Challenging Cases

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Disclosures

No disclosure relevant to this presentation

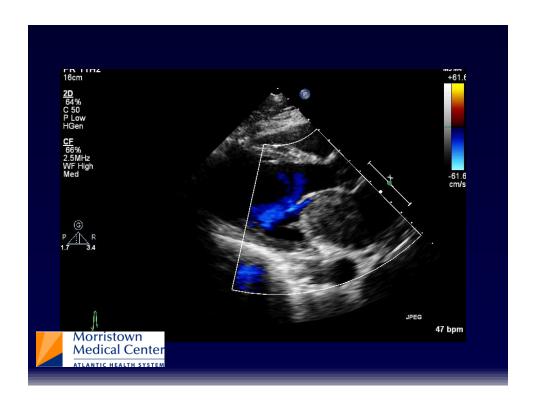


CASE

- 22 yo male with no prior medical history presents with chest pain
- ROS remarkable only for short term use of anabolic steroids
- 2D echo ordered



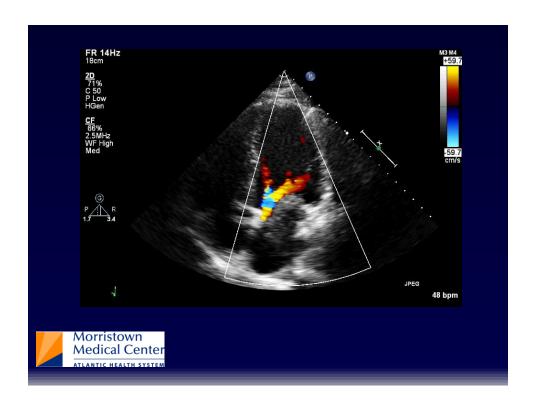


