

Best Cases of the AIRP

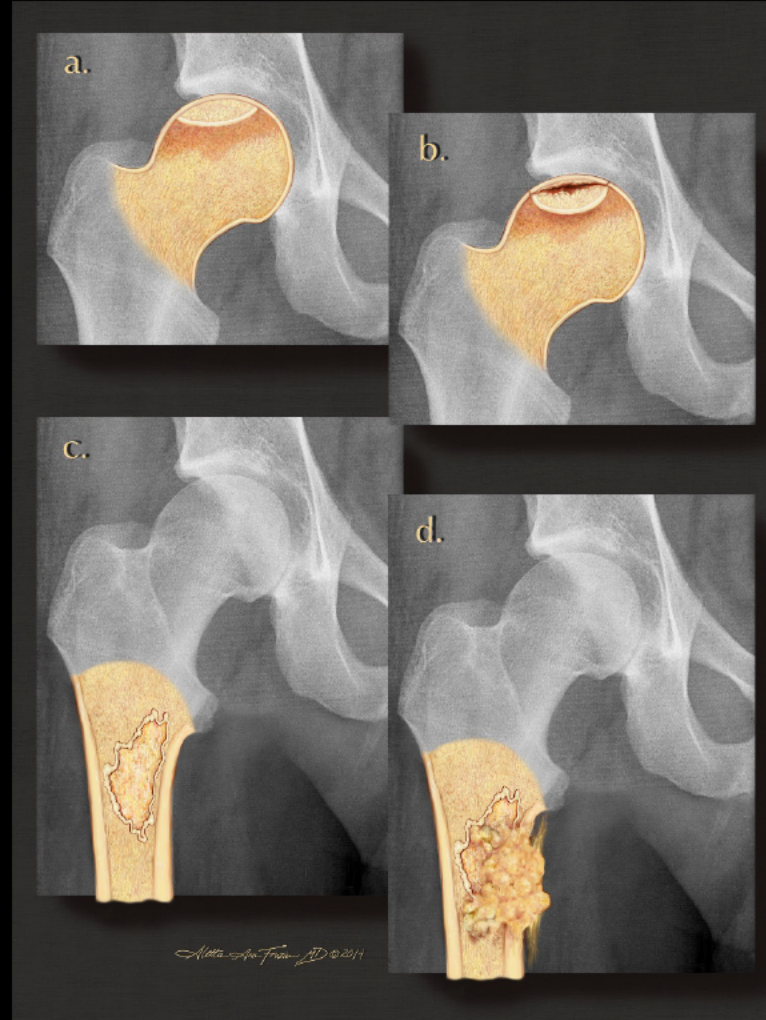
October-November, 2019

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Musculoskeletal Best Case



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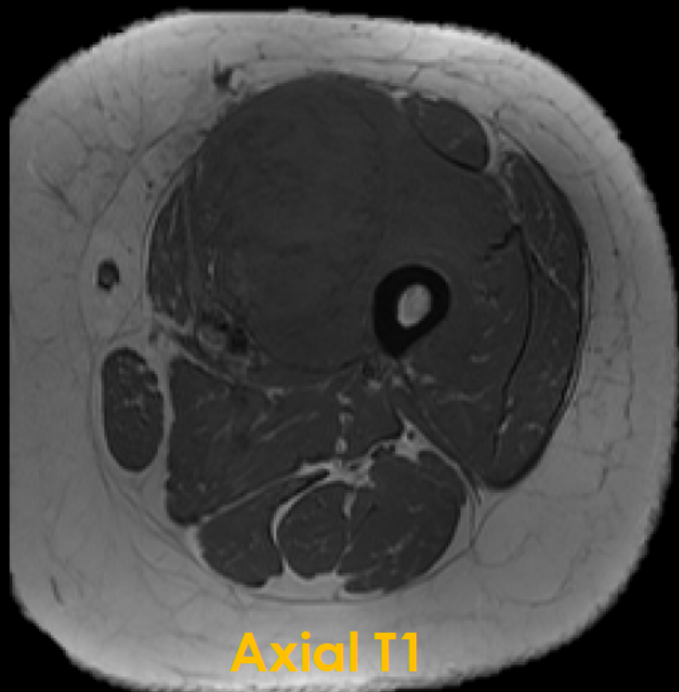
CLINICAL INFORMATION

14-year-old female with two months of thigh pain

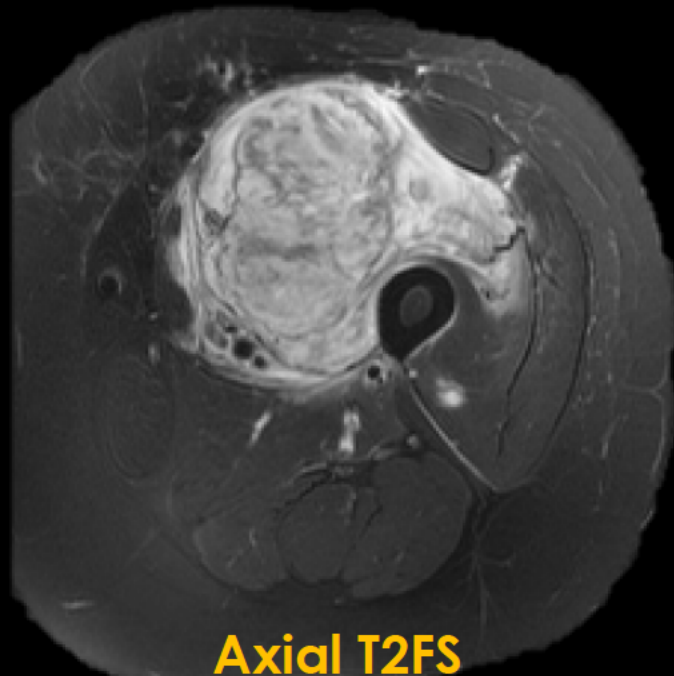
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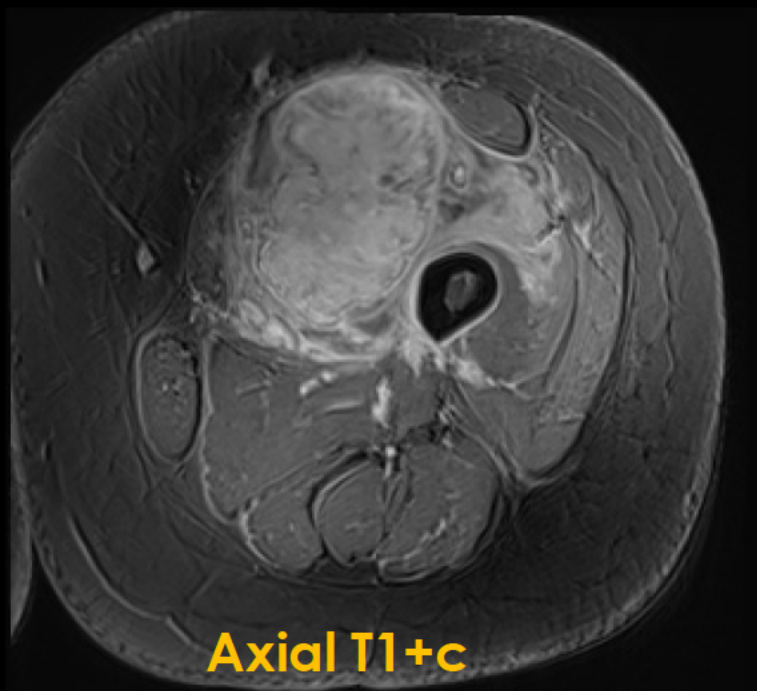
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Axial T1



Axial T2FS



Axial T1+c

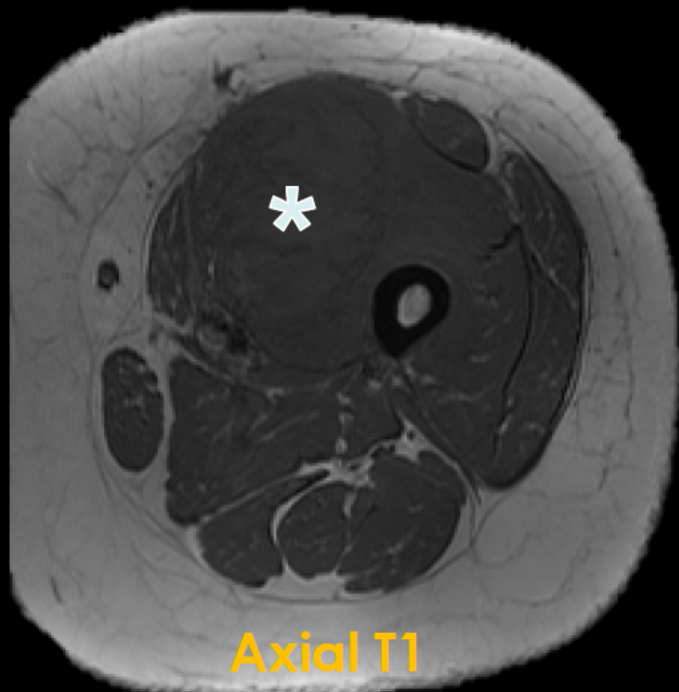


Coronal T2FS

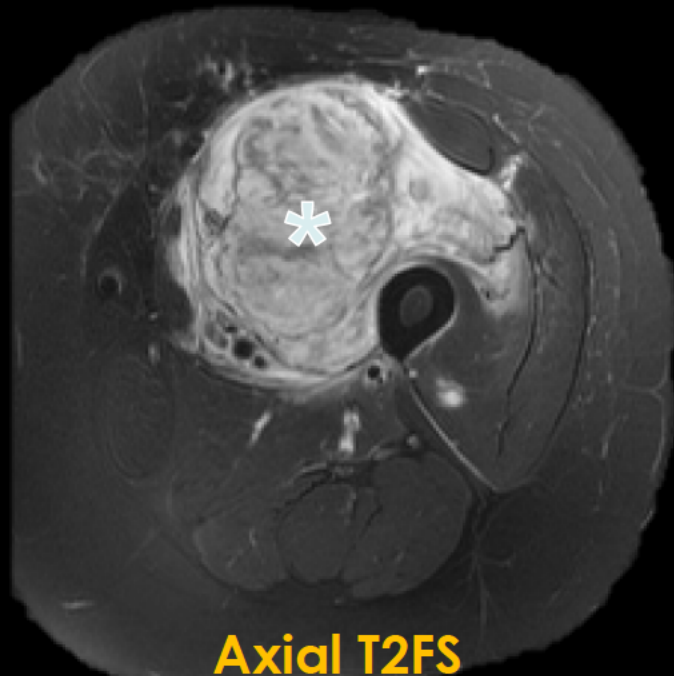
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Axial T1



Axial T2FS



Axial T1+c

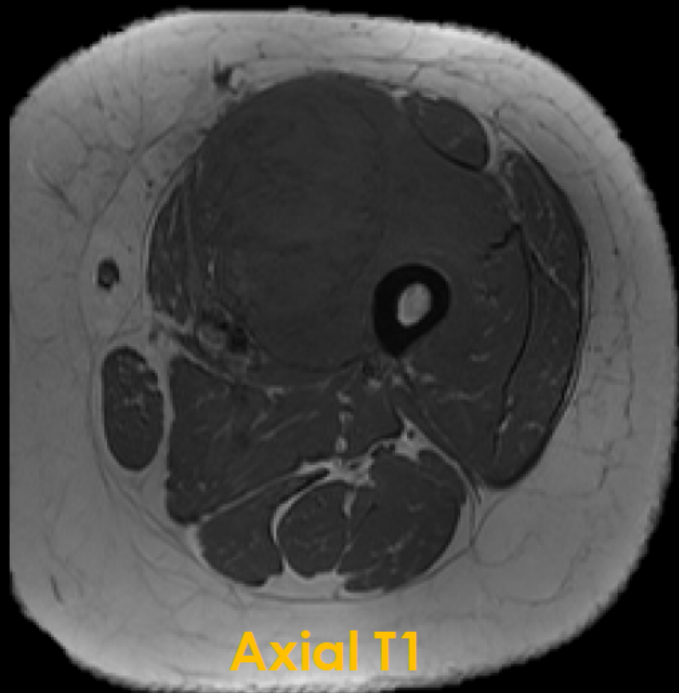


Coronal T2FS

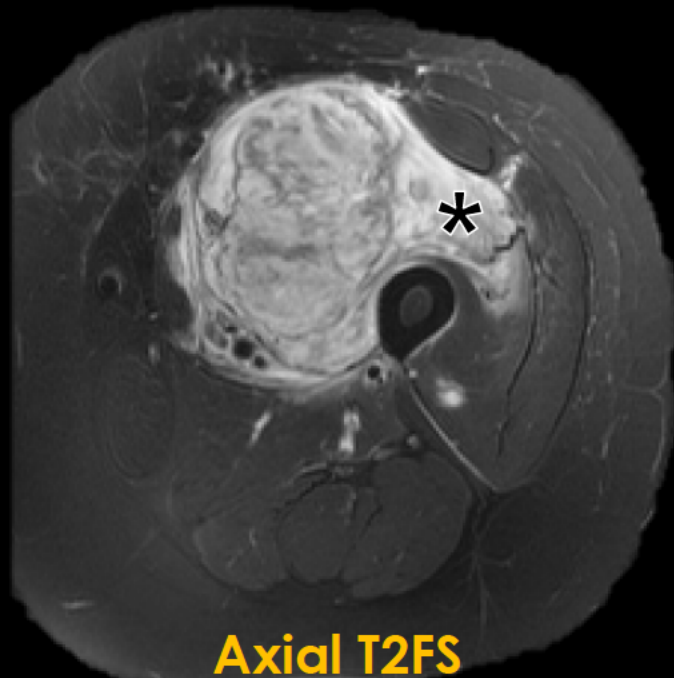
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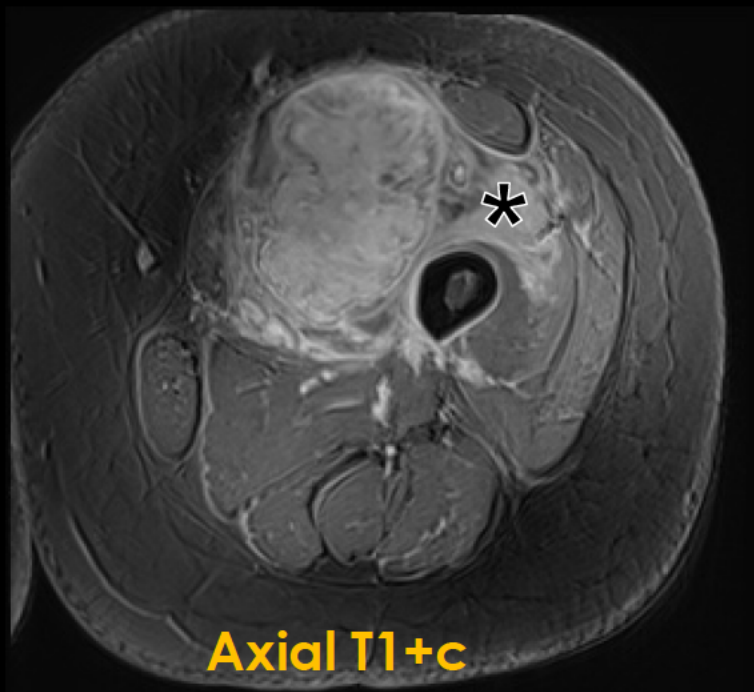
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Axial T1



Axial T2FS



Axial T1+c

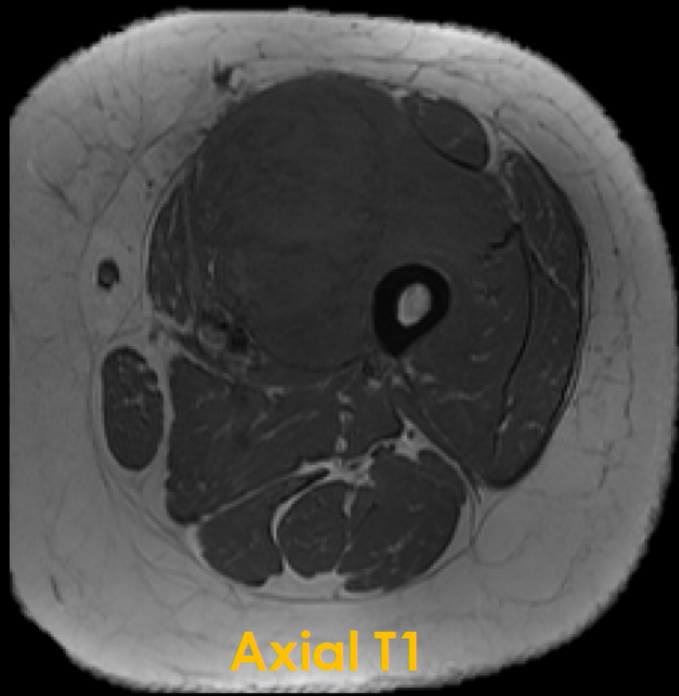


Coronal T2FS

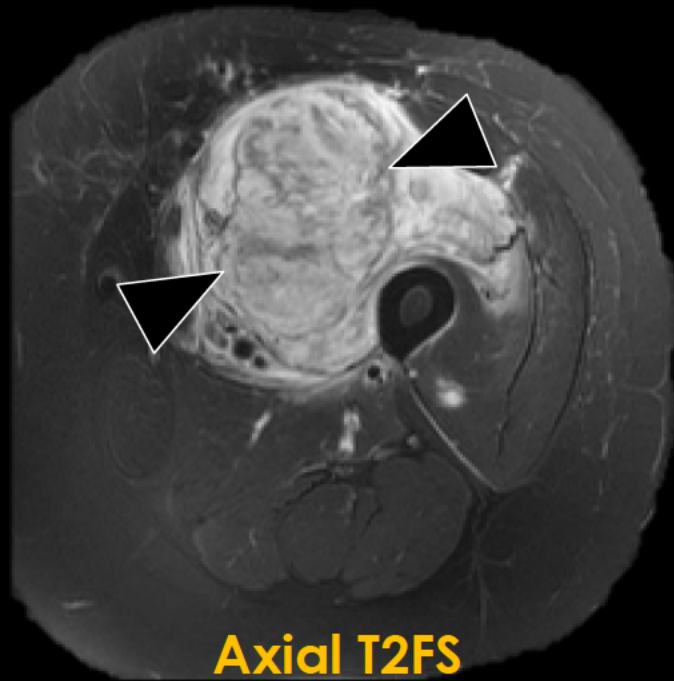
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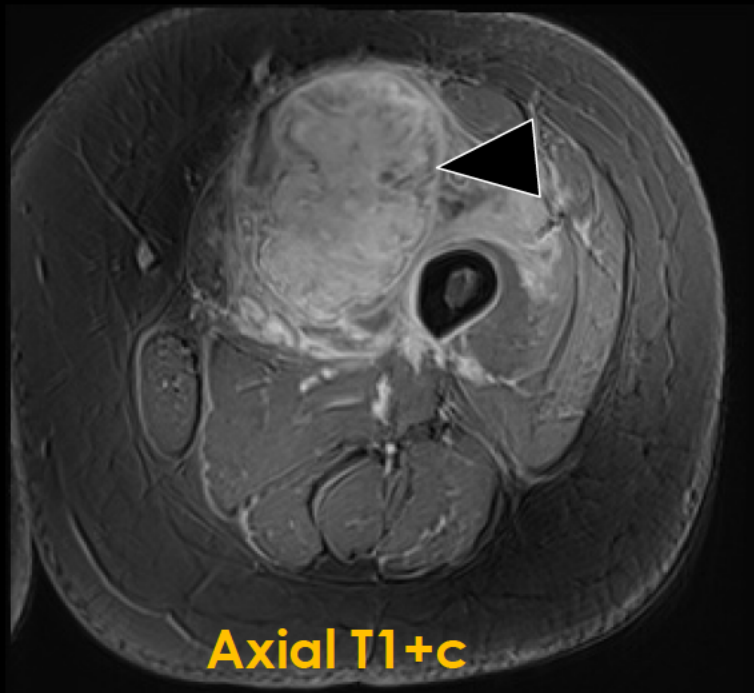
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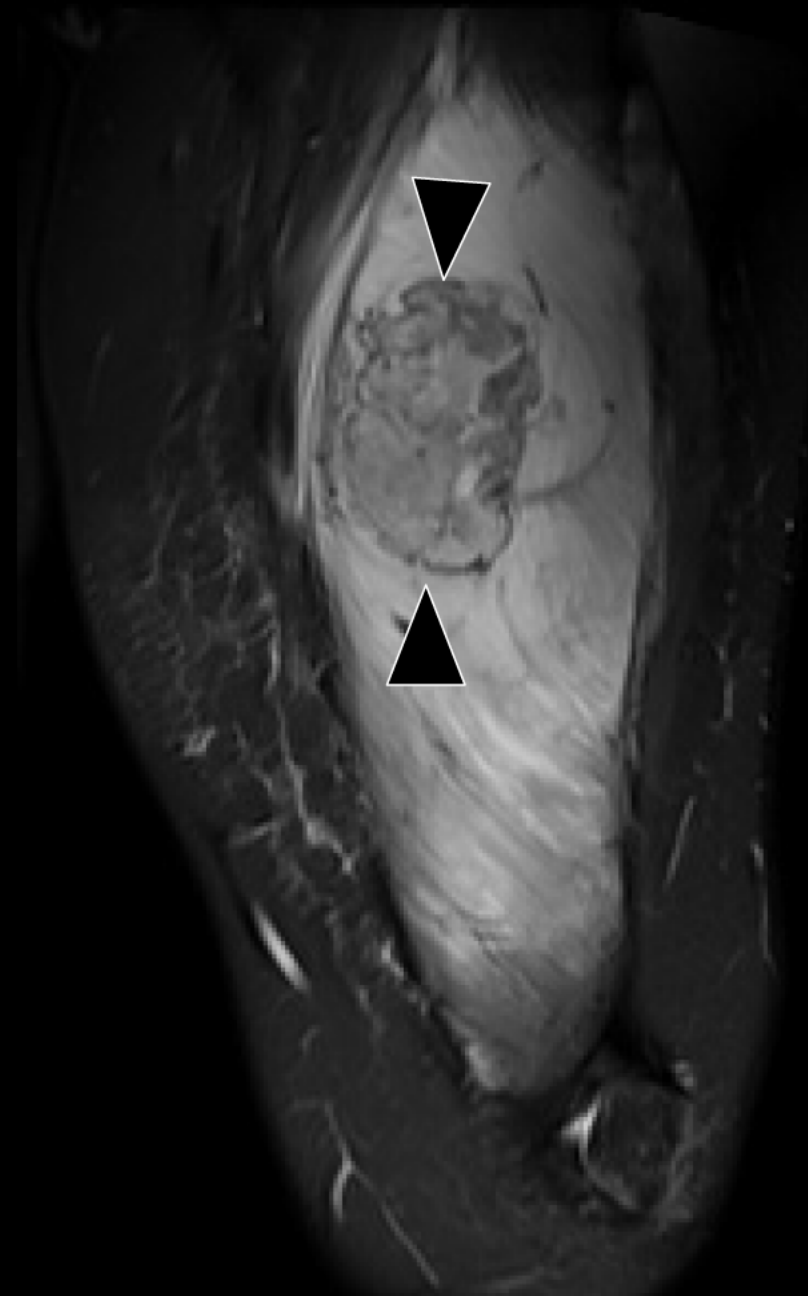
Axial T1



