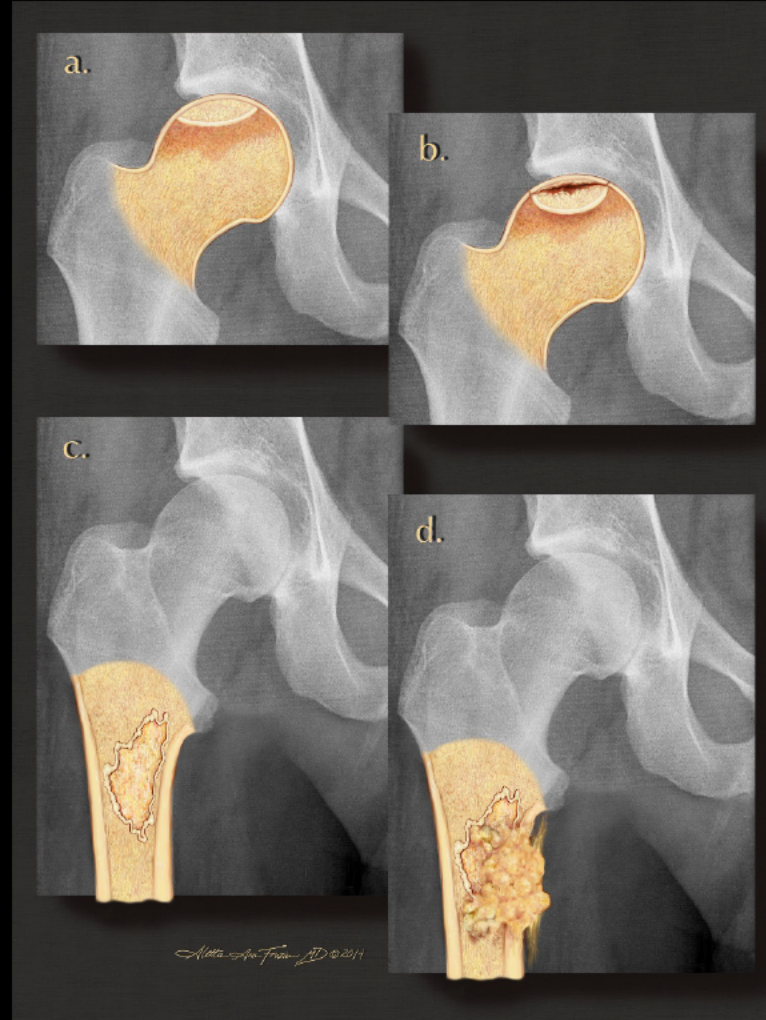


# Best Cases of the AIRP

October – November 2021

# Musculoskeletal Best Case