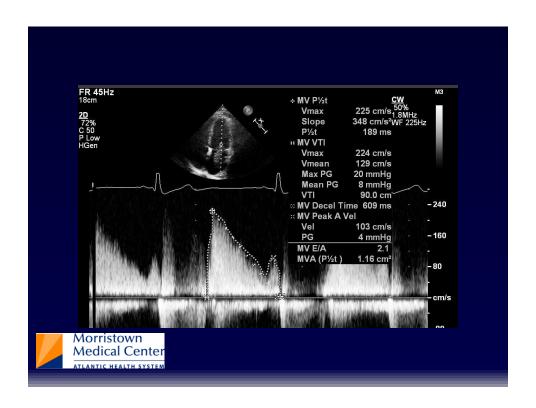












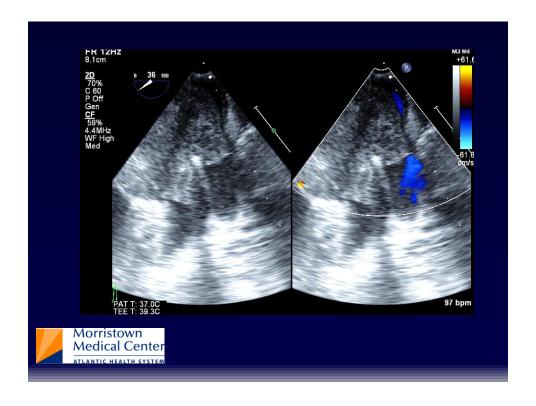


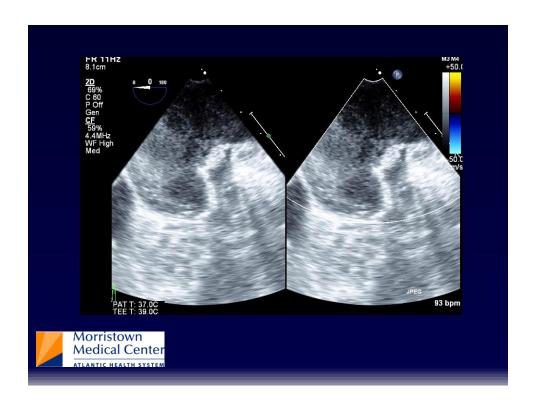


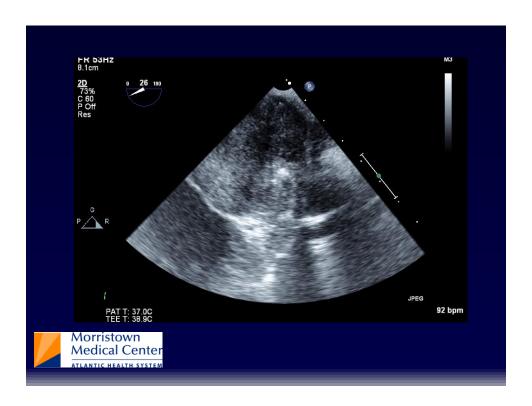




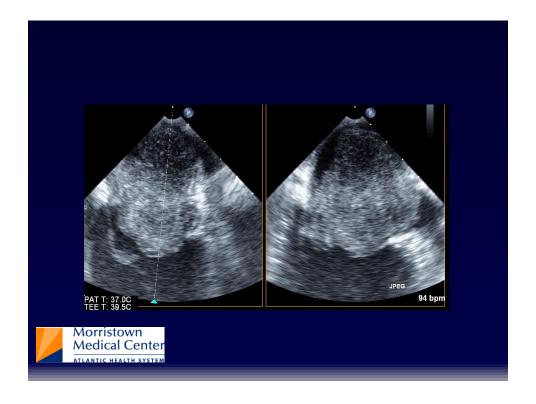


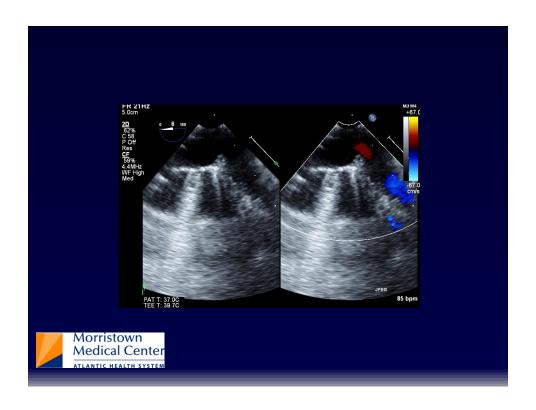


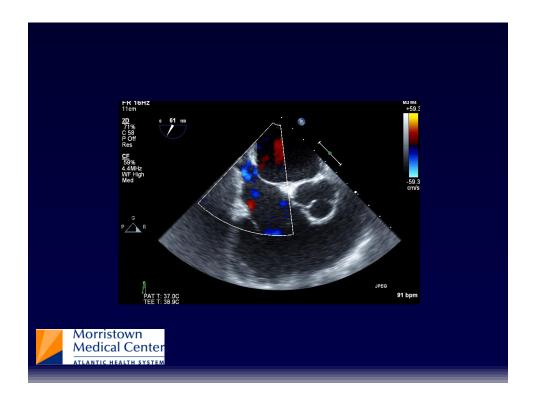






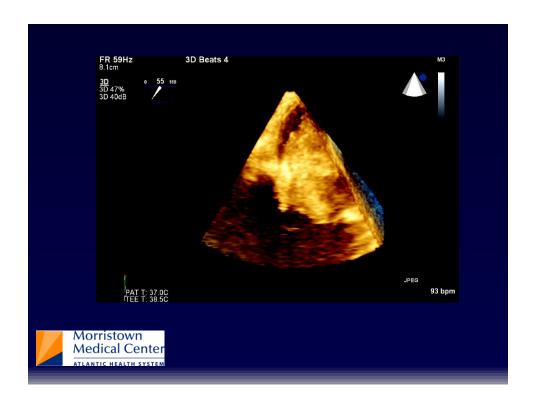


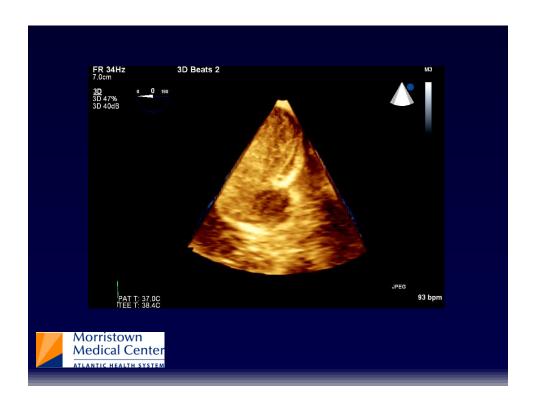