Axial T2FS



Axial T1+c



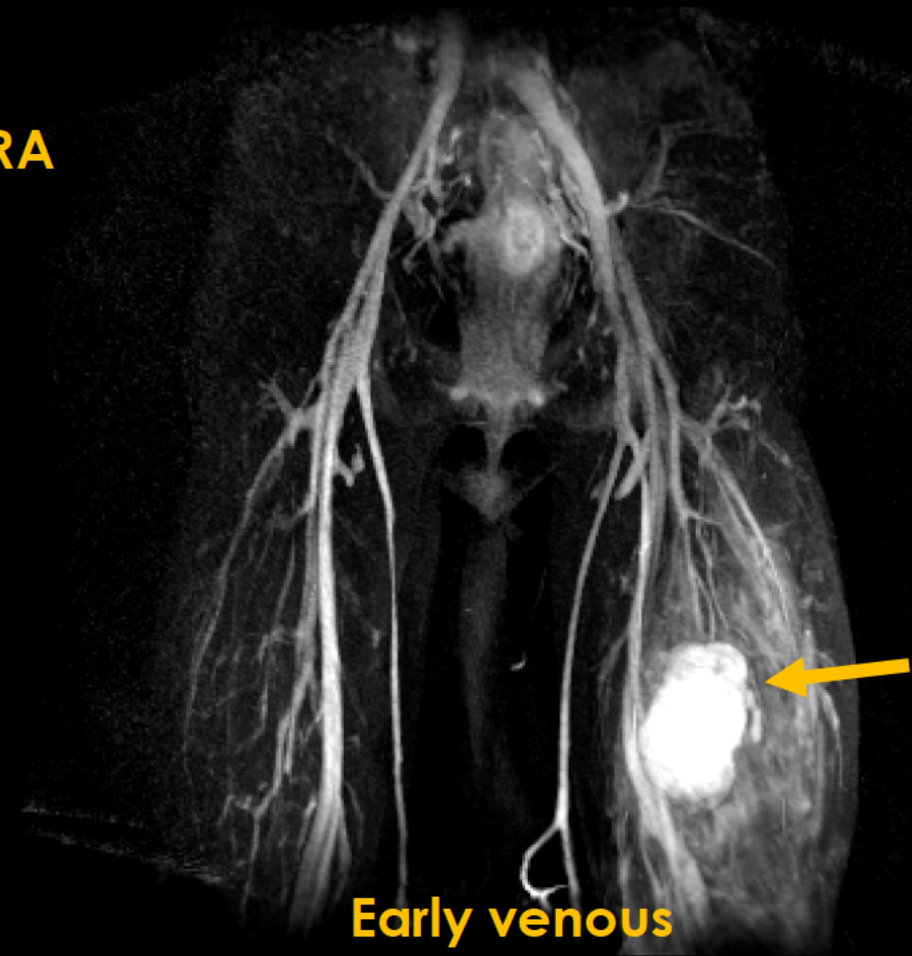
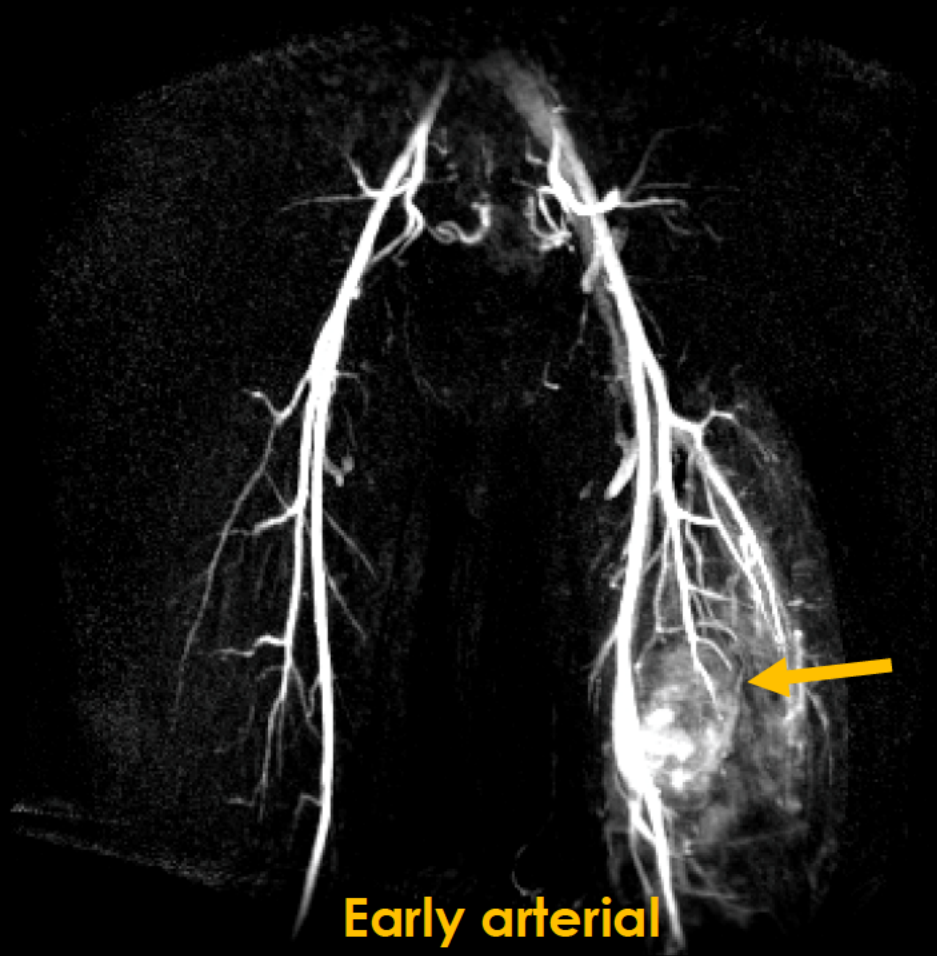
Coronal T2FS

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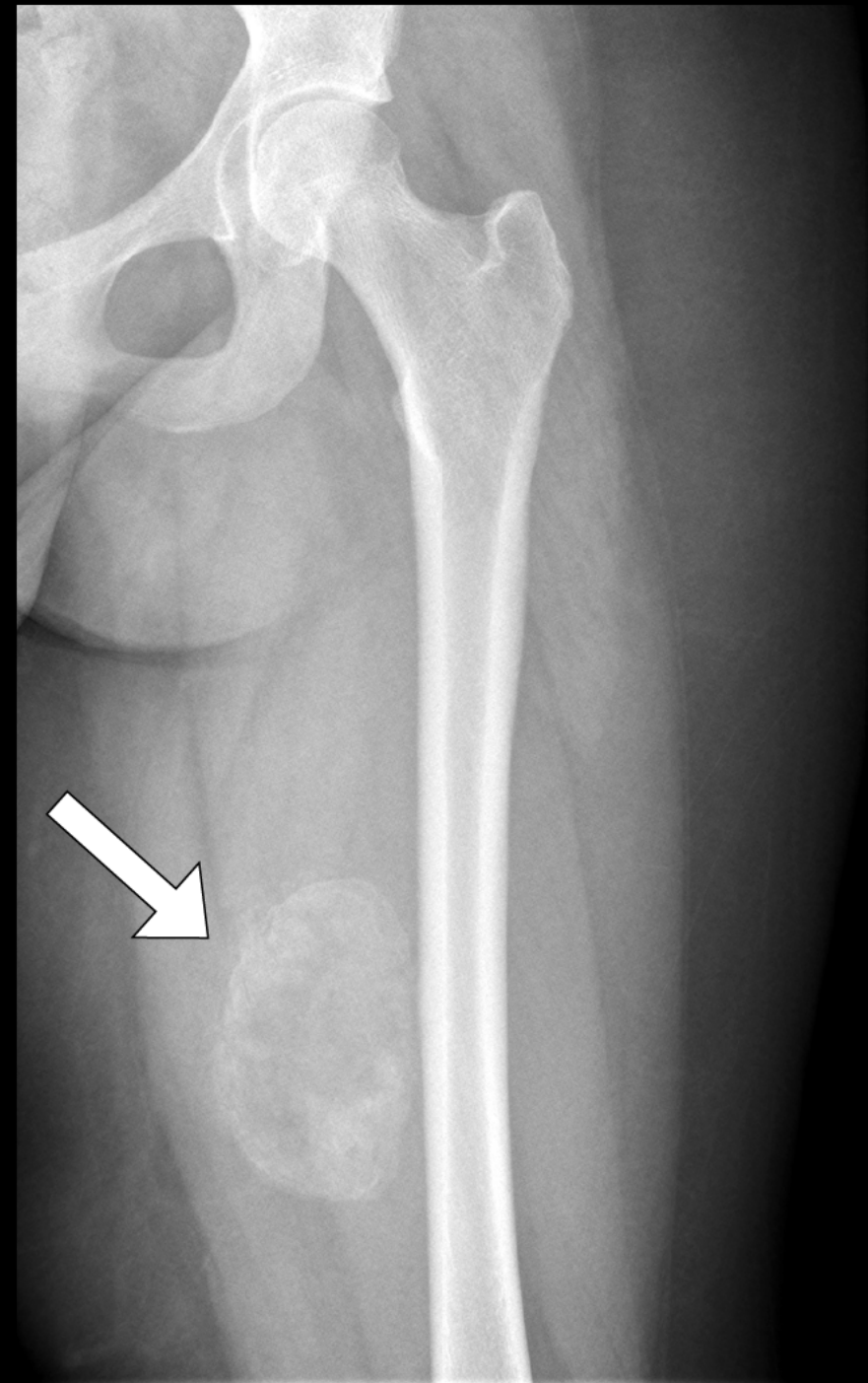
**Coronal
dynamic MRA**



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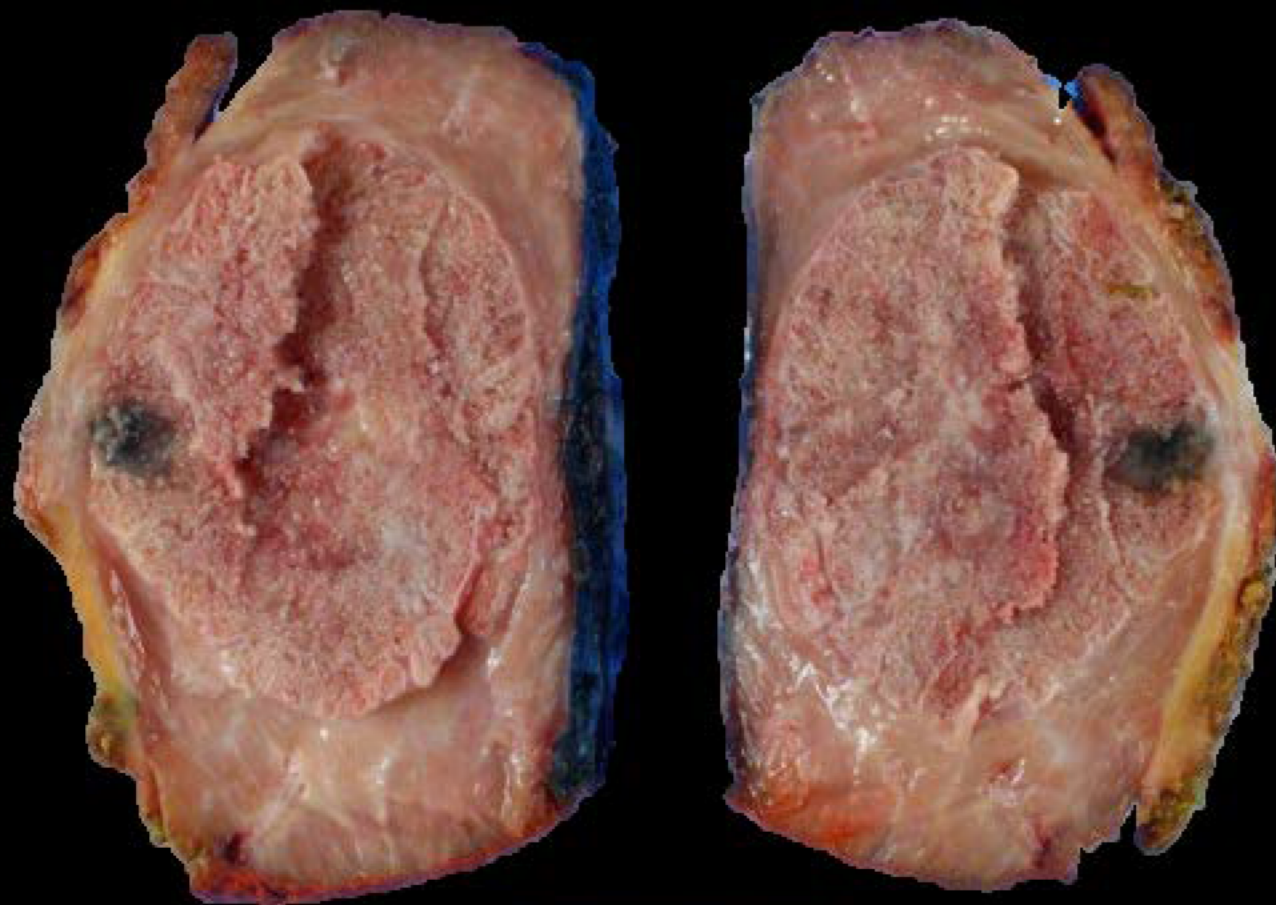
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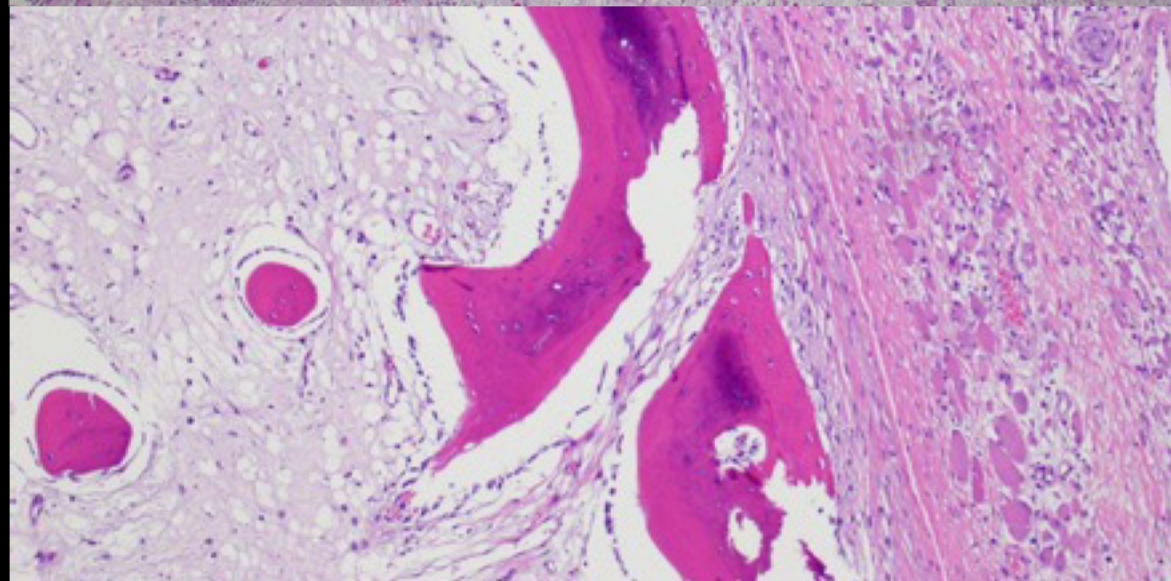
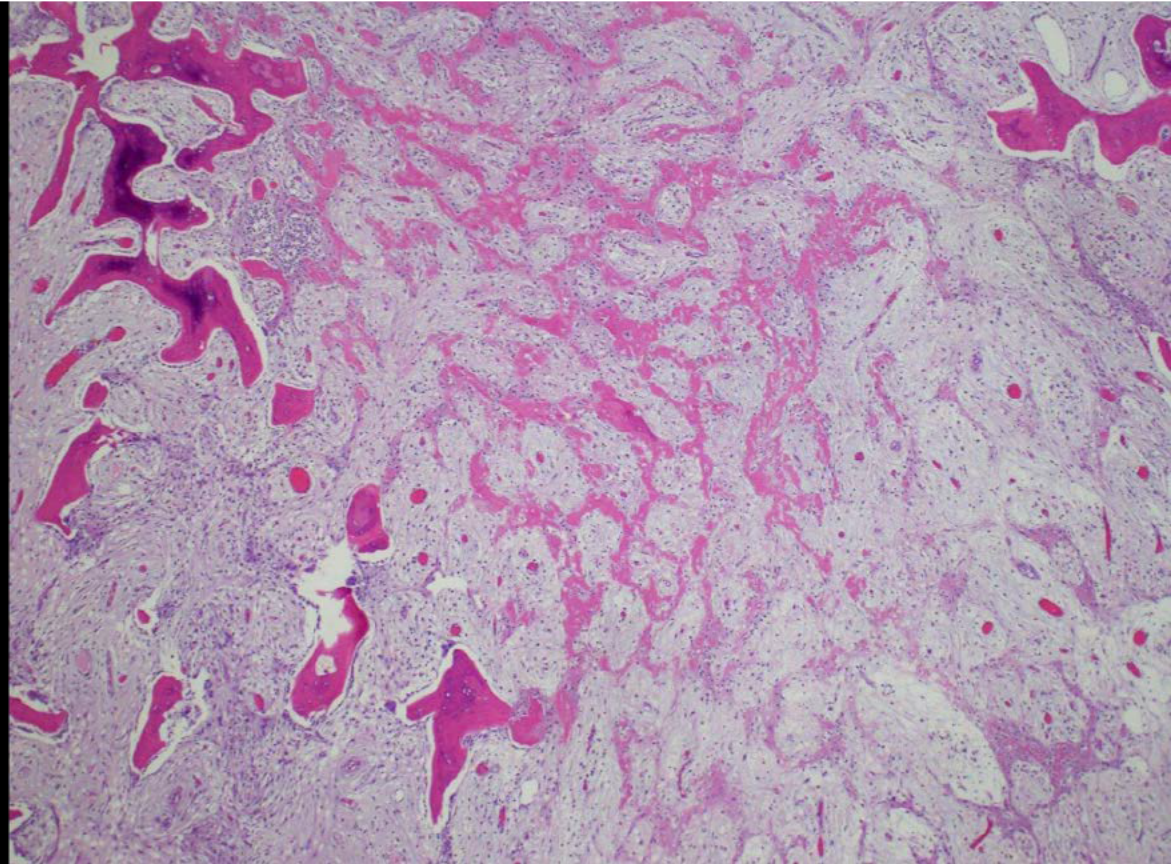
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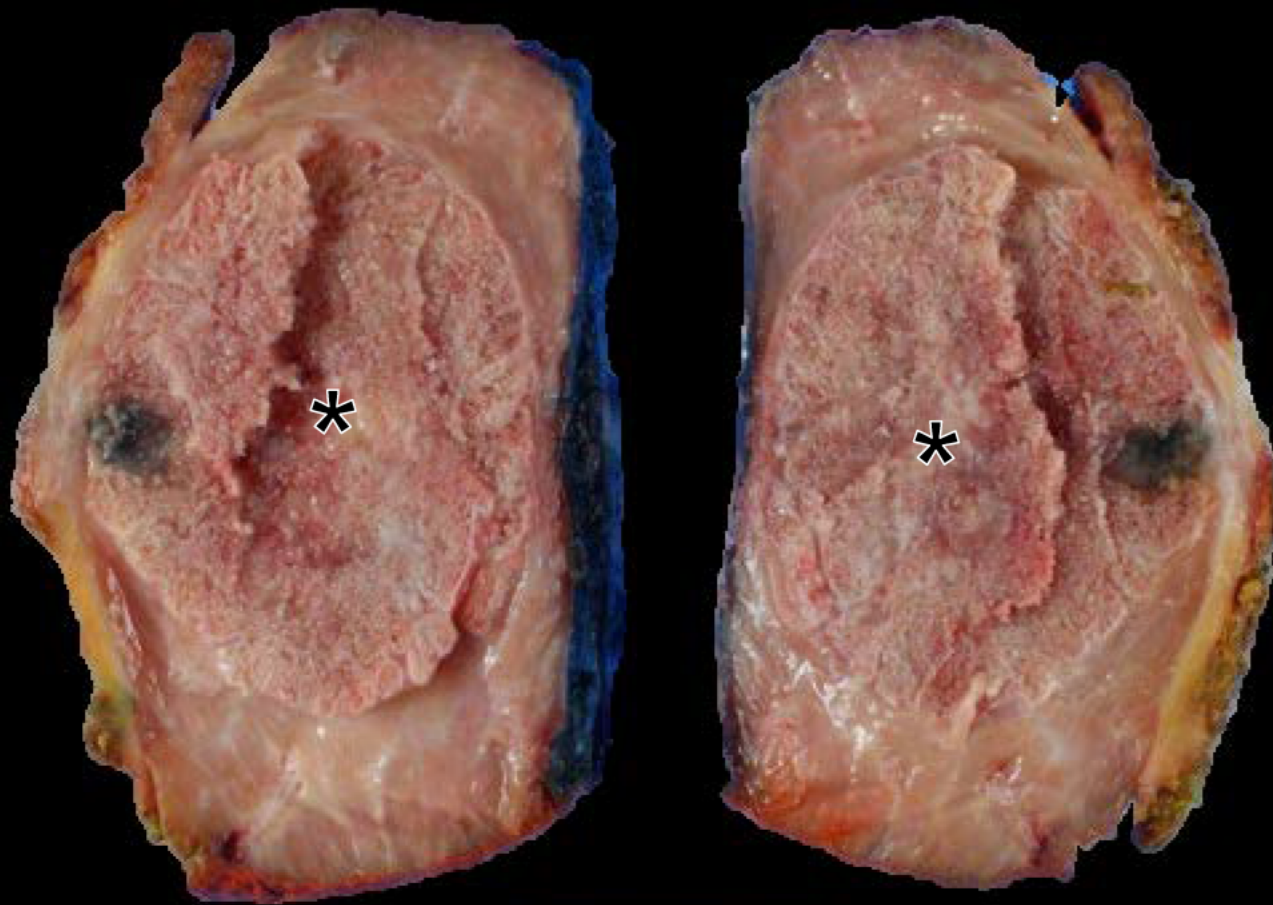
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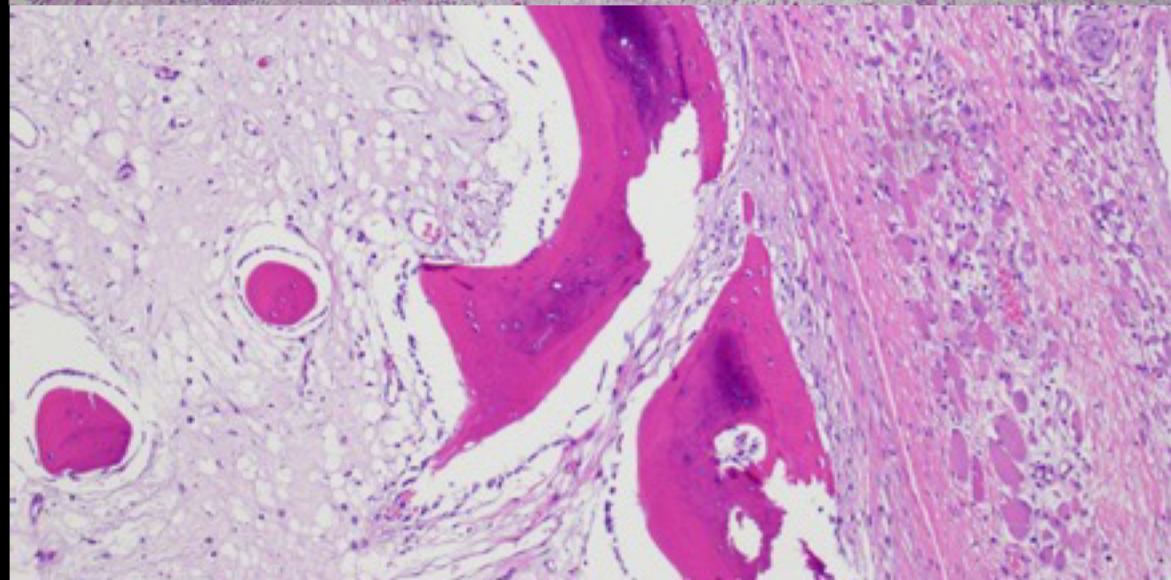
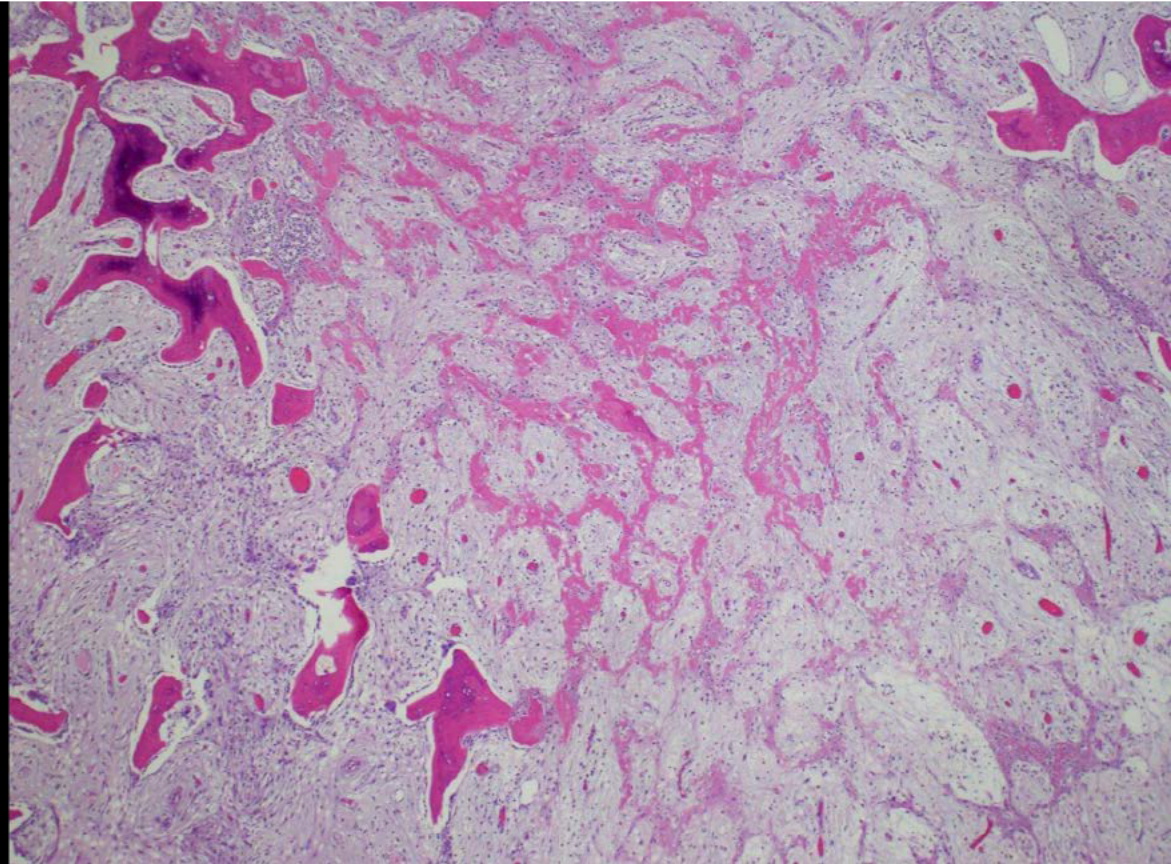
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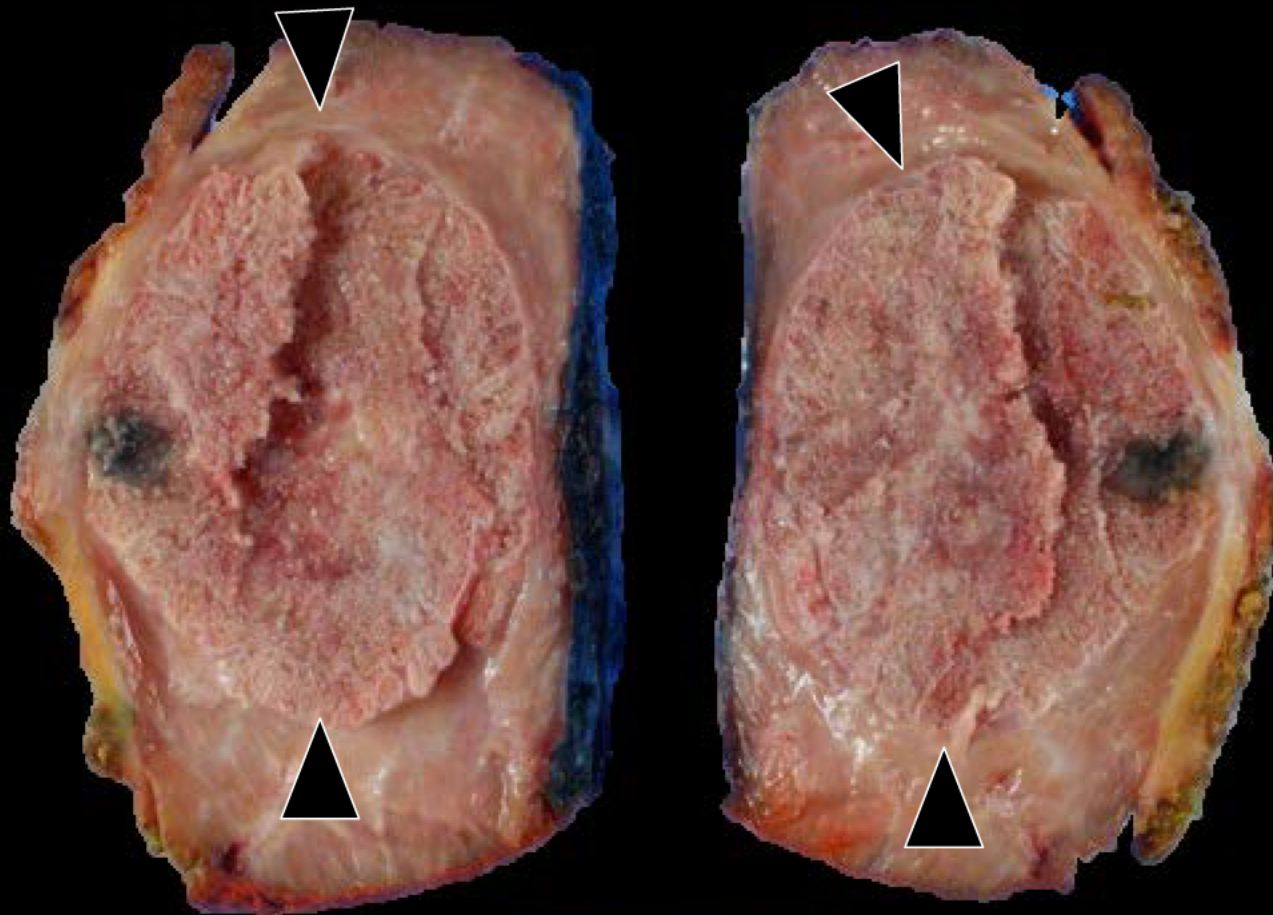




