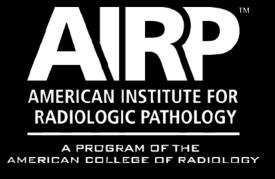
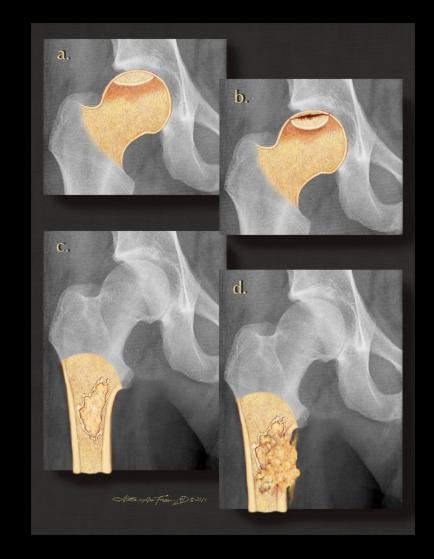
# Best Cases of the AIRP

Oct-Nov 2018



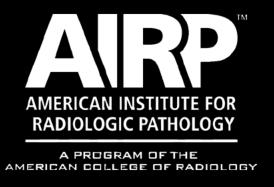
#### Musculoskeletal Best Case

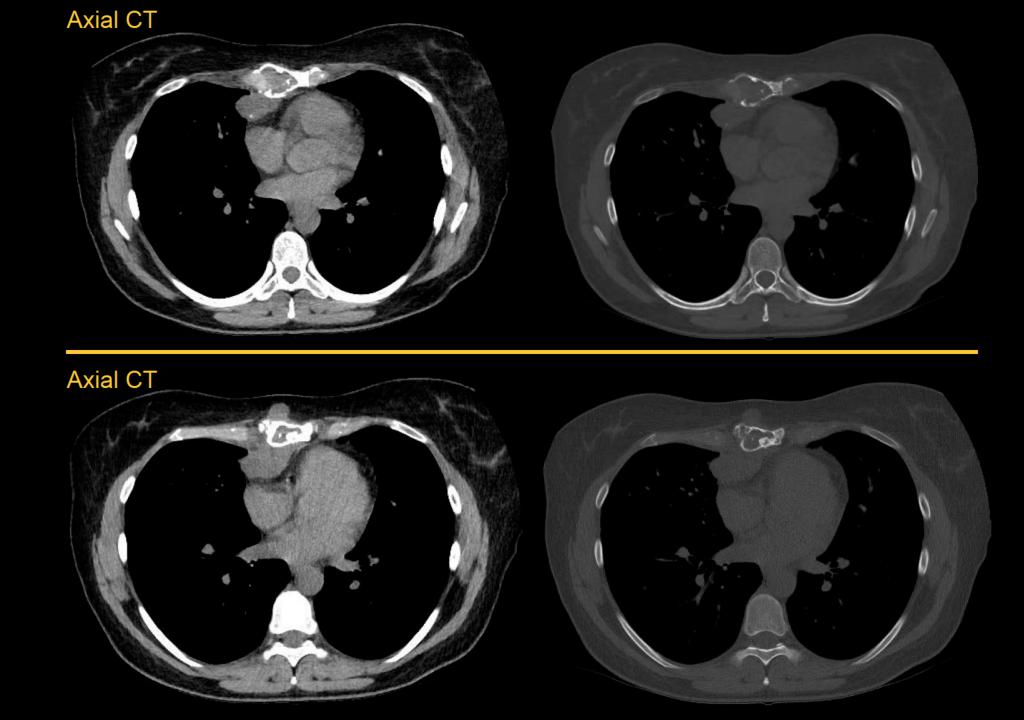


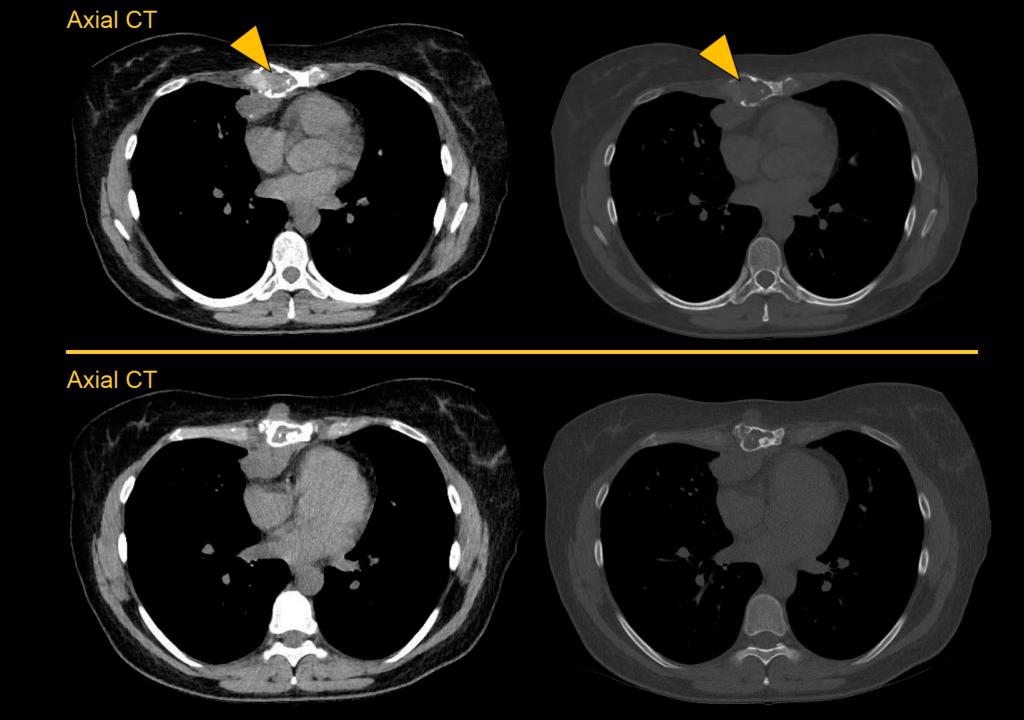


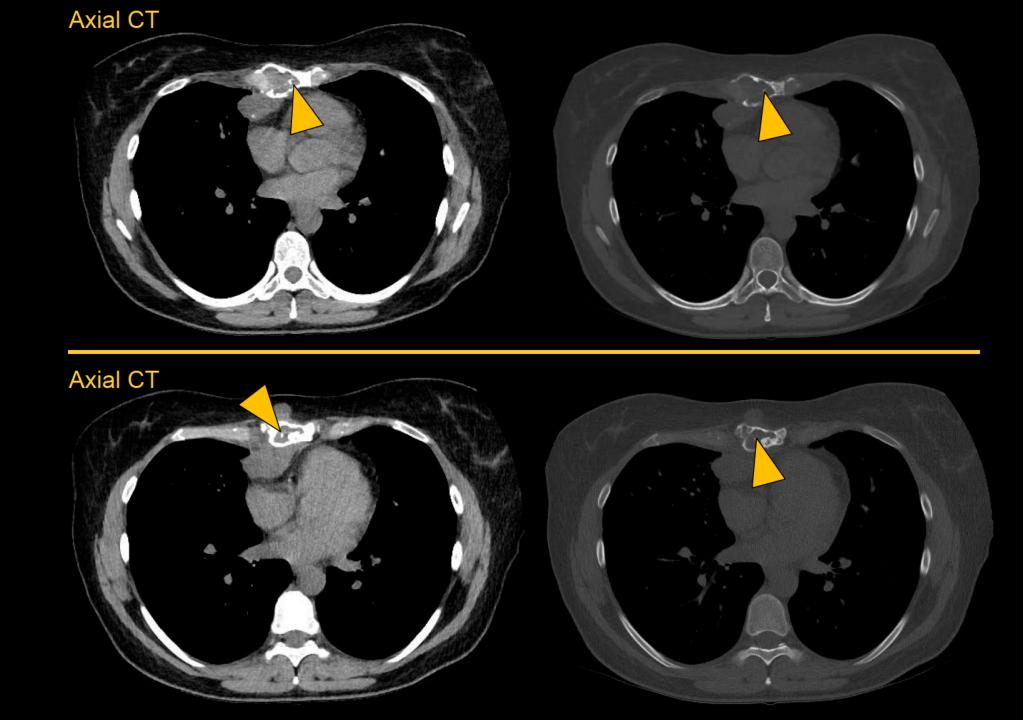
#### Clinical Information

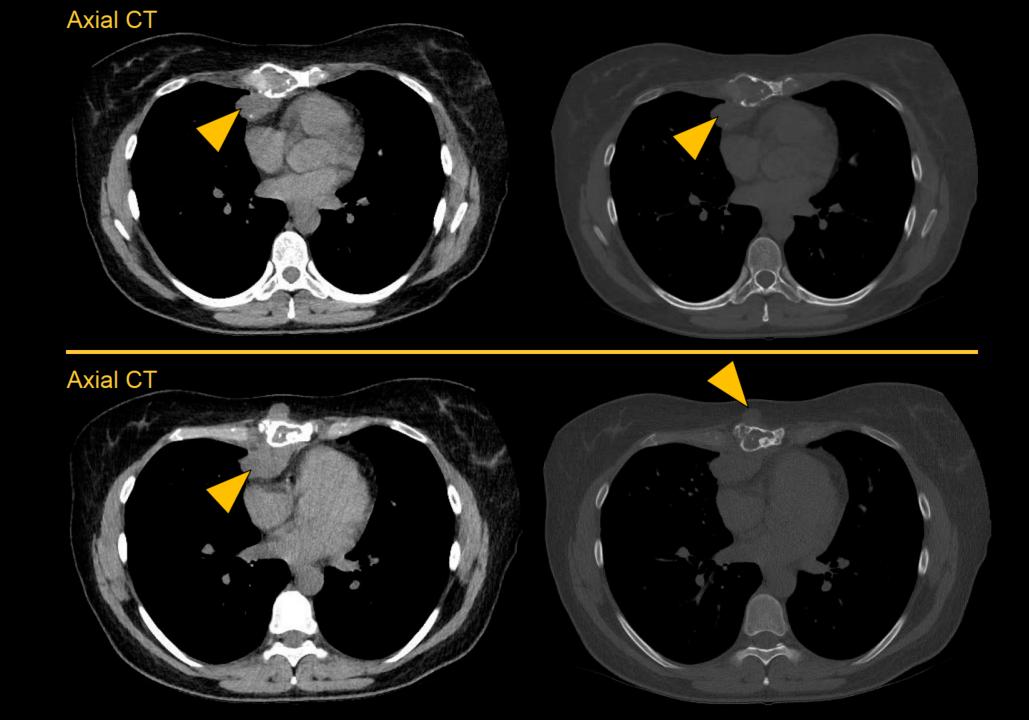
45 year old healthy female with no significant past medical history presented with a palpable presternal nodule. She reported intermittent pain, but no dyspnea.