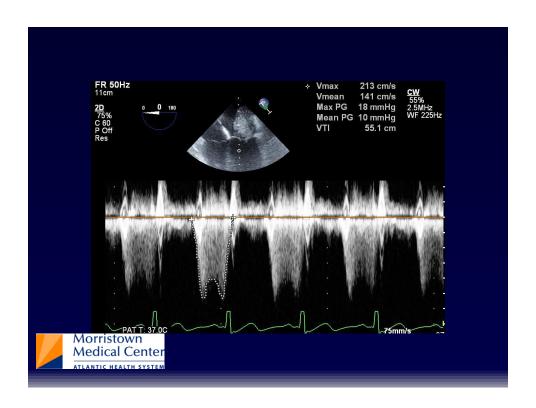










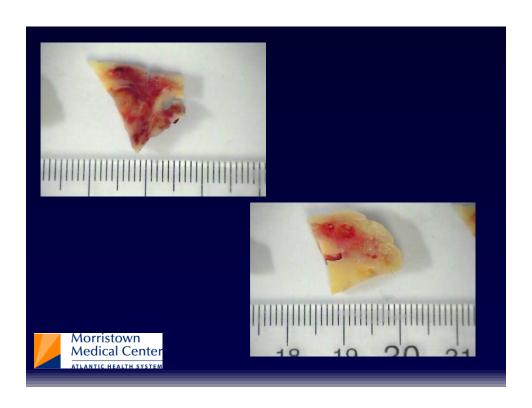


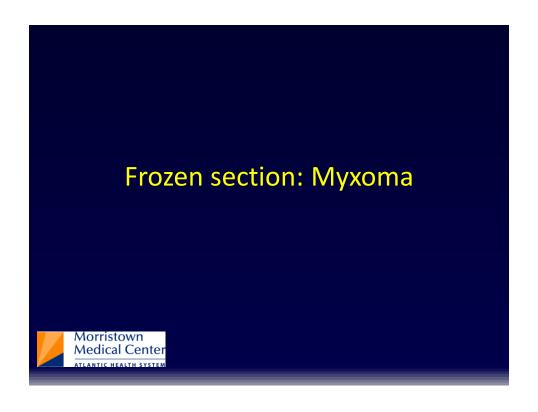


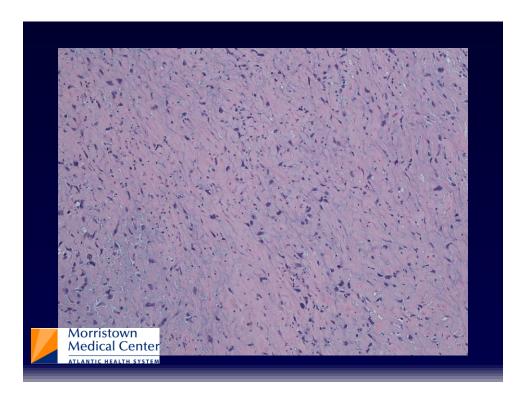
Case Continued

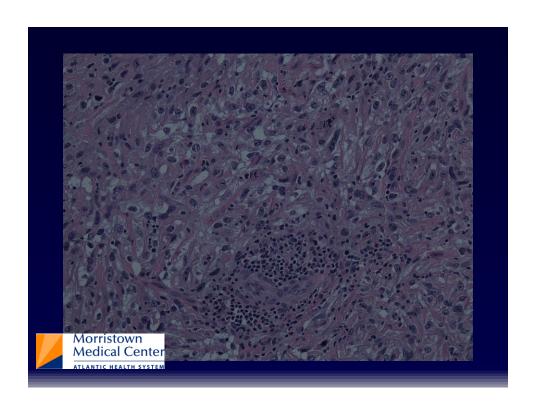
- CT confirmed intracardiac mass
- No other abnormalities (search for evidence of primary tumor)
- Surgical excision performed