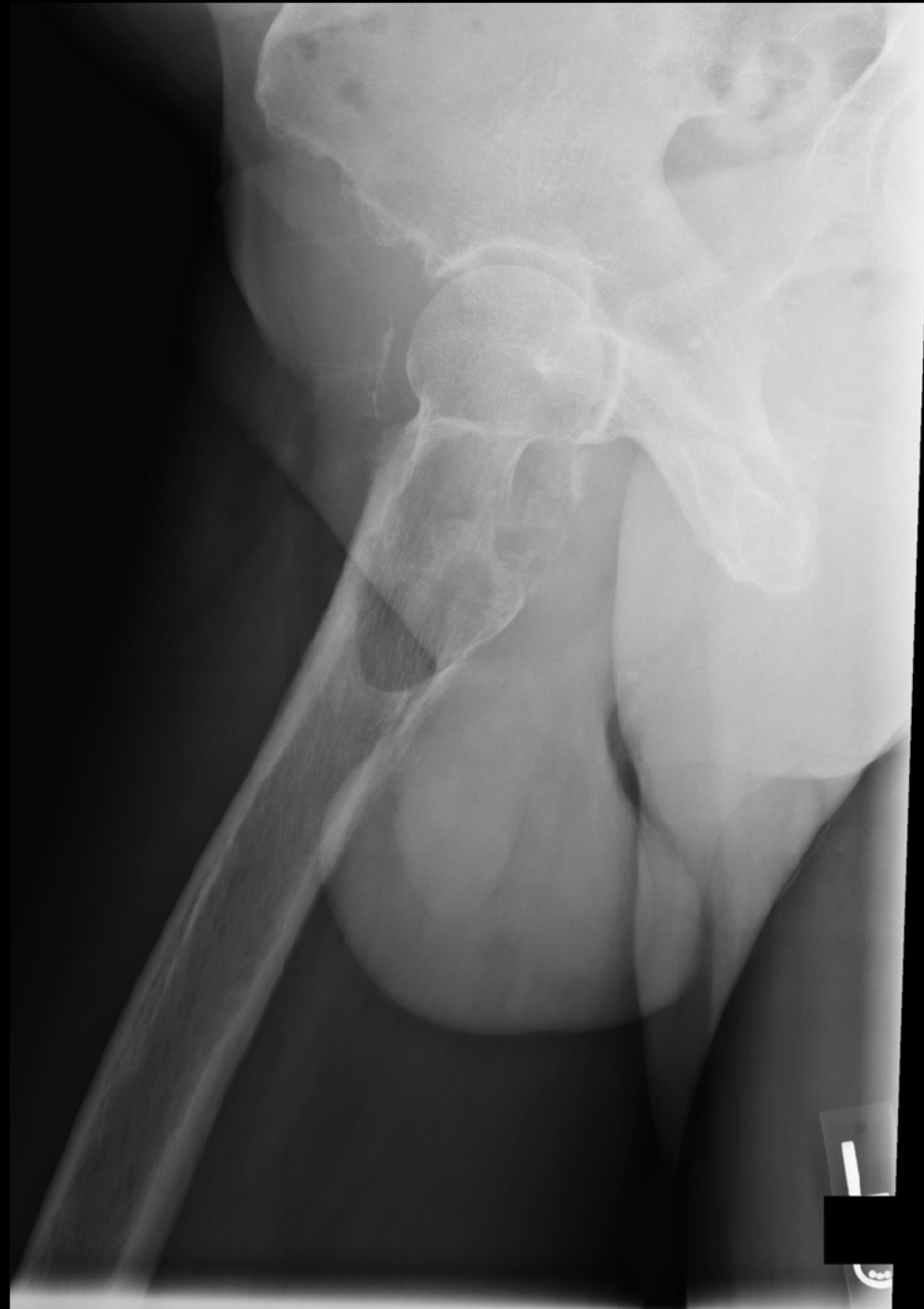


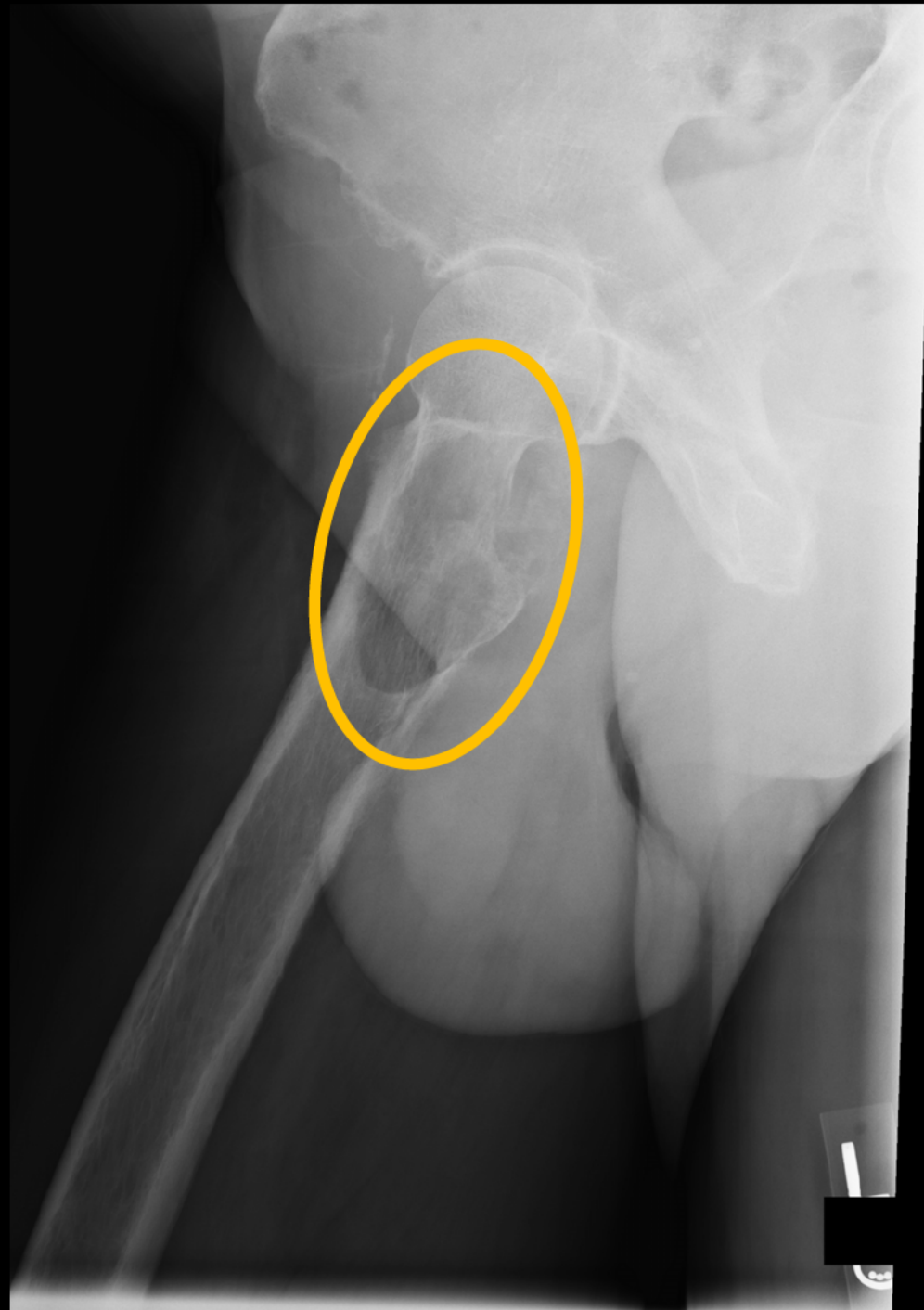
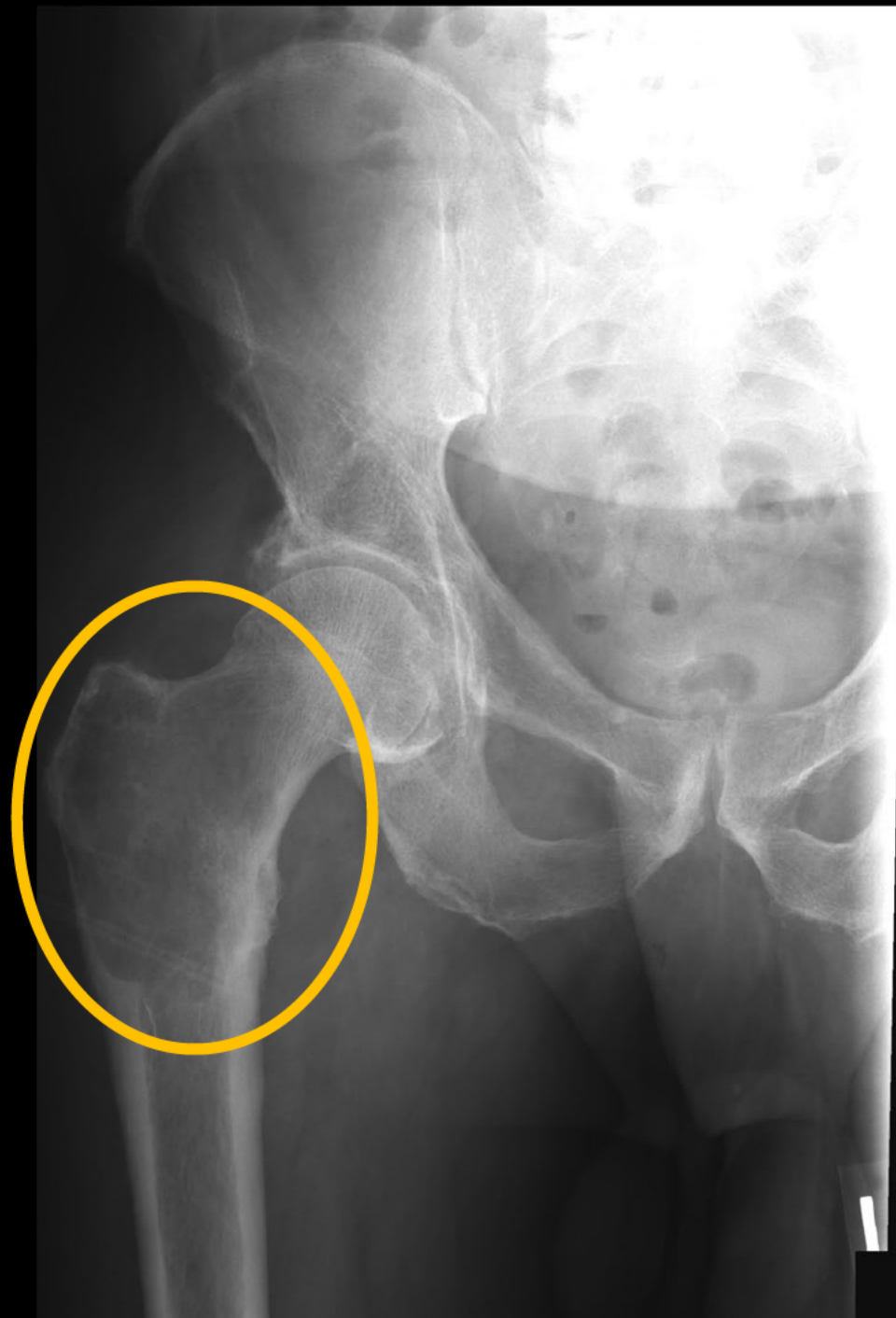
# CLINICAL HISTORY