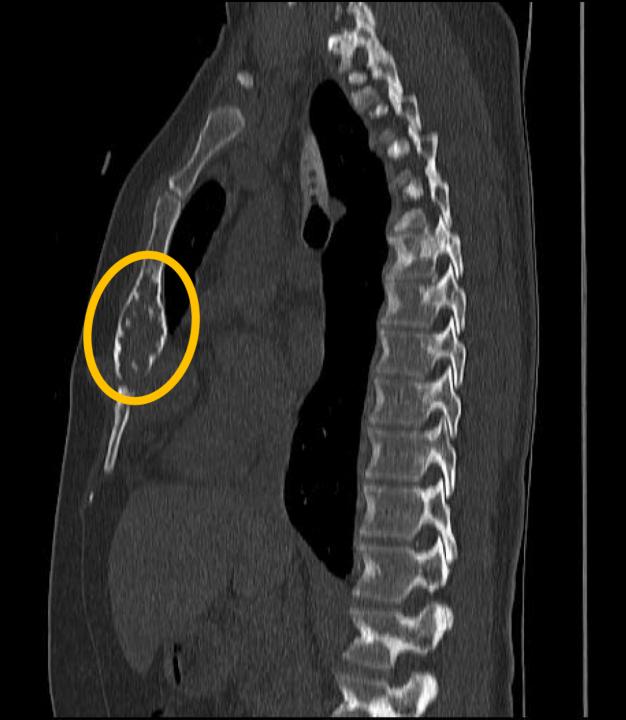




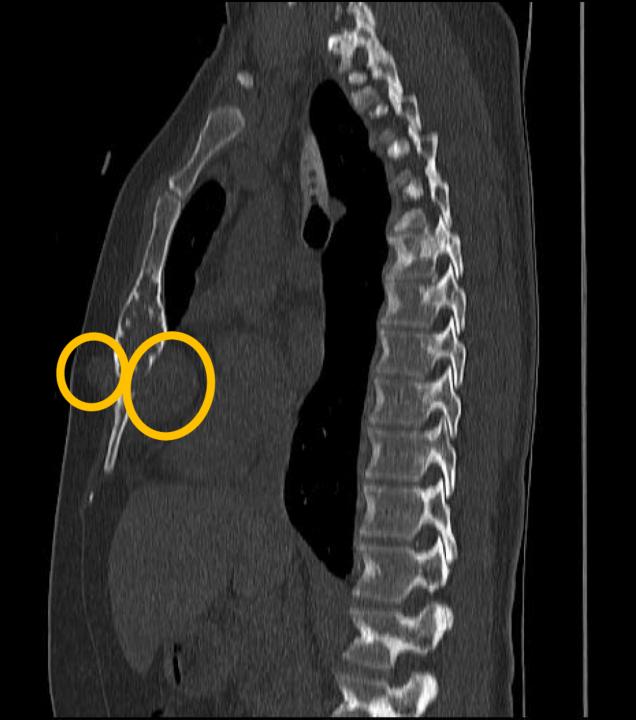




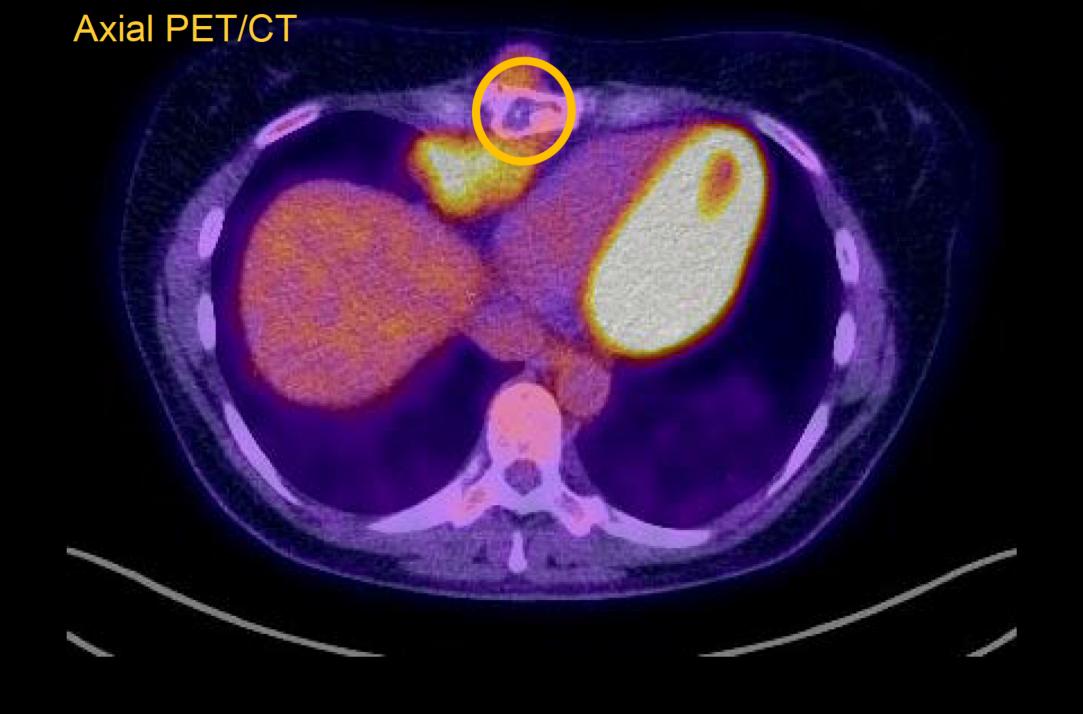


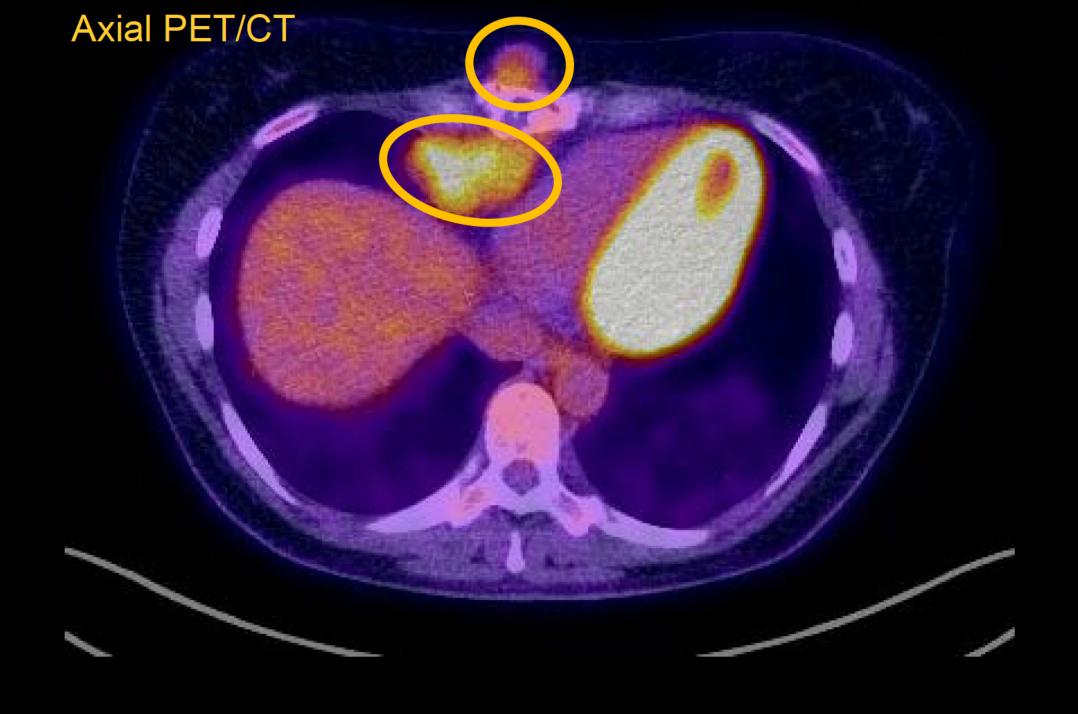






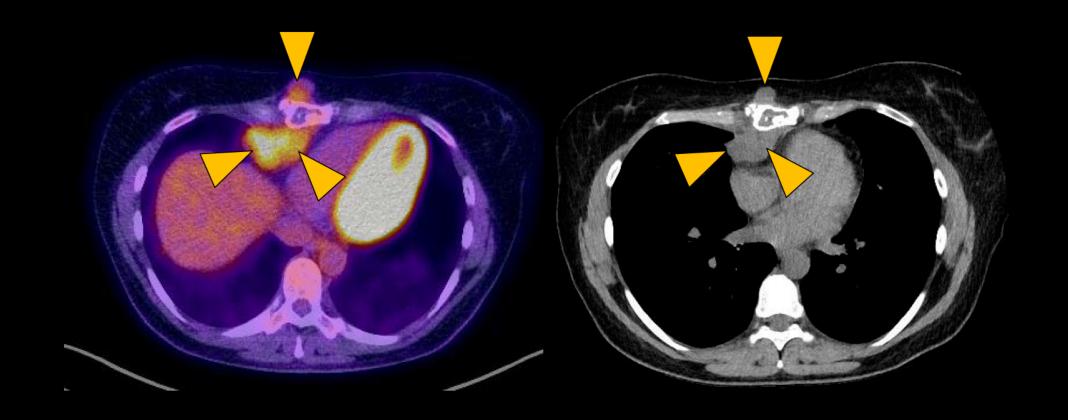






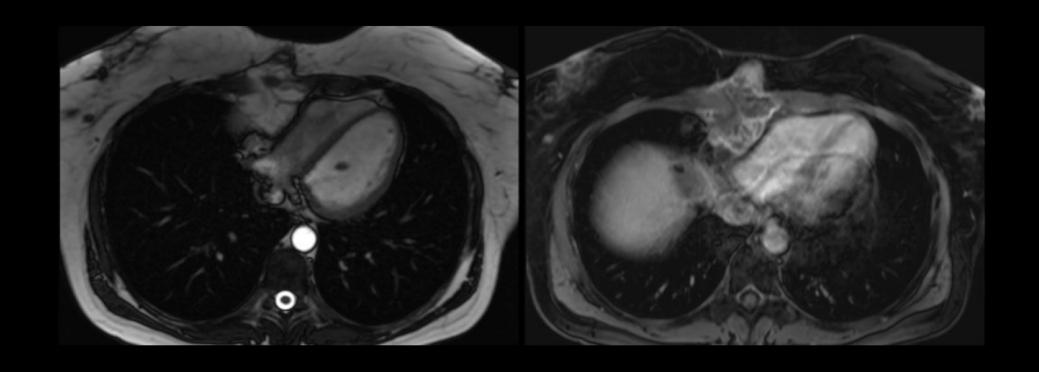
#### Axial PET/CT

#### Axial CT



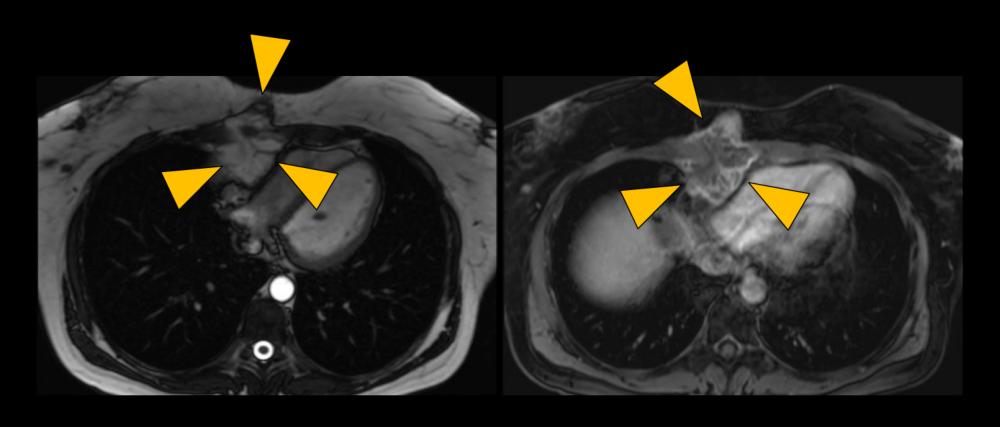
## Axial GRE

# Axial T1+C

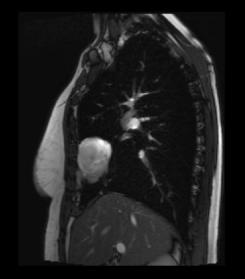


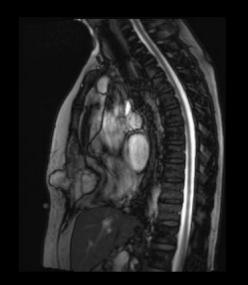
# Axial GRE

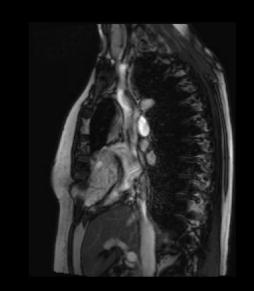
# Axial T1+C



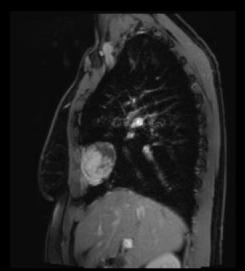
#### Sagittal GRE

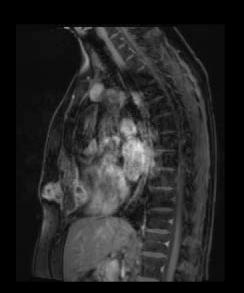


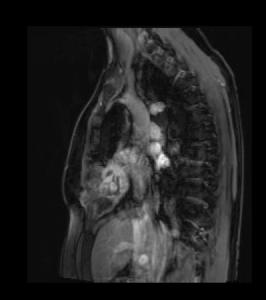




Sagittal T1 +C

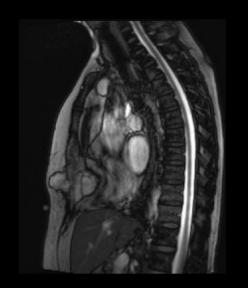


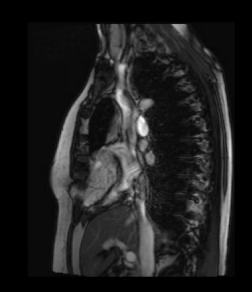




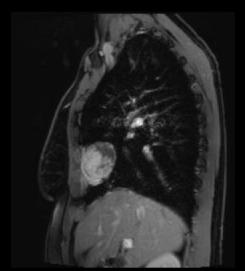
#### Sagittal GRE

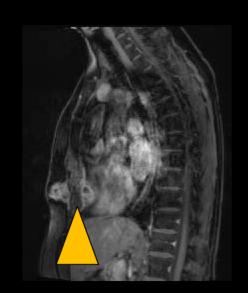


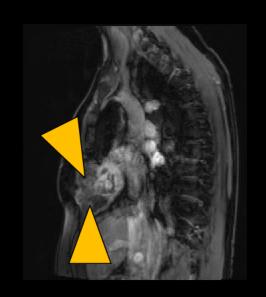




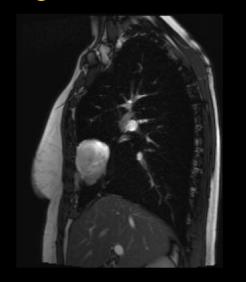
Sagittal T1 +C

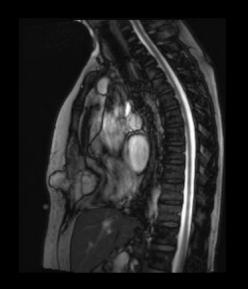






#### Sagittal GRE

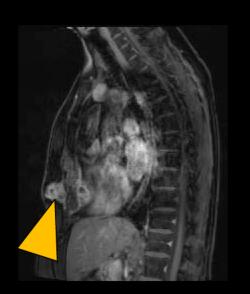