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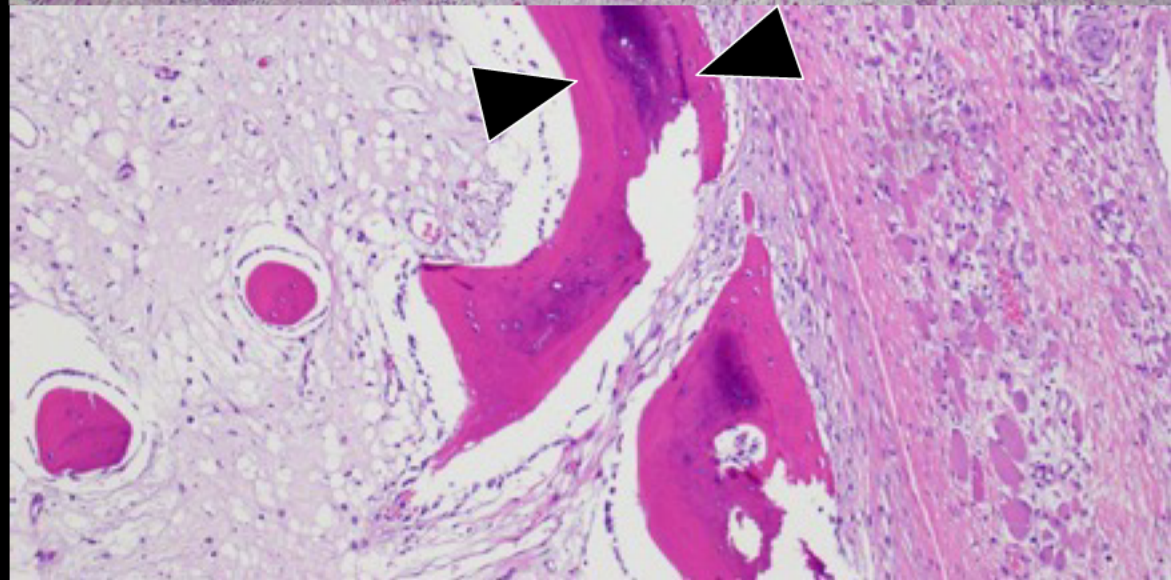
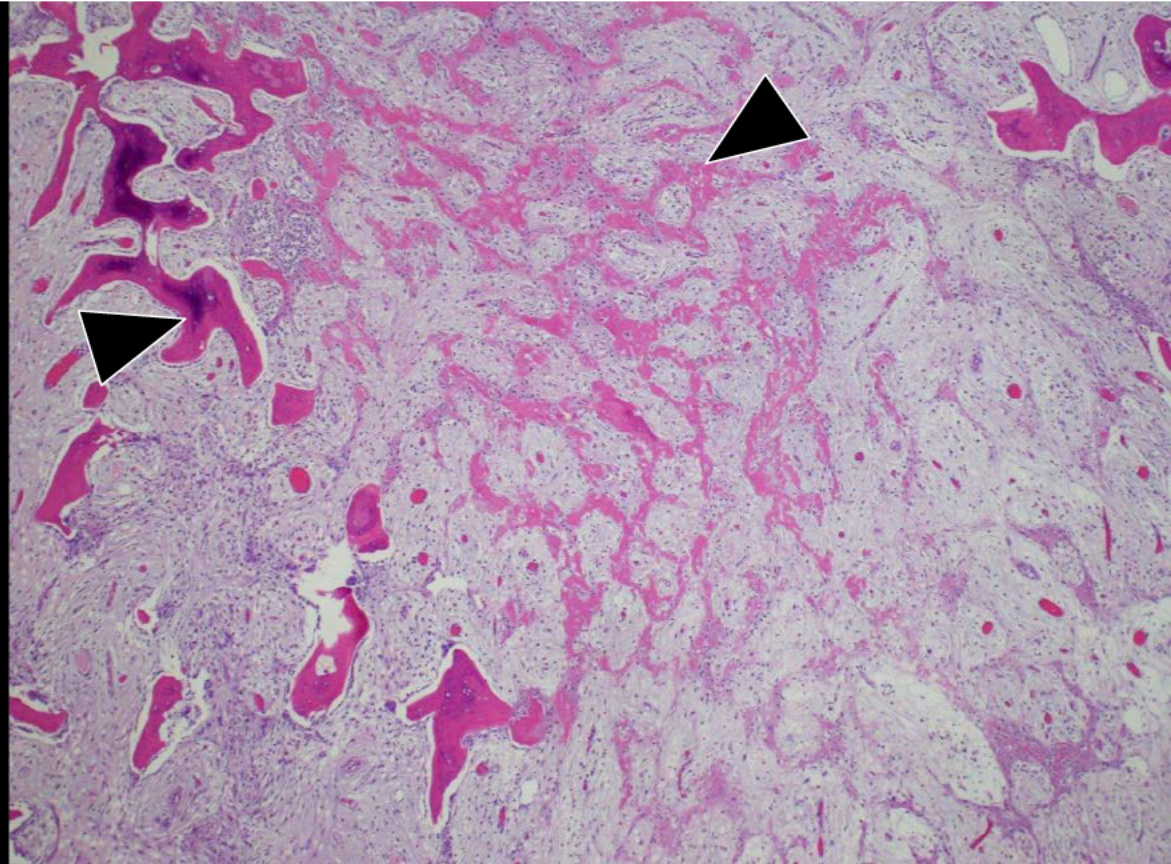
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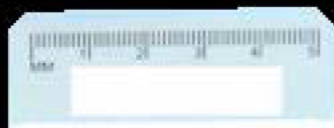
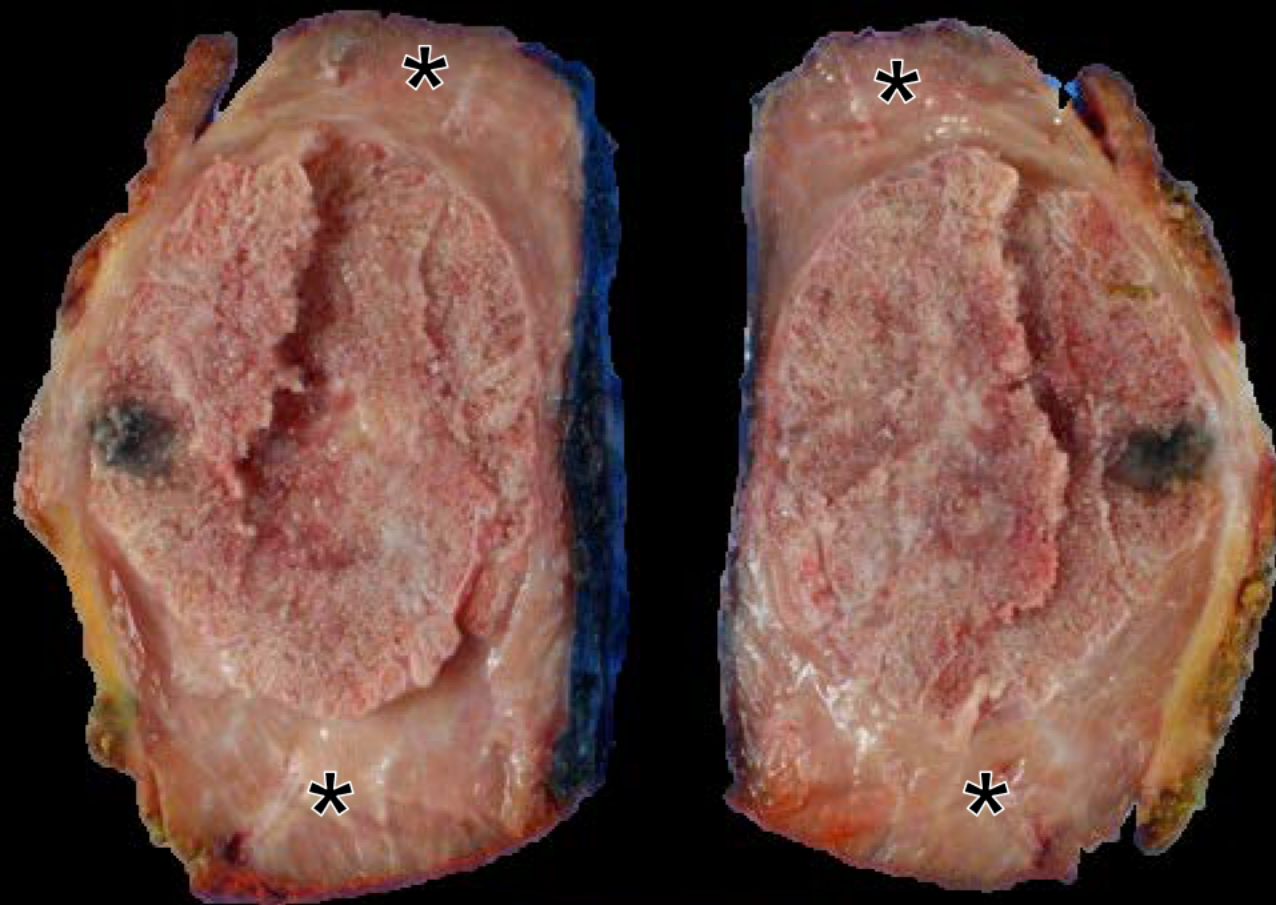




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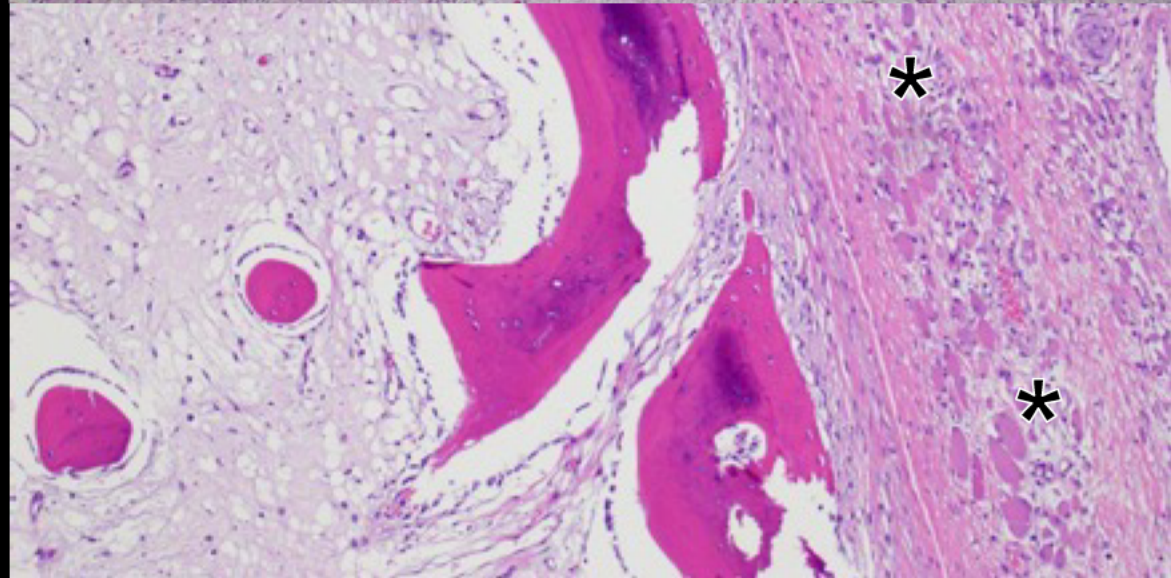
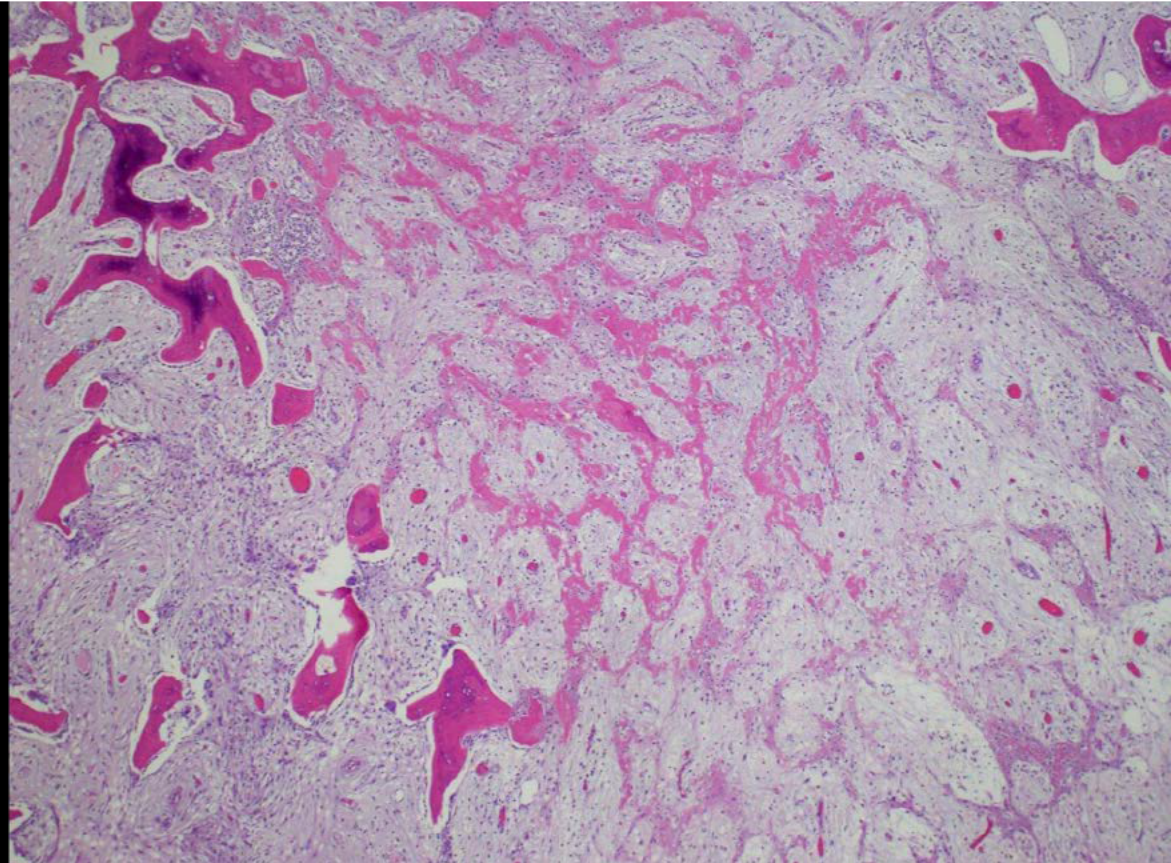
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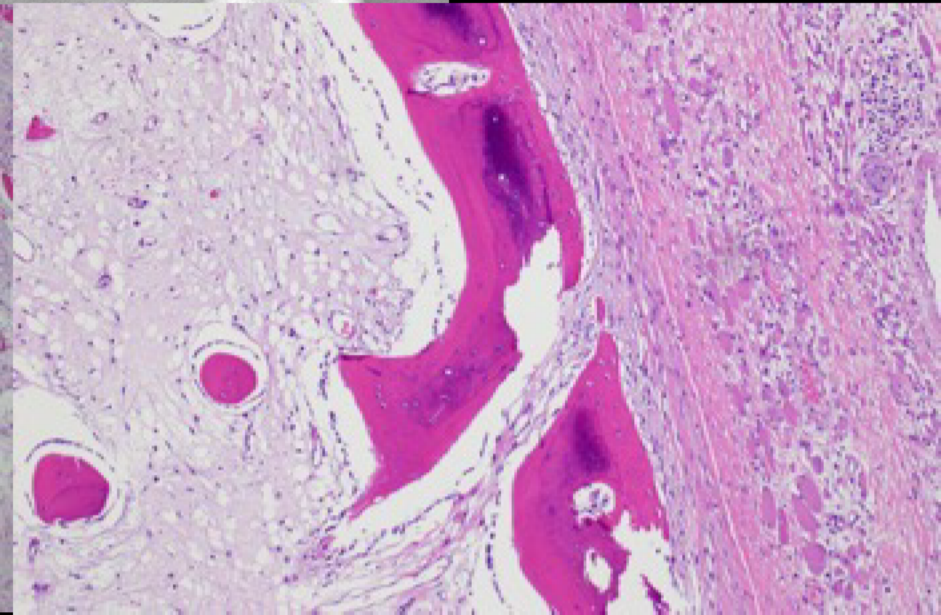
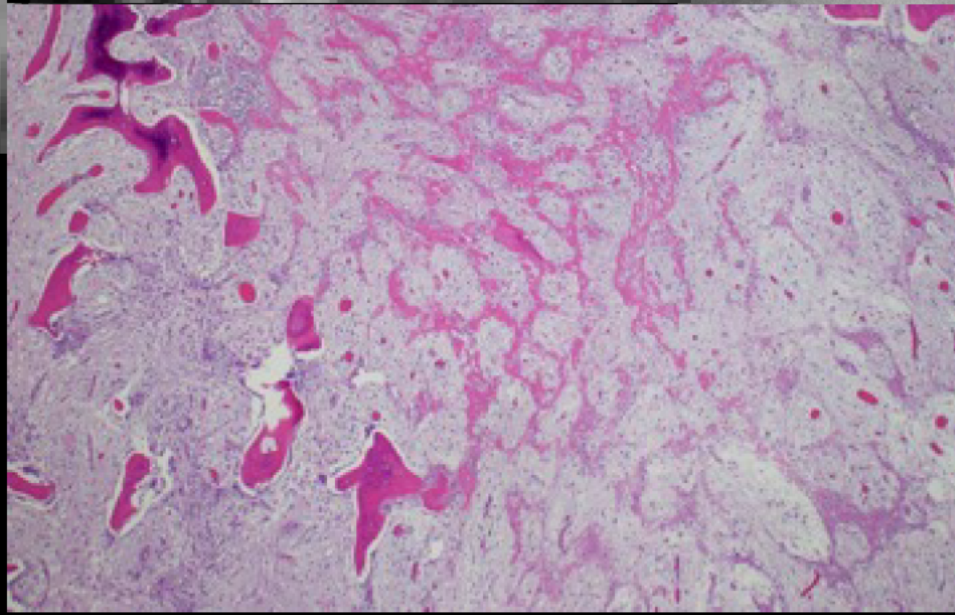
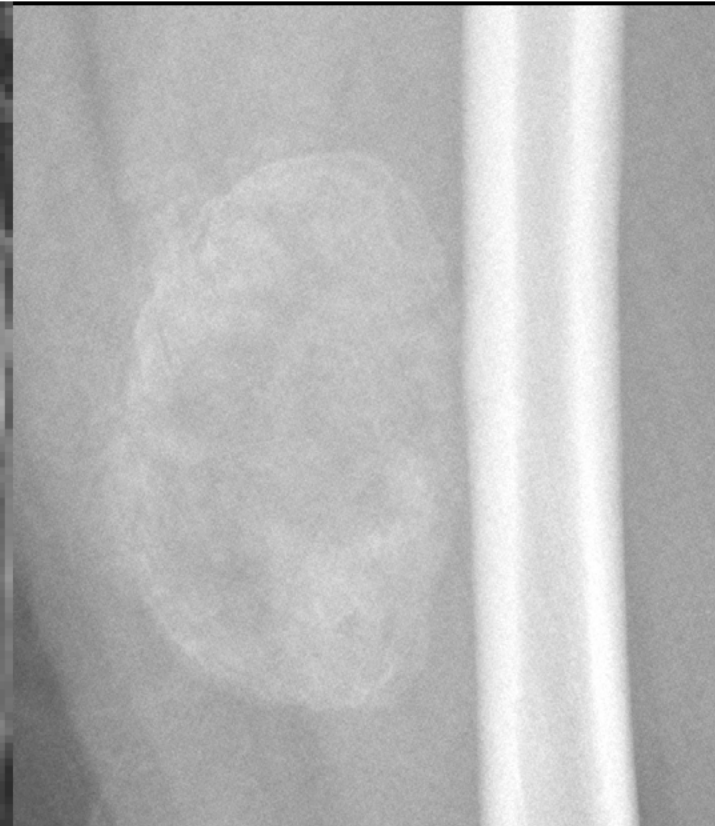




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MYOSITIS OSSIFICANS

Dr. Ryan Murphy

University of Texas Southwestern

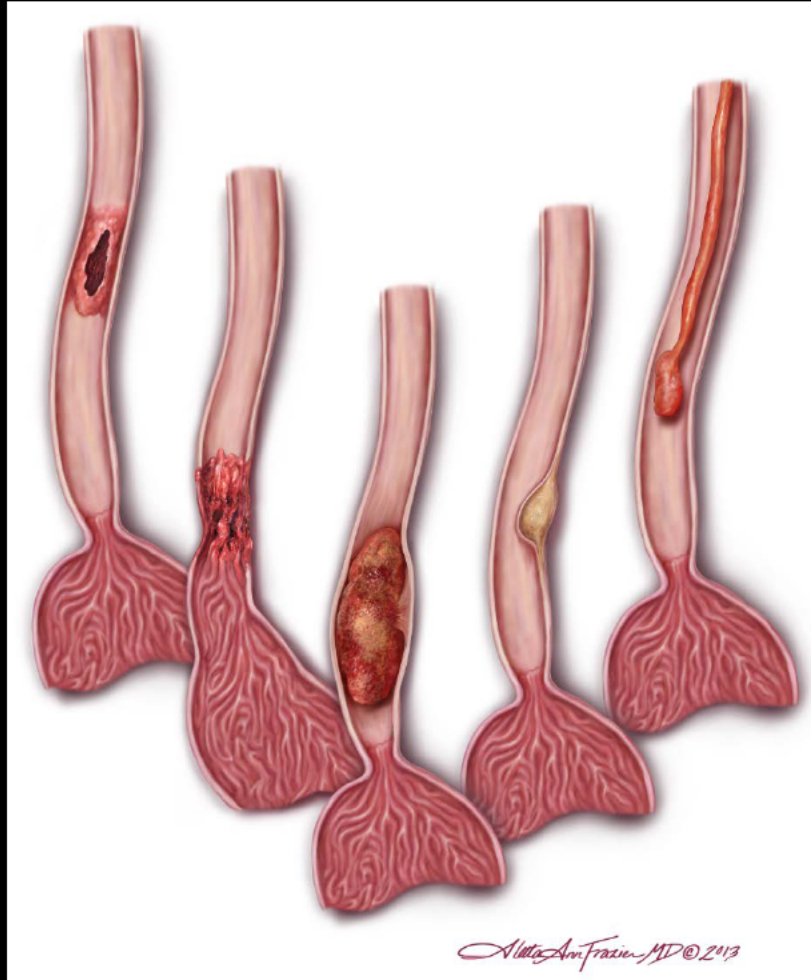
Dallas, Texas

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Gastrointestinal Best Case



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Clinical information

36-year-old white male with liver failure.