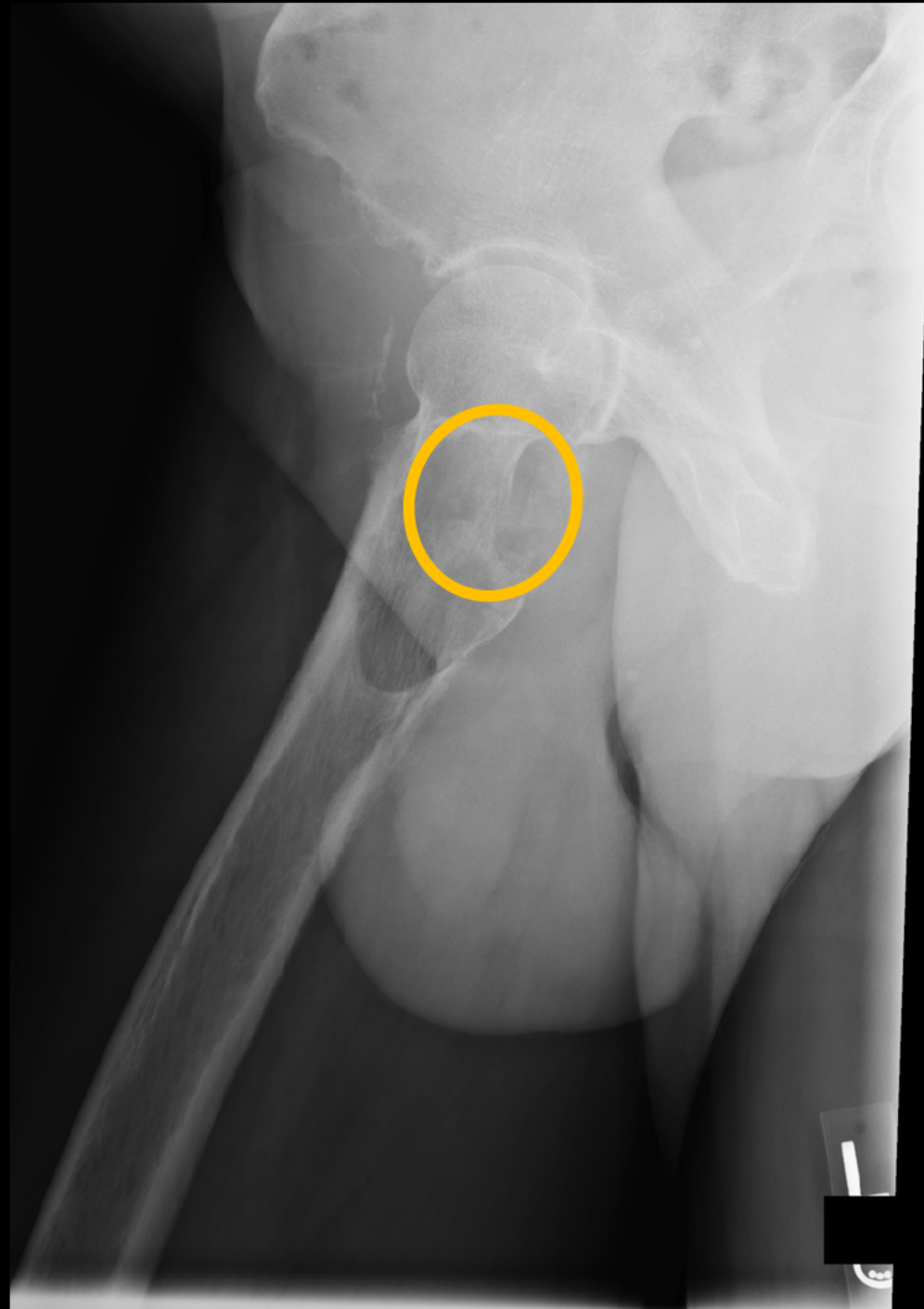
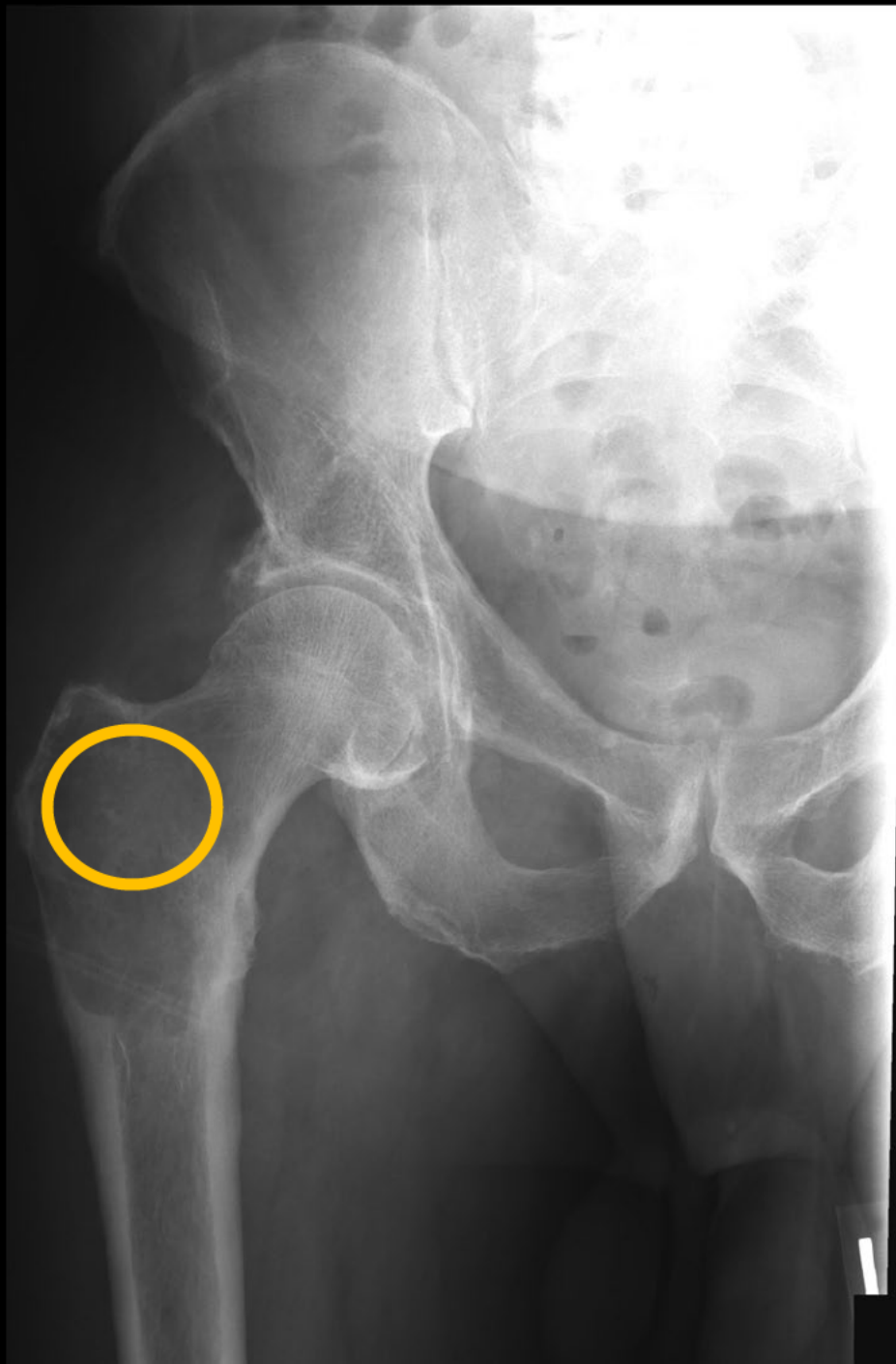
**68-year-old male experiencing 3-months of a soft tissue mass about the right hip associated with knee and back pain**