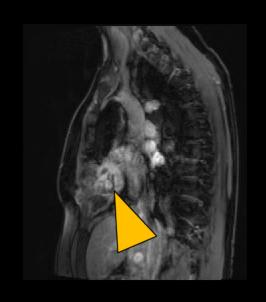




Sagittal T1 +C

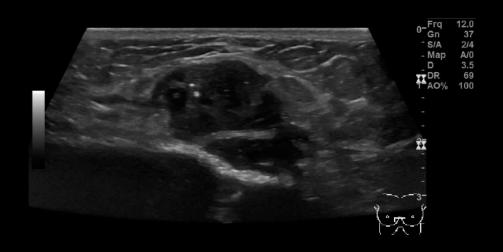


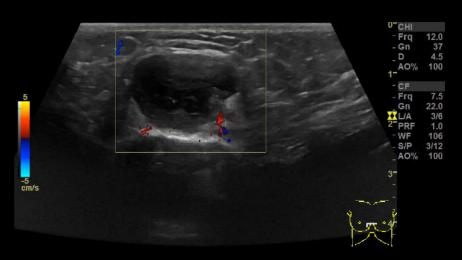




#### Ultrasound

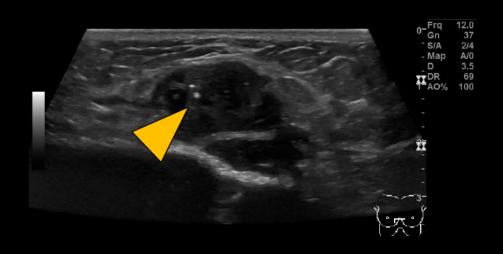
## With Doppler

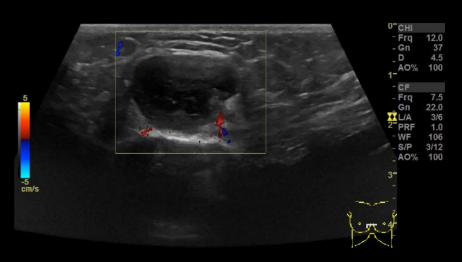


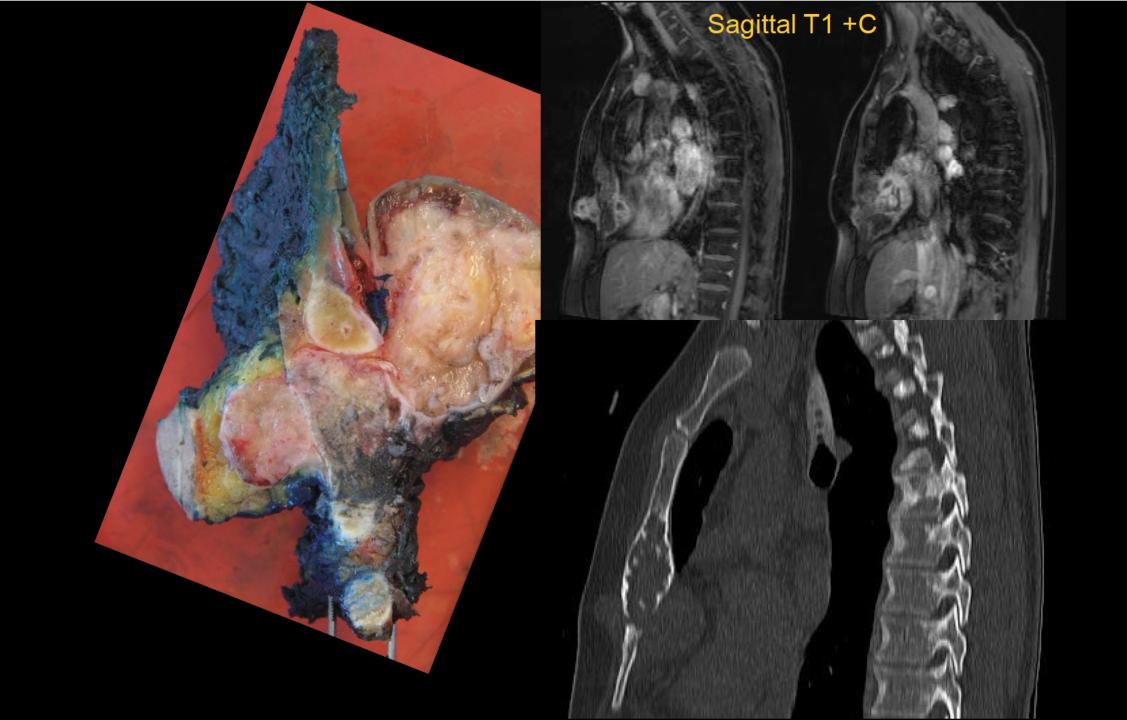


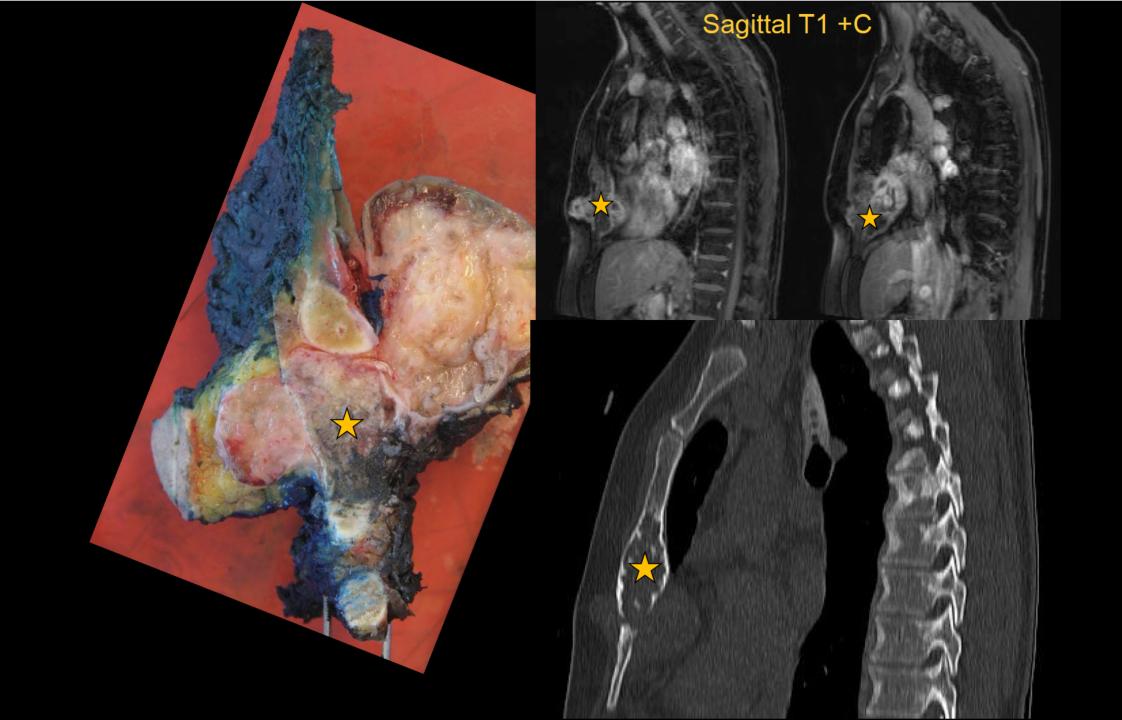
#### Ultrasound

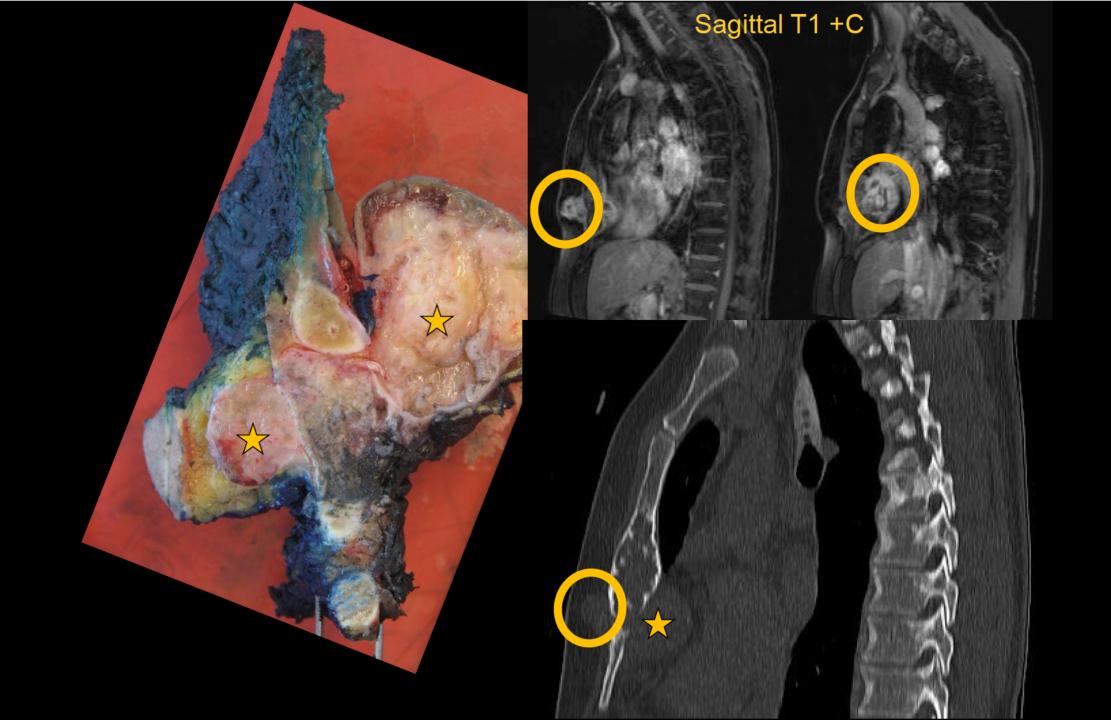
## With Doppler

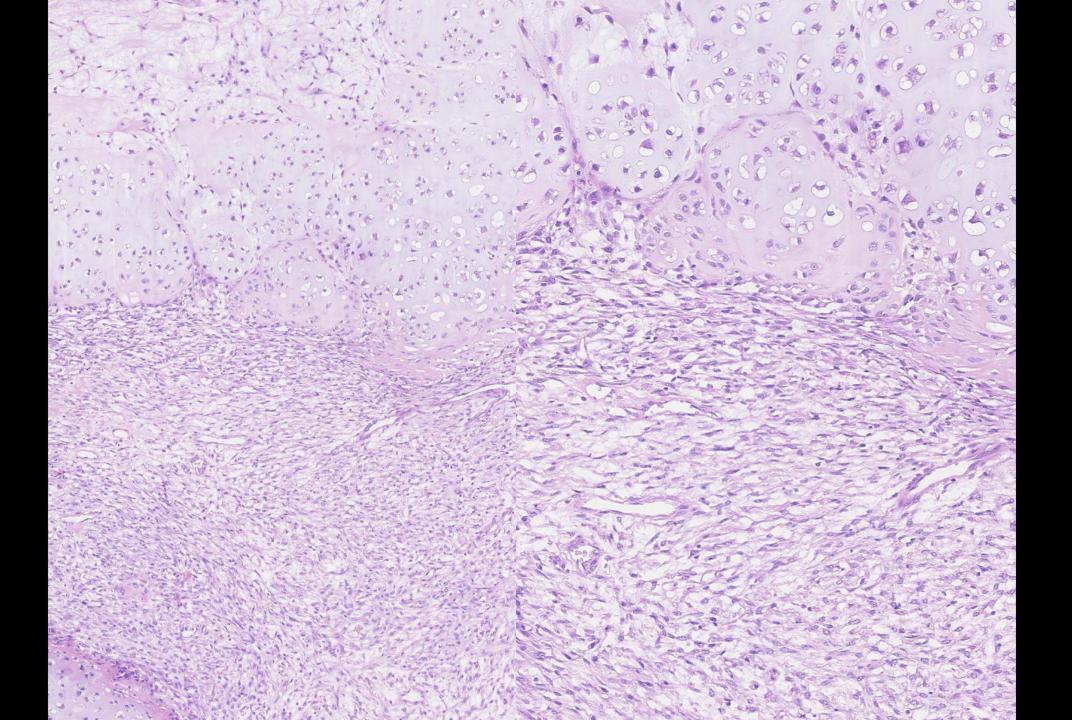


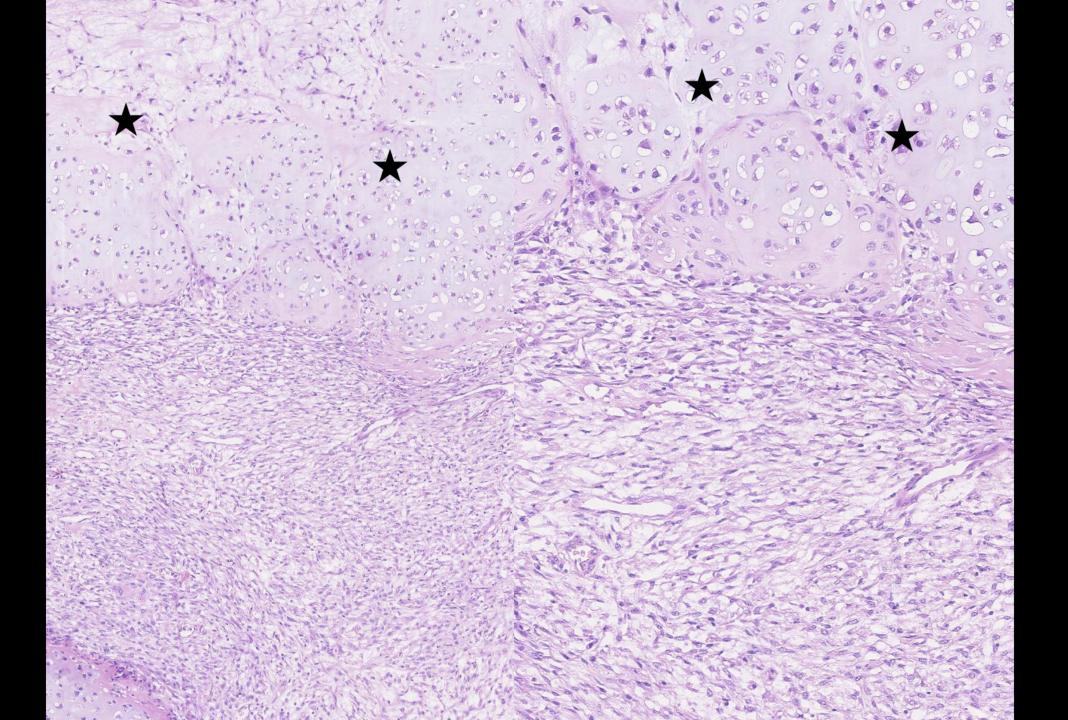


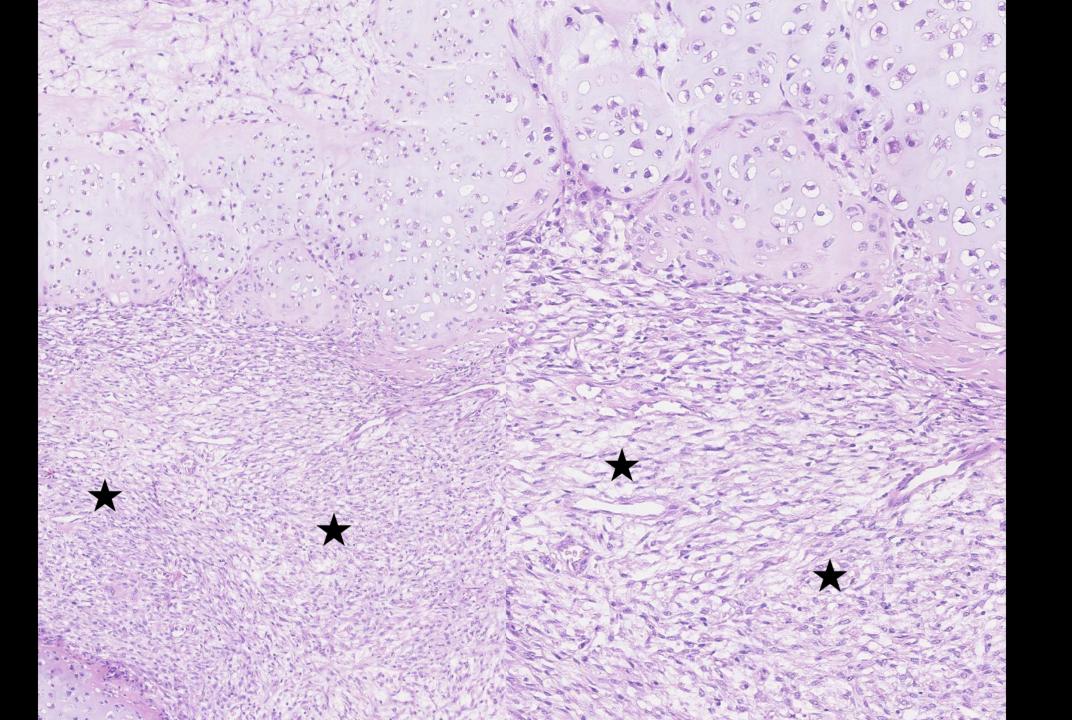












# DEDIFFERENTIATED CHONDROSARCOMA



Dr. Anna-Maria Eurich Institut für Radiologie Aargau, Switzerland

# Honorable Mention MSK

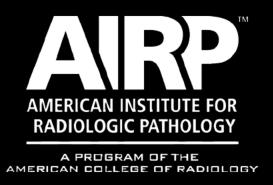


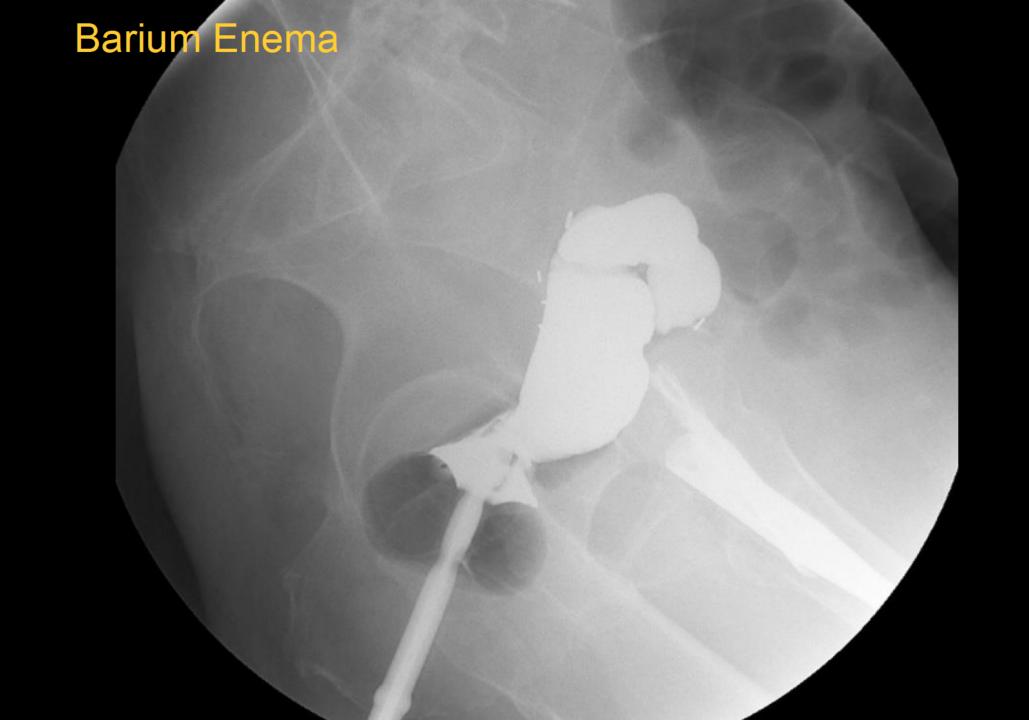
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

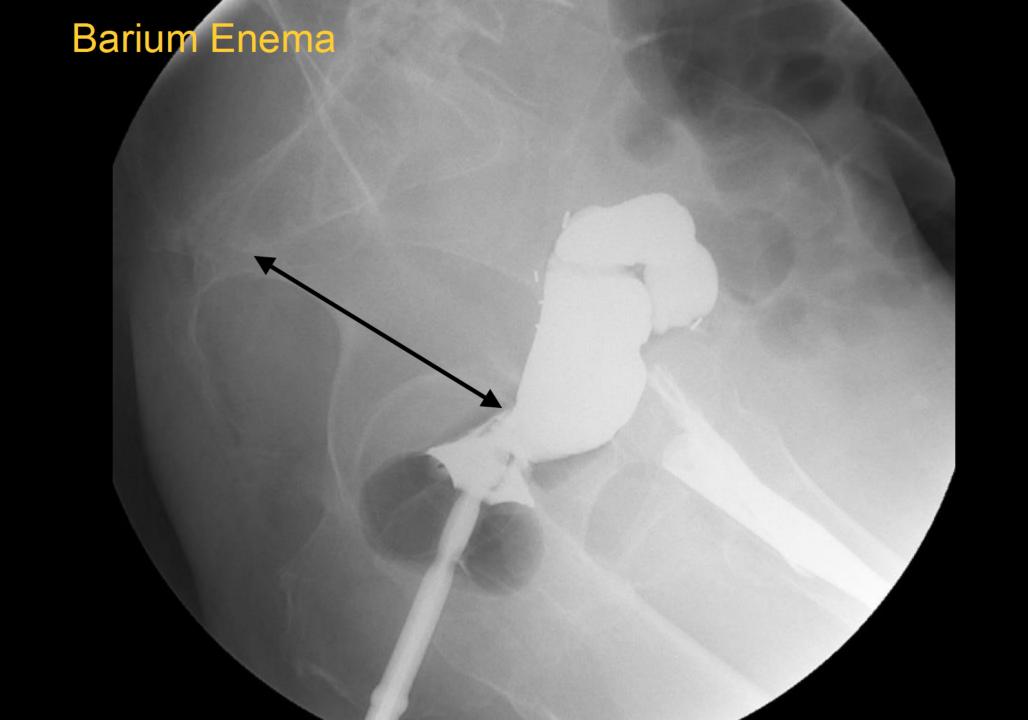
#### **Clinical Information**

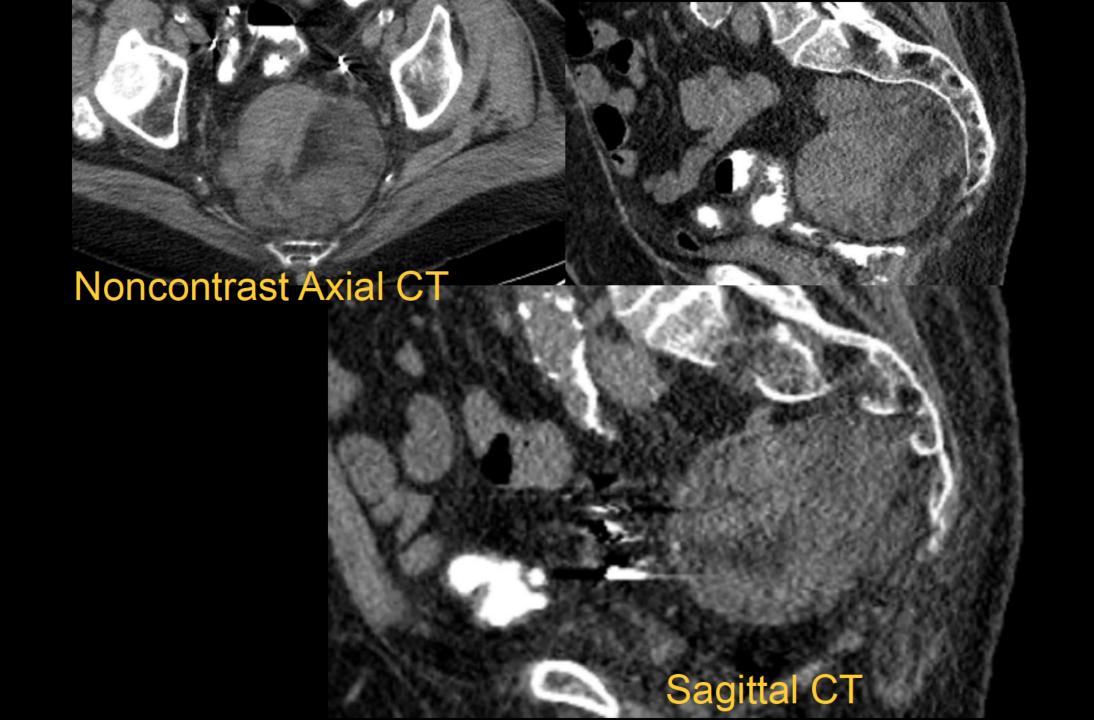
71 year old female hospitalized for congestive heart failure and atrial fibrillation.