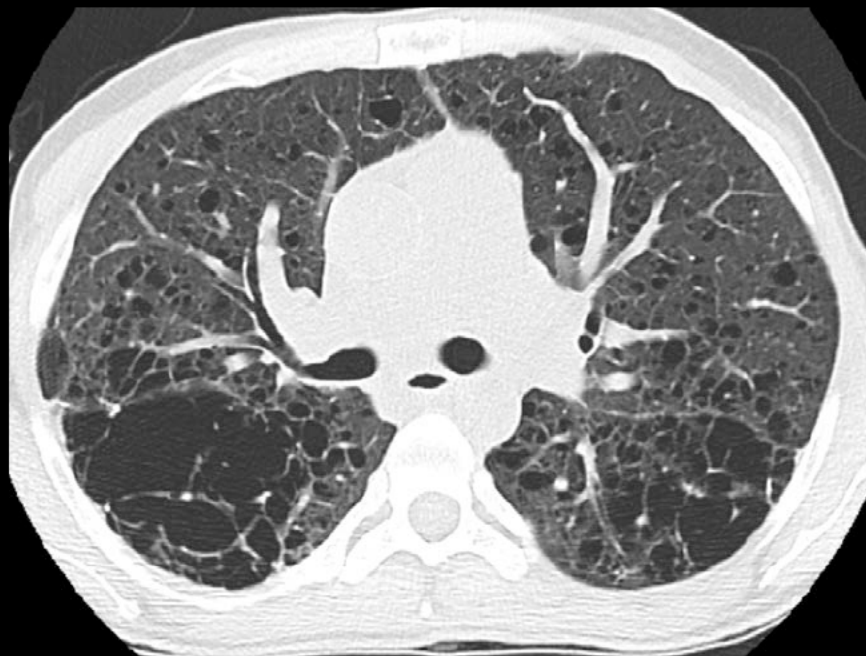


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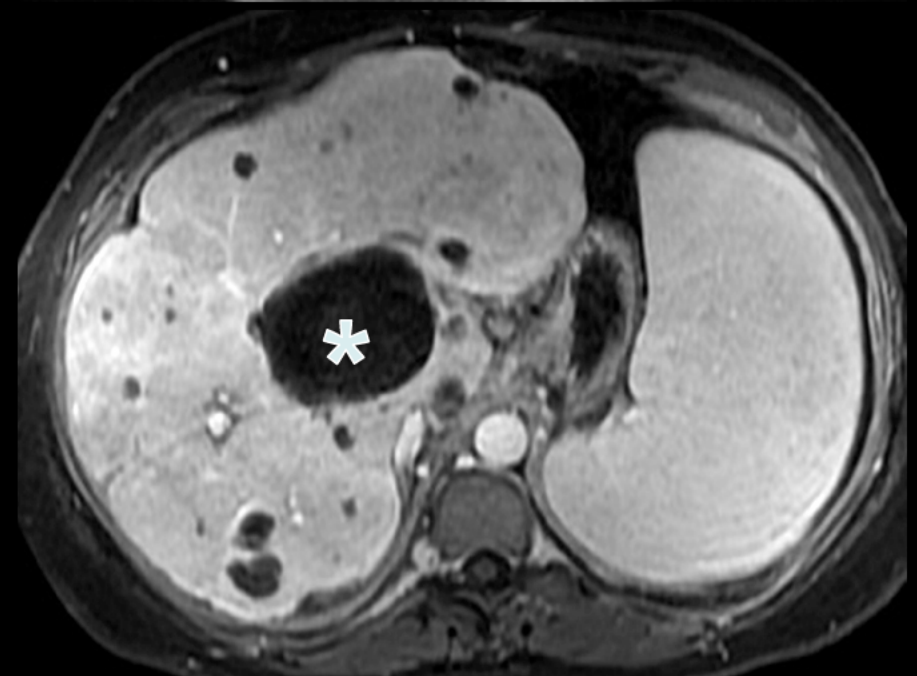
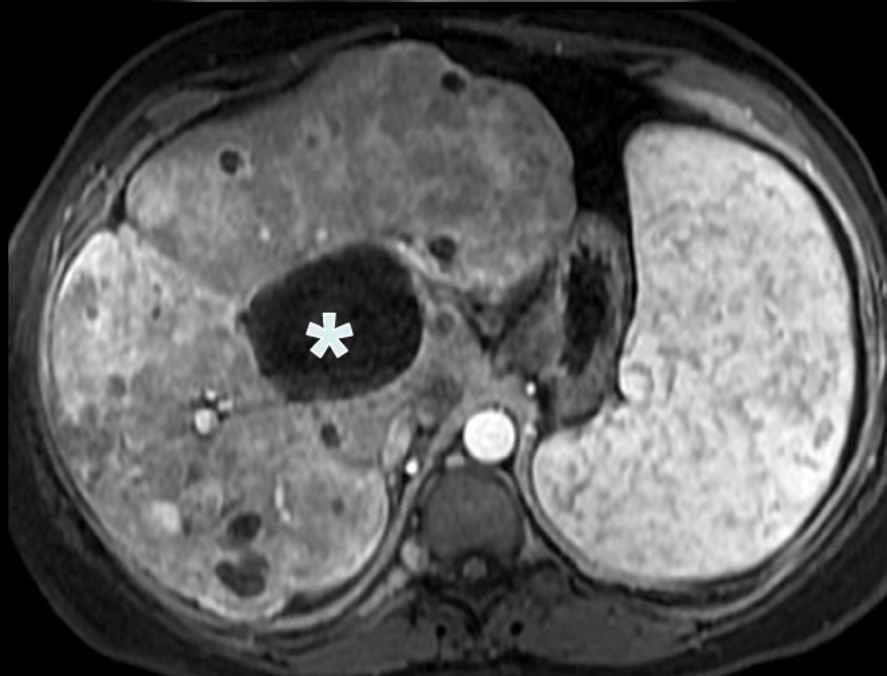
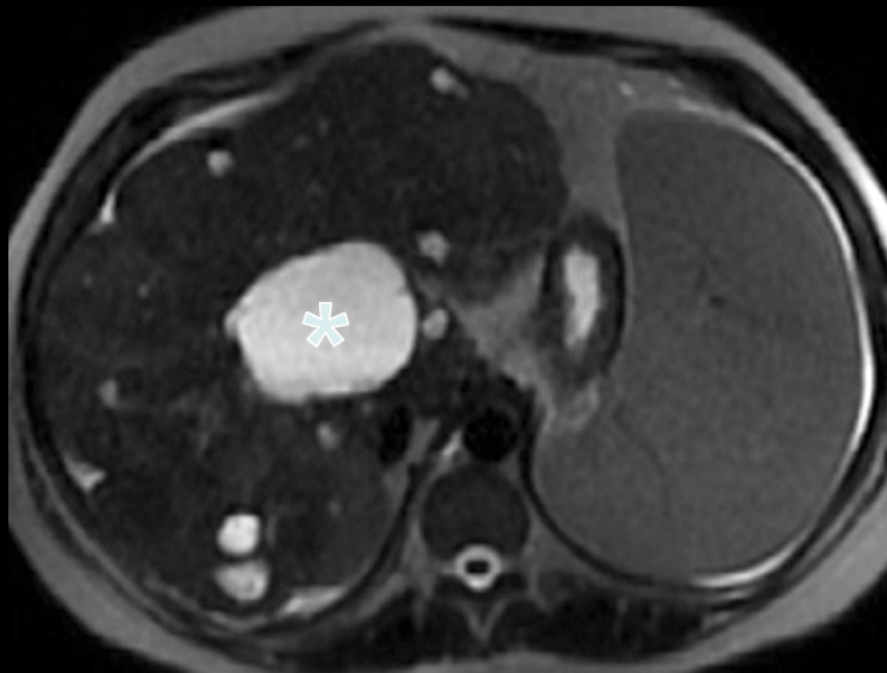
LIVER TRANS



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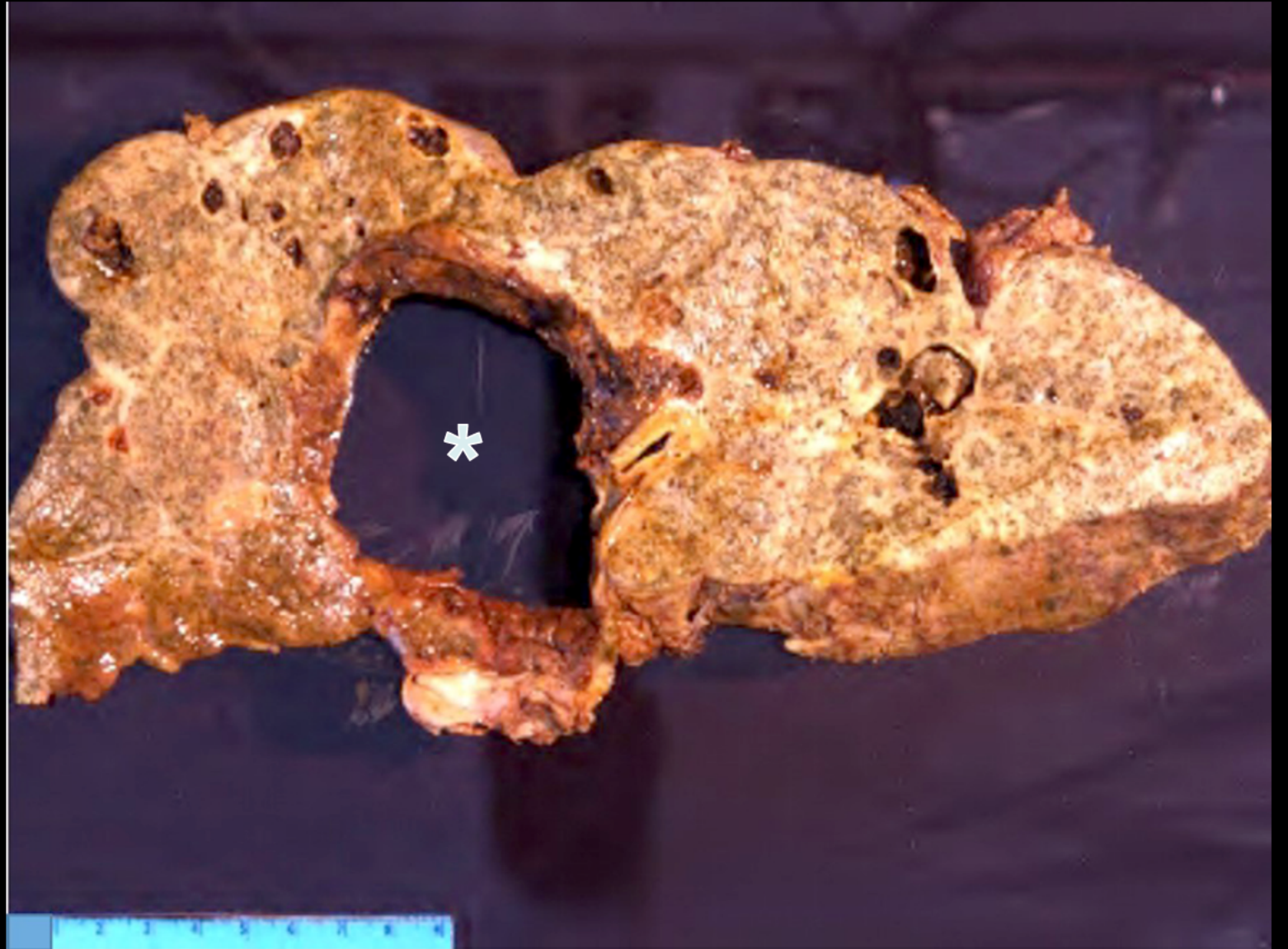
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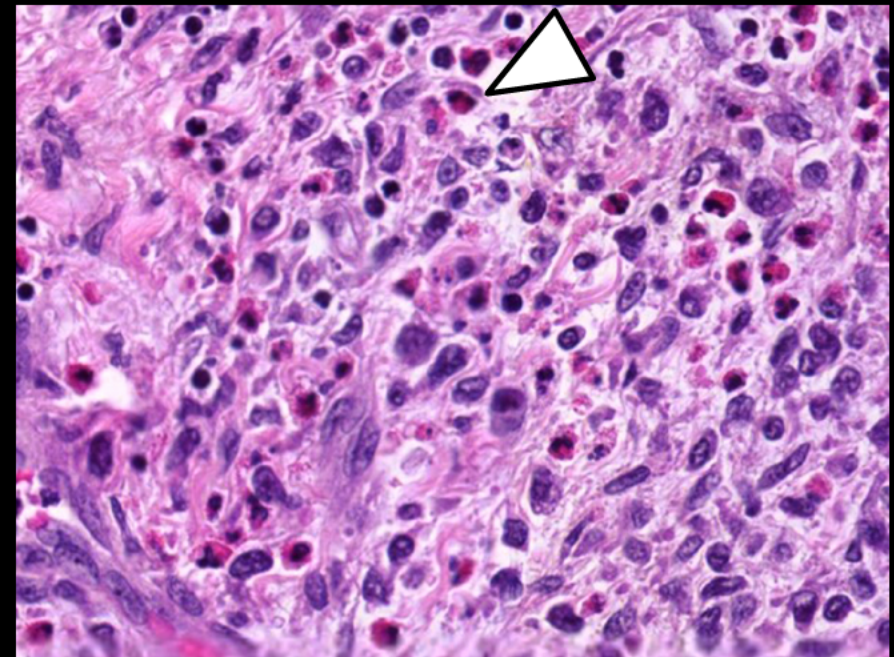
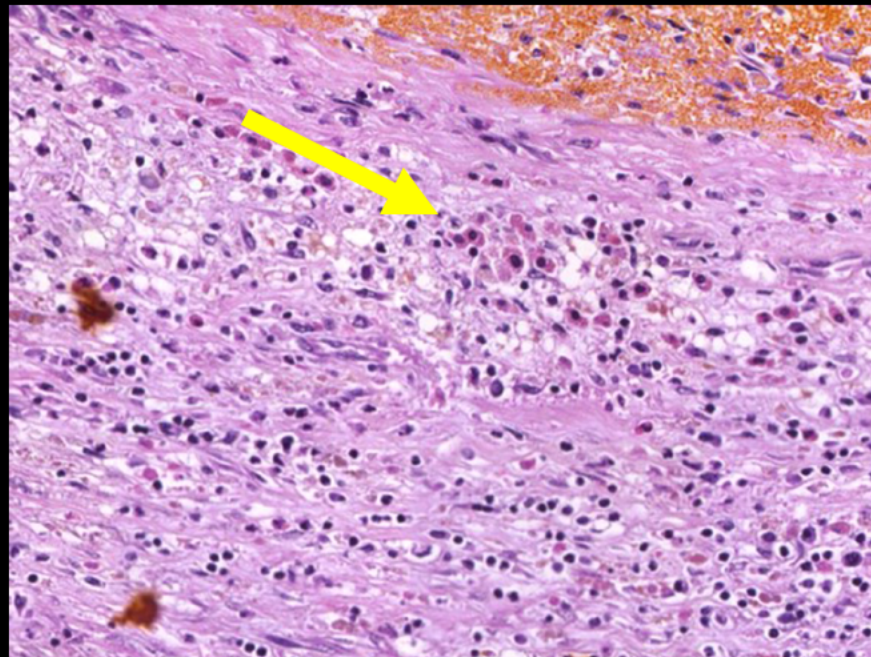
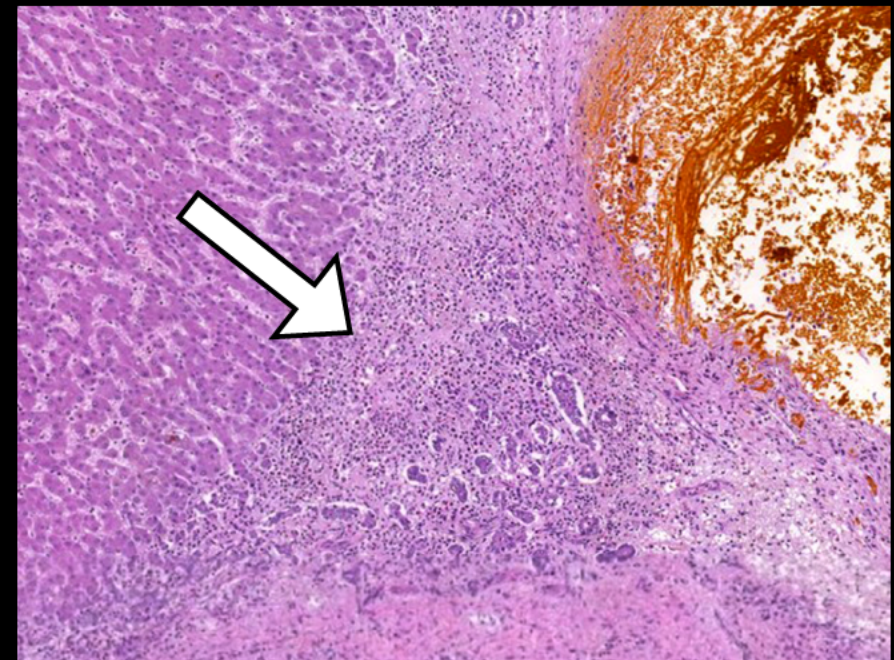
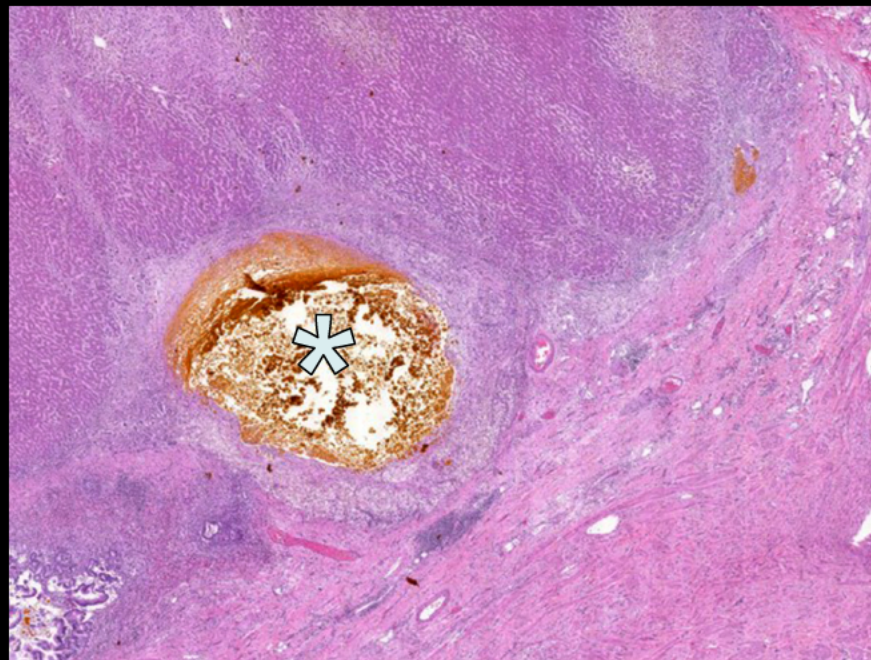


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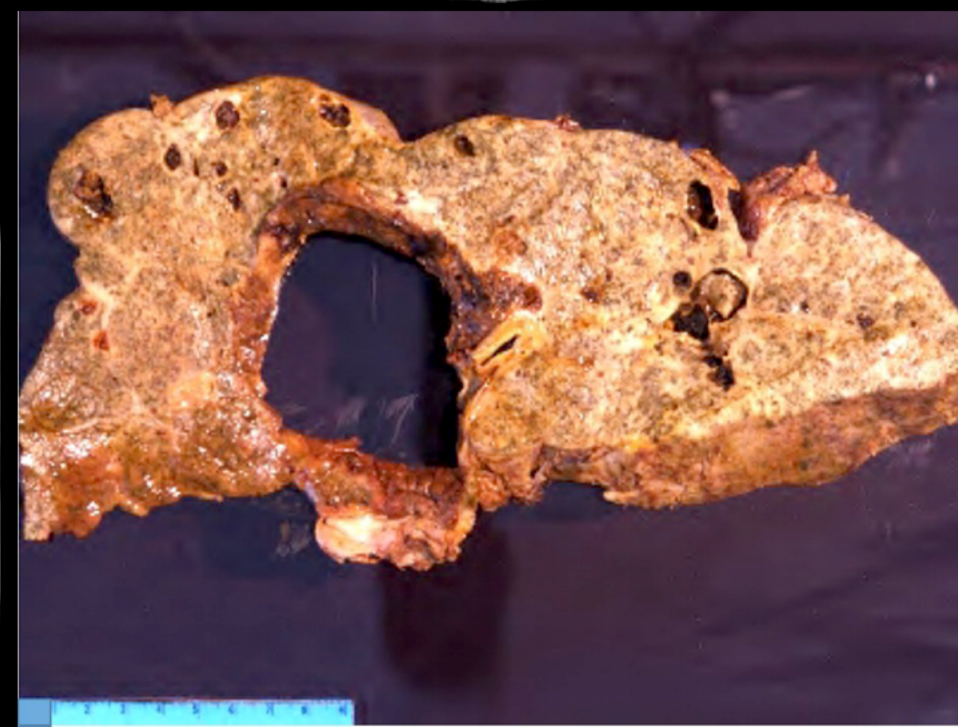
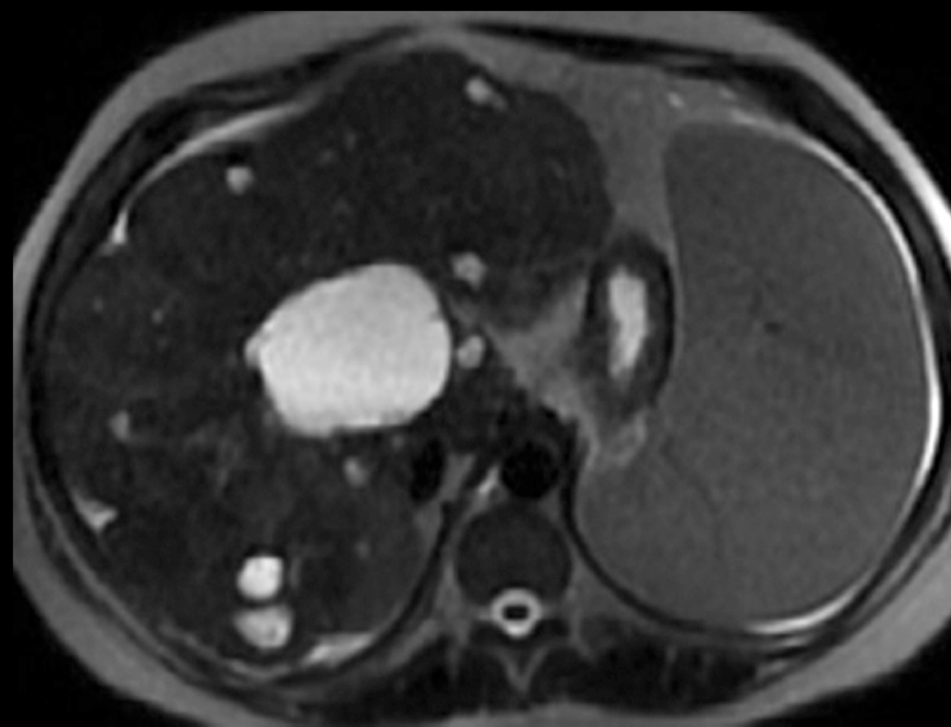
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LIVER TRANS