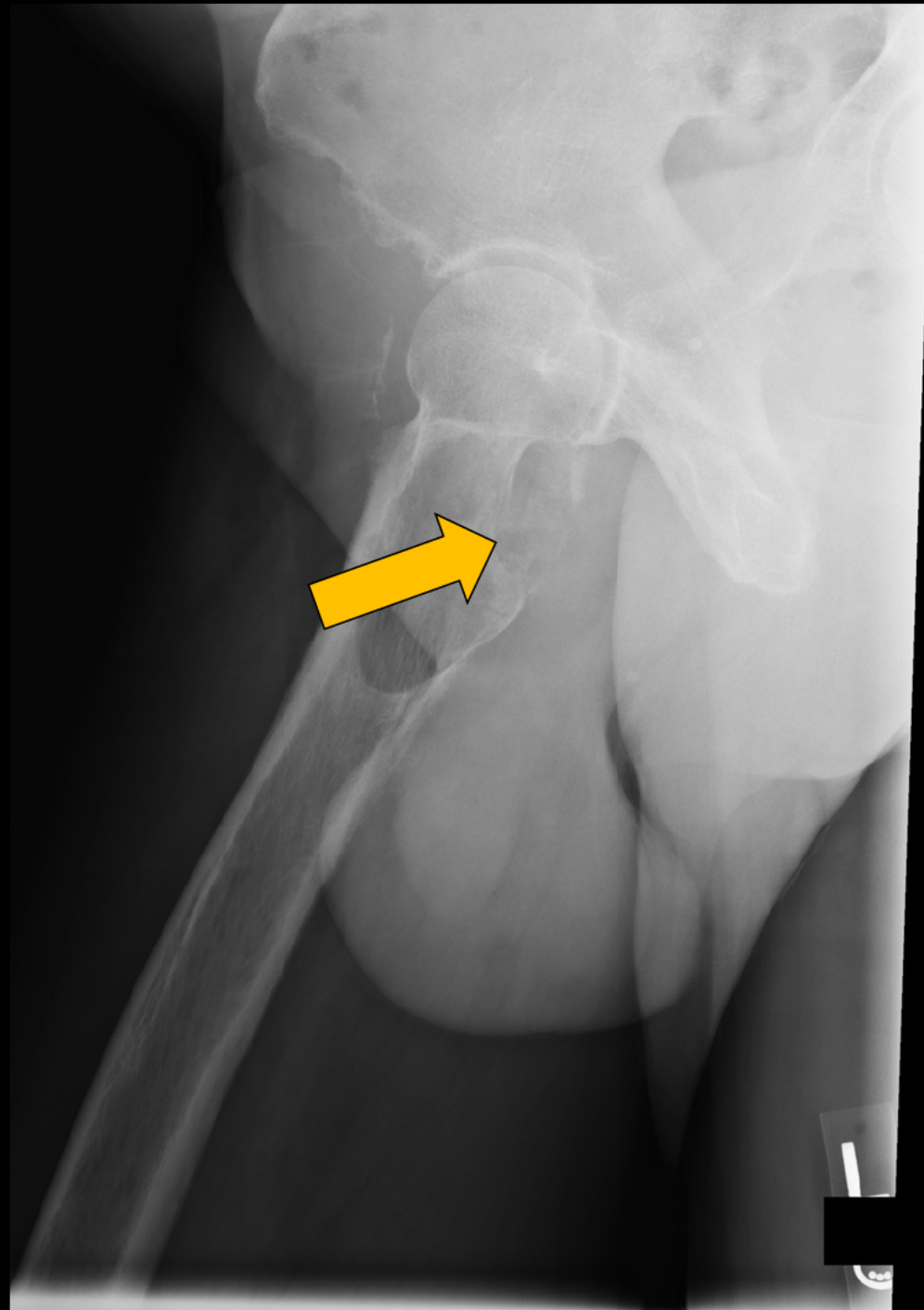
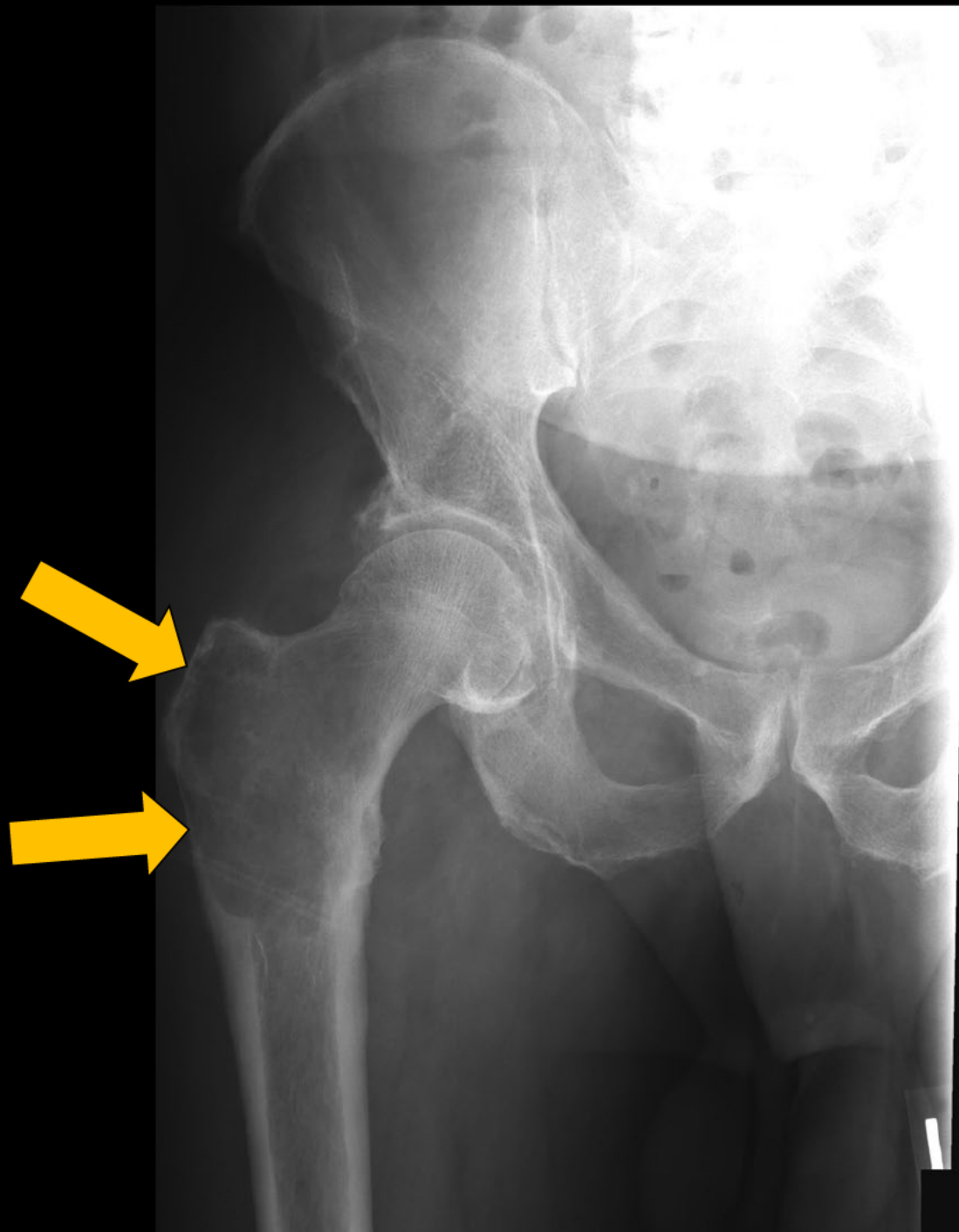


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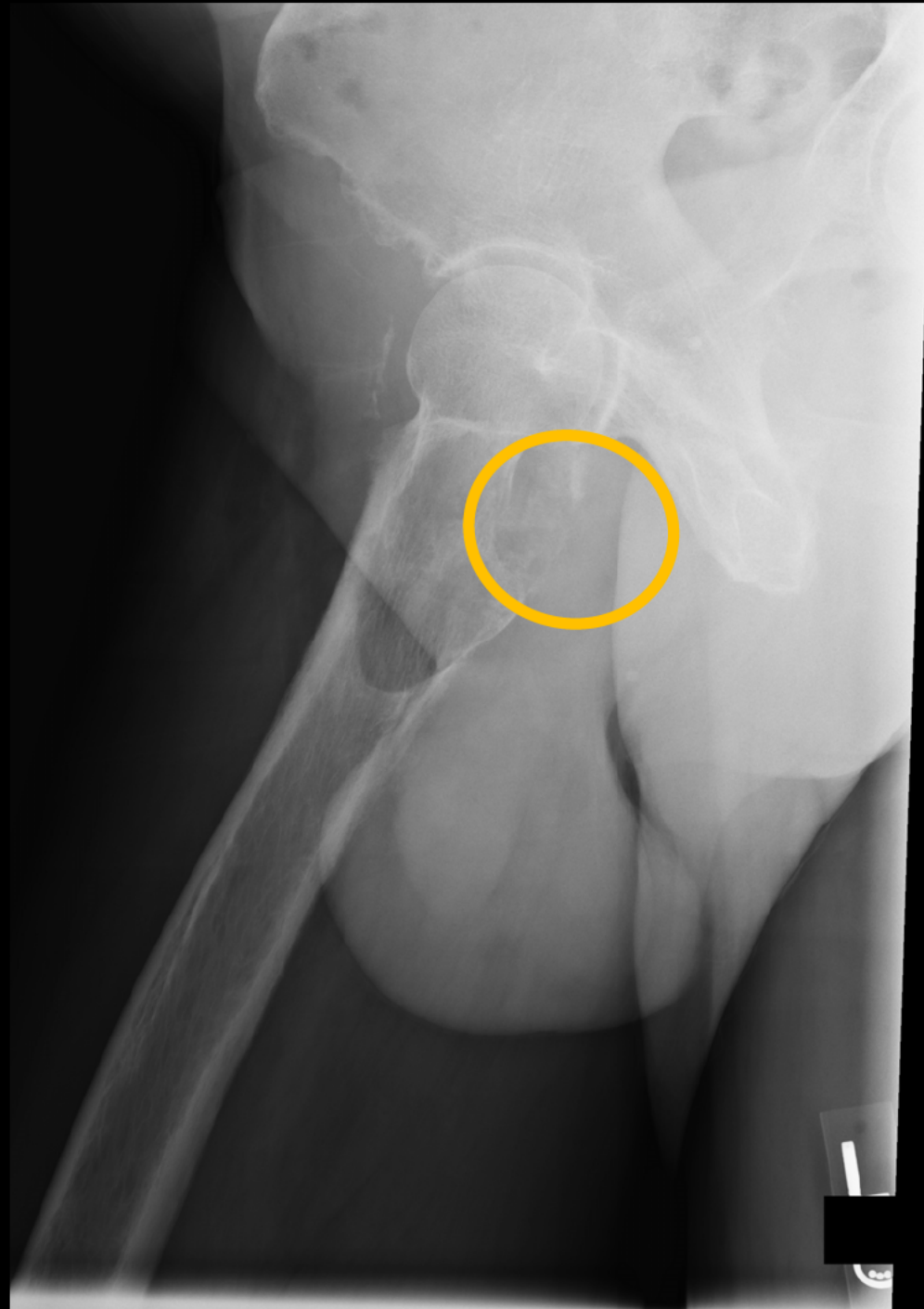