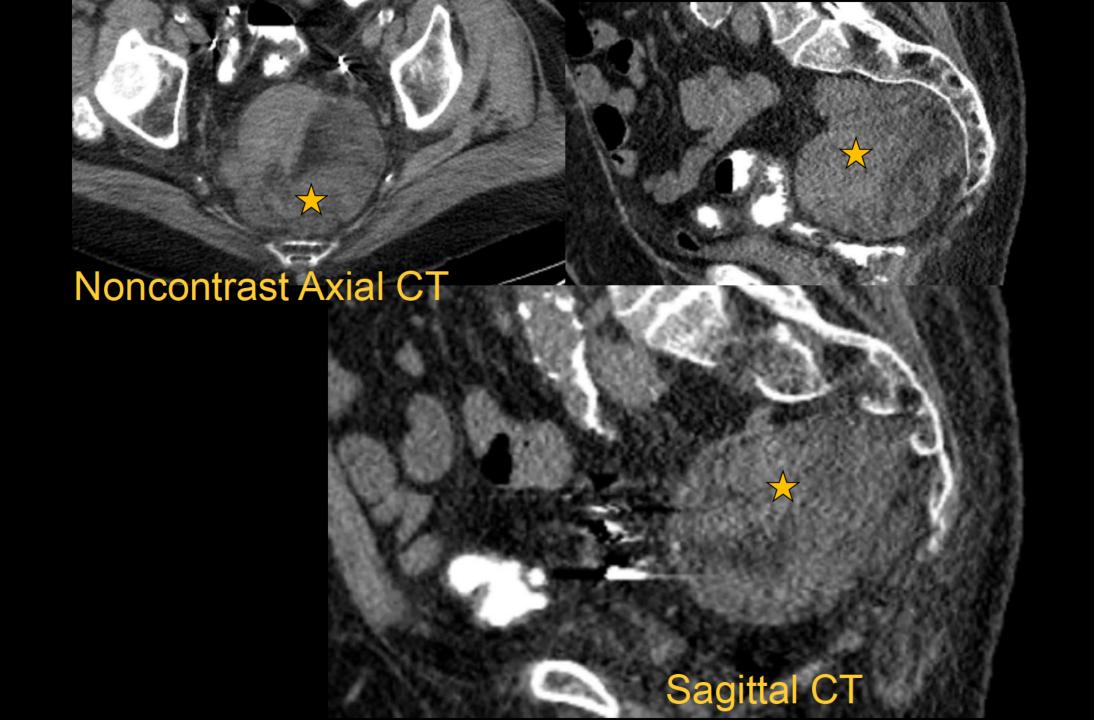
Incidentally, she complained of worsening constipation which raised clinical concern for a bowel obstruction.

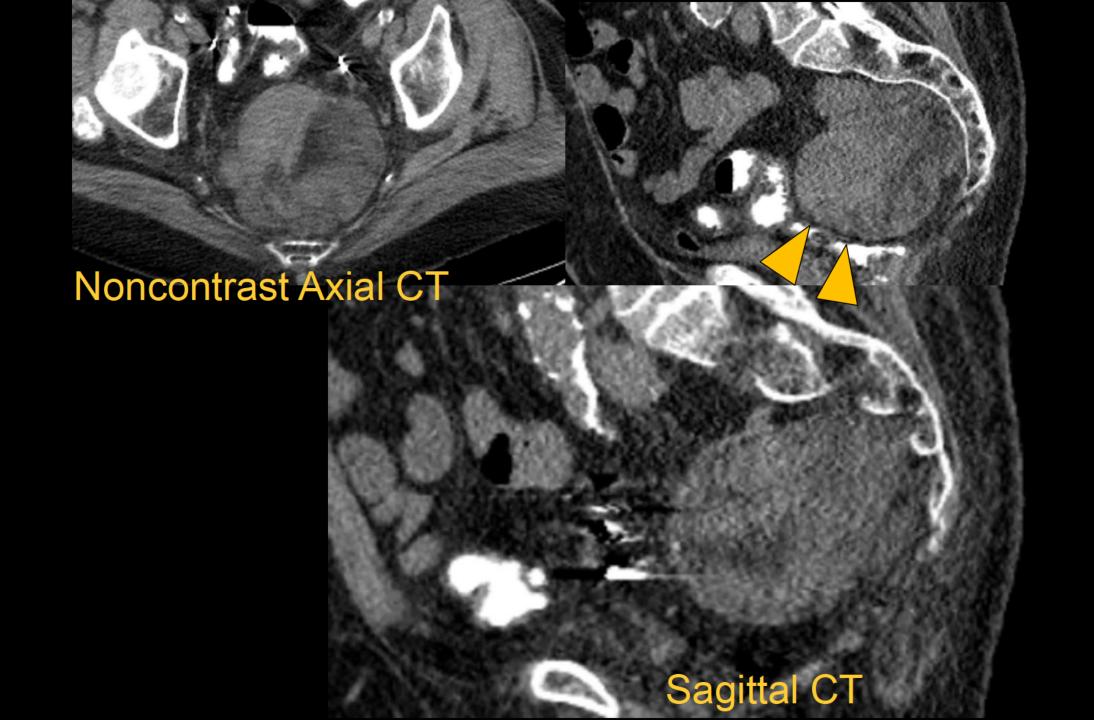


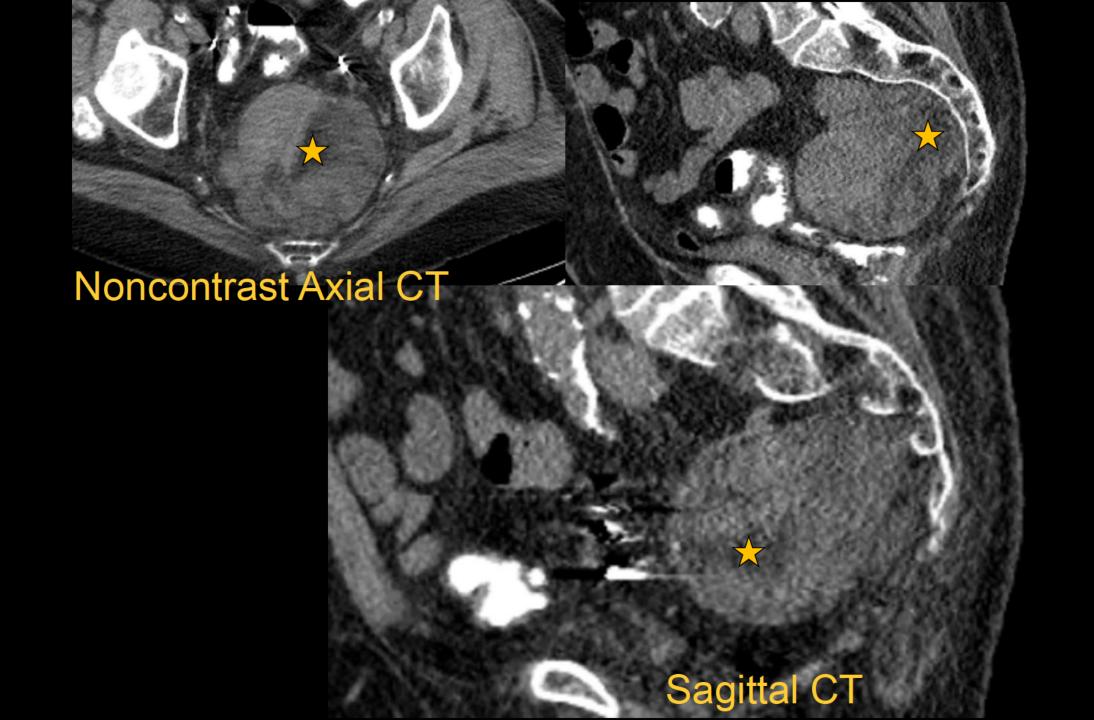








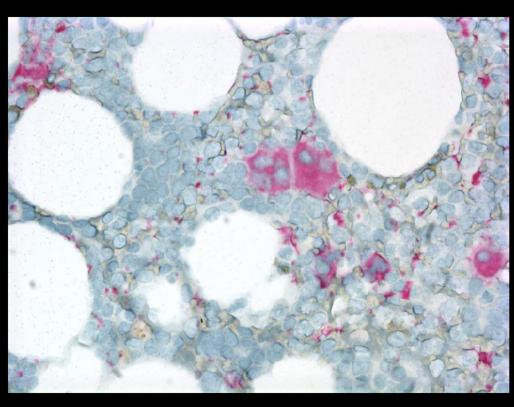


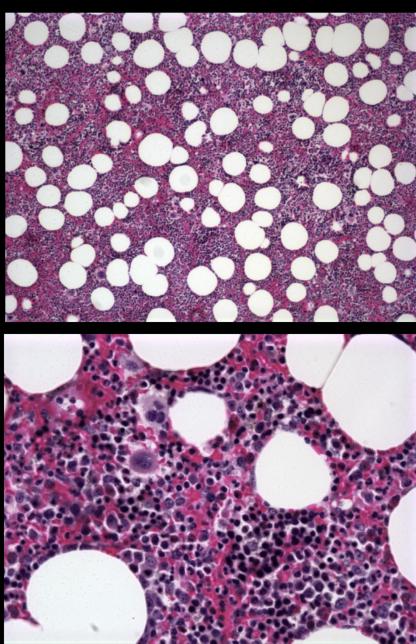


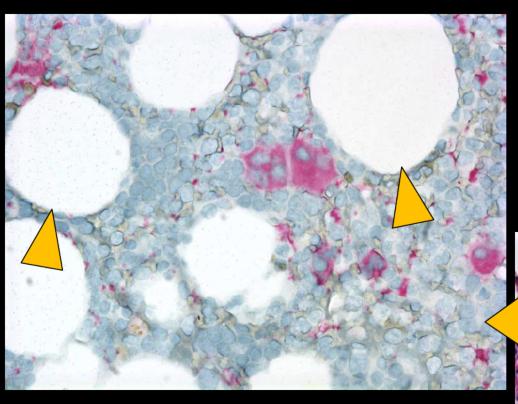


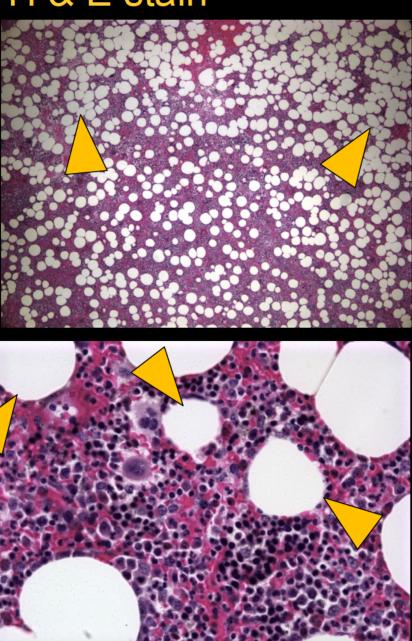


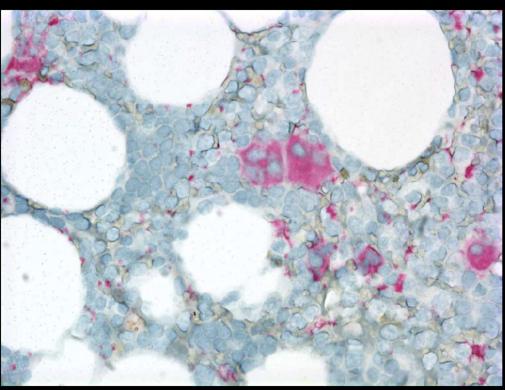


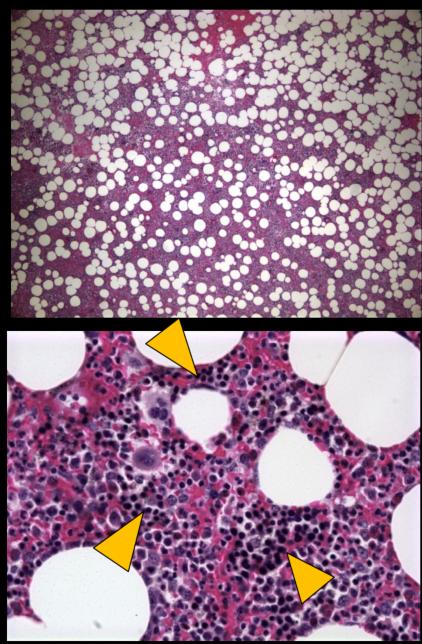


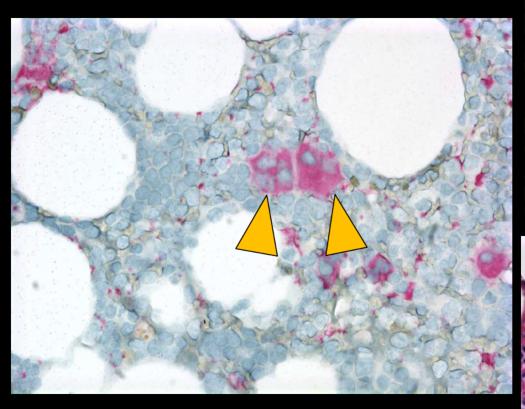


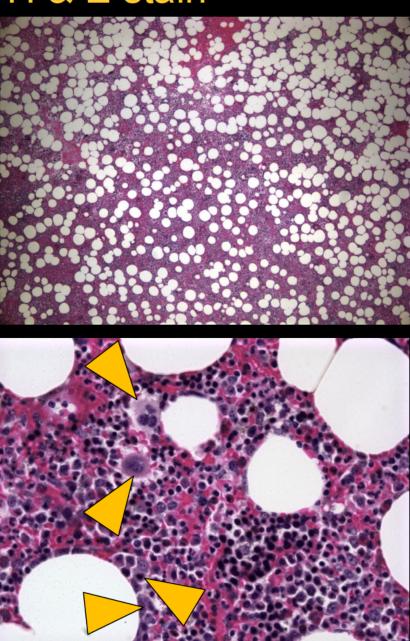












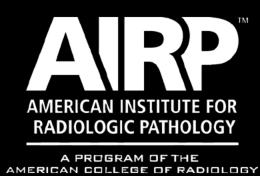
# PRESACRAL MYELOLIPOMA

Dr. Jeremy Jones
University of Kansas
Wichita, Kansas



### **Gastrointestinal Best Case**

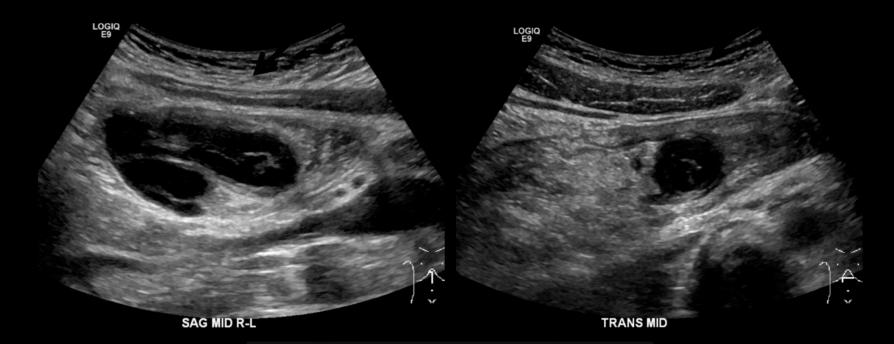




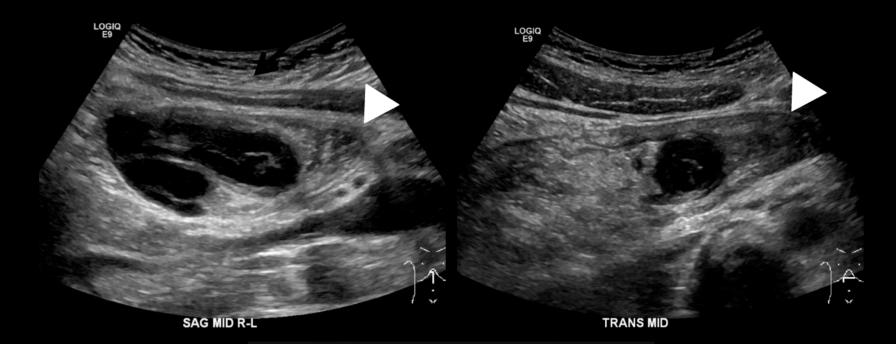
#### Clinical information

18-year-old woman with intermittent right lower quadrant pain associated with non-bloody diarrhea for one day. She reported intermittent bloody diarrhea for the prior 6 months, with negative sigmoidoscopy, attributed to hemorrhoids.



