

Case # 1



- 77 year old male; hx of DM, HTN, COPD
- Presents to an outside hospital with the chief complaint of chest pain radiating to his jaw
- Known CAD history (stents placed 6 years previously)
- Cath showed severe 3-vessel disease
- Diagnosed with non-STEMI
- TTE reveals normal LV systolic function; moderate LVH, and a thickened aortic valve with a mean transvalvular gradient of 24 mm Hg (peak velocity = 3.2 m/s)

Case # 1



- Past medical history
 - HTN, hyperlipidemia, tobacco abuse (65 pack year history)
 - Carotid artery disease with previous endarterectomy
- Scheduled for CABG and AVR
- Labs
 - Hb 10 g/dL
 - Creatinine 1.6 mg/dL

Case # 1



Case # 1

Echo Data

- Peak Velocity = **3.2** m/s
- Mean gradient = **24** mm Hg
- Calc AVA = **1.1** cm²
- DI = **31**%

Case # 2 Audience Question #3



What is your advice to the surgeon regarding the tricuspid?

- 1. Leave it alone
- 2. Repair TV
- 3. Complete mitral repair and check TR after CPB
- 4. Replace TV

Case # 2 Audience Question #3



What is your advice to the surgeon regarding the tricuspid?

- 1. Leave it alone
- 2. Repair TV
- 3. Complete mitral repair and check TR after CPB
- 4. Replace TV

Case # 2

Two days later...



Case # 3

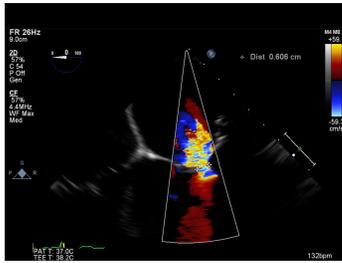
- 72 year old male
- Presents with worsening CHF
- Workup reveals
 - 3 vessel disease
 - Depressed LV function
 - 4+ MR

Mr ABC is a 72yo from XYZ transferred for ischemic cardiomyopathy EF 30-35%, 2v CAD and severe ischemic MR. His workup included echo with EF 30-35%, 4+ MR.

He has mitral annular dilation with resultant poor leaflet coaptation, severe MR. He has what appears to be a codominant system with a visible large OM target, suggestion of PDA and LPL targets that look small. LAD is clean.

Case # 3

- 72 year old male
- Presents with worsening CHF
- Workup reveals
 - 3 vessel disease
 - Depressed LV function
 - 4+ MR



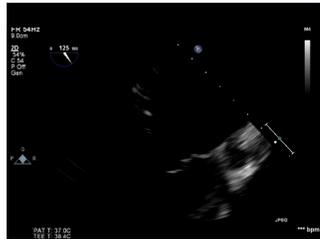
Duke Anesthesiology
Duke University School of Medicine

Scheduled for elective CABG and mitral valve repair

#EchoHall

Case # 3

- 72 year old male
- Presents with worsening CHF
- Workup reveals
 - 3 vessel disease
 - Depressed LV function
 - 4+ MR



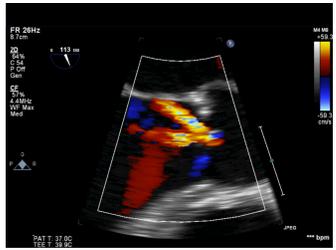
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Case # 3

- 72 year old male
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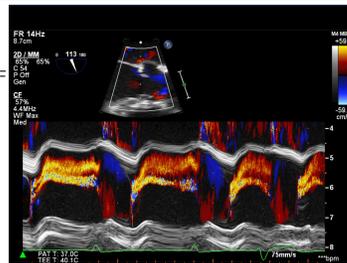
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#EchoHerald

Case # 3

- 72 year old male
- Presents with worsening CHF
- Workup reveals
 - 3 vessel disease
 - Depressed LV function
 - 4+ MR



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#EchoHerald

Case # 3

Audience Question #6



What is your advice to the surgeon for valve surgery?

- 1. MV repair
- 2. MVR + AVR
- 3. MV repair + AVR
- 4. AVR only

Case # 3

Audience Question #6



What is your advice to the surgeon for valve surgery?

- 1. MV repair
- 2. MVR + AVR
- 3. MV repair + AVR
- 4. AVR only