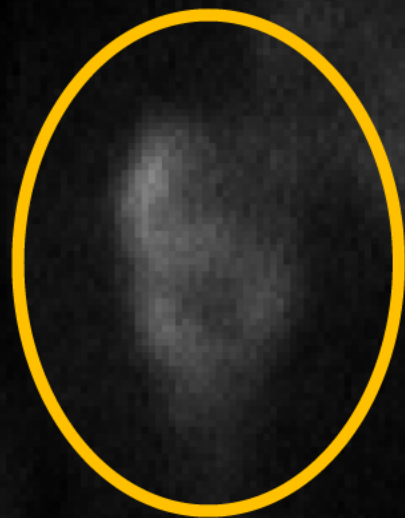






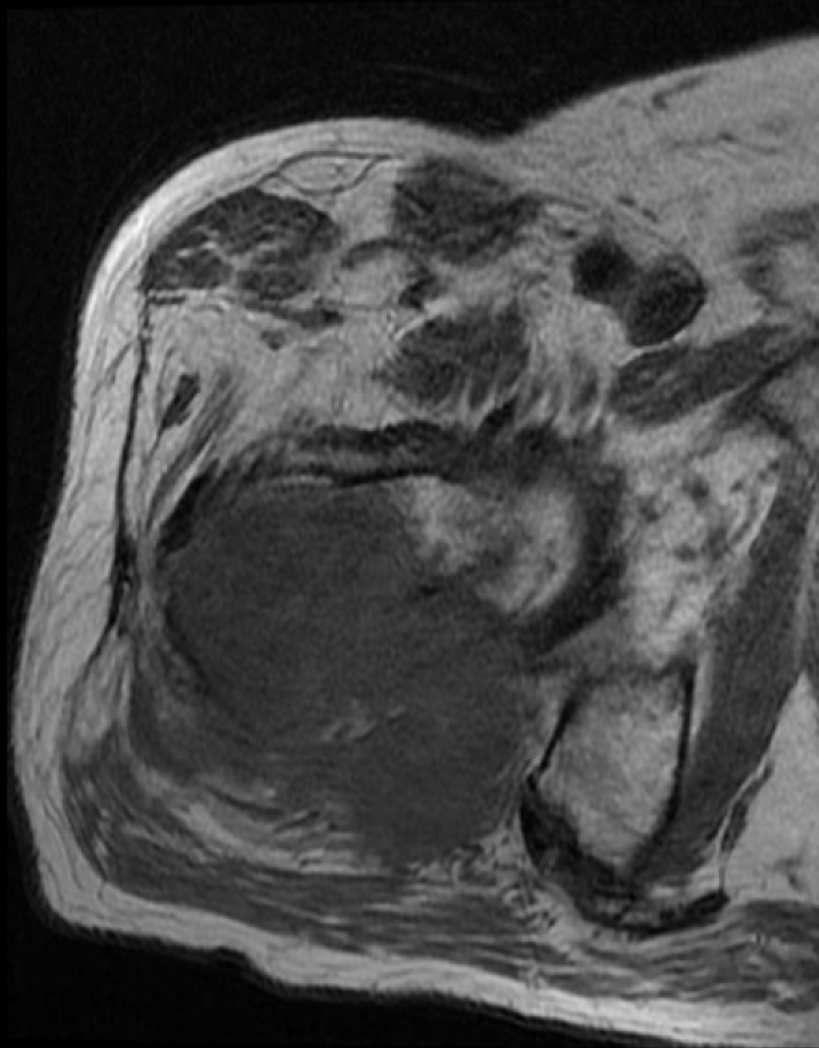




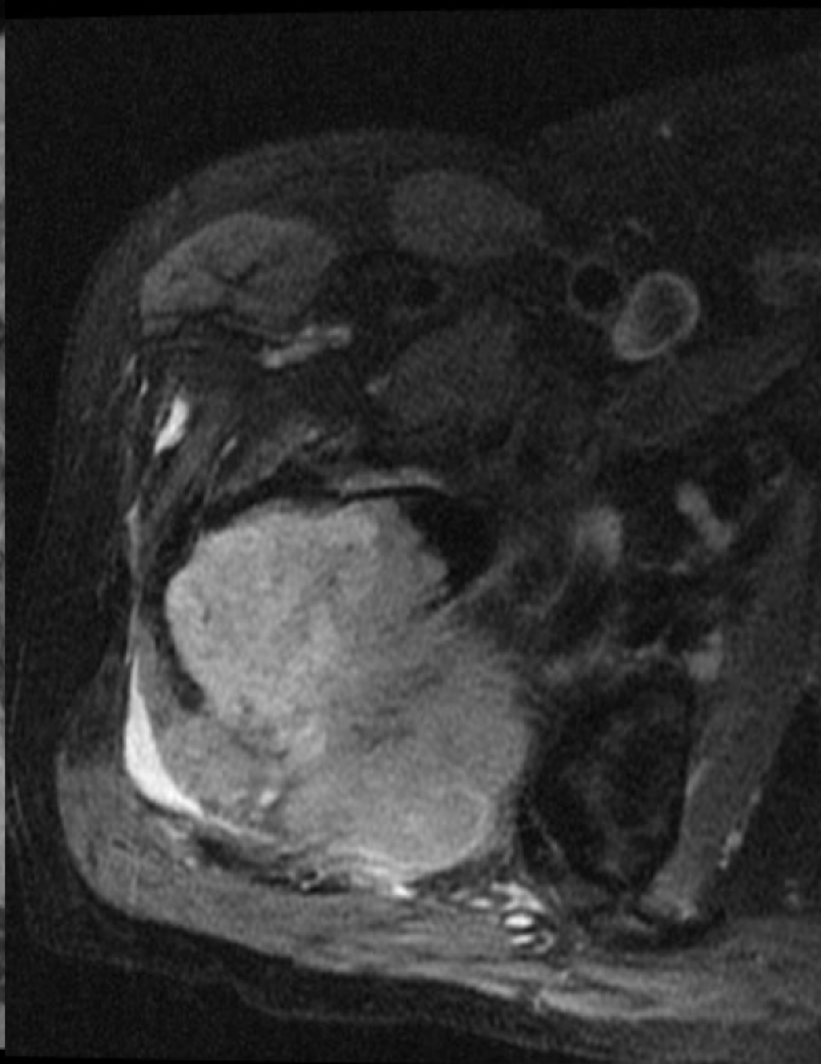