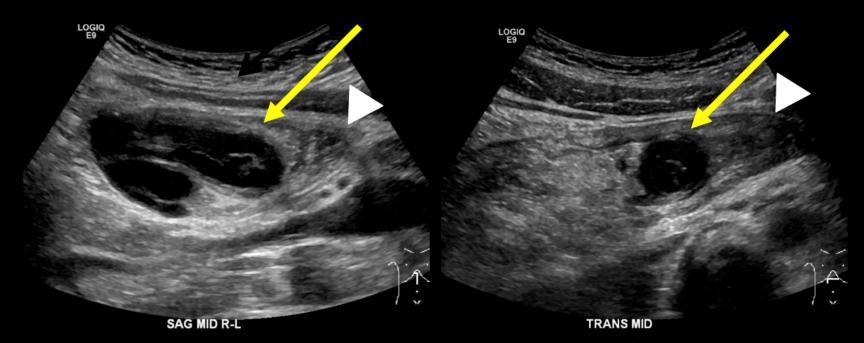


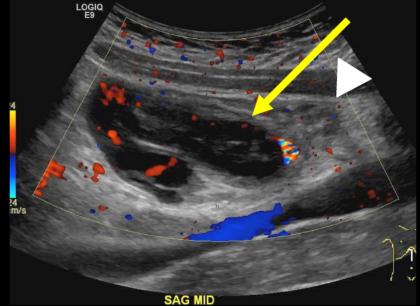


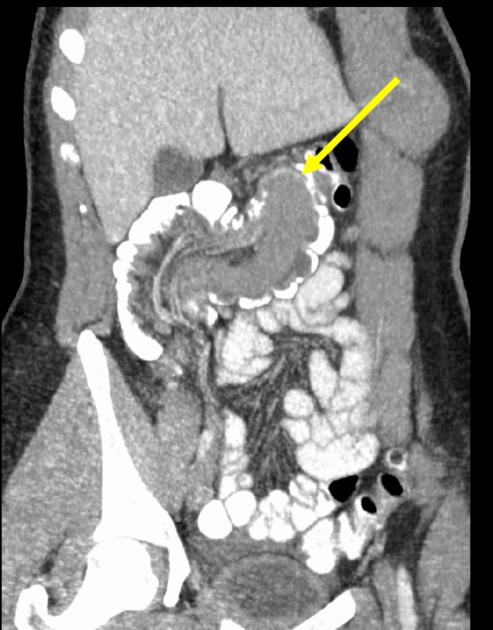


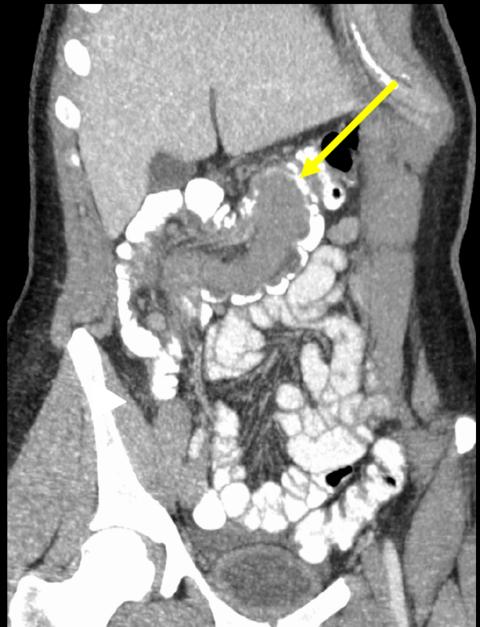


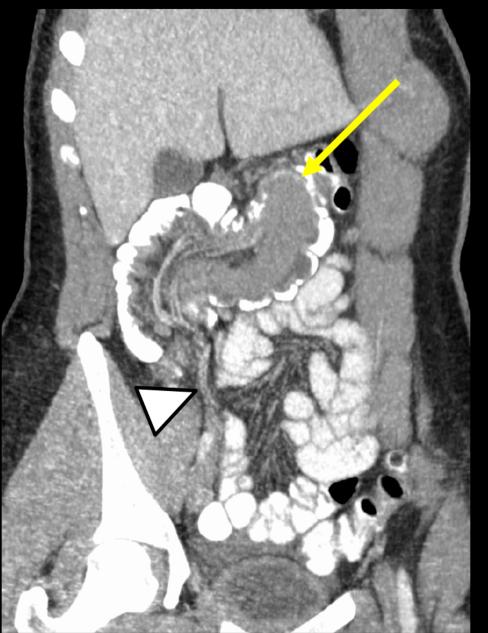


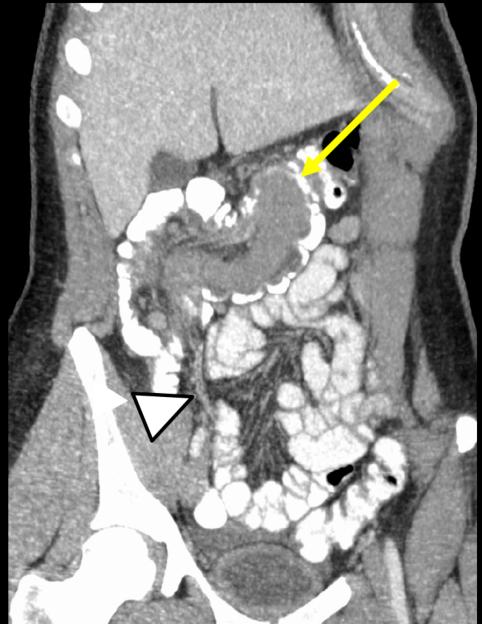


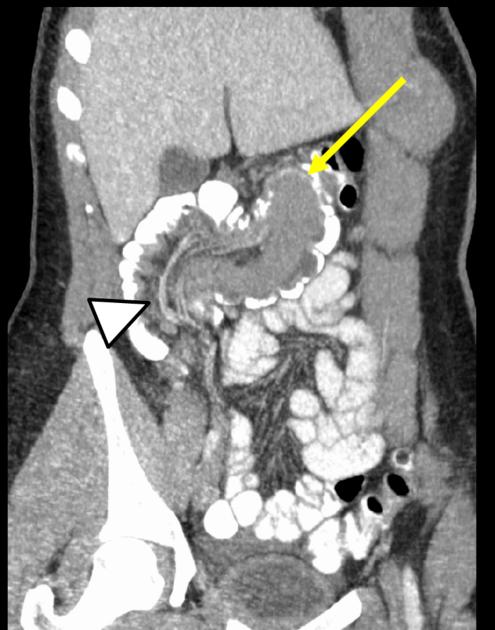


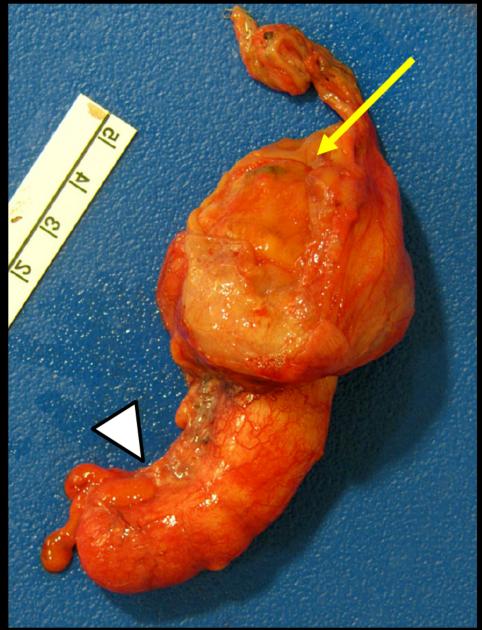


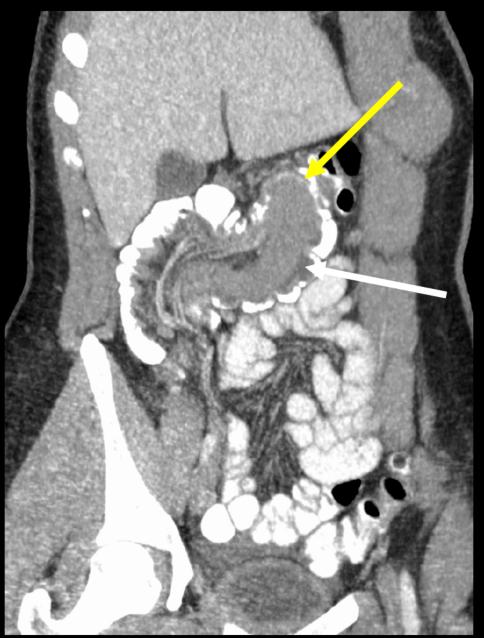


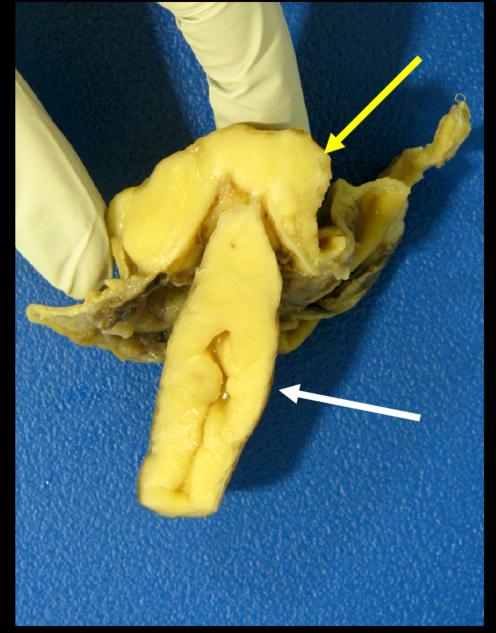


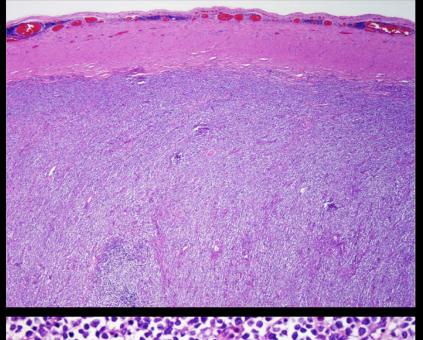


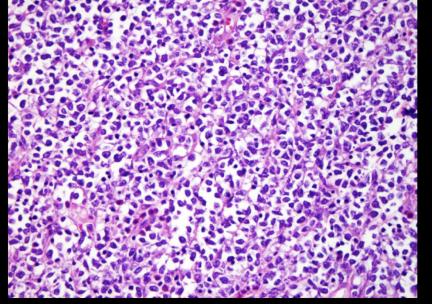


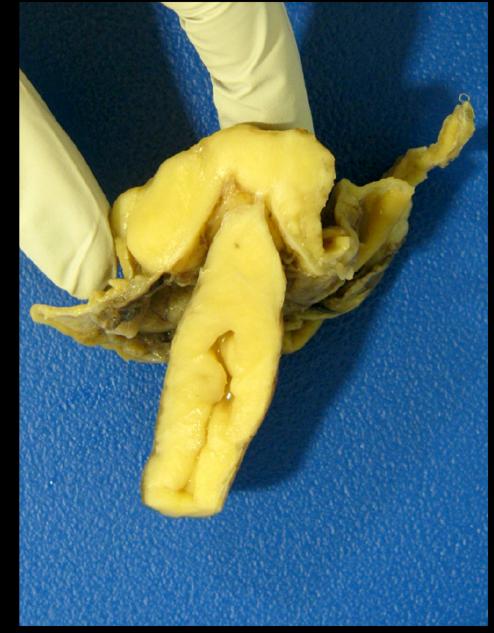














# Diffuse large B-cell lymphoma of the appendix, causing appendicocecal intussusception

Jenny Qian
New York Presbyterian – Weill Cornell
New York, NY

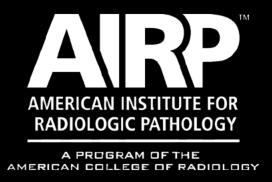
### **Neuroradiology Best Case**

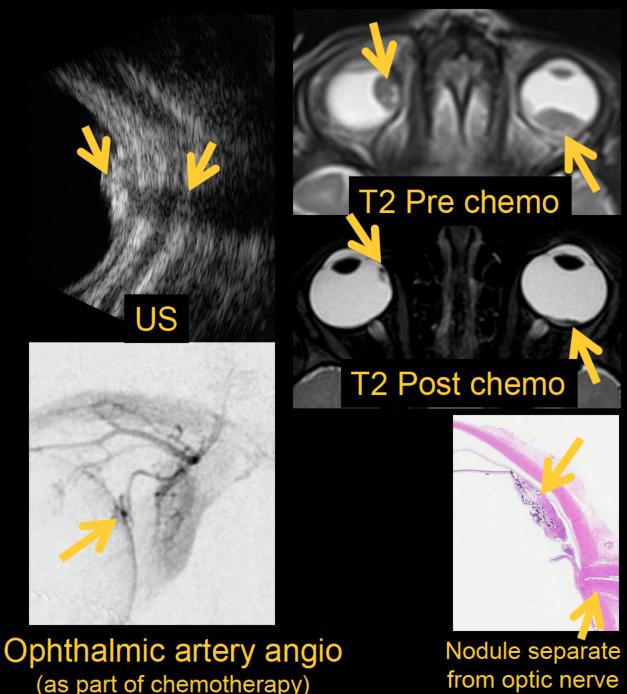




### **Clinical Information**

### 18-month-old female with bilateral leukocoria







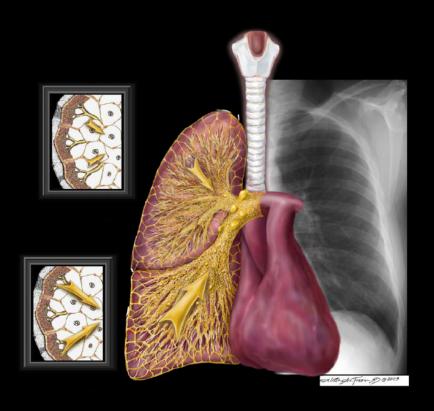
(as part of chemotherapy)

### **Bilateral Retinoblastomas**





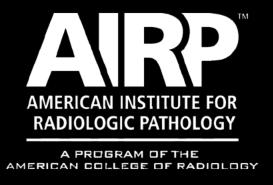
# Pulmonary and Mediastinal Best Case





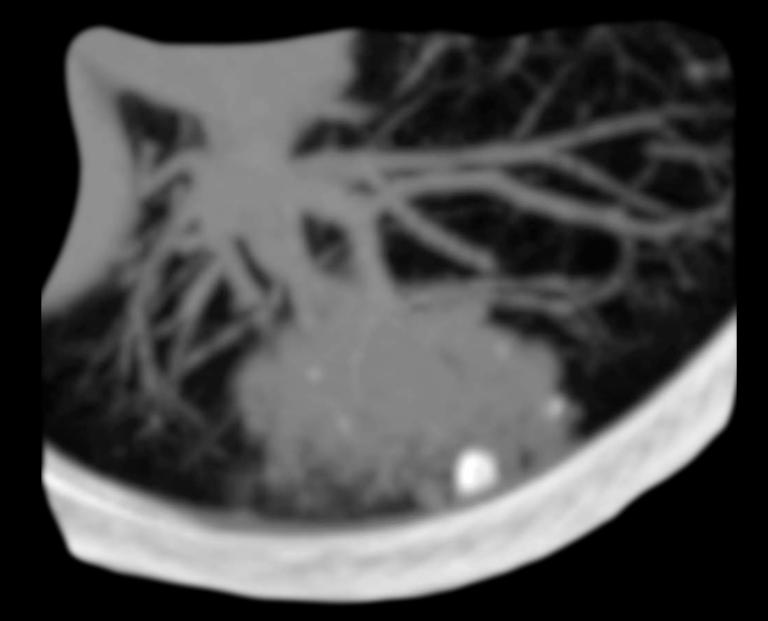
### **Clinical Information**

46 year-old-female with opacity in her left lower lobe.
The patient has no respiratory symptoms.

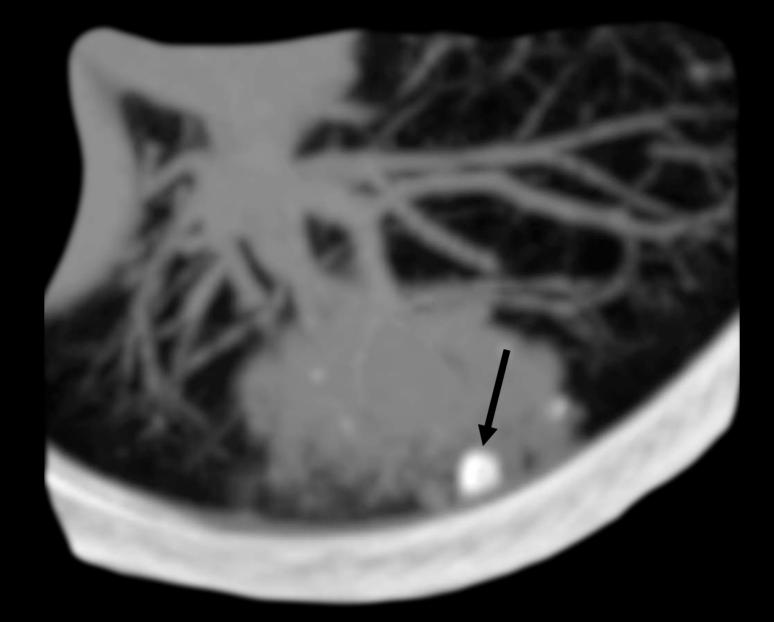




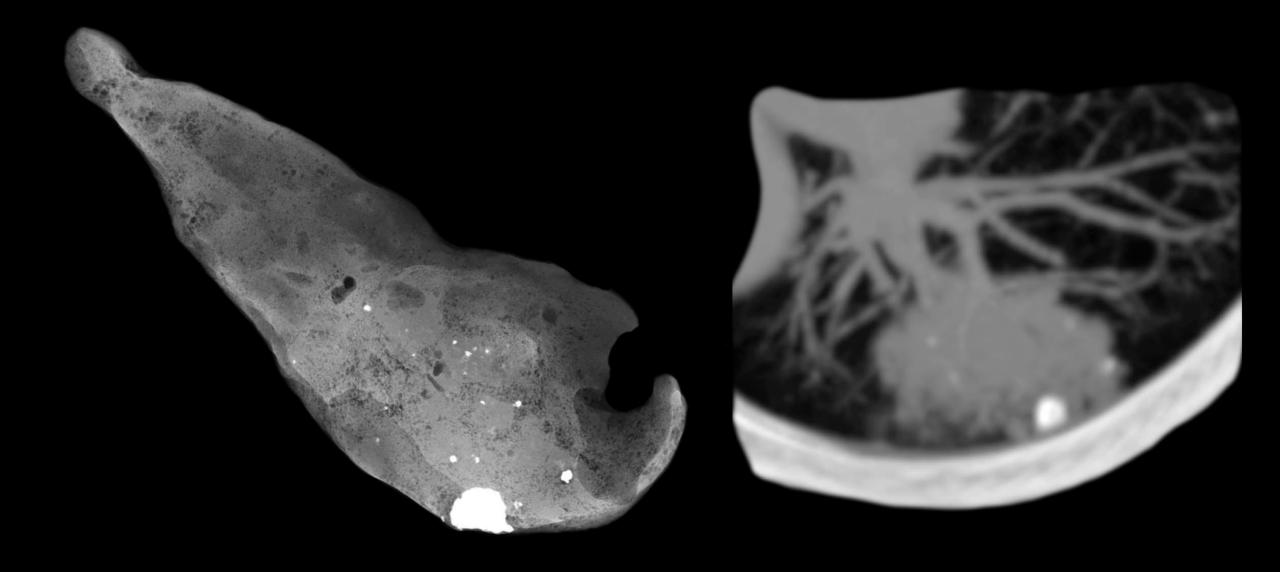
### Irregular left lower lobe nodule - CT