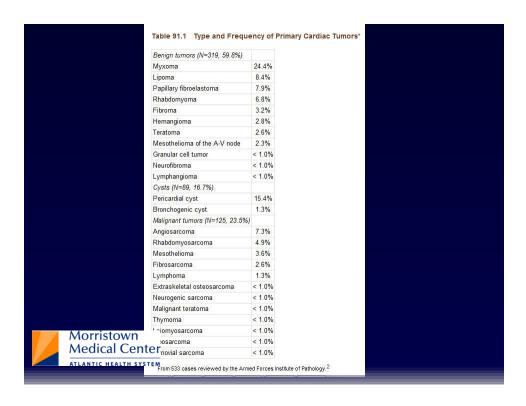


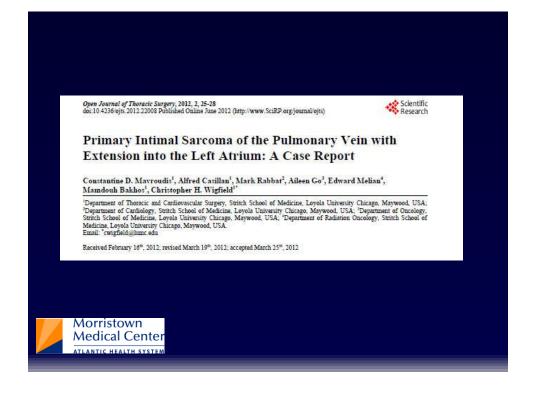












Take Home Message

- Not all left atrial masses are myxomas
- Pulmonary venous invasion/extension is a marker of malignancy



Another Diagnostic Conundrums

With thanks to Leo Marcoff, MD



Case History

- 54M with history of HTN and repaired coarctation of the aorta (age 7)
- Several days of progressive shortness of breath, worse when lying flat
- No cough or fever
- No chest pain



Physical Exam

- BP 155/70, HR 83, O2 sat RA =96%
- Clear lungs
- Regular heart rhythm, No murmurs, rubs, or gallops
- No leg edema



Diagnostic Studies

- EKG –NSR, left anterior fascicular block, no ischemic changes
- CXR –normal
- CT chest small infiltrate in the right upper lobe
 - started on abx



Diagnostic Studies

- TTE calcified mobile mass in the left ventricle attached to papillary muscle
- Transferred to our center for further management
- TTE reviewed Cardiac MRI for evaluation of LV mass