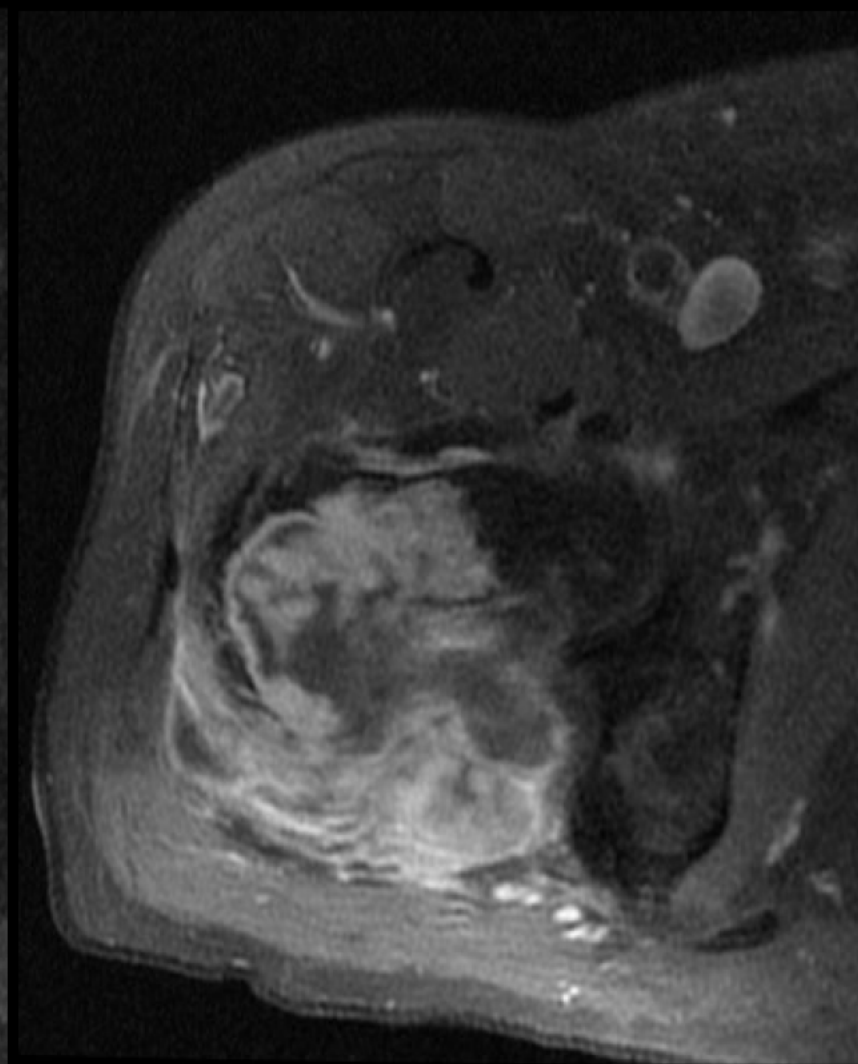
AX T1



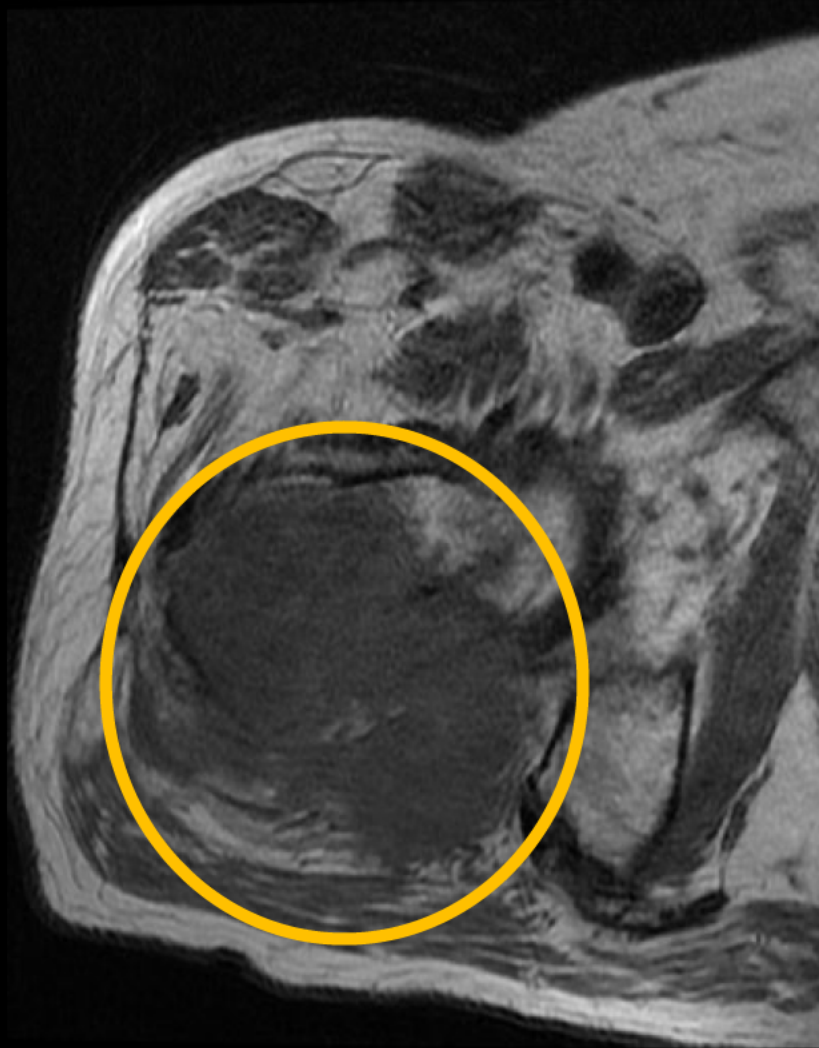
AX STIR



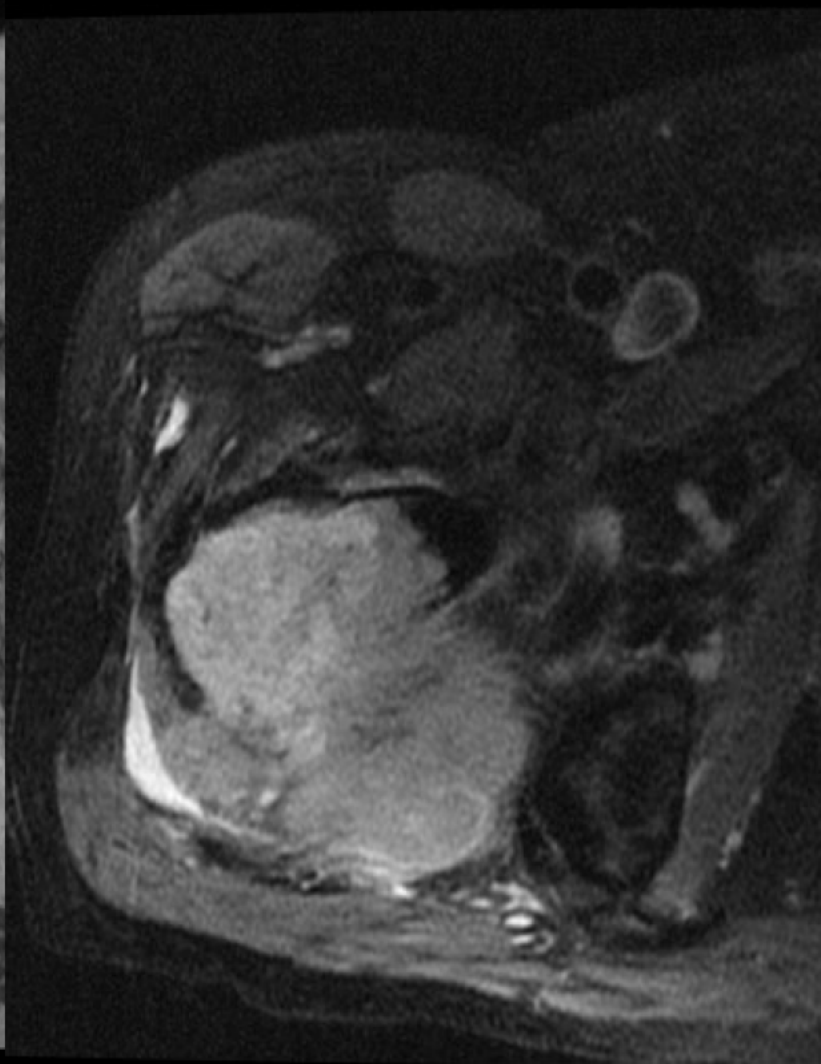
AX T1 Post