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Langerhans cell histiocytosis of liver

Negaur Iranpour, MD

University of Pittsburgh Medical Center

Pittsburgh, PA

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Neuroradiology Best Case



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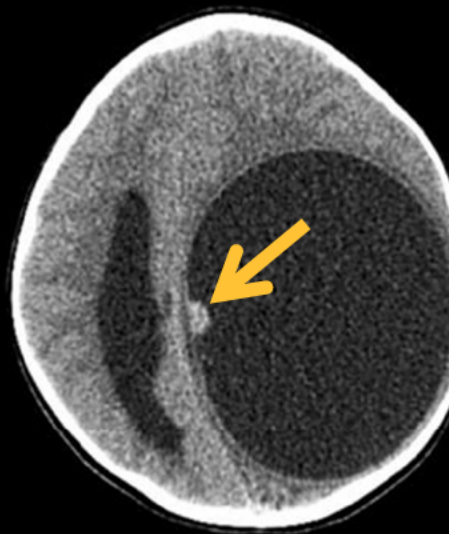
Clinical Information

8-year-old female with oppressive frontal headaches, sonophobia, and photophobia for 1 year. Presented to local hospital with intense headache awakening her from sleep and vomiting



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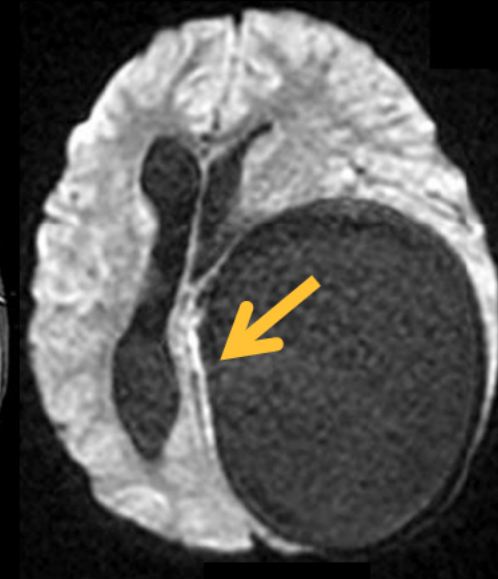
CT



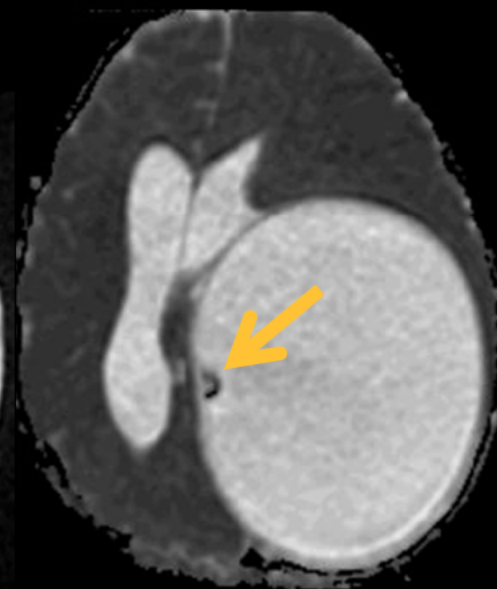
T2



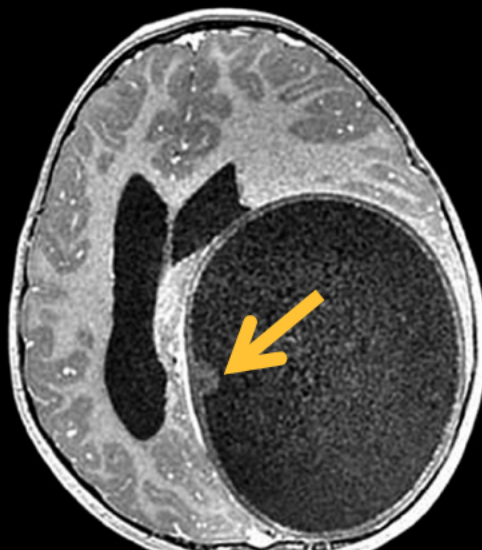
GRE



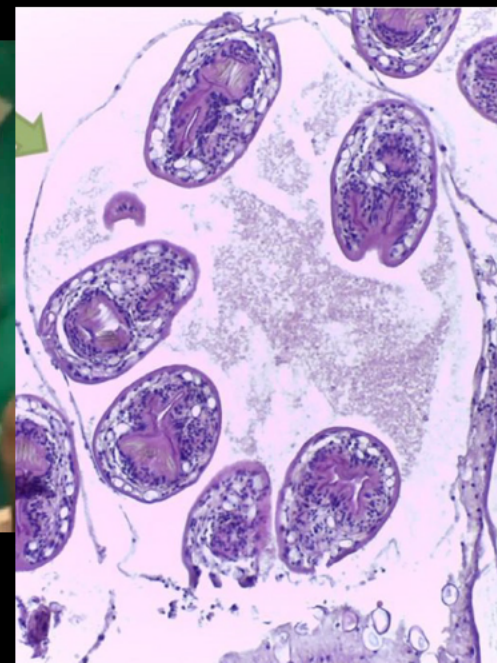
DWI



ADC



Post T1



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Echinococcosis

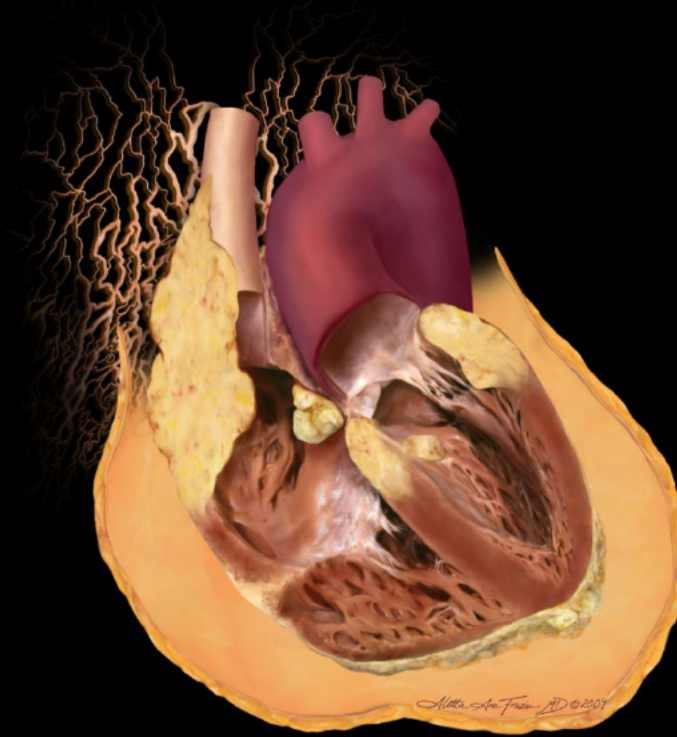
Luisa Fernanda Londoño Villa, M.D.
Hospital Universitario y Politecnico La Fe
València, Spain



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Cardiovascular Best Case



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Clinical information

21 y.o. male with generalized malaise and shortness of breath.



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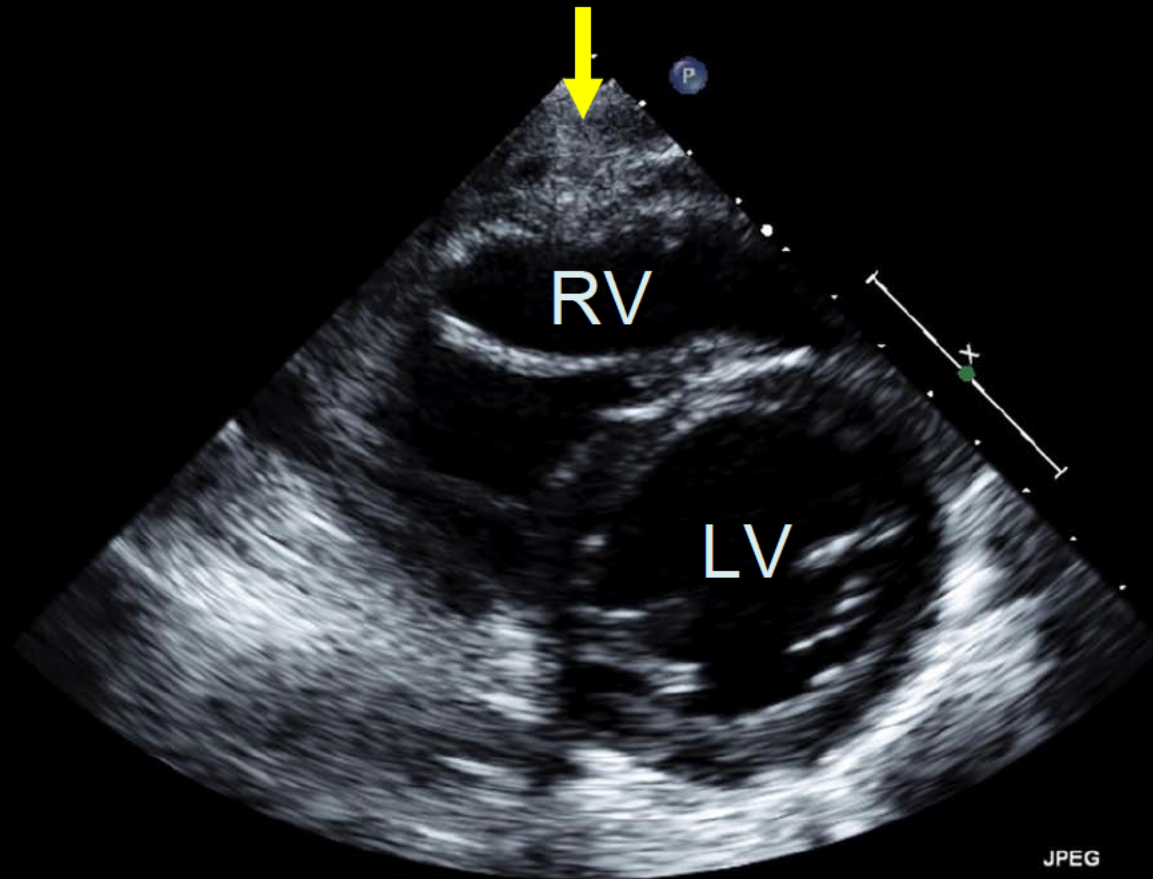
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Transthoracic Echocardiogram

CI 58Hz
12cm
2D
63%
C 48
P Bas
HPén

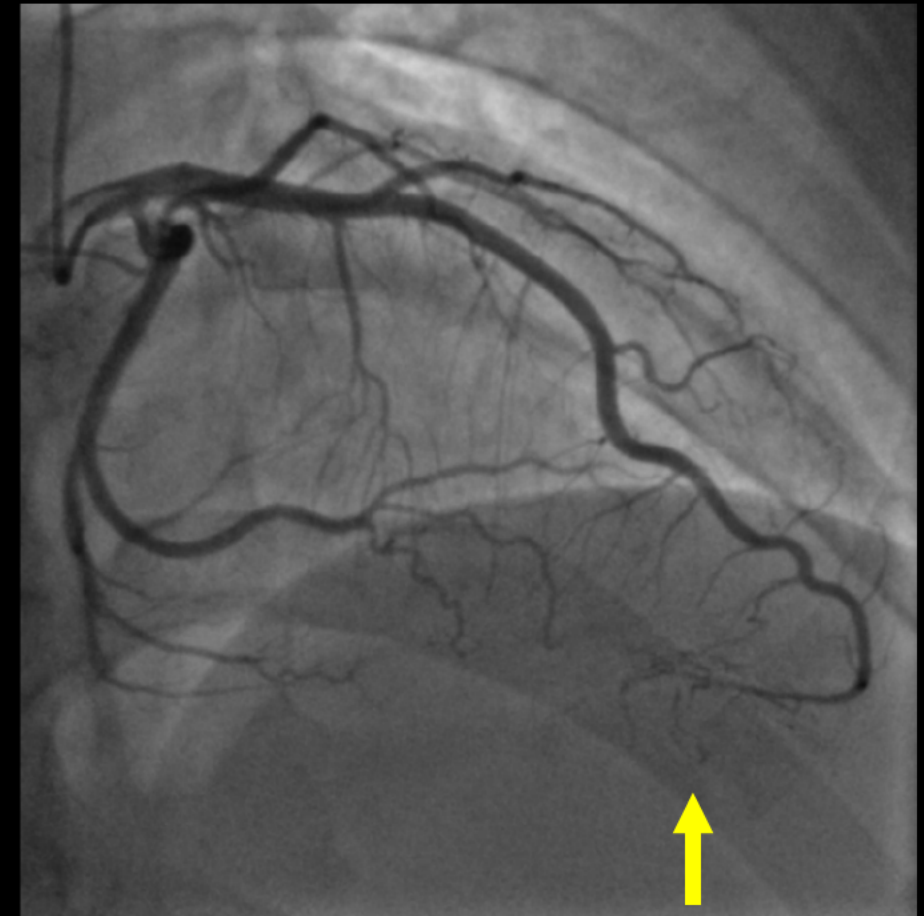
G
P R
1.4 2.8



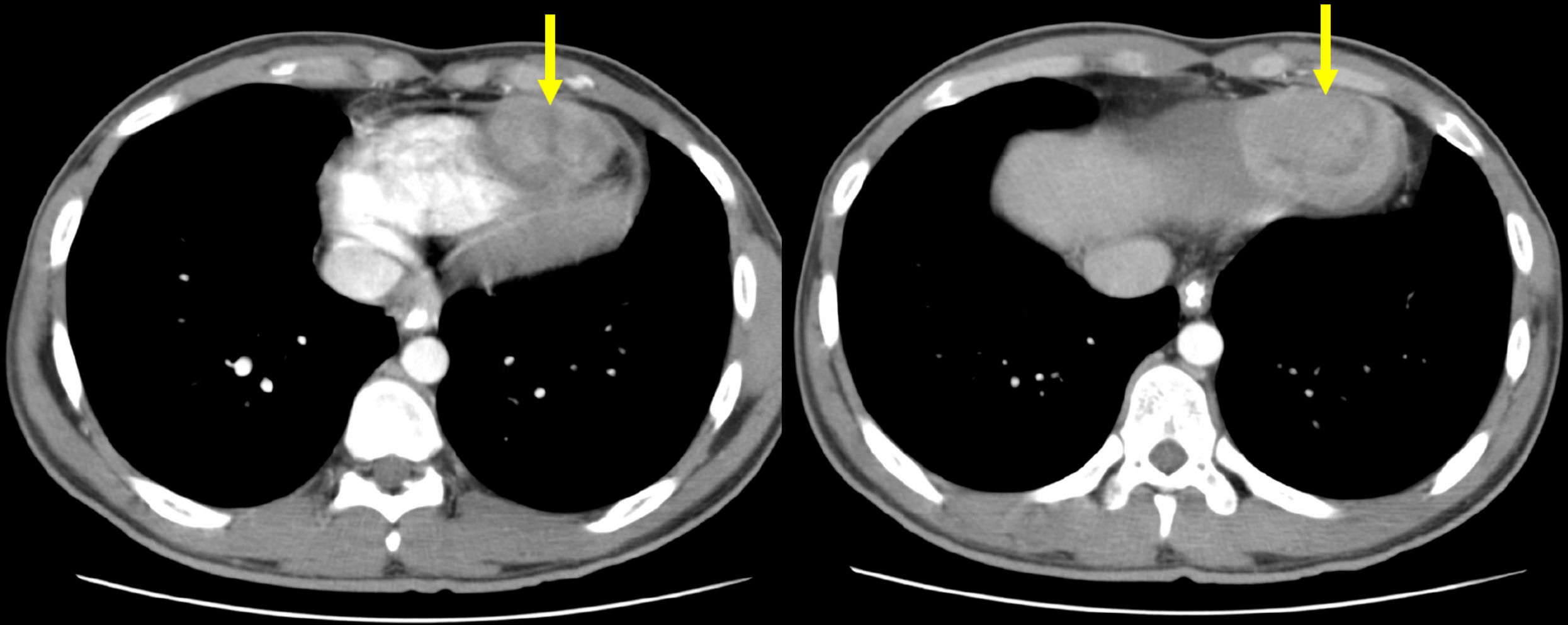
JPEG

98 bpm

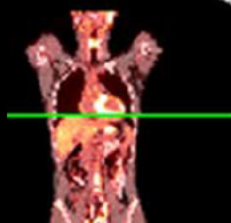
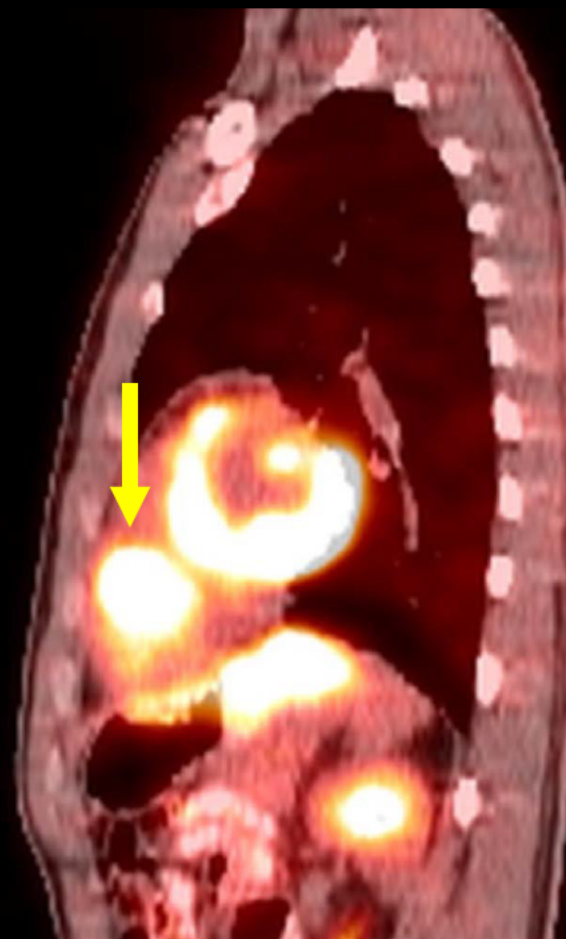
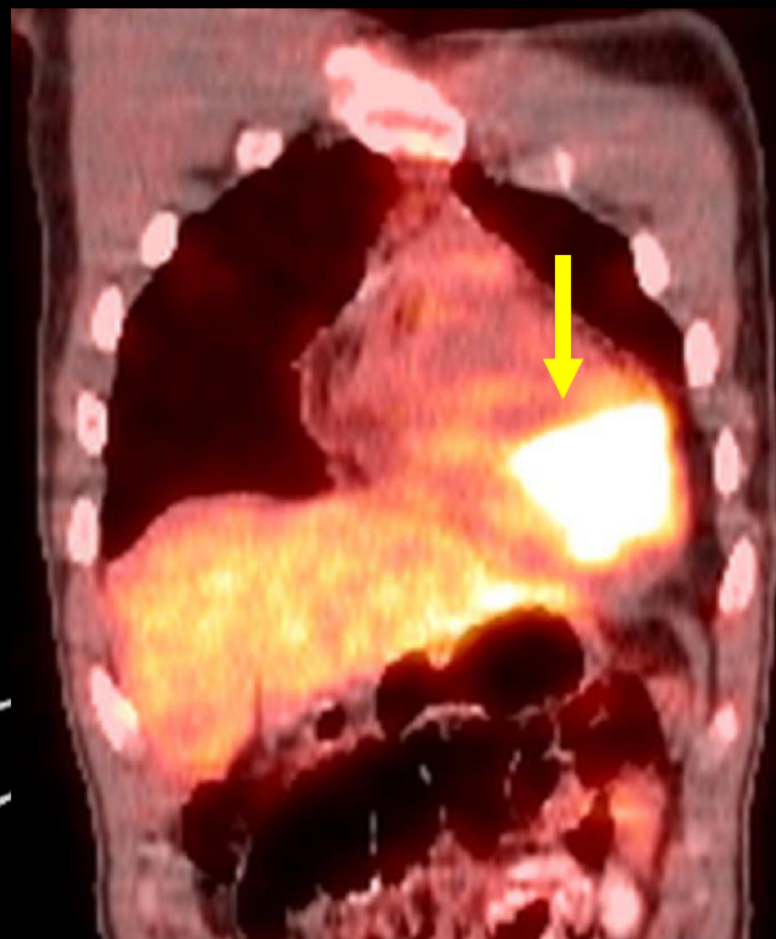
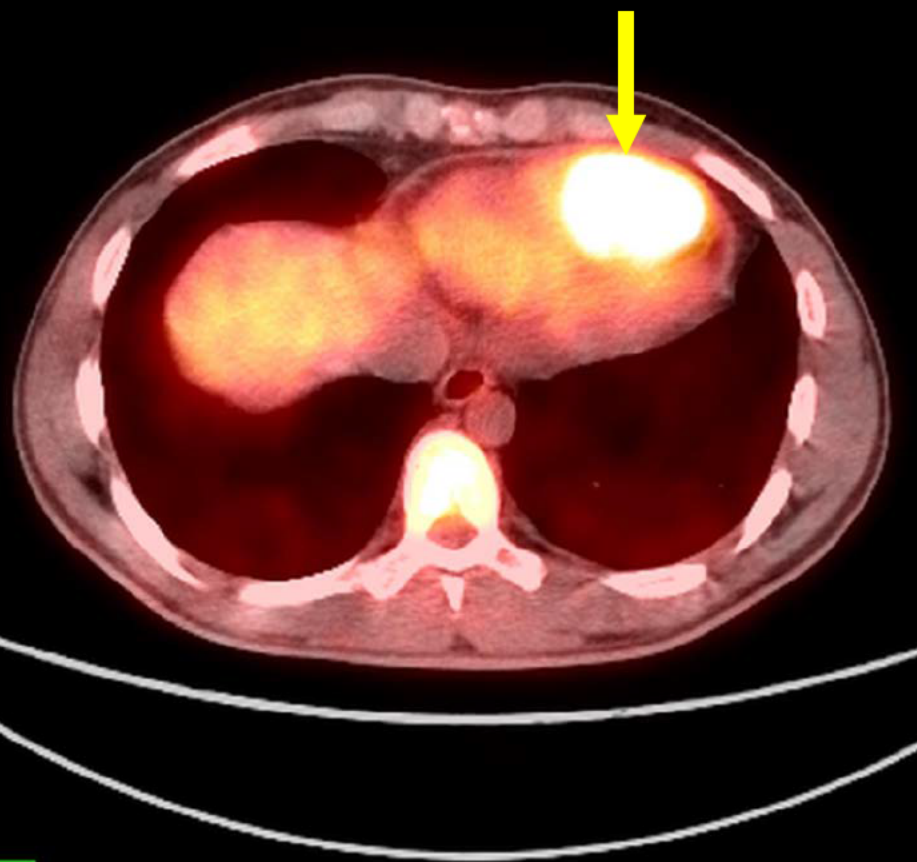
Cardiac Catheterization