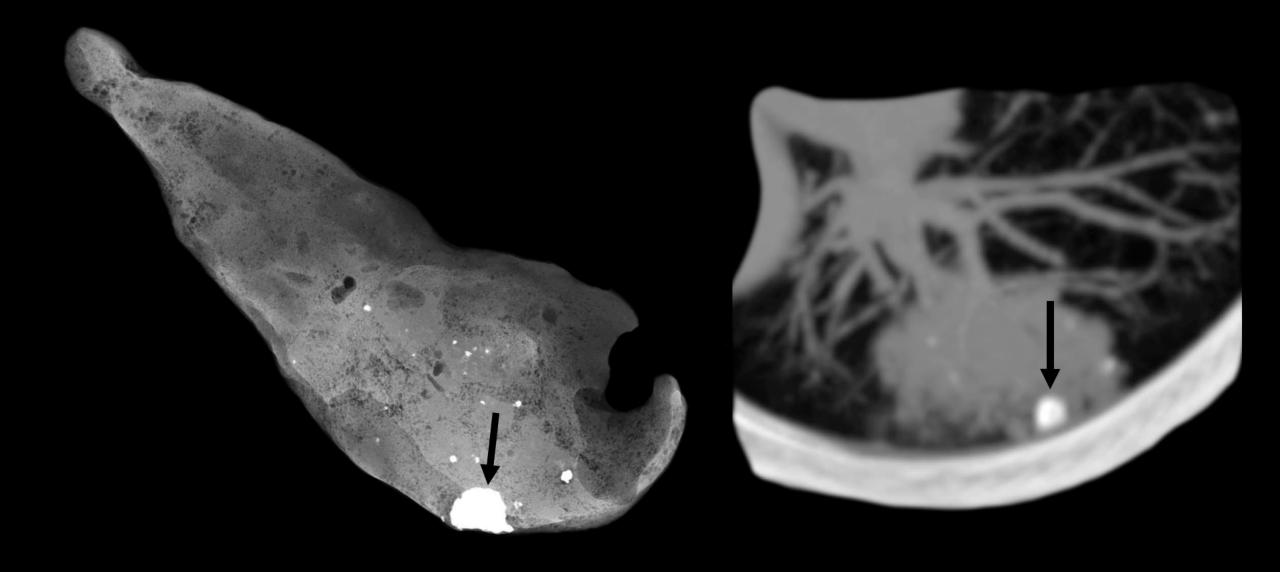
### Irregular left lower lobe nodule - CT



# Irregular left lower lobe nodule – specimen radiograph



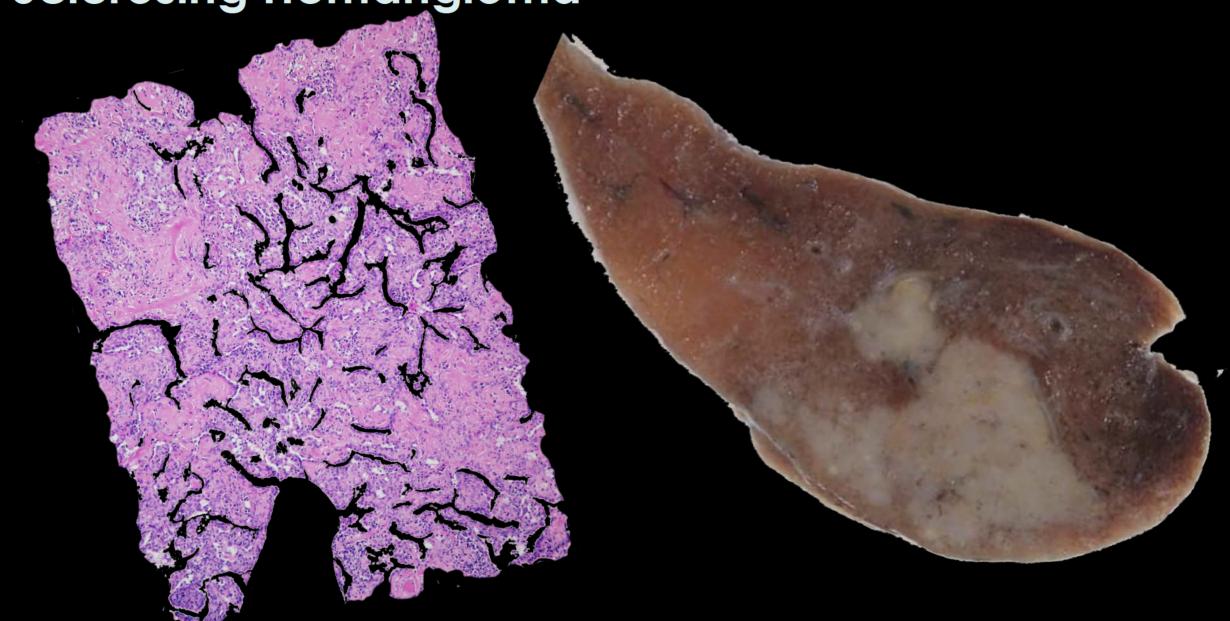
# Irregular left lower lobe nodule – specimen radiograph



Irregular left lower lobe nodule – specimen radiograph & gross



### Sclerosing Hemangioma



### **Sclerosing Hemangioma**





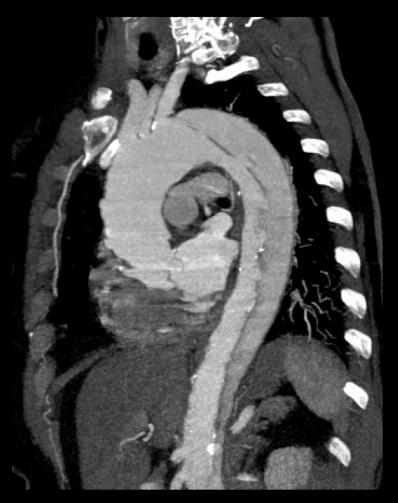
### Cardiovascular Best Case



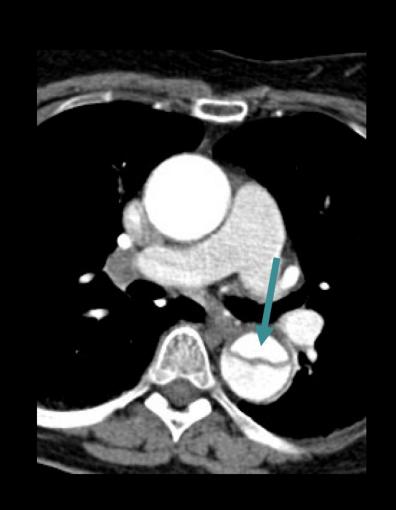


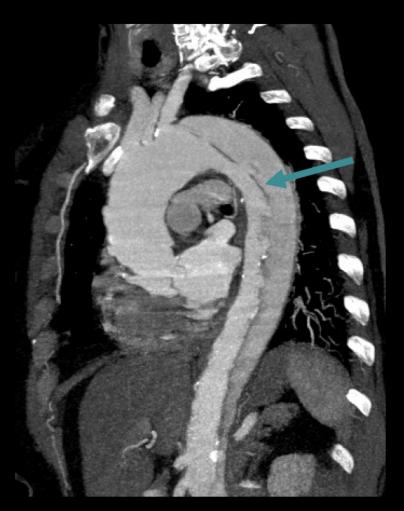
## 63 year old female with history of hypertension and severe chest pain. A type B aortic dissection was diagnosed at presentation.





# 63 year old female with history of hypertension and severe chest pain. A type B aortic dissection was diagnosed at presentation.

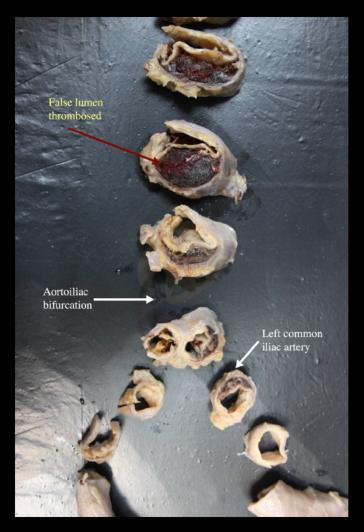




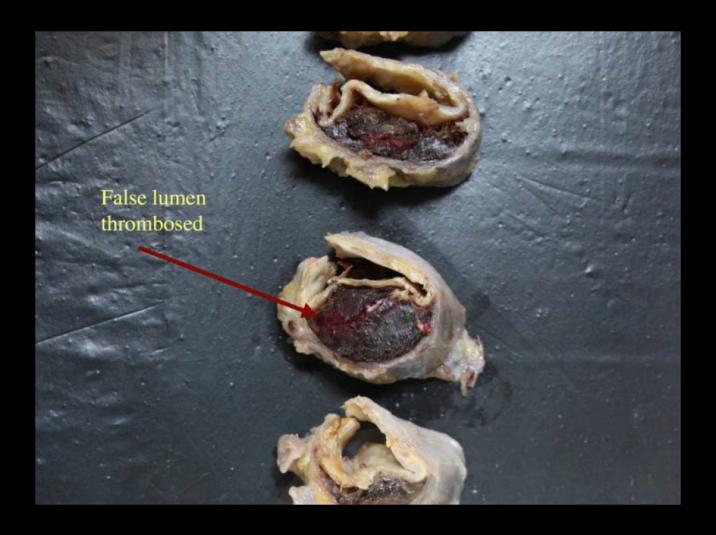
## The type B aortic dissection was treated with endovascular stent and carotid-carotid bypass.



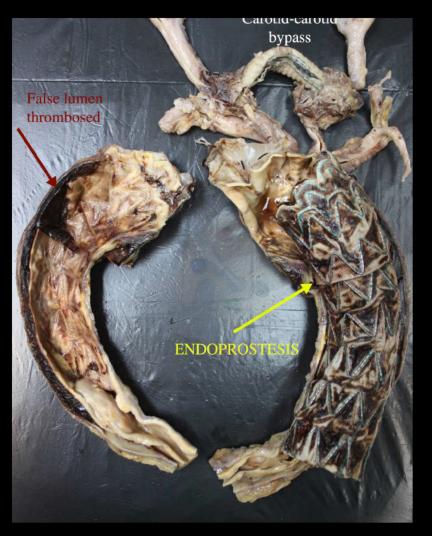




THROMBOSED false lumen of Type B dissection



THROMBOSED false lumen of Type B dissection



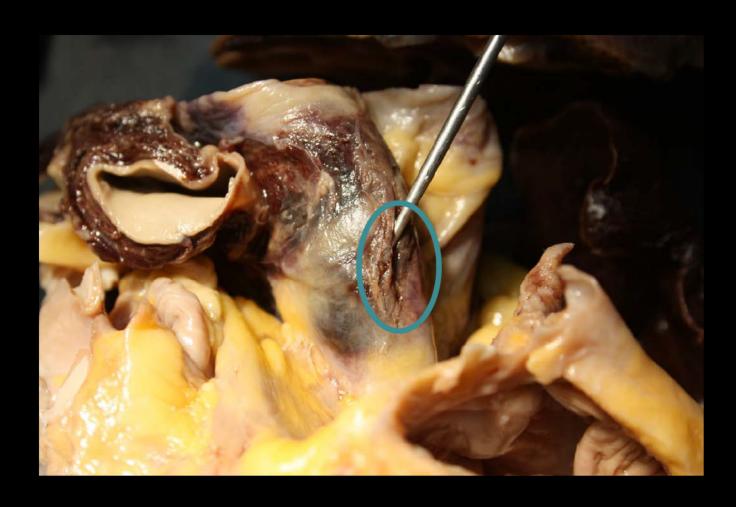
ANTEGRADE propagation of dissection into ascending aorta



Type A aortic dissection with partly thrombosed lumen



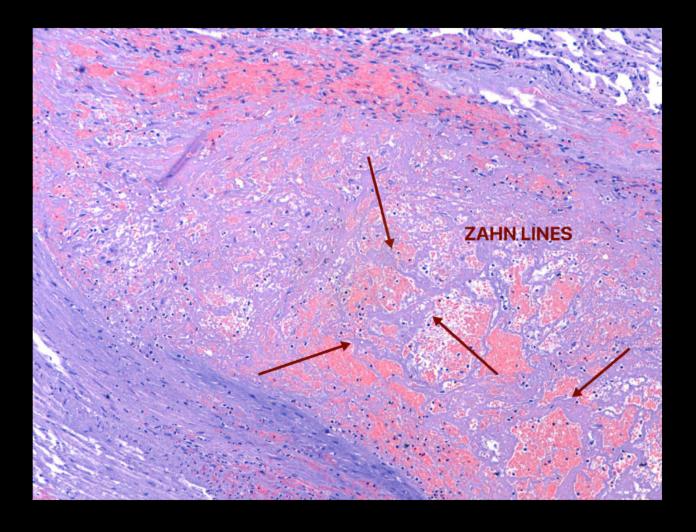
Mural tear/rupture identified at the aortic root



Mural tear/rupture identified at the aortic root



**HEMOPERICARDIUM** 



H&E stain shows separation of media from adventitia, with false lumen filled with partially thrombosed fibrinolytic material and thrombus (lines of Zahn: laminations of platelets mixed with fibrin).

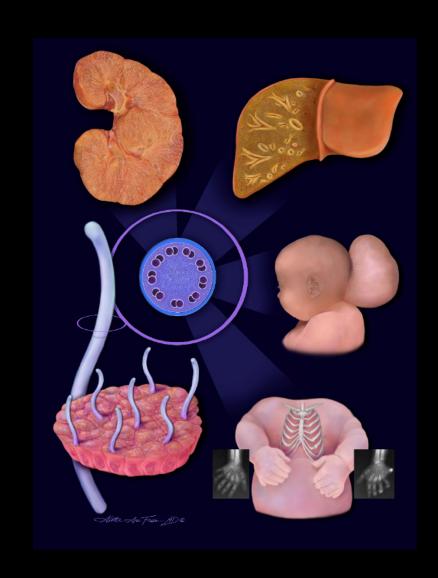
# Type B dissection transitioned to Type A dissection, complicated by aortic root rupture & hemopericardium



AMERICAN COLLEGE OF RADIOLOGY

Tania Diaz Antonio, MD H.U. Virgen de la Victoria Málaga, Spain

#### **Pediatric Best Case**

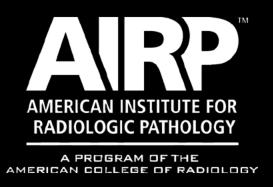


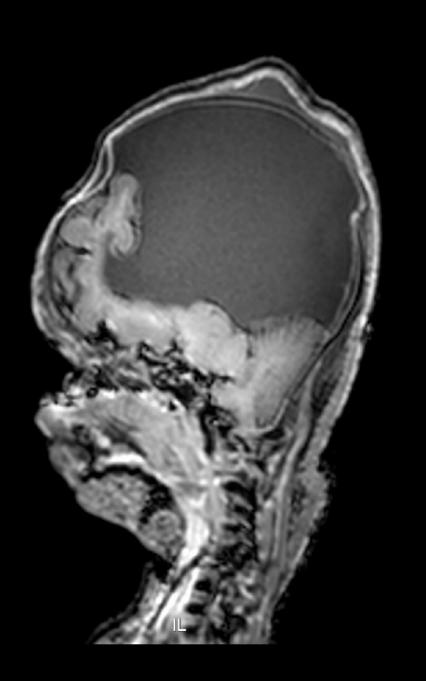


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#### Clinical Information

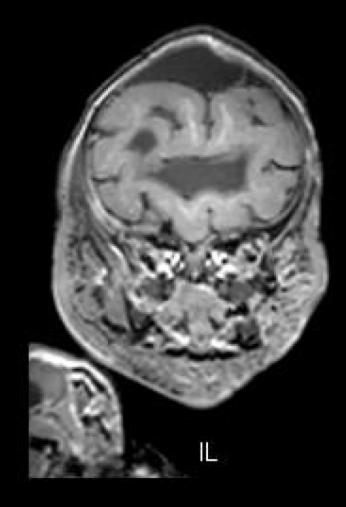
32 year-old G5P2 woman with history of IDDM, Hep C (normal LFT and undetectable viral load) and depression, with positive exposure and positive test to ZIKA virus