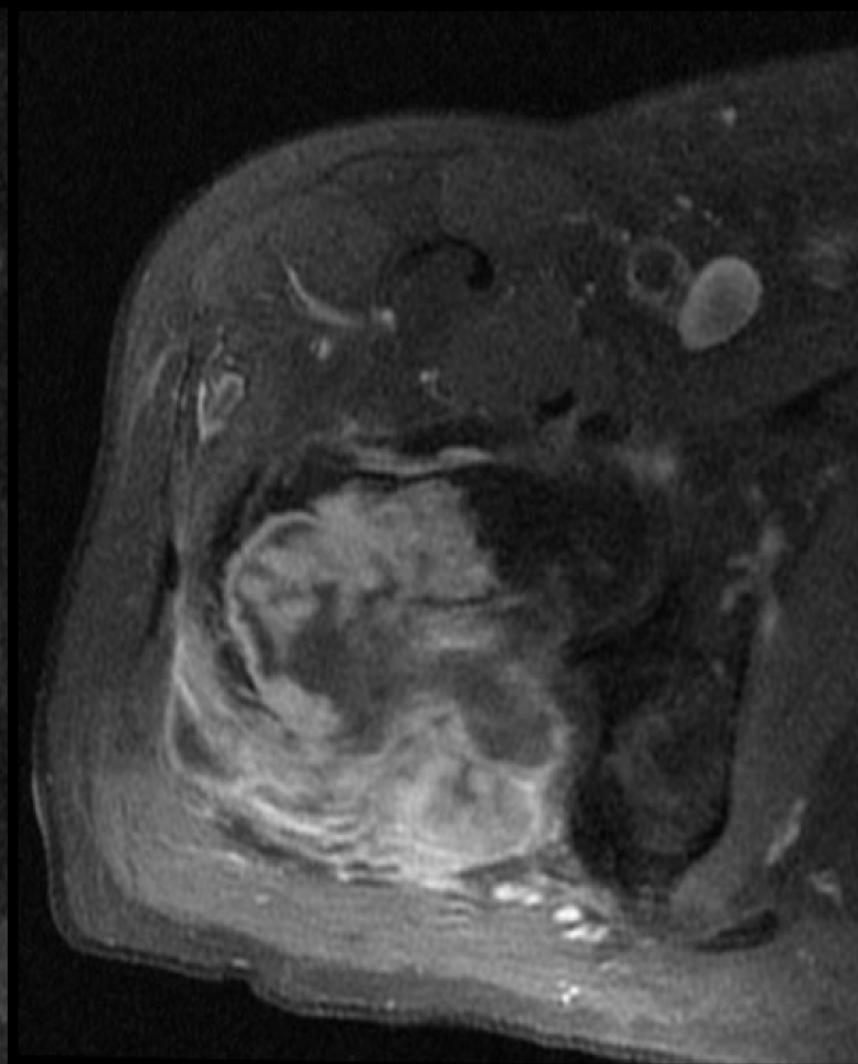
AX T1



AX STIR

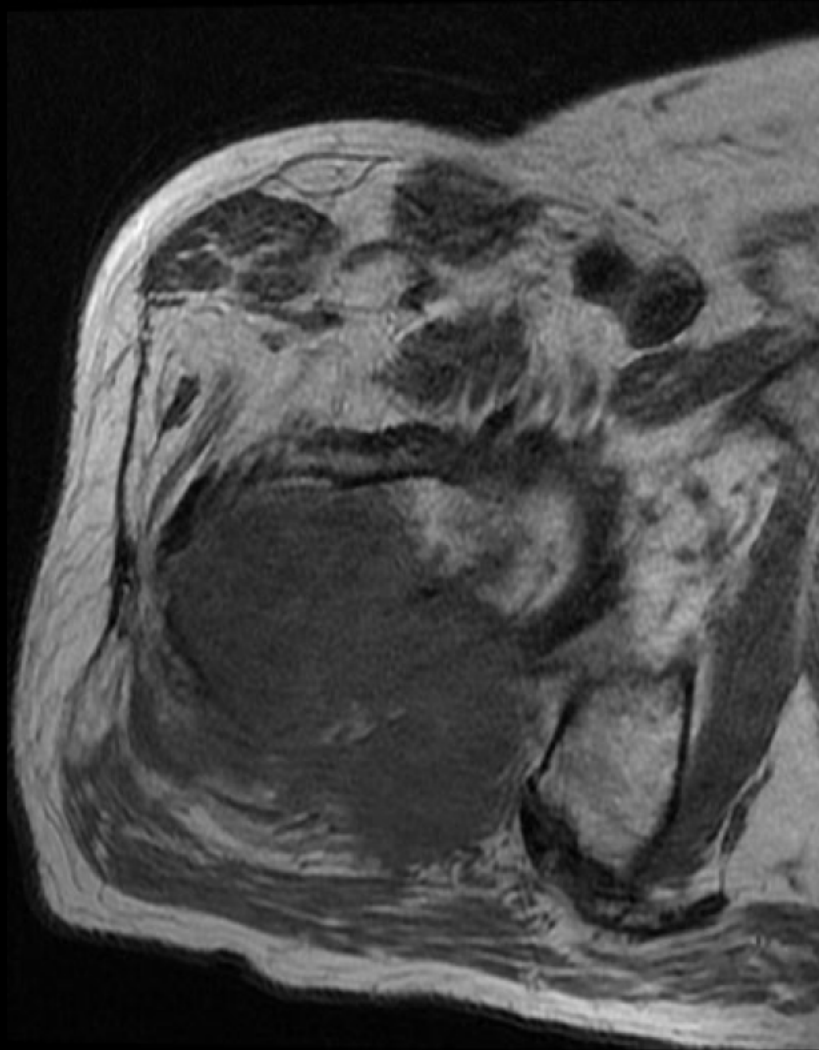


AX T1 Post

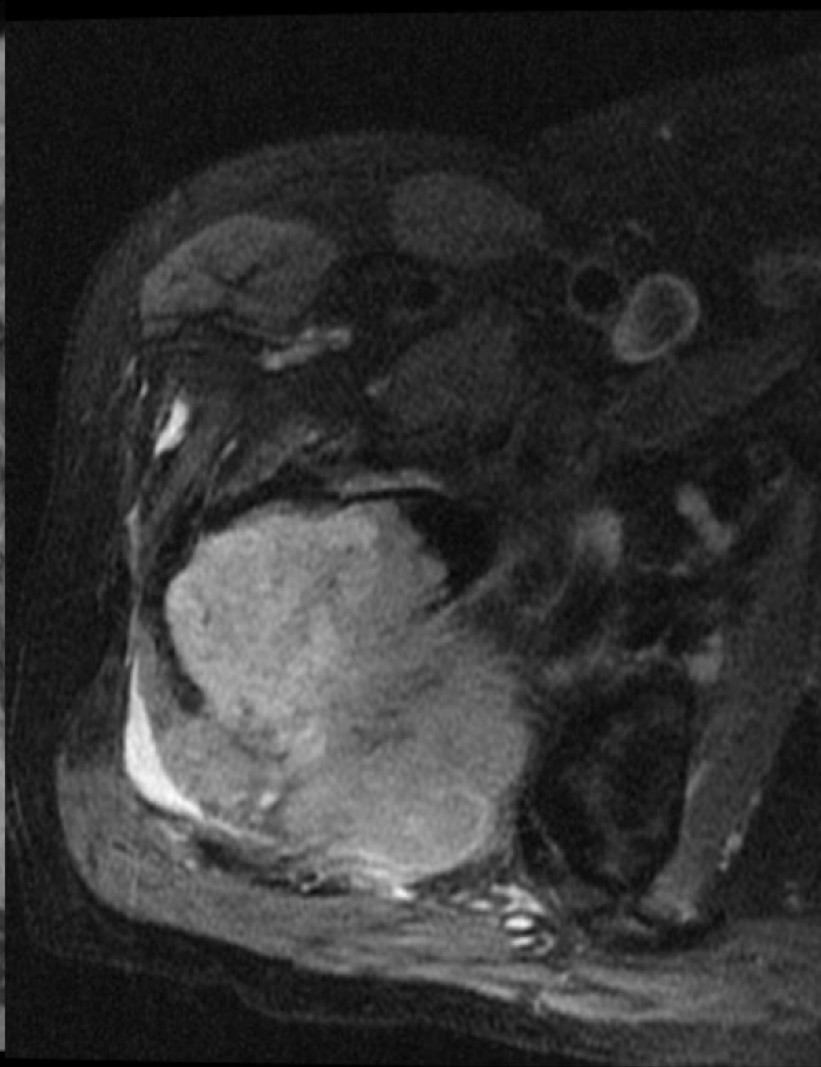