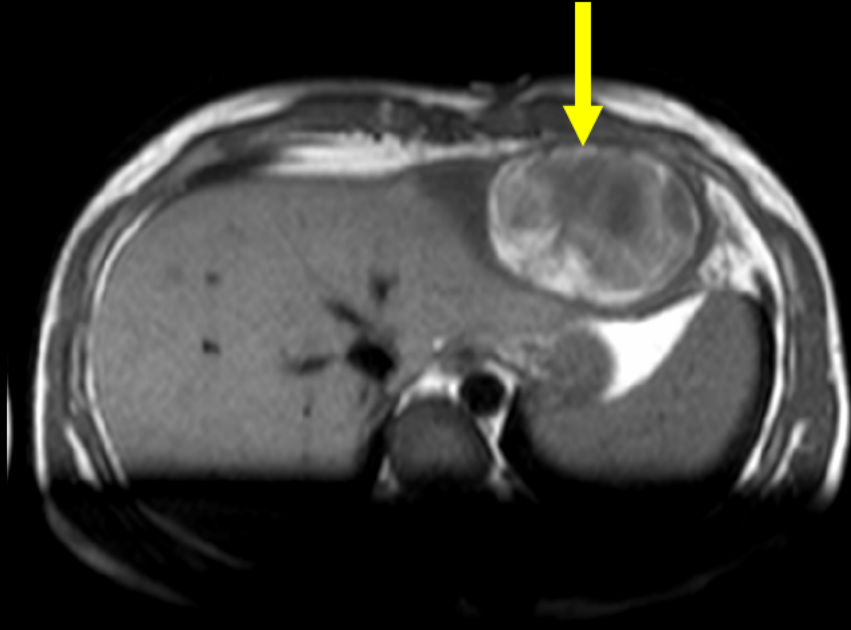
Contrast-enhanced axial CT



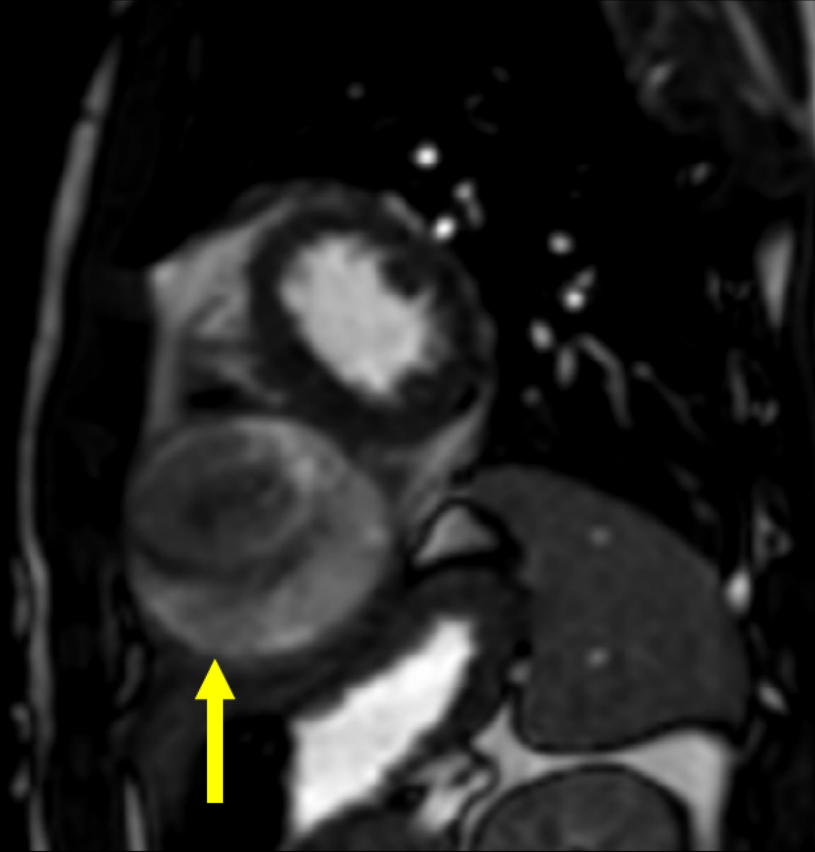
18F-PET CT



Axial T1W



Sagittal T1W



Coronal T2W BB



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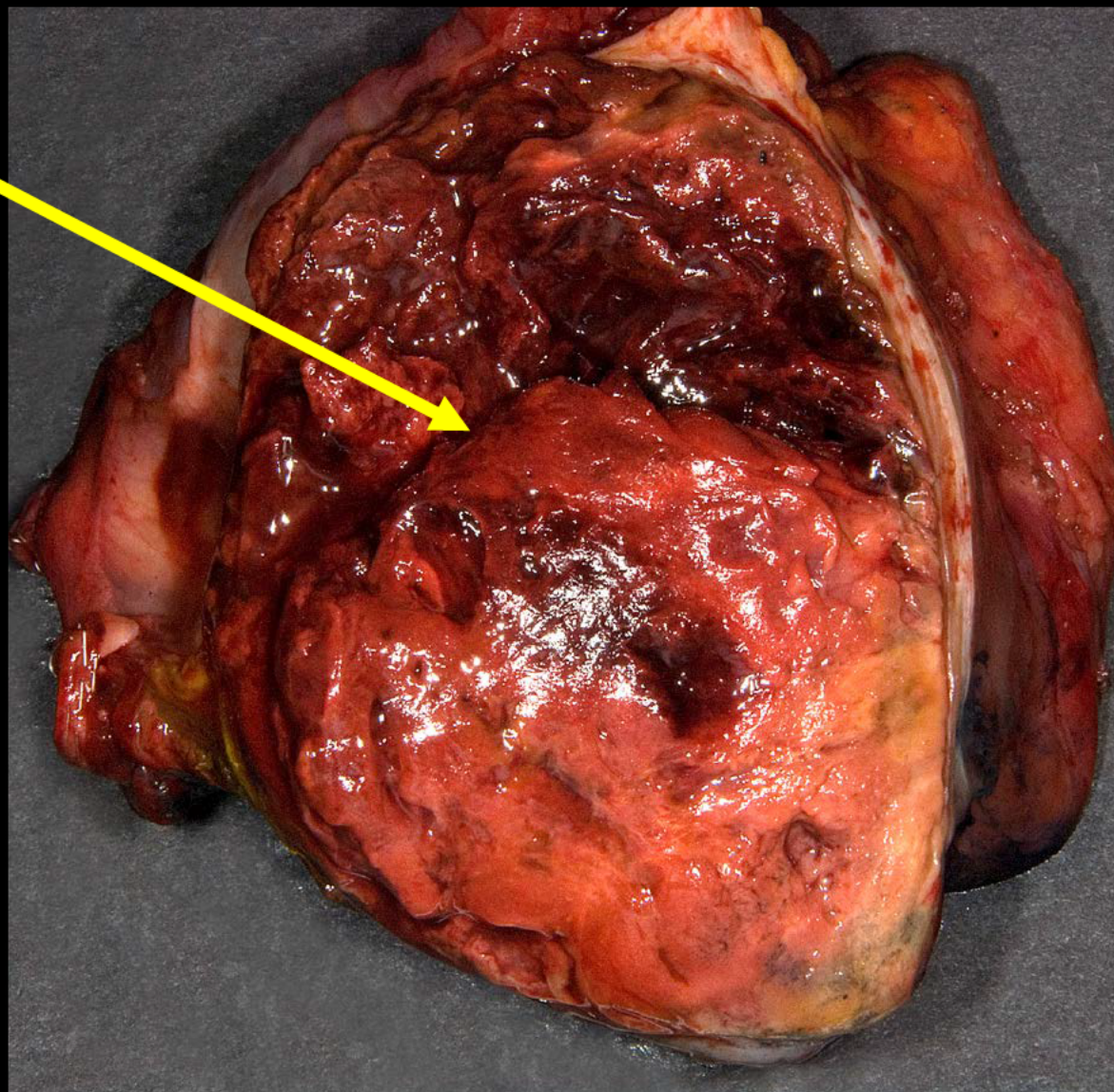
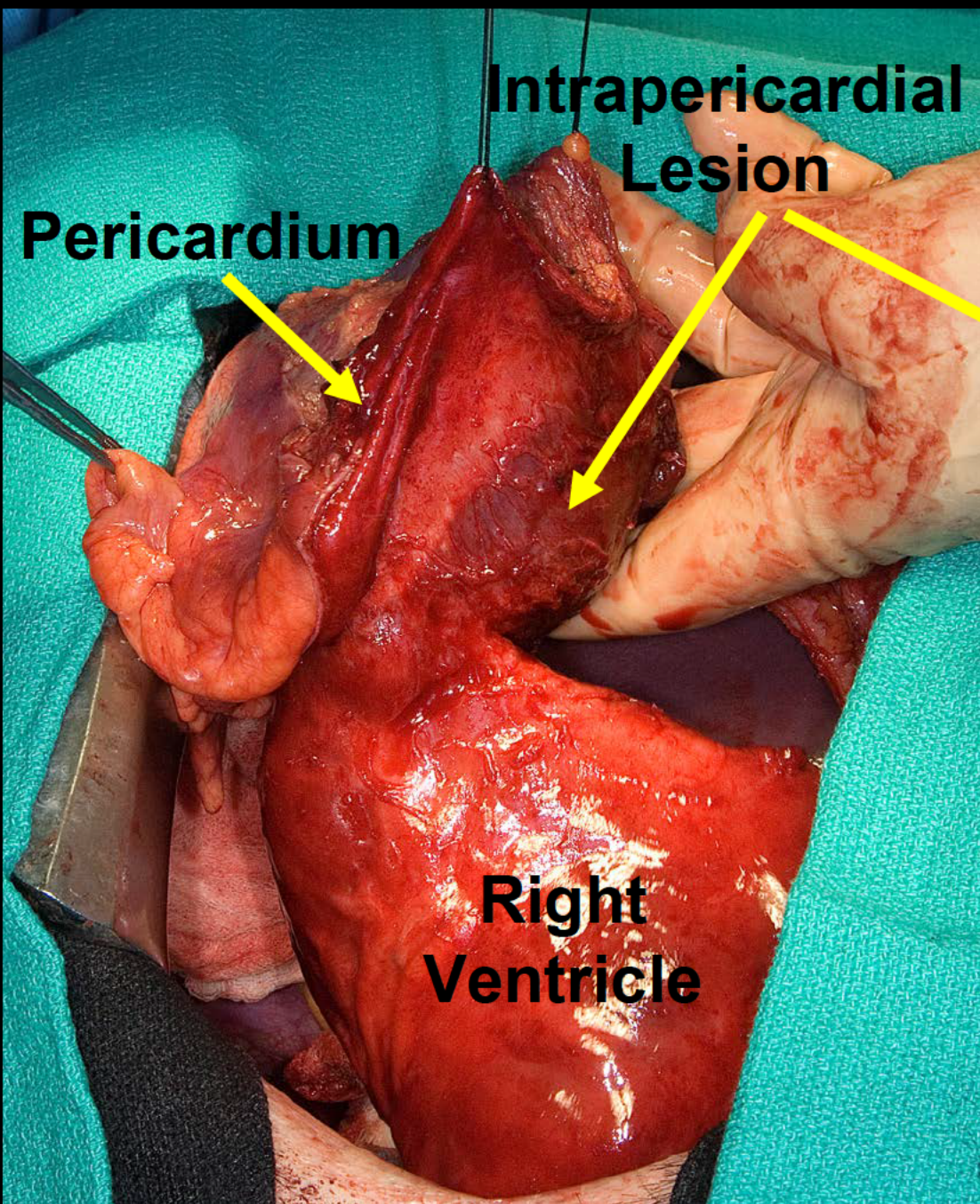
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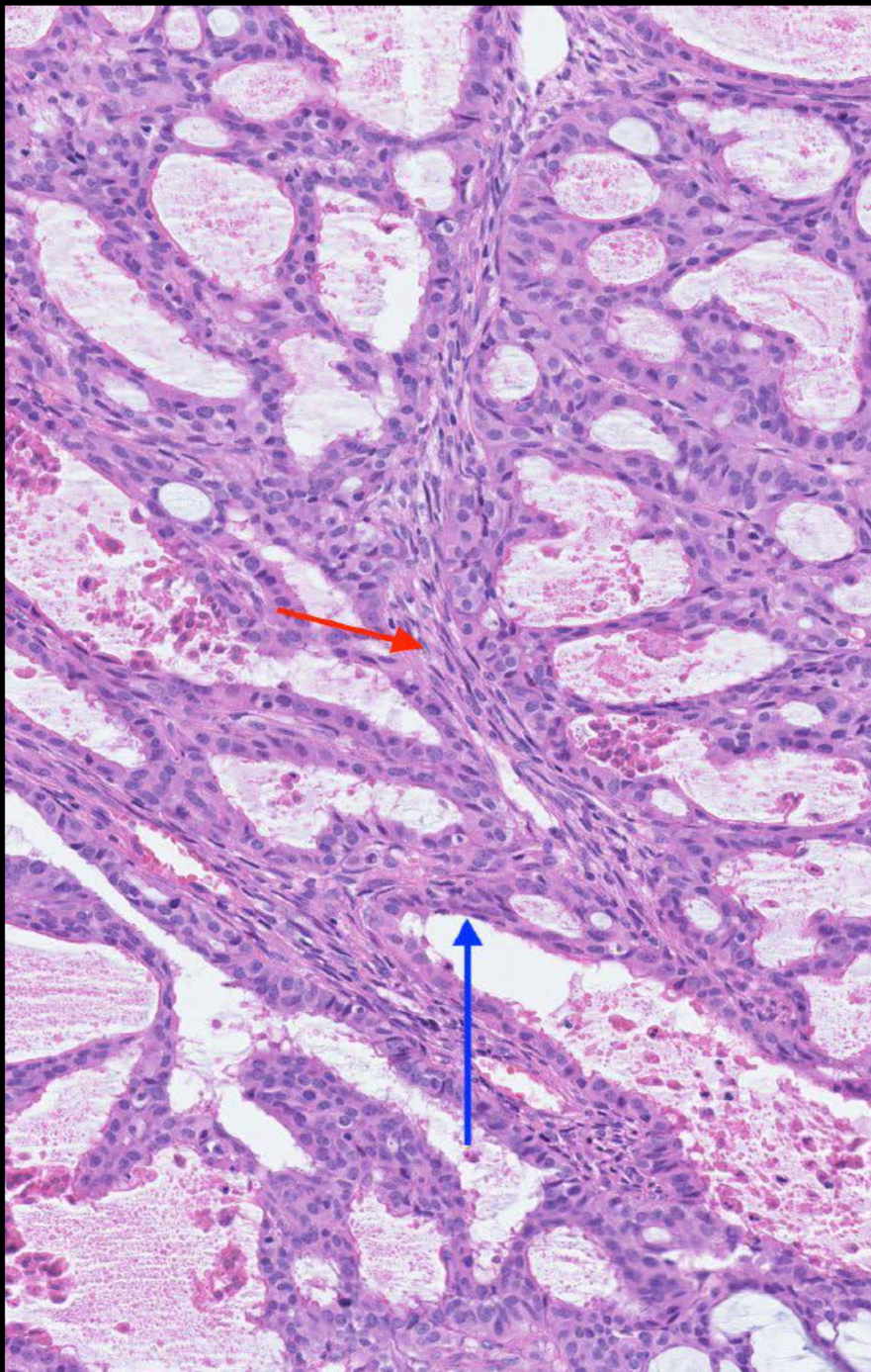
Coronal T1W MRI



Axial T1W MRI post gad

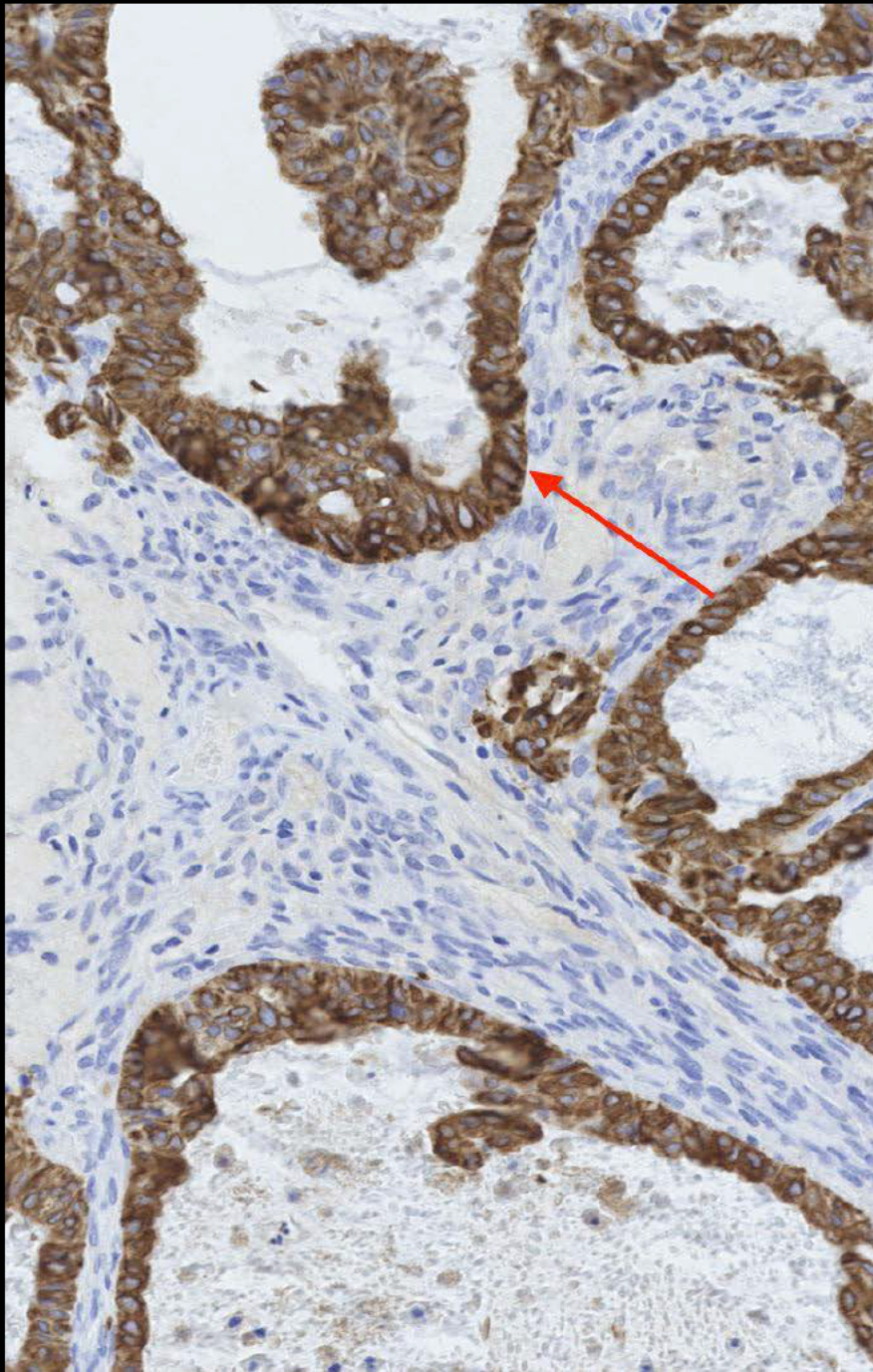






H & E Stain

- Spindle cells (red arrow)
- Epithelial cells (blue arrow)
- *Compatible with a BIPHASIC SARCOMA*



Cytokeratin Immunohistochemistry

- Cytokeratin cytoplasmic staining of epithelial cells (red arrow)

Biphasic Synovial Sarcoma of the Pericardium

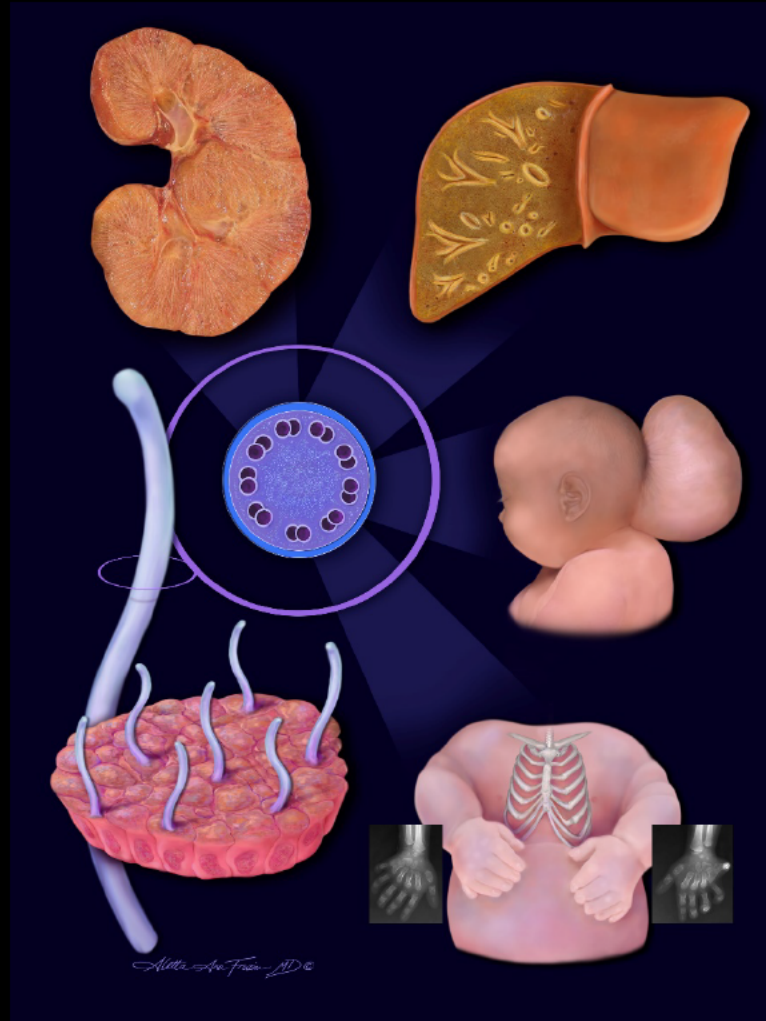
Guyline Gleeton
IUCPQ Hospital
Quebec, Canada



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Pediatric Best Case



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Clinical information

Term infant presented at birth with prenatal ultrasound findings concerning for multiple anomalies including VSD, aortic arch abnormality, hemivertebrae, single umbilical artery, and omphalocele.