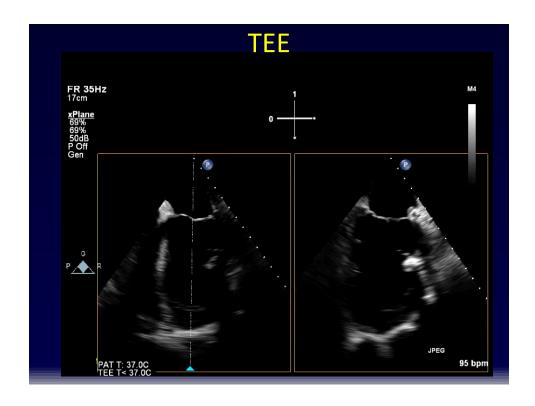


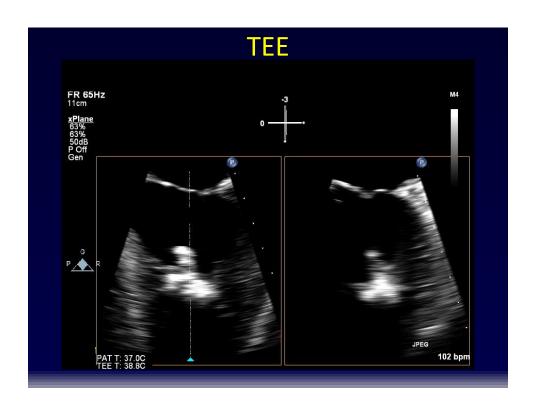
Cardiac MRI

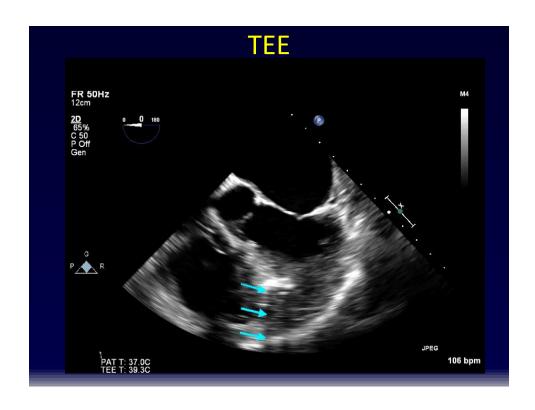
- Technically limited due to premature beats
- 11 x 9 mm mass adjacent or attached to the anterolateral papillary muscle
- Unlikely to be fat
- Thrombus versus mass
- TEE to evaluate further

