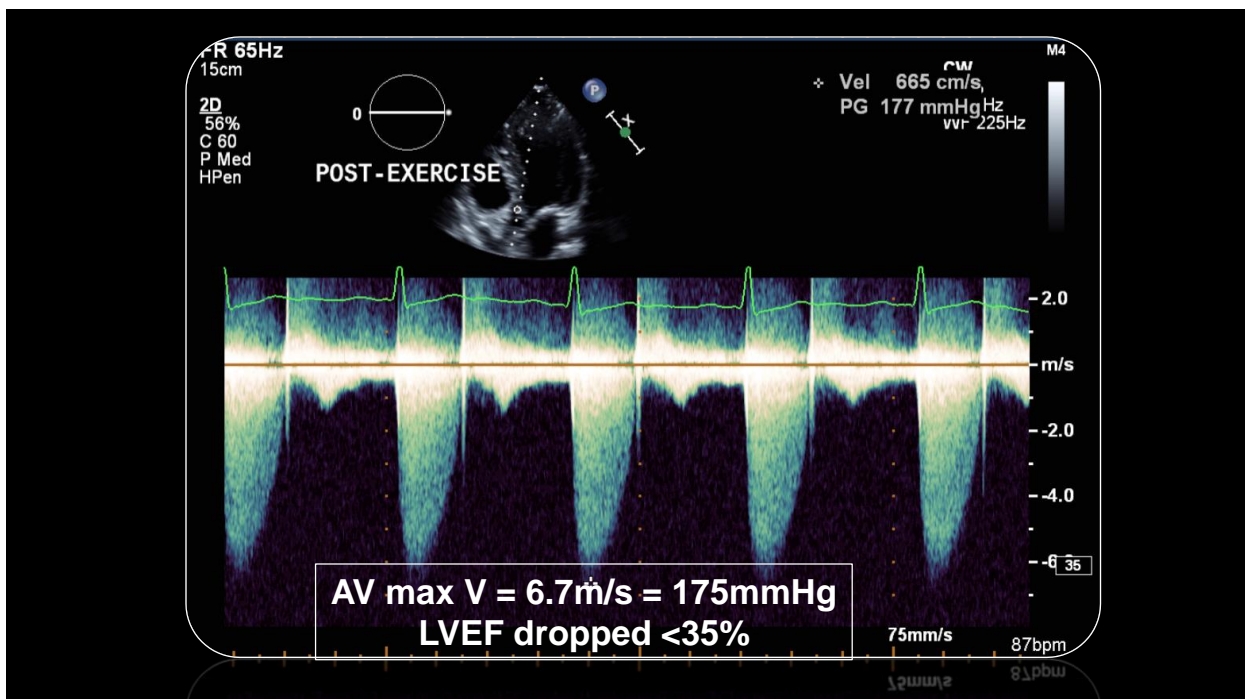
Operative findings

□ Mitral valve prosthesis:

“From ventricular side, native leaflets were thickened, inflamed and there was ingrowth to the posterior leaflet causing restriction”