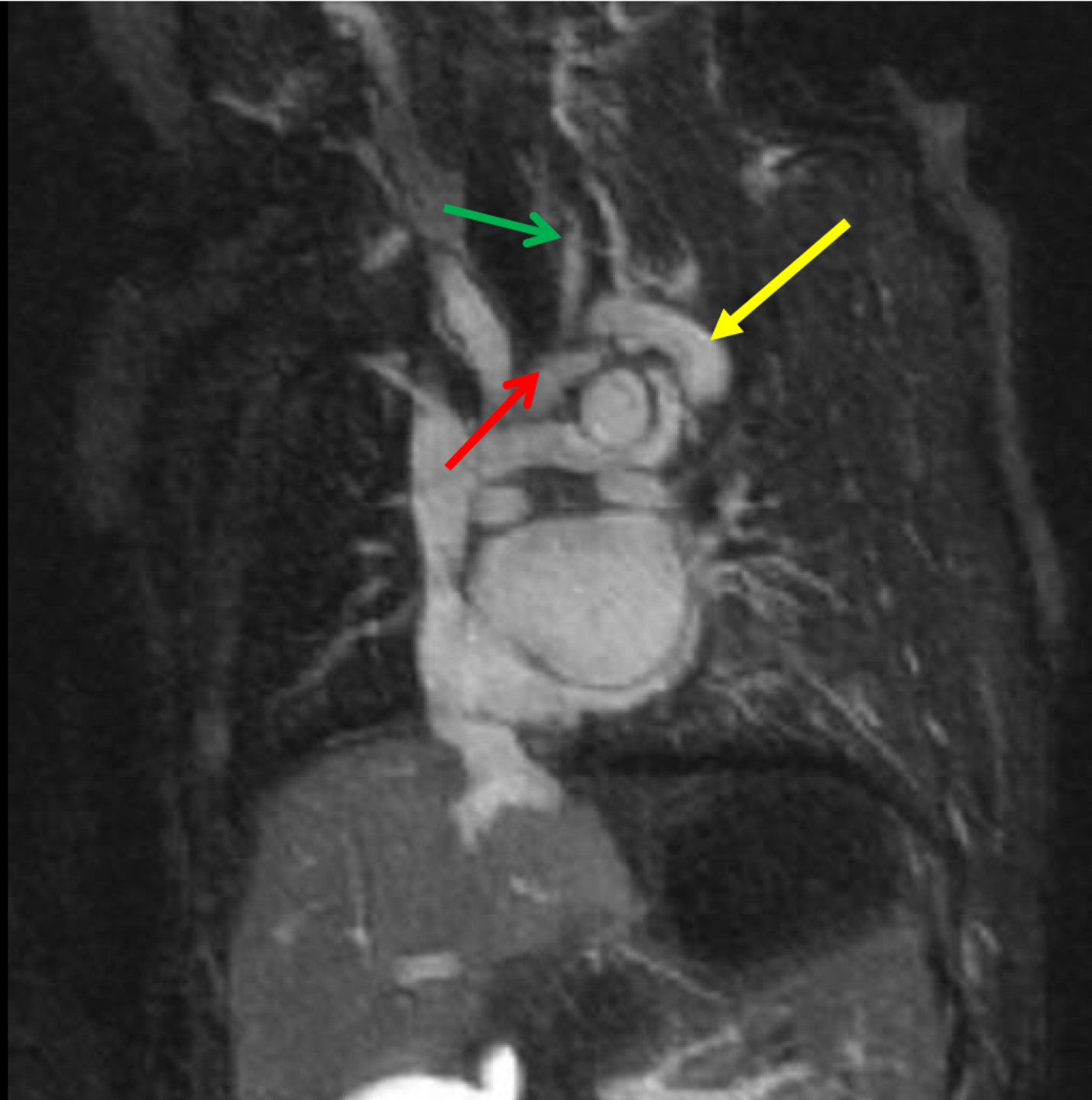
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Vitrea©
Zoom:352%
W/L:184/306
Segmented
3 of 9
VR: All Anat 2



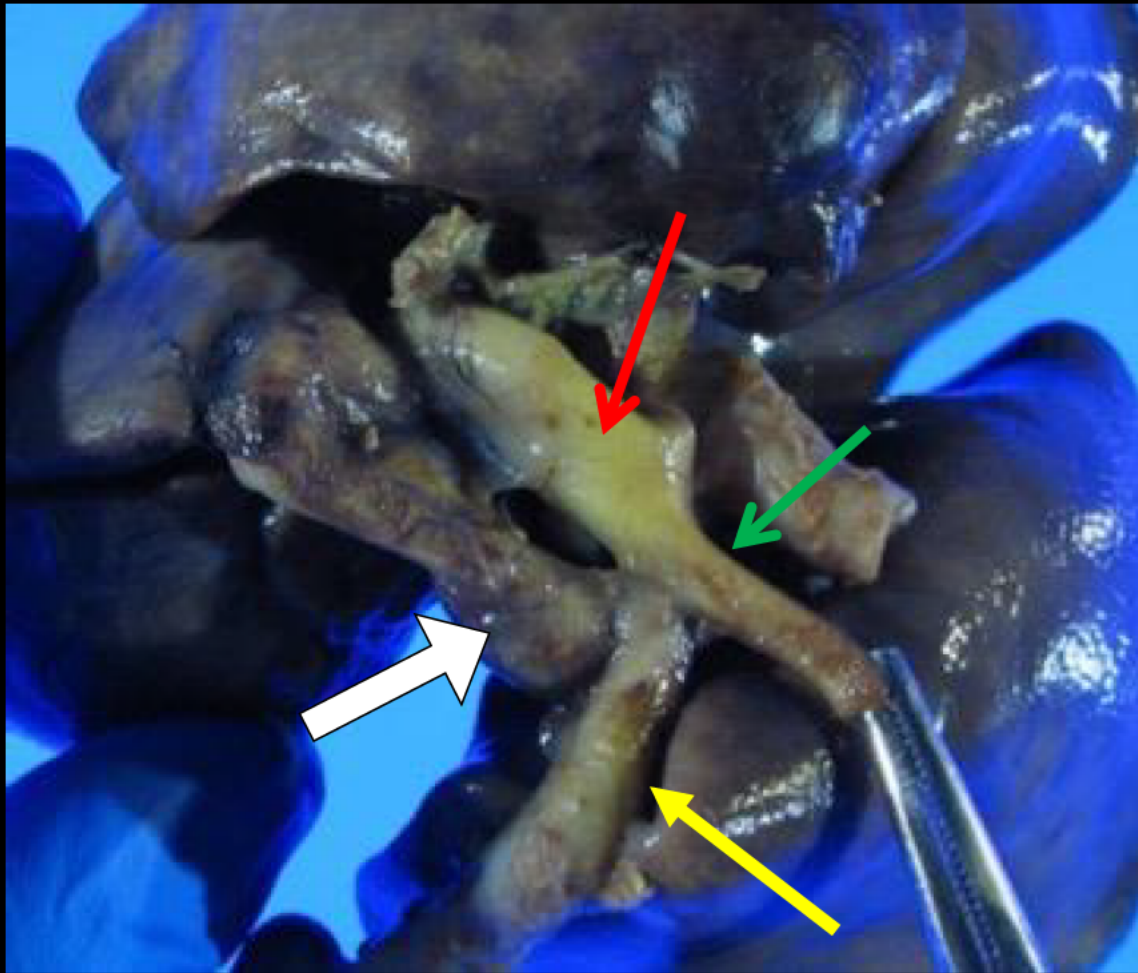
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Vitrea©
Zoom: 426%
W/L: 819/419
Segmented
1 of 9
VR: All Anat 2

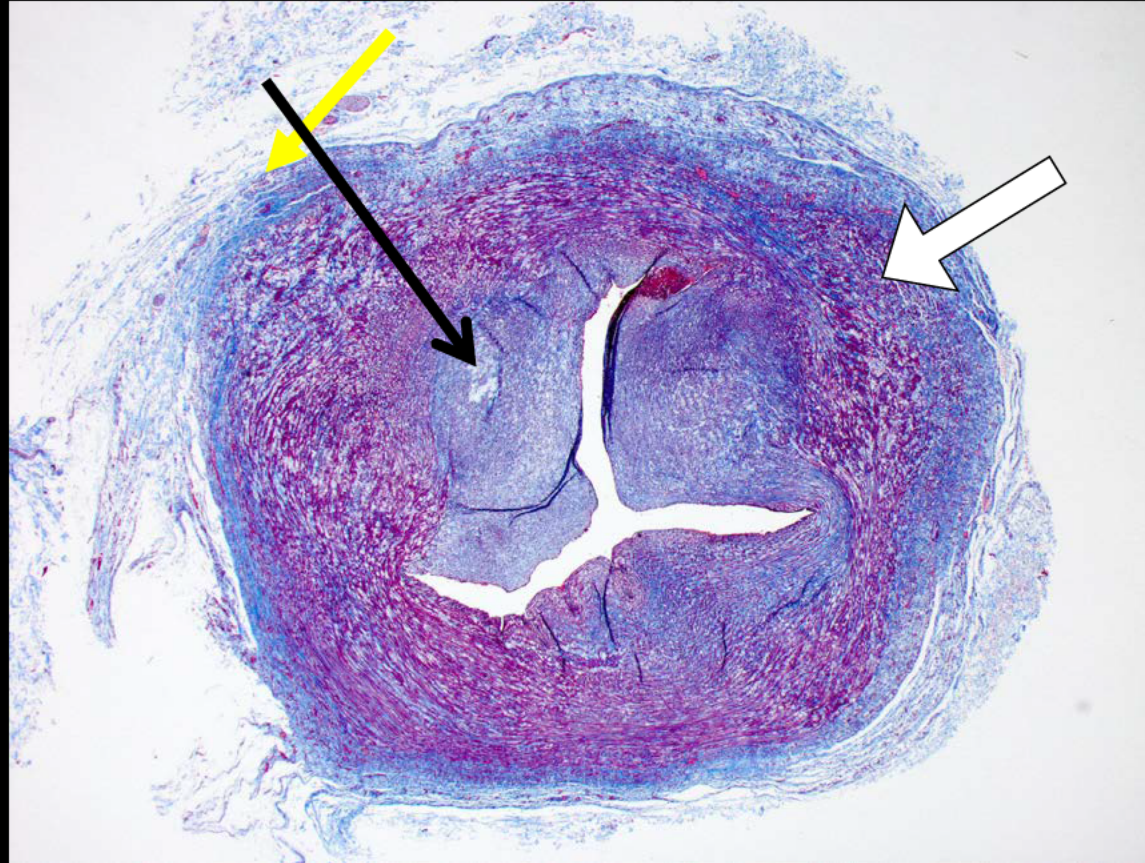


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Interrupted Aortic Arch

Megan Sue, MD

Ronald Reagan UCLA Medical Center

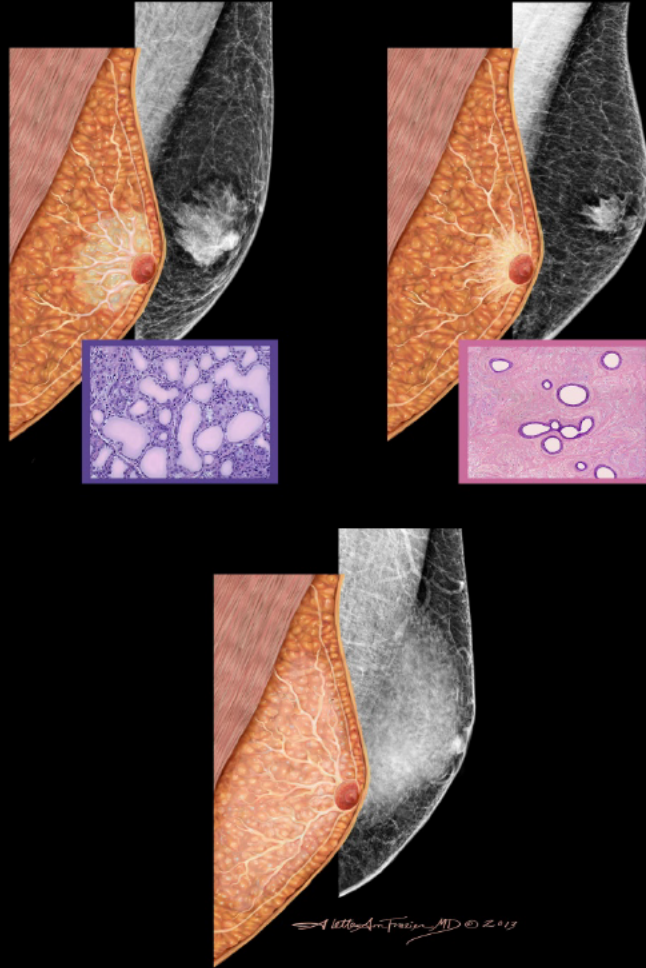
Los Angeles, CA

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Breast Best Case



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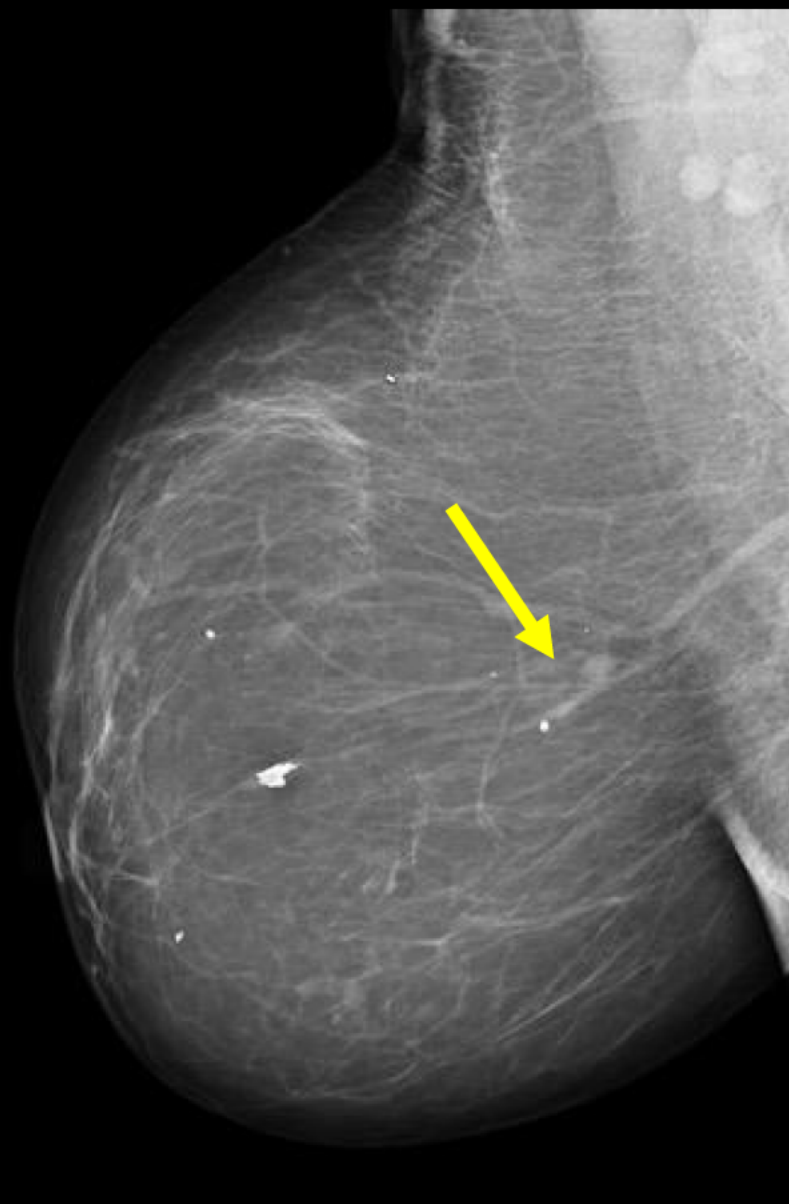
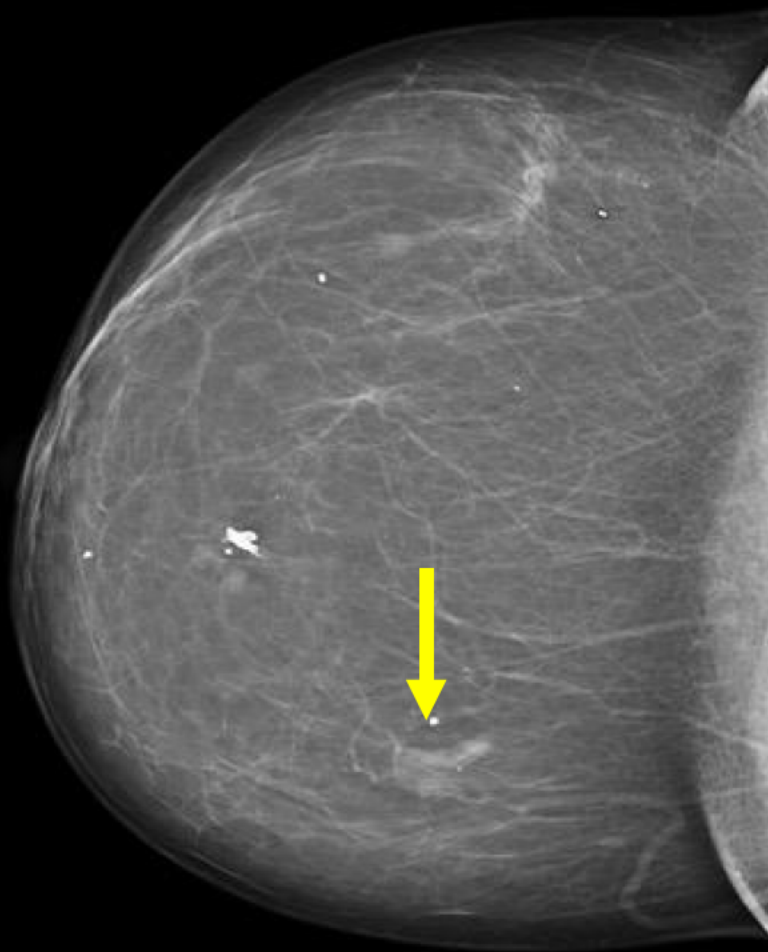
Clinical information