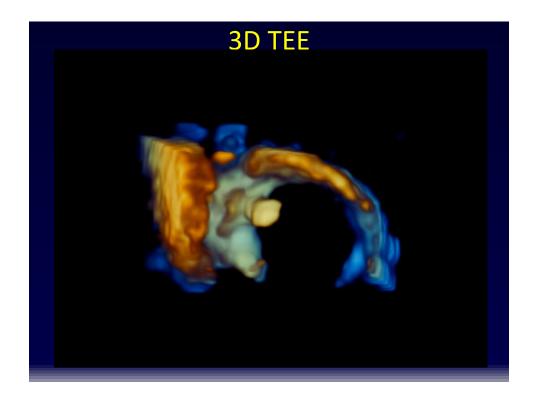


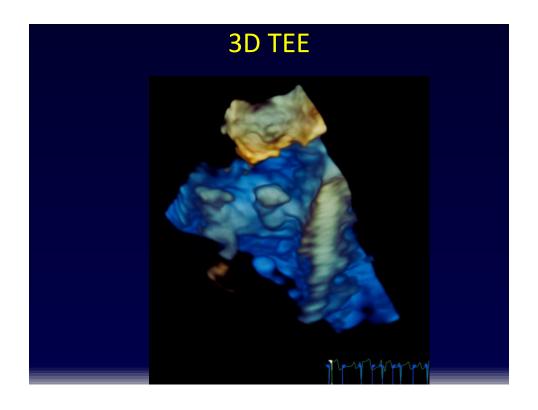


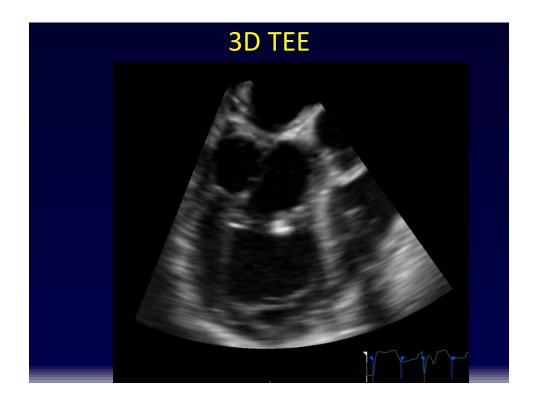


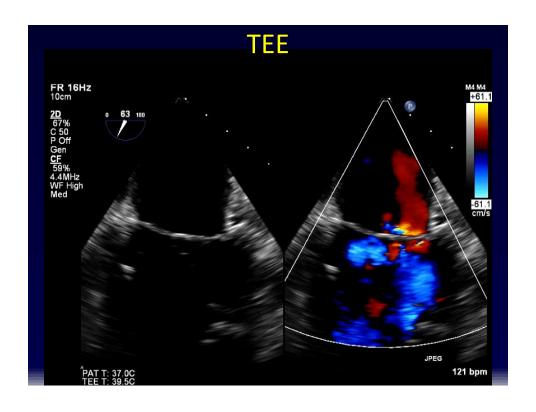


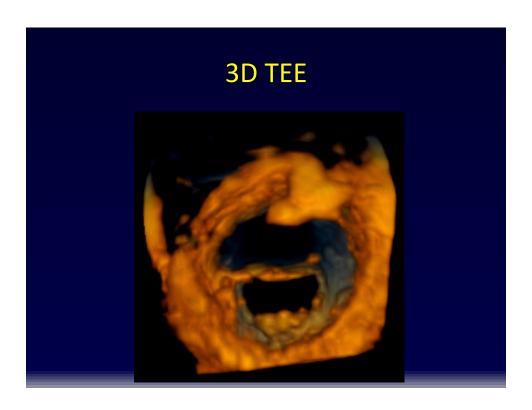


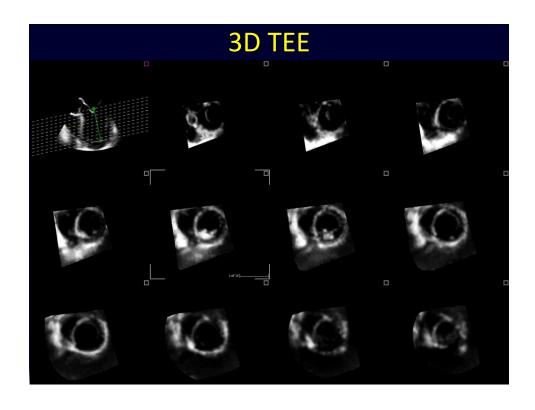


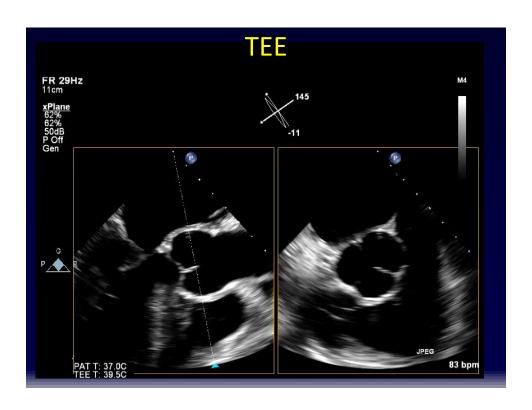


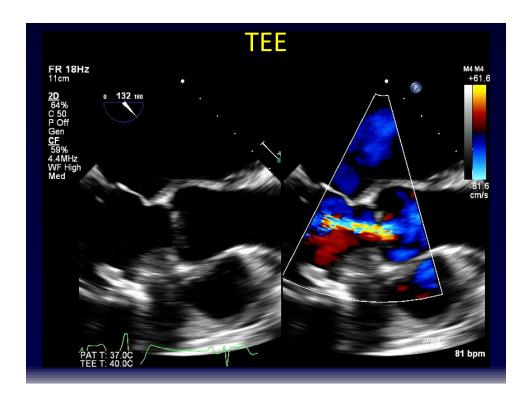


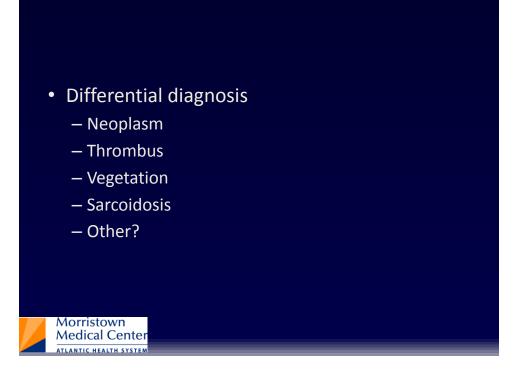












Management

- Diagnostic uncertainty
- Likely embolic risk
- CT surgery consulted
- Resection of left ventricular mass through aortotomy and aortic root
- Total bypass time of 36 minutes







Diagnosis

- Calcified nodule, suggestive of a calcified mural thrombus also known as <u>Cardiac</u> <u>Calcified Amorphous Tumor</u>
- No evidence of a neoplastic process.
- No evidence of sarcoidosis.