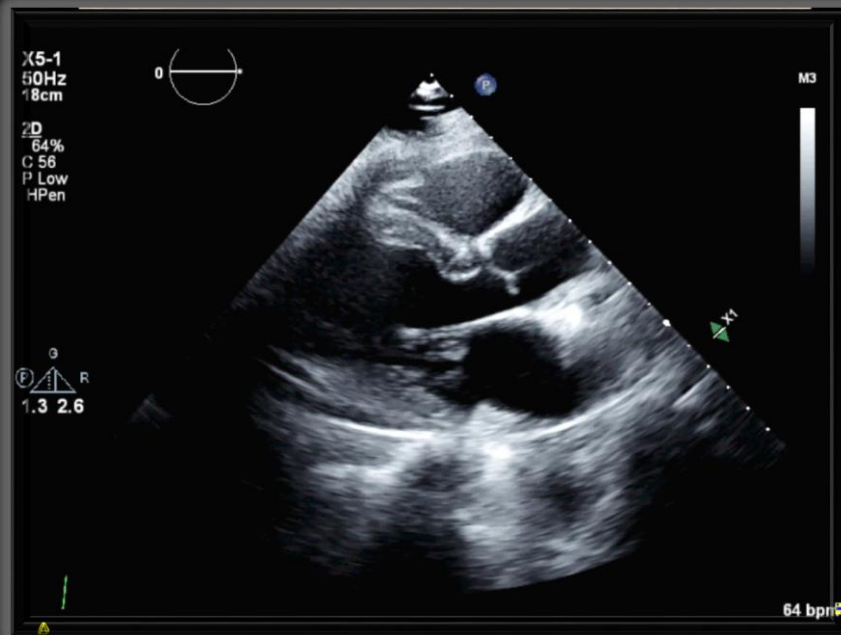
Exercise Doppler asymptomatic AS

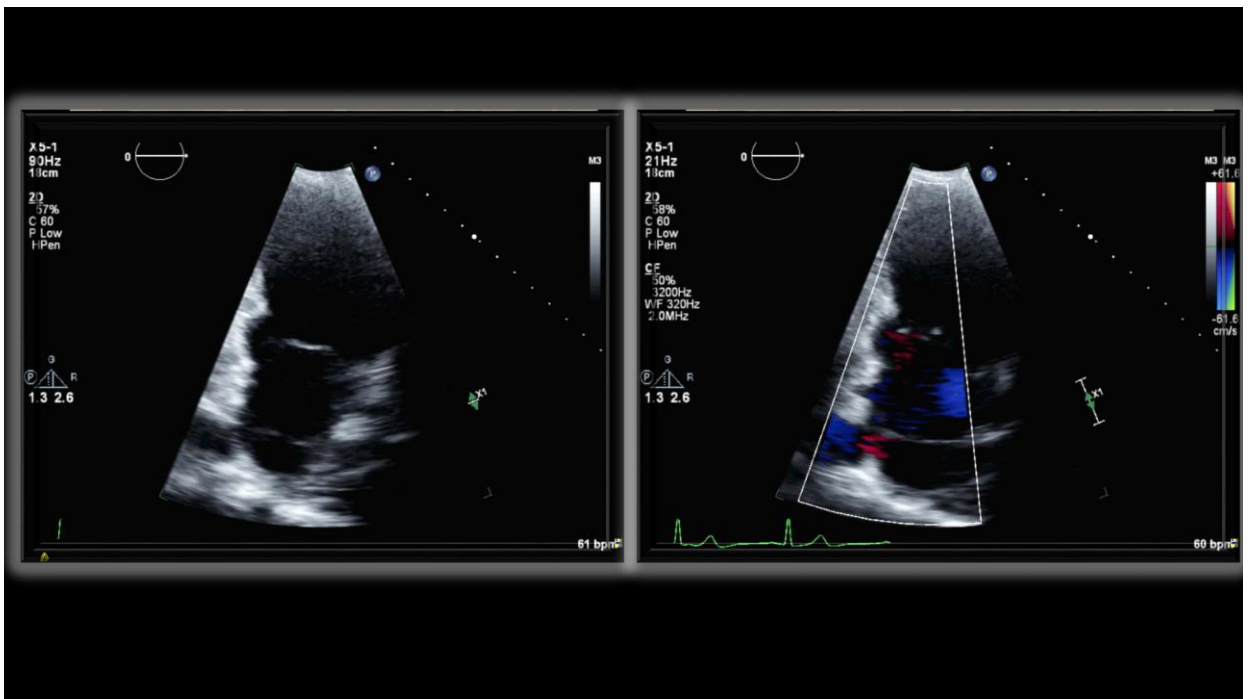
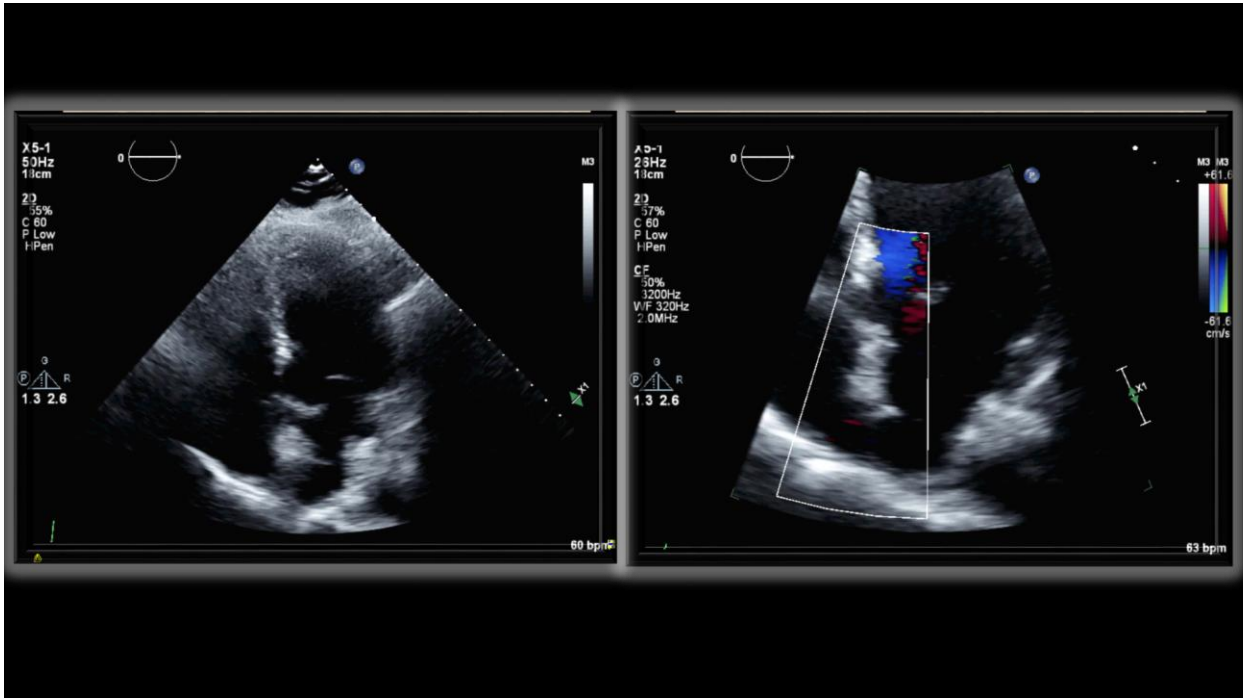
- 41M, BAV with resting max gradient ~35-40
- Denies symptoms; physically active
- Exercise: TM Bruce Protocol – 6' 22"
 - Fatigue and mild dyspnea; no CP
 - Normal HR; blunted BP response
 - ECG with mild ST depression laterally