**62-year-old woman with abnormal screening mammogram.
History of prior benign breast biopsy.**

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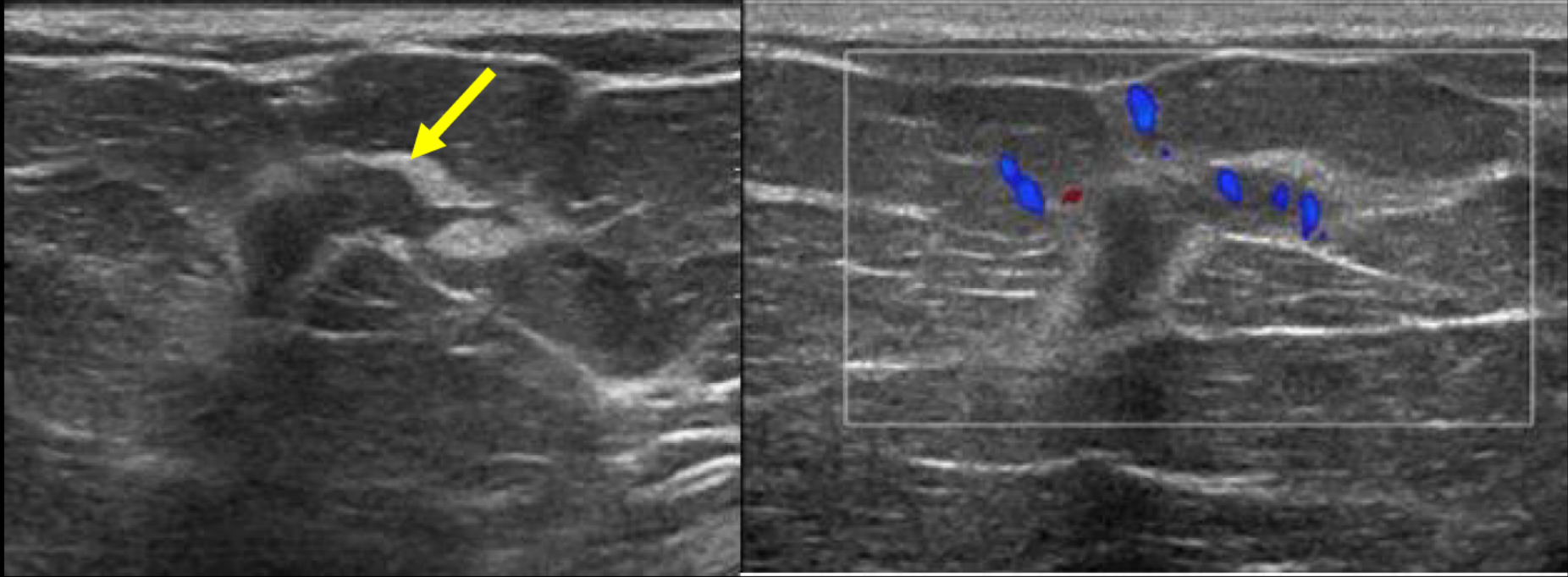
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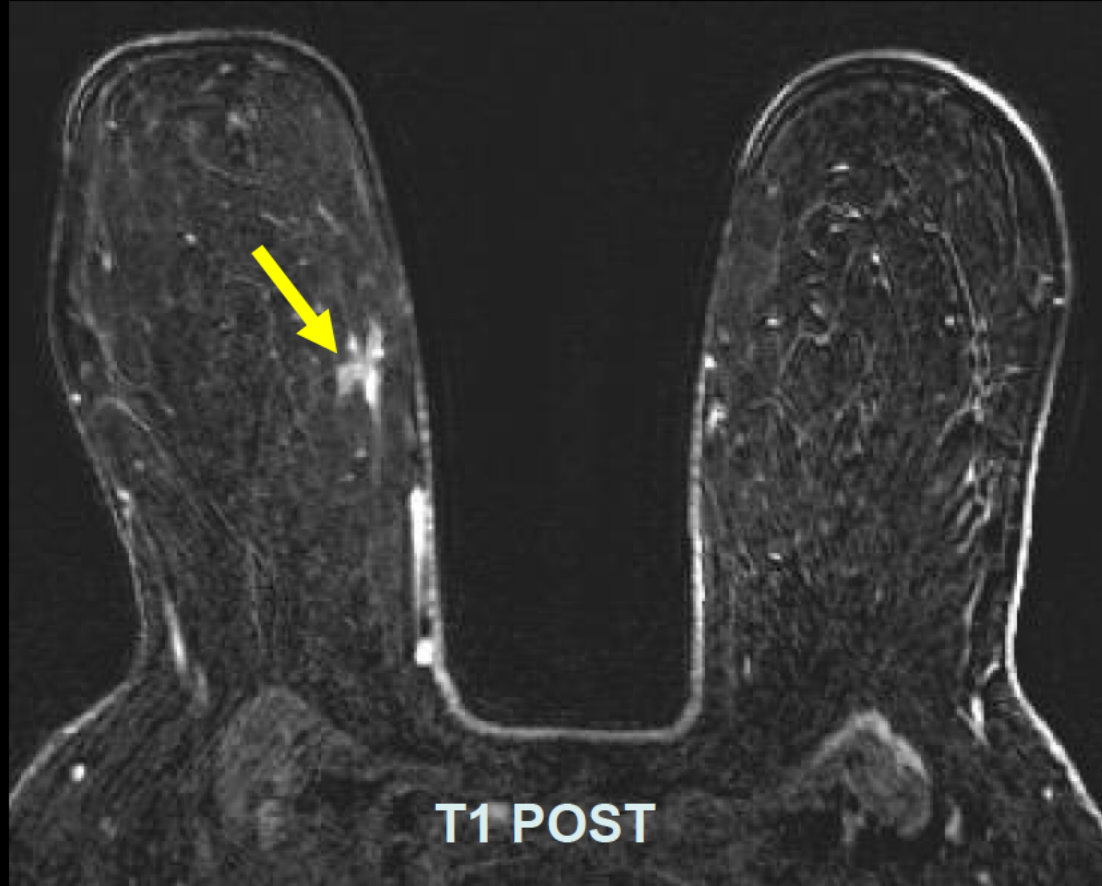
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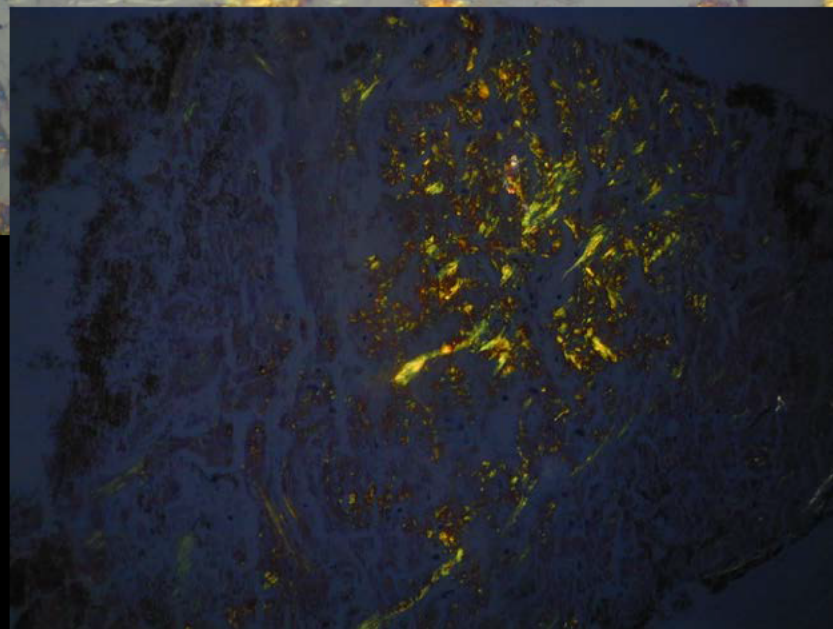
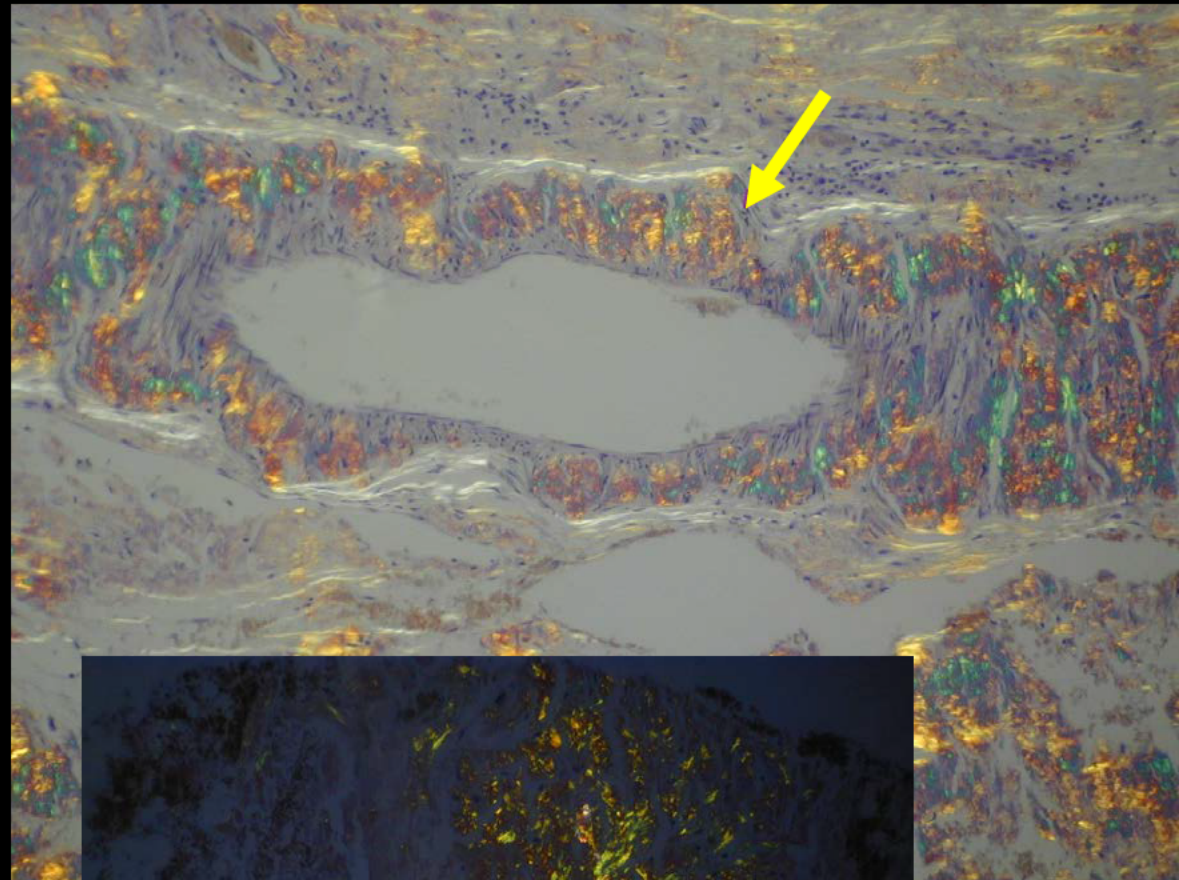
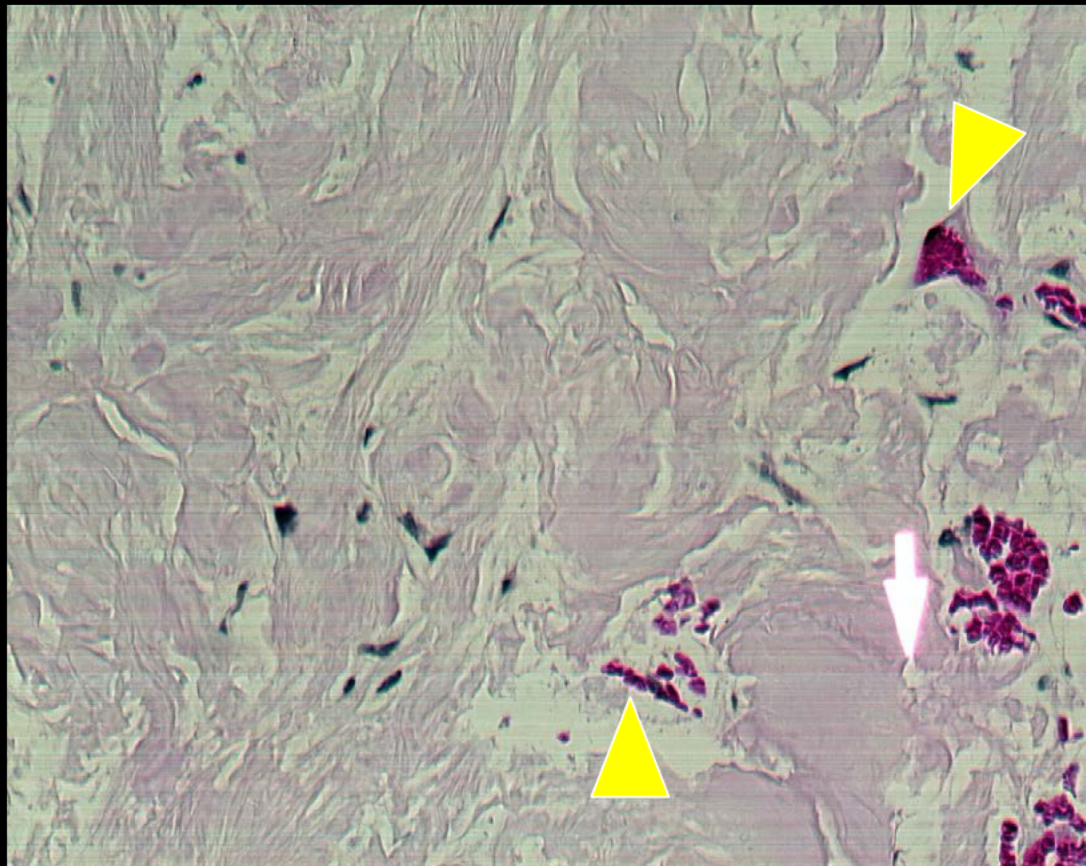
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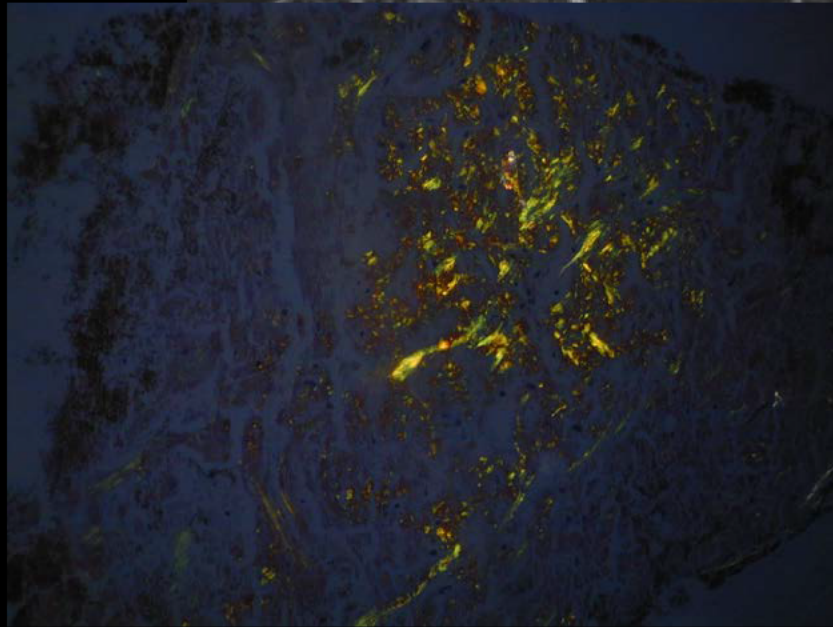
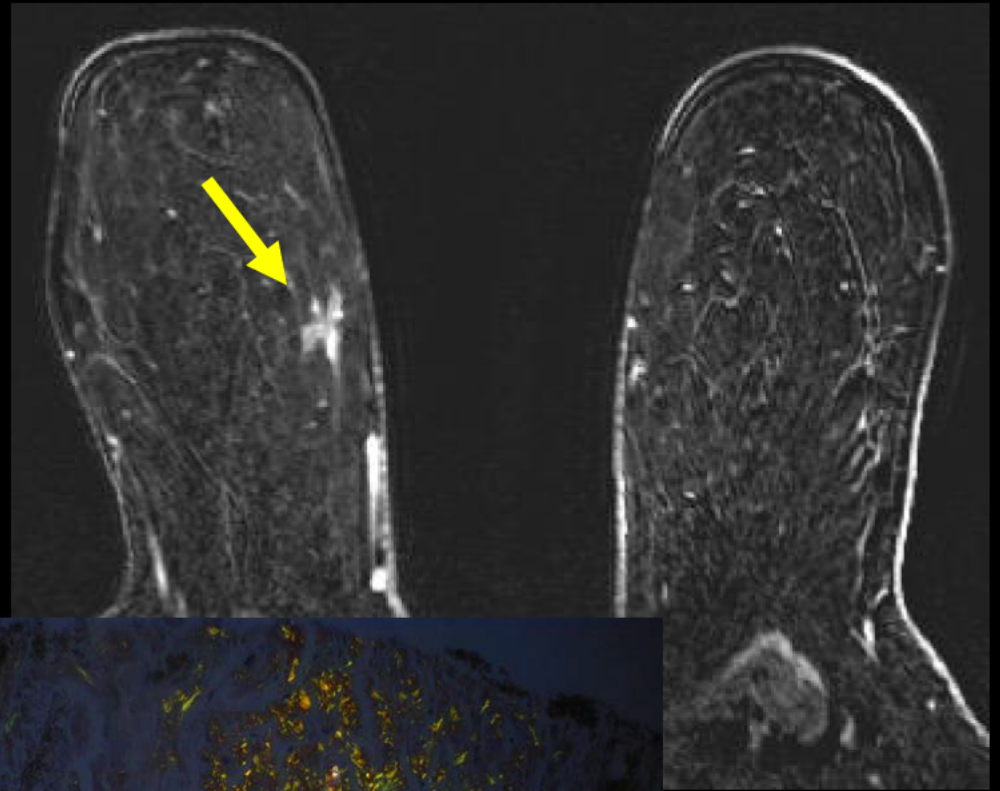
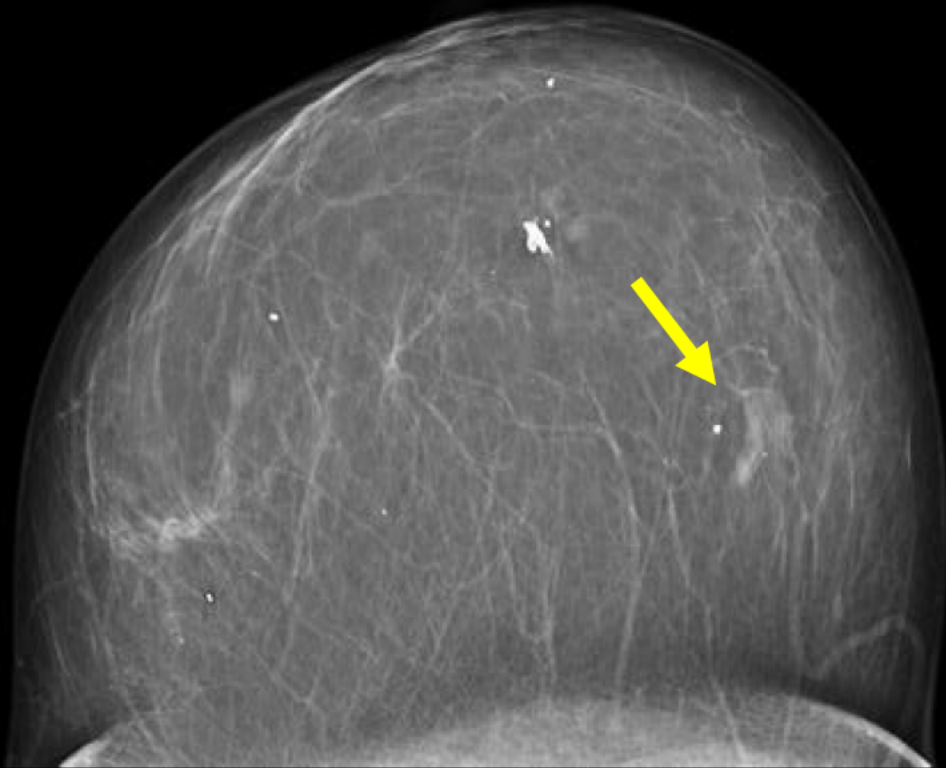
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Primary Amyloidosis of the Breast

Rimpi Saini, MD
Truman Medical Center
Kansas City, Missouri



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Genitourinary Best Case



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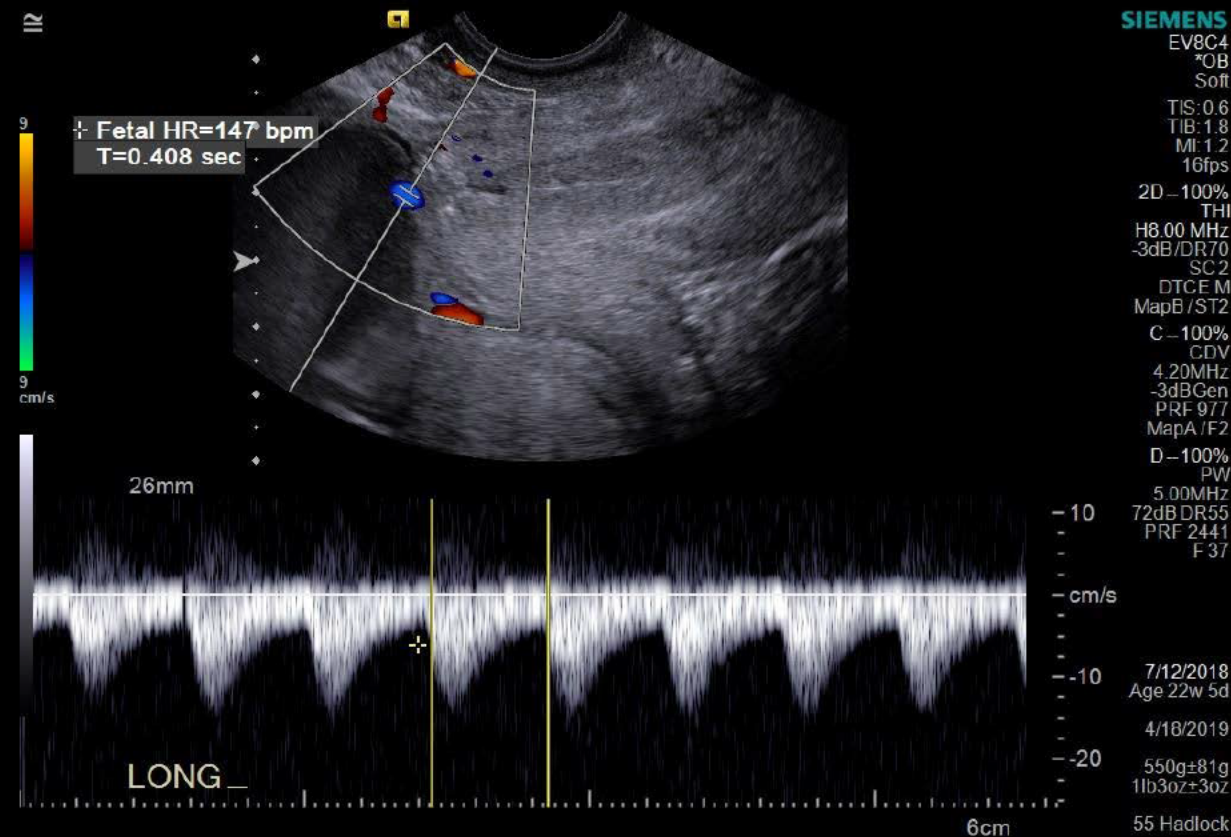
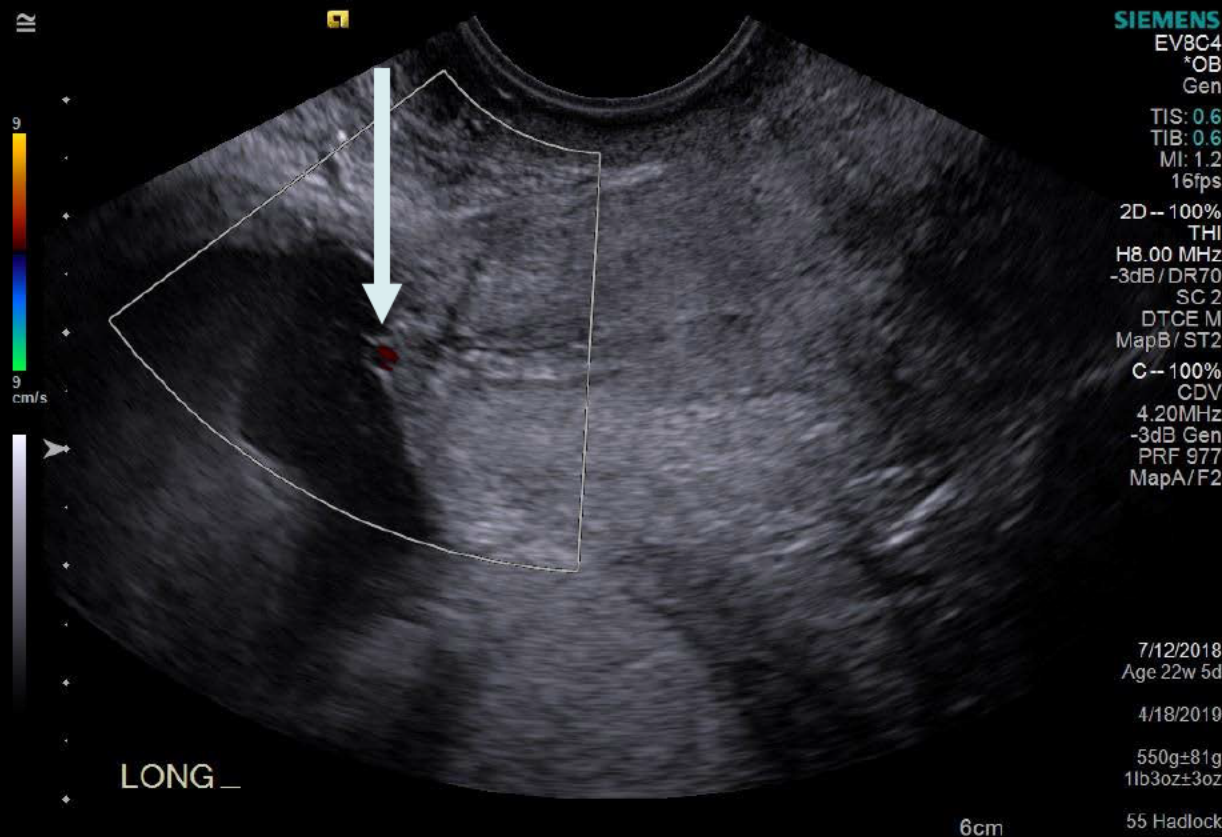
Clinical information

**30 year old female with prior history of caesarean section.
Second trimester ultrasound demonstrated a complex fetal
cardiac anomaly with posterior low lying placenta.**



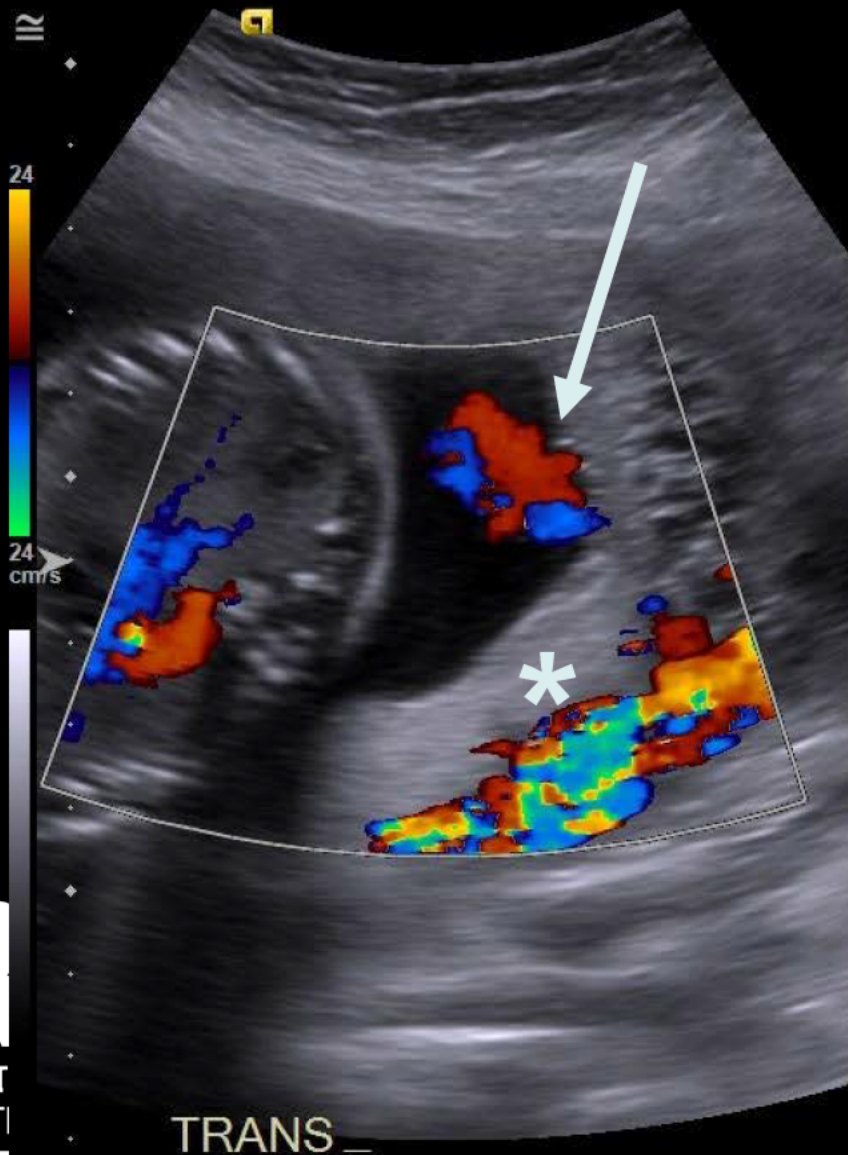
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6C2
*OB
Gen

TIS: 0.7
TIB: 0.7
MI: 1.5
10fps

2D-- 100%
THI
H5.00 MHz
6dB/DR65
ASC 3
DTCE M
MapC/ST2

C-- 100%
CDV
3.25MHz
0dB Gen
PRF 1953
MapA/F2

7/12/2018
Age 22w 5d

4/18/2019

550g±81g
1lb3oz±3oz

55 Hadlock

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SIEMENS

6C2
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TIS: 0.7
TIB: 0.7
MI: 1.5
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2D-- 100%
THI

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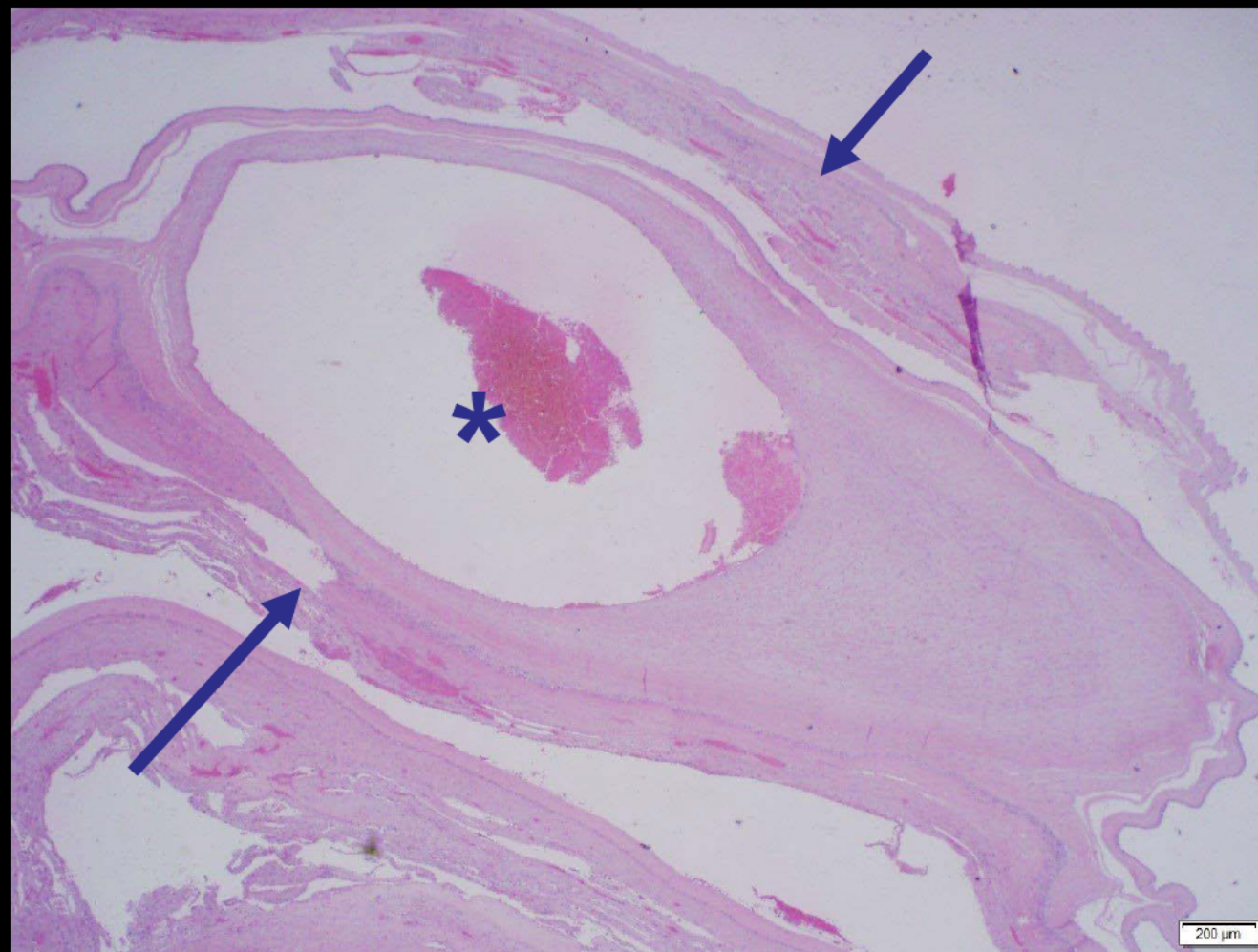
55 Hadlock

13cm



AMI
RAI

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Vasa previa with velamentous cord insertion

Michael Weintraub, MD

University of Utah

Salt Lake City, UT

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