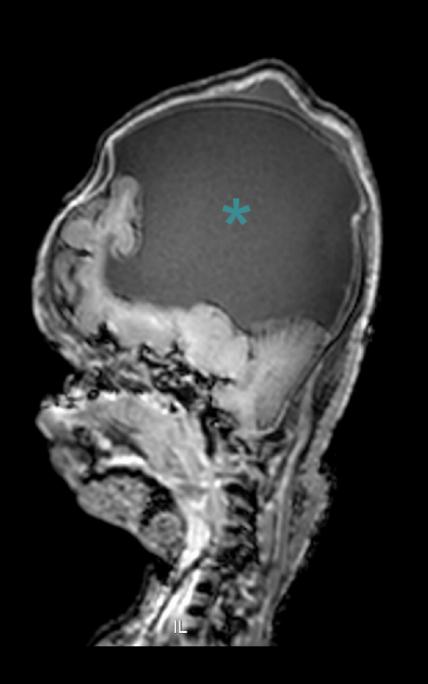




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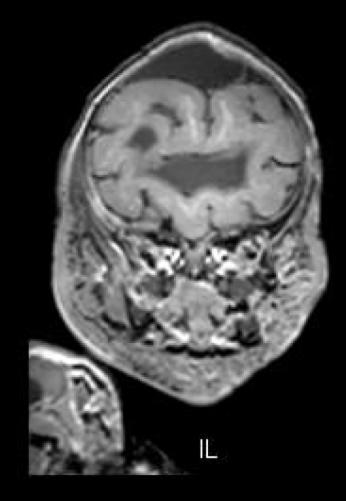
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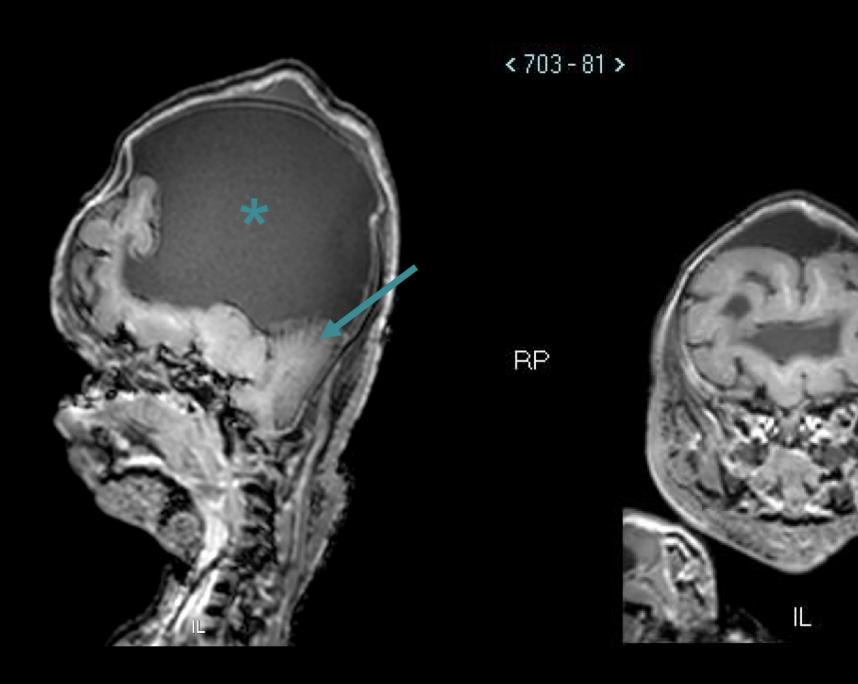


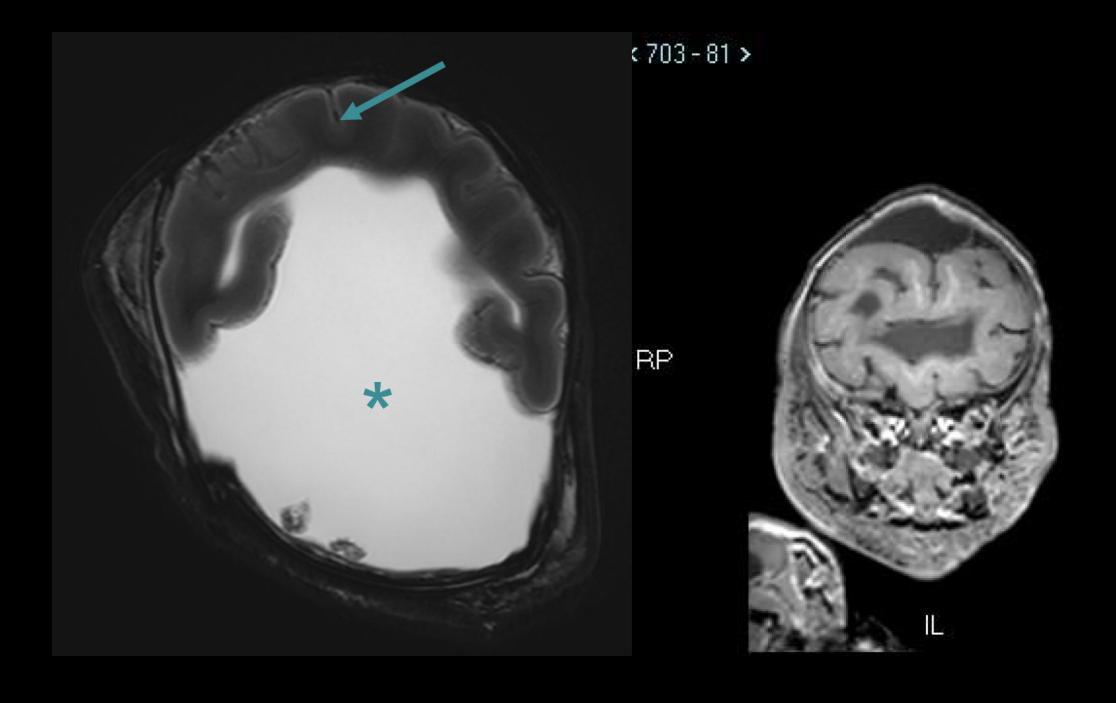


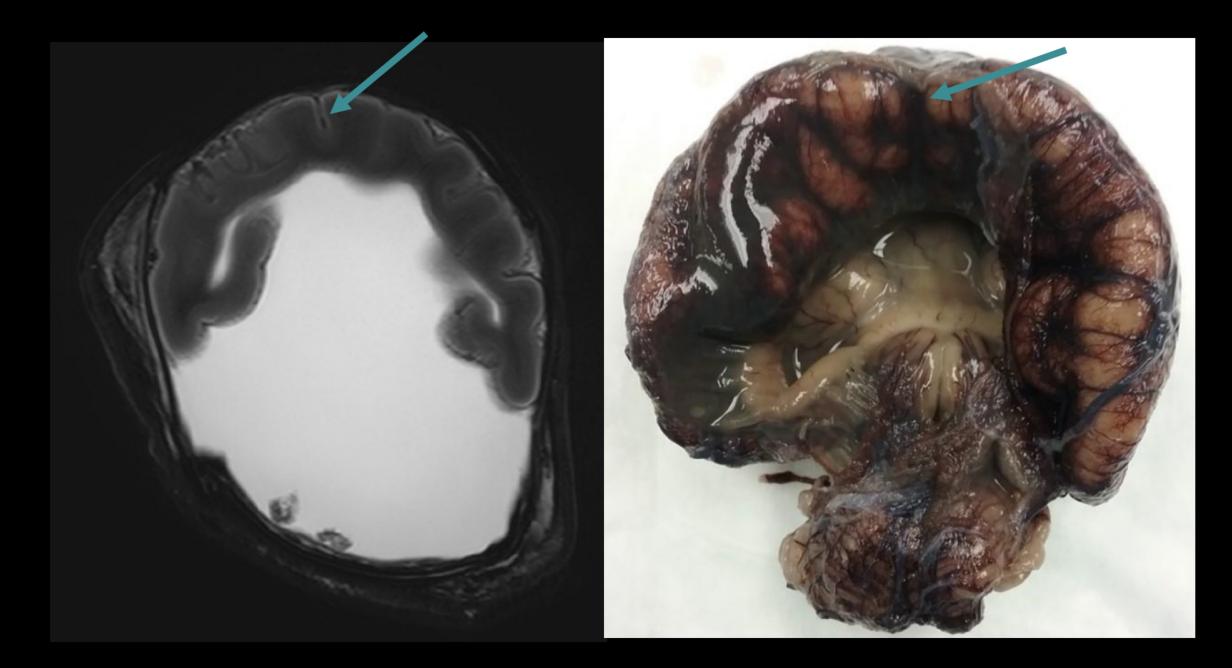
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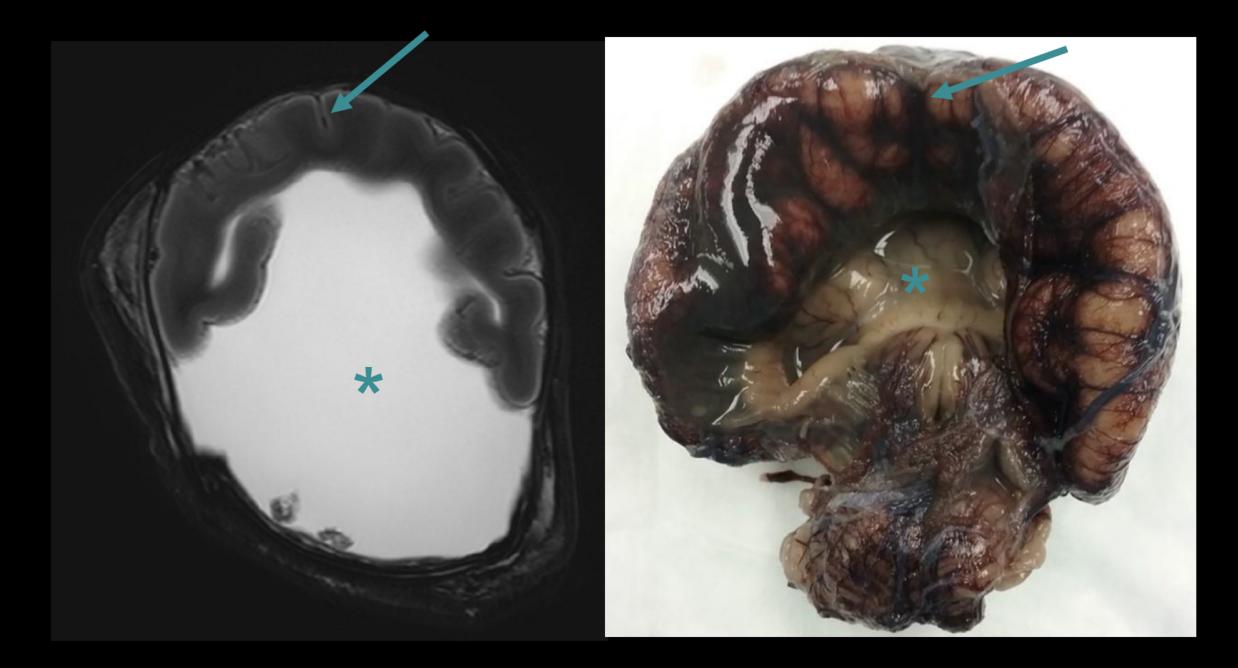
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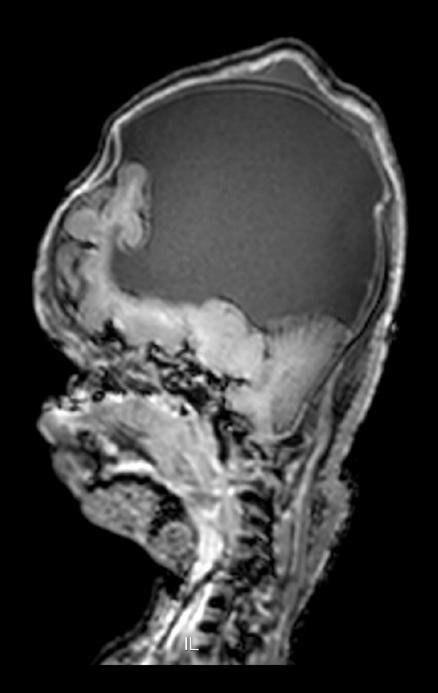


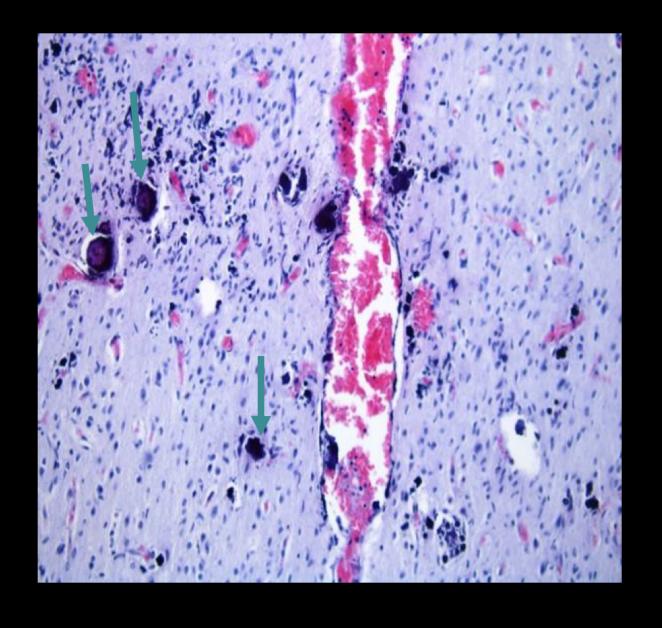






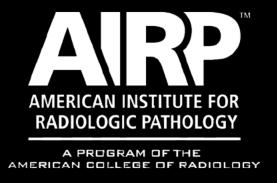




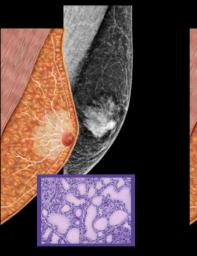


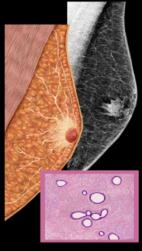
#### Holoprosencephaly/Congenital Zika Infection

Jidi Gao Tufts Medical Center Boston, MA



#### **Breast Best Case**





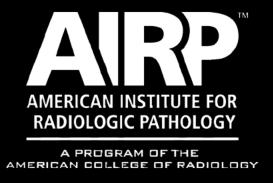




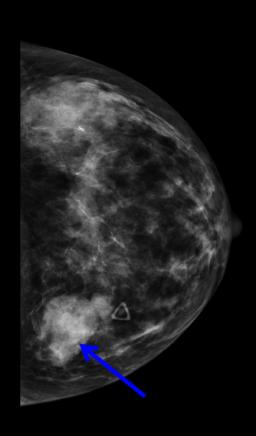
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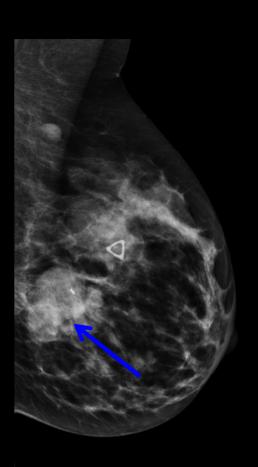
#### Clinical Information

48-yo female with a palpable left upper inner quadrant breast mass. Family history remarkable for two sisters with breast cancer.

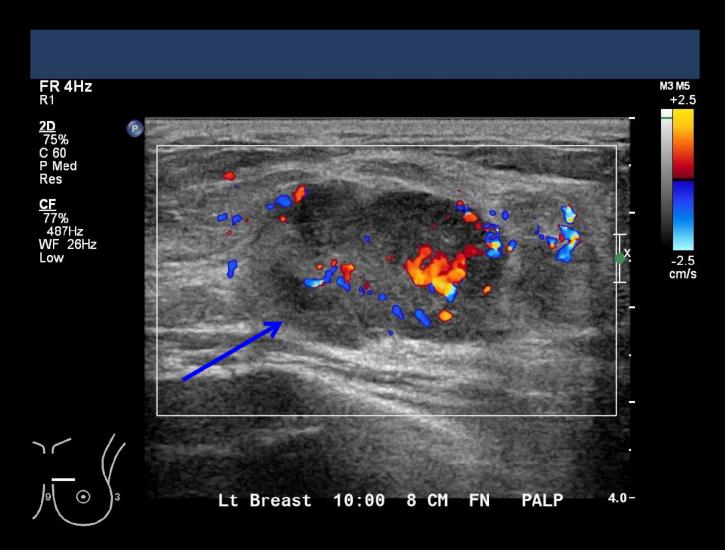


### Mammogram

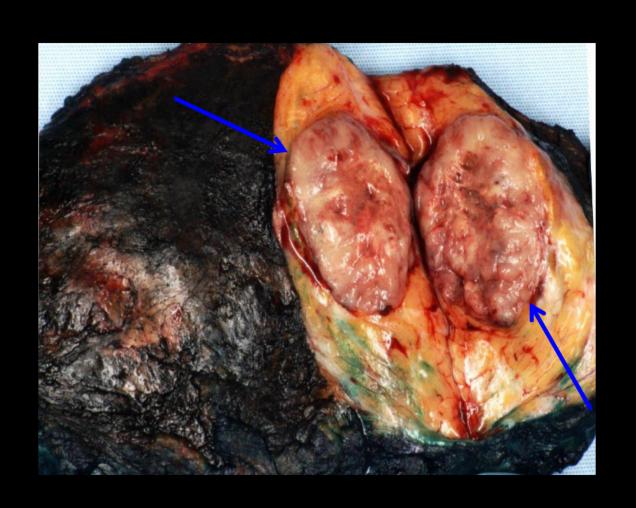




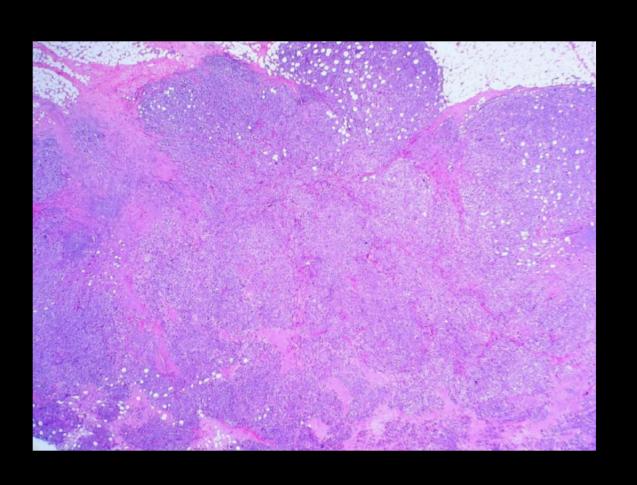
#### **Breast US**

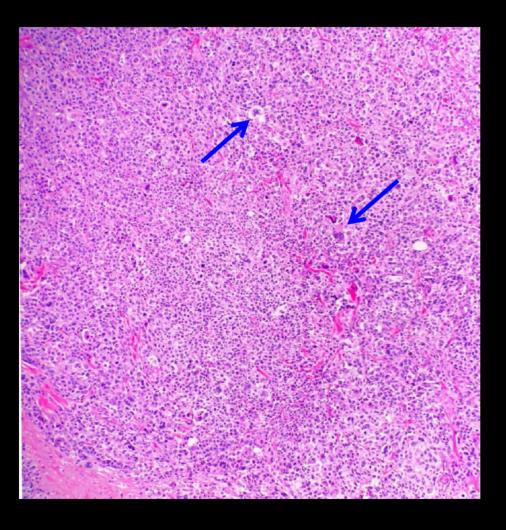


#### Gross

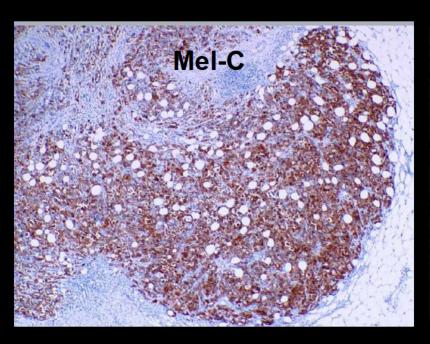


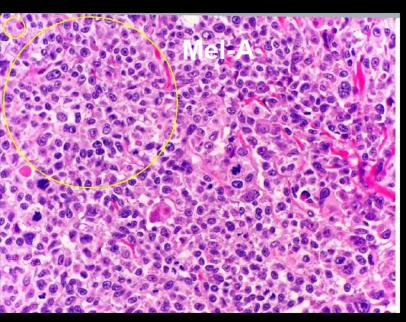
## Histology





## Histology





# Primary Melanoma of the Breast

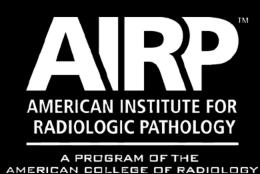
Iliannie Rodriguez Chaluisant Hartford Hospital Hartford, Connecticut



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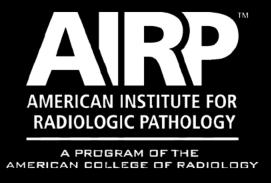
## **Genitourinary Best Case**





#### Clinical Information

60 year old African American female presents for a wellness exam where she was found to have an abnormal EKG. A transthoracic echocardiogram was performed which revealed a right atrial mass.