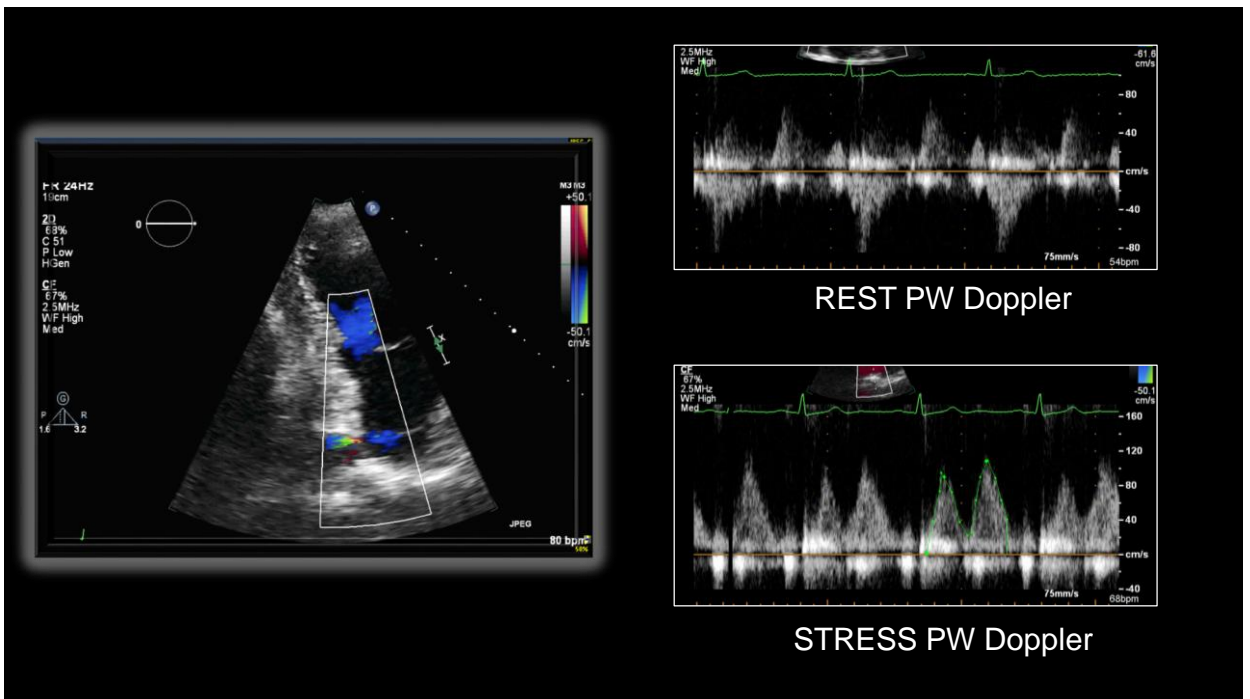
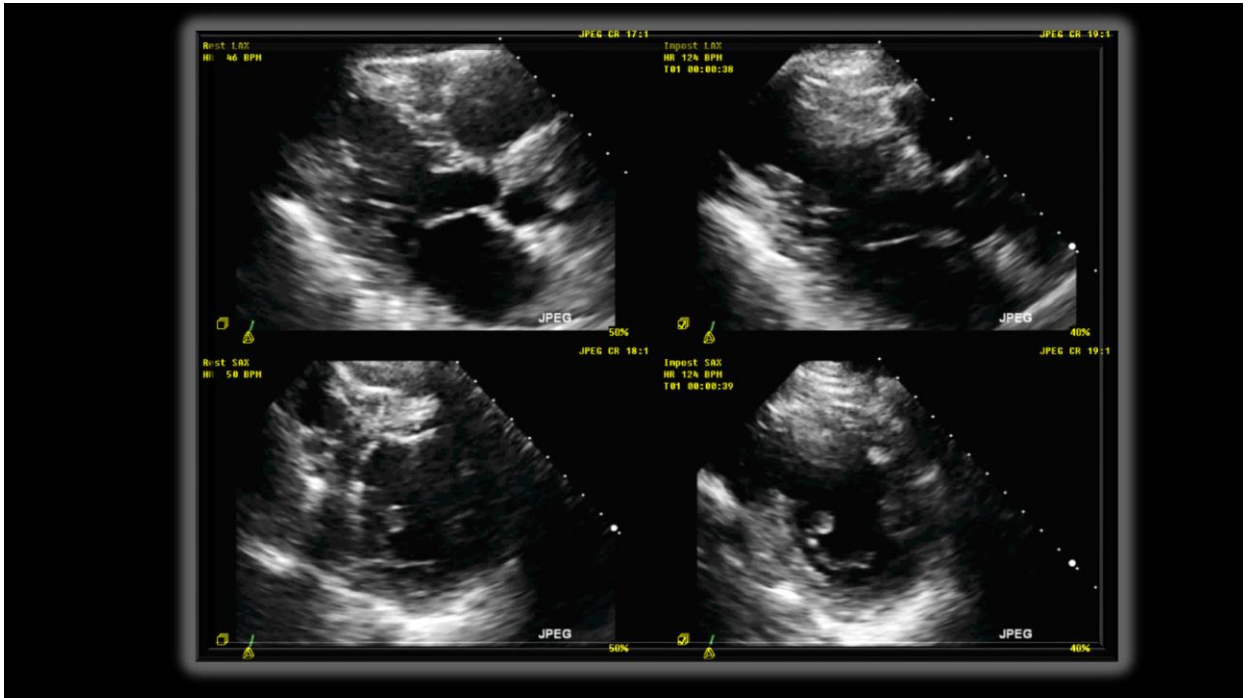