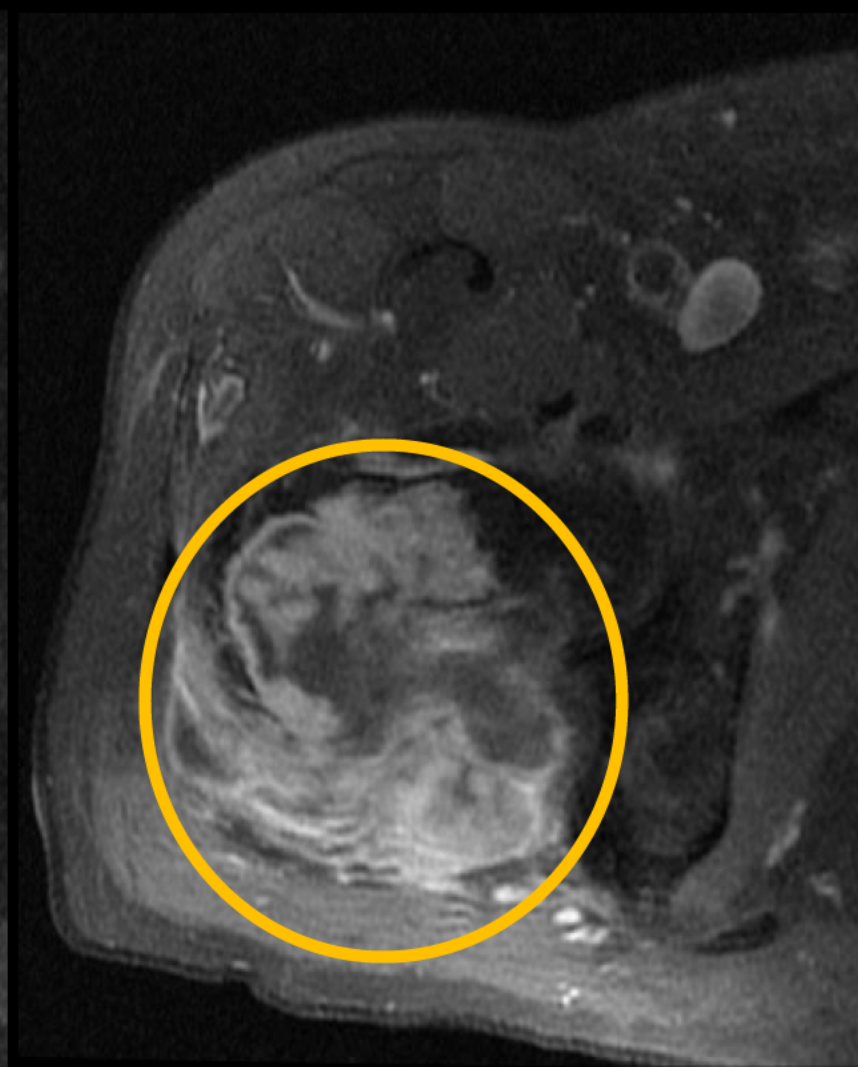
AX T1



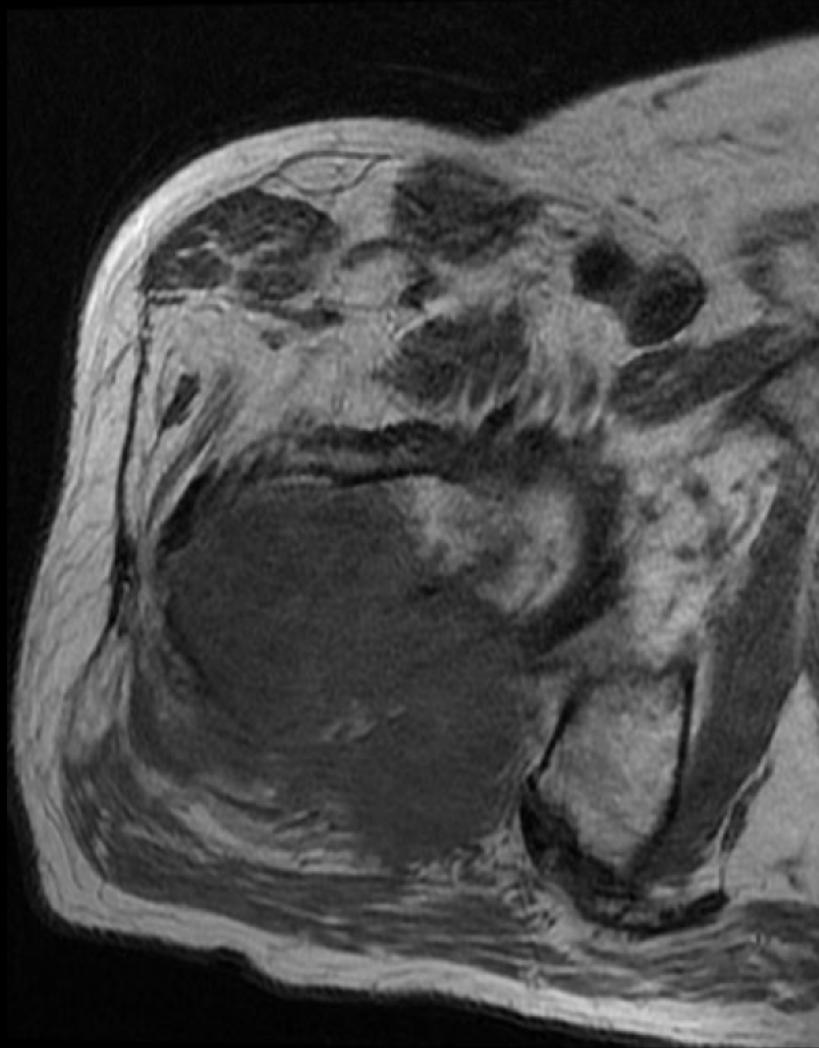
AX STIR



AX T1 Post



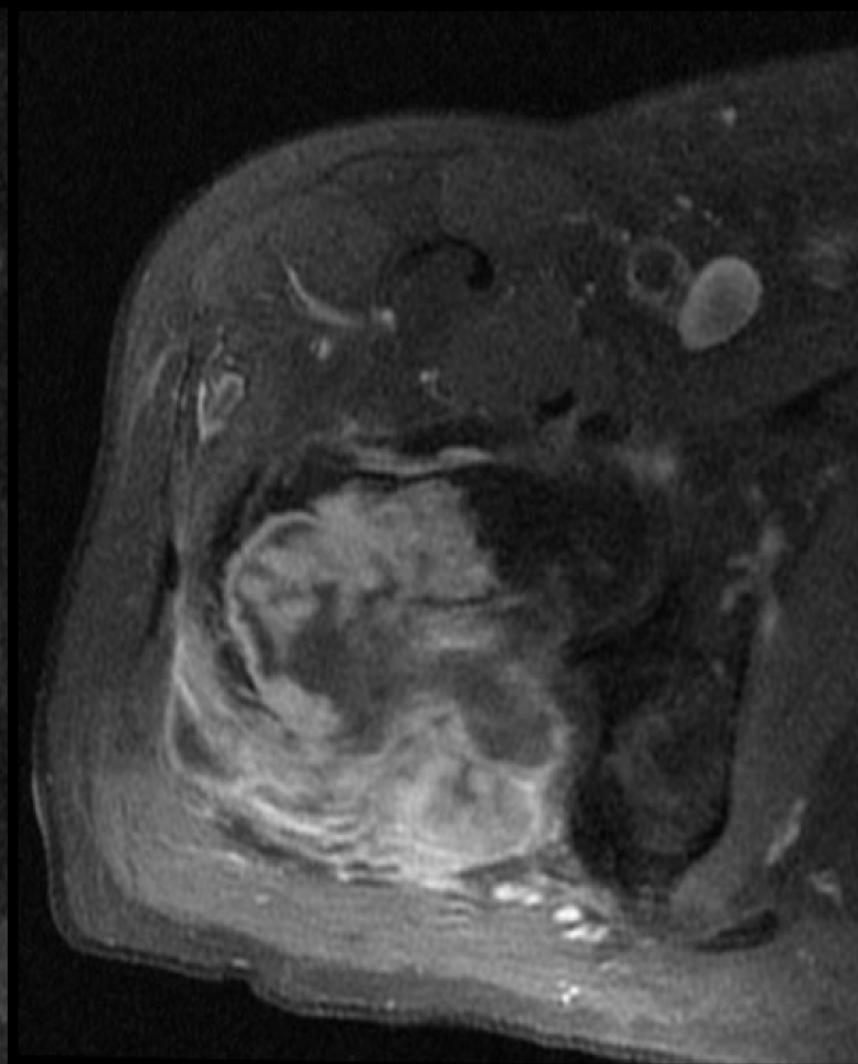
AX T1



AX STIR