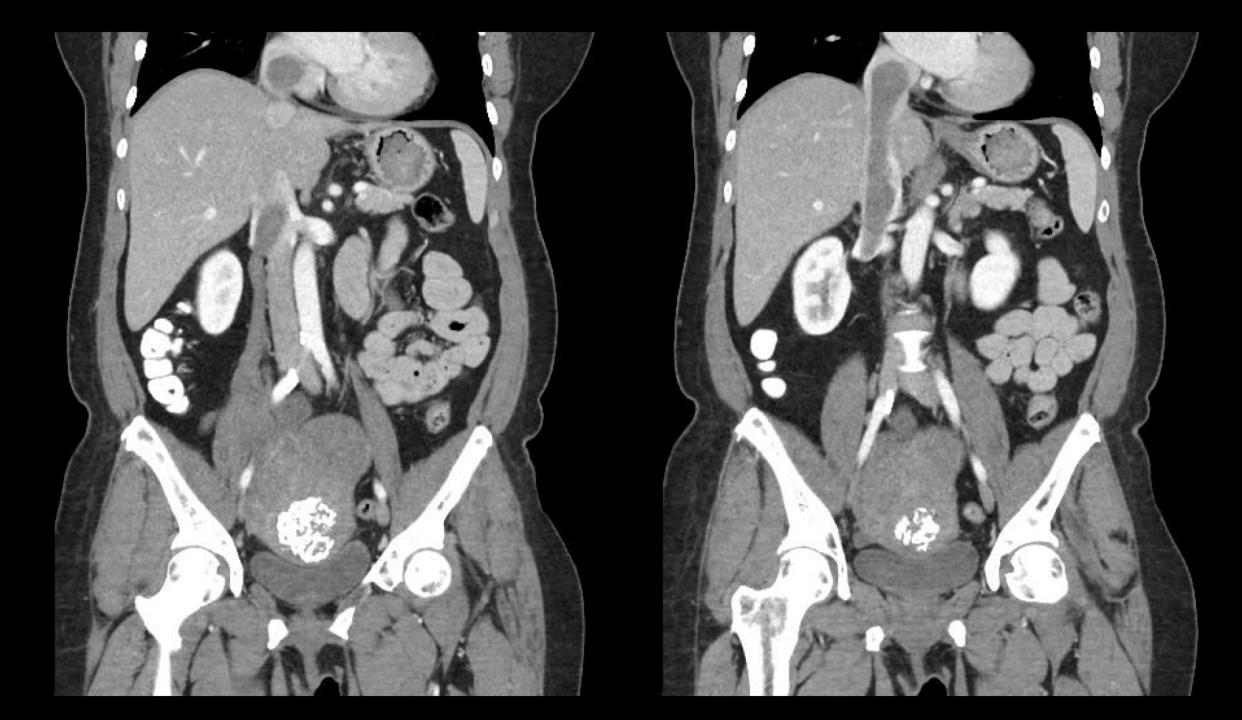


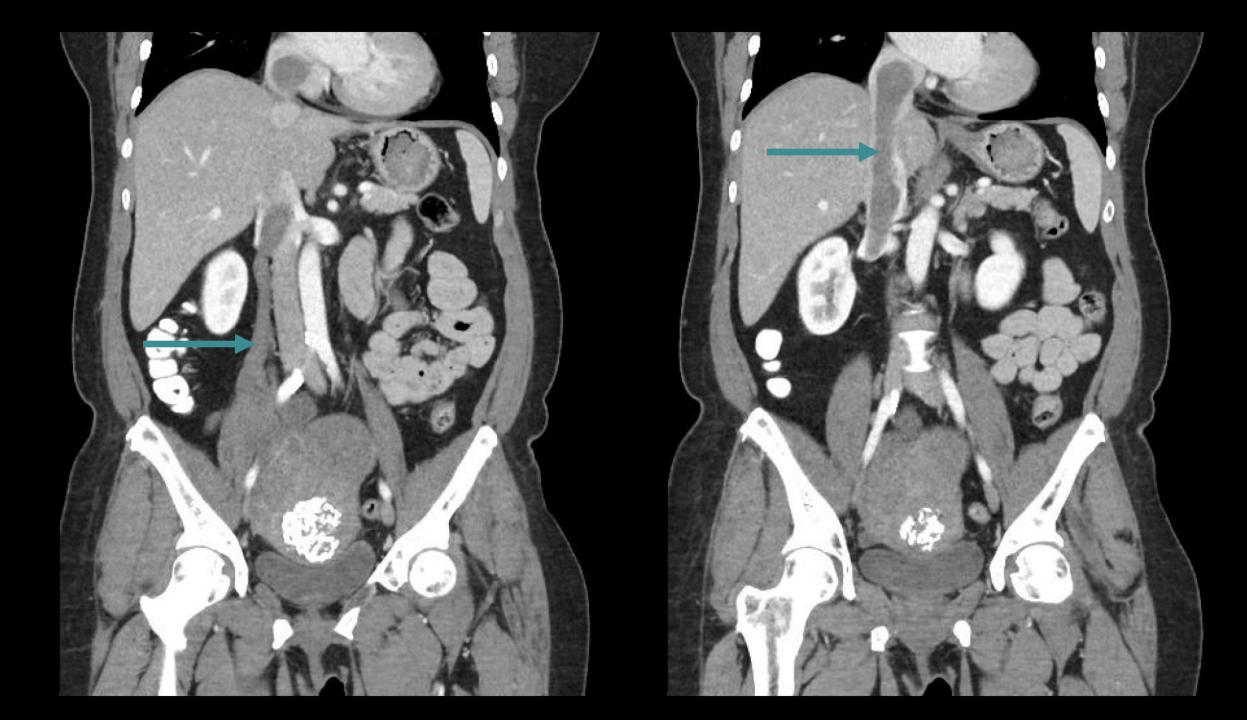
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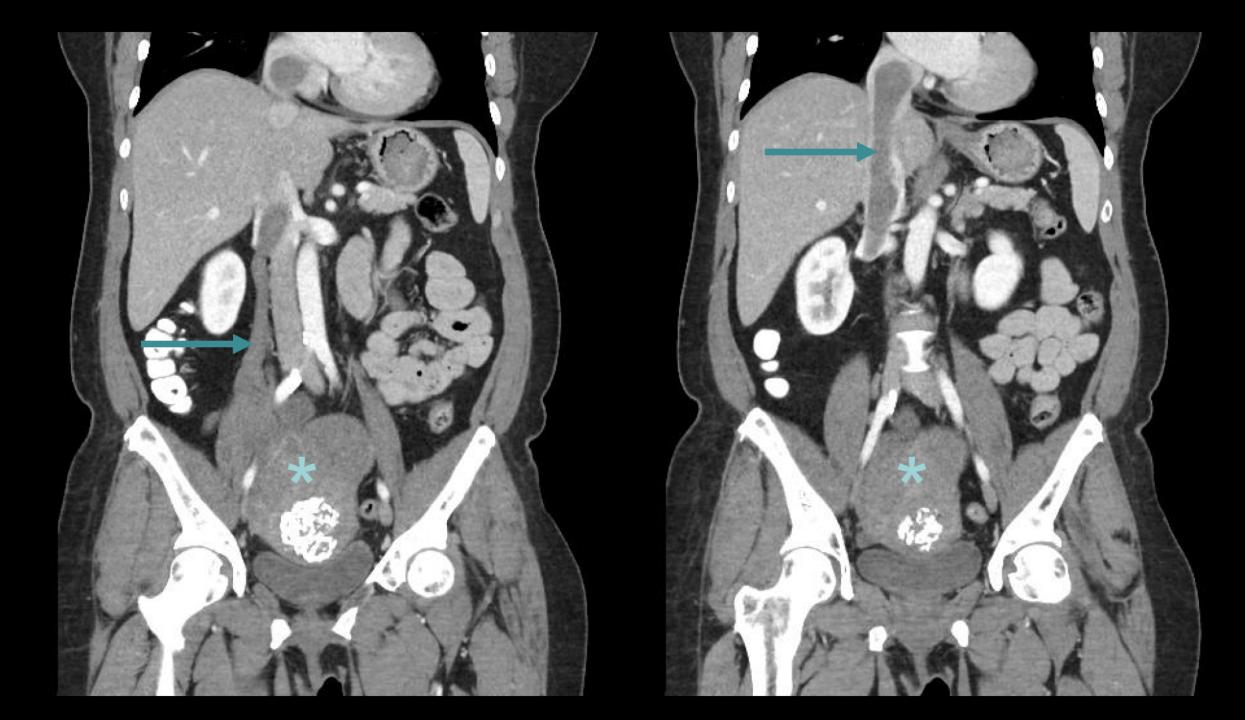


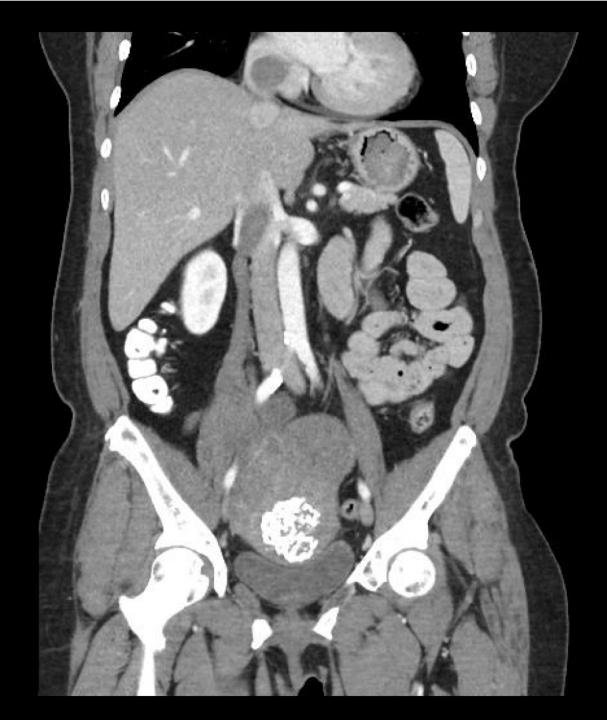


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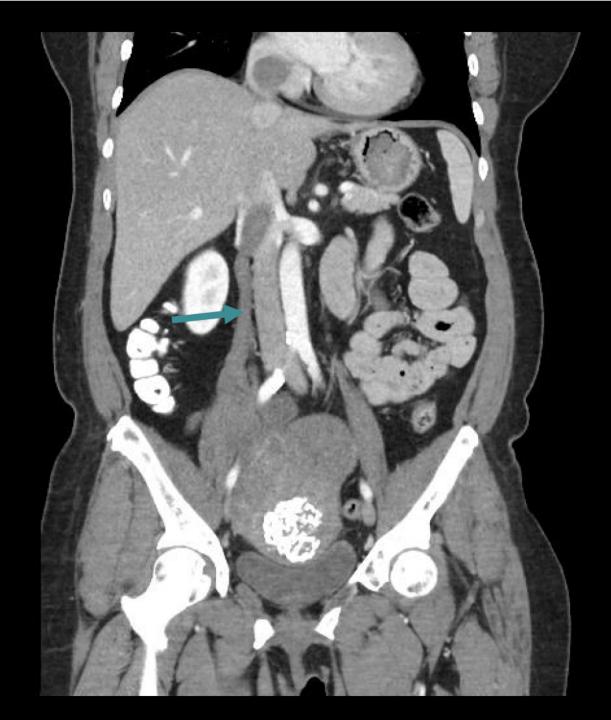




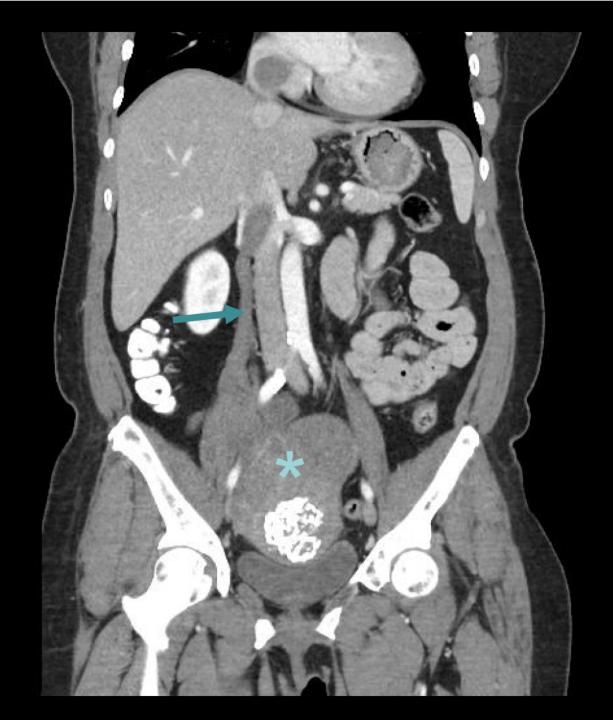




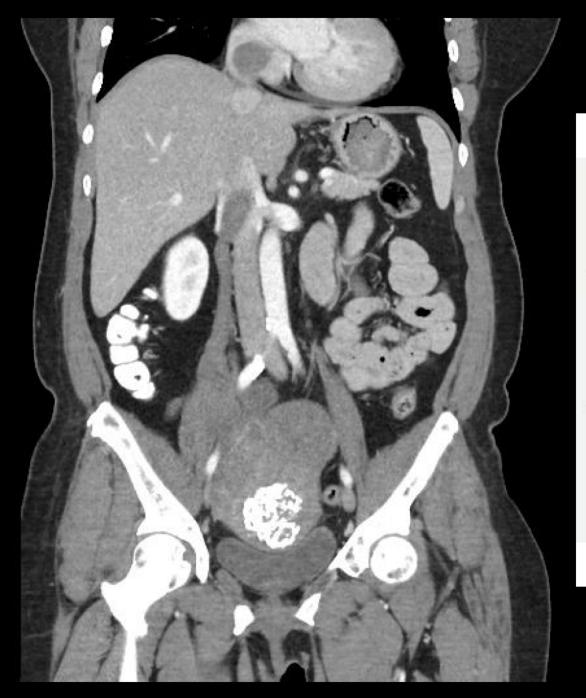




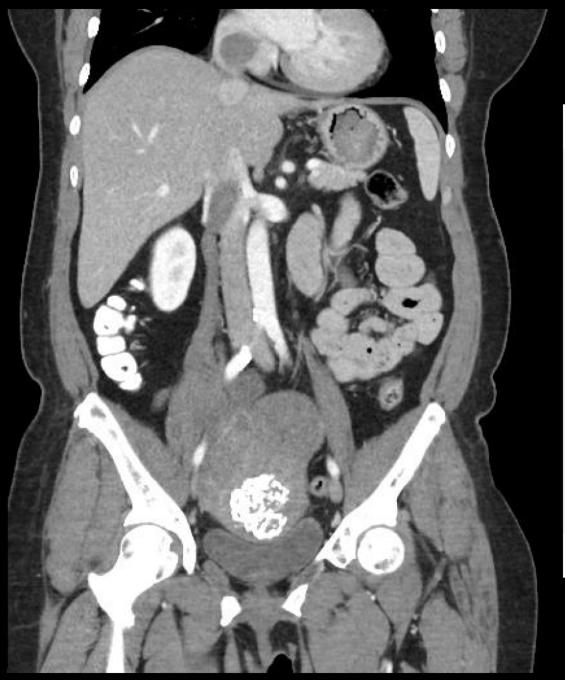














#### Intravenous Leiomyoma





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