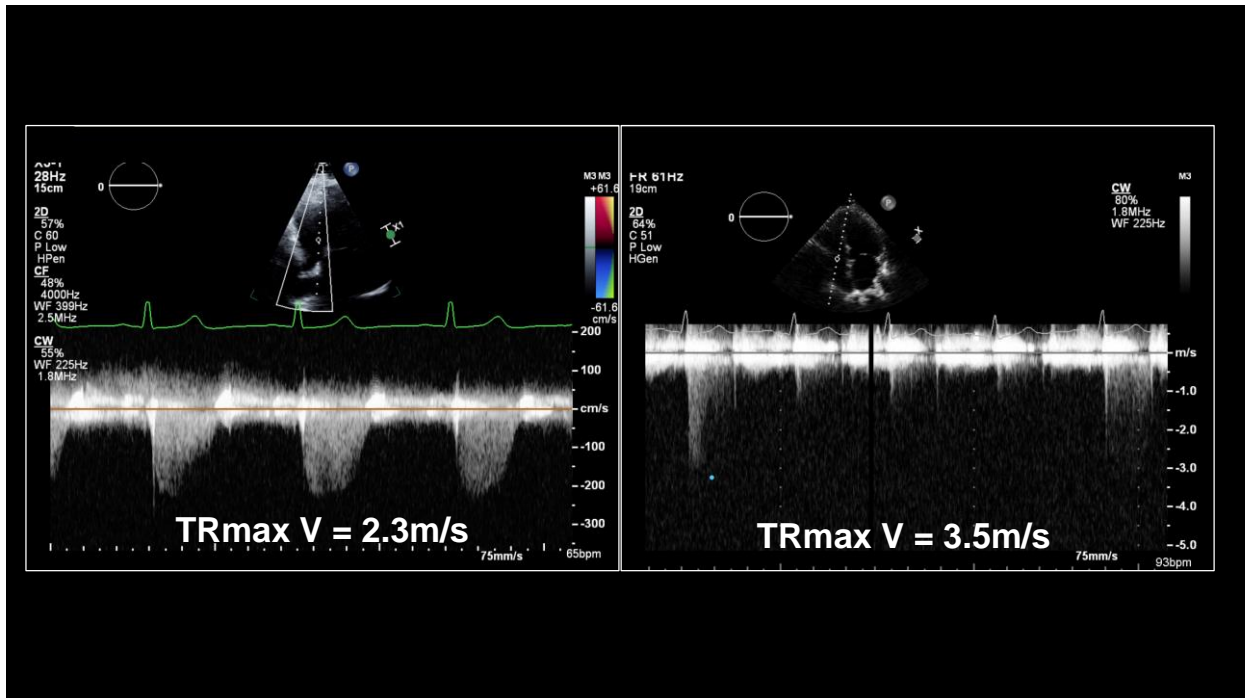
Back up case - unknown

- ❑ 42F; consulted for worsening DOE
 - No PMH and 2 well children
- ❑ Echo with normal global / regional LV
- ❑ SHOW IMAGES









Cor Triatriatum

- ❑ Common pulmonary chamber separated from LA
- ❑ ~75% - additional CHD lesions (ASD)
- ❑ Severe obstruction - presents early childhood (PH)
- ❑ Mild obstruction presents in adulthood
 - Atrial fibrillation or TIA/CVA or DOE
- ❑ Occasionally, these are incidental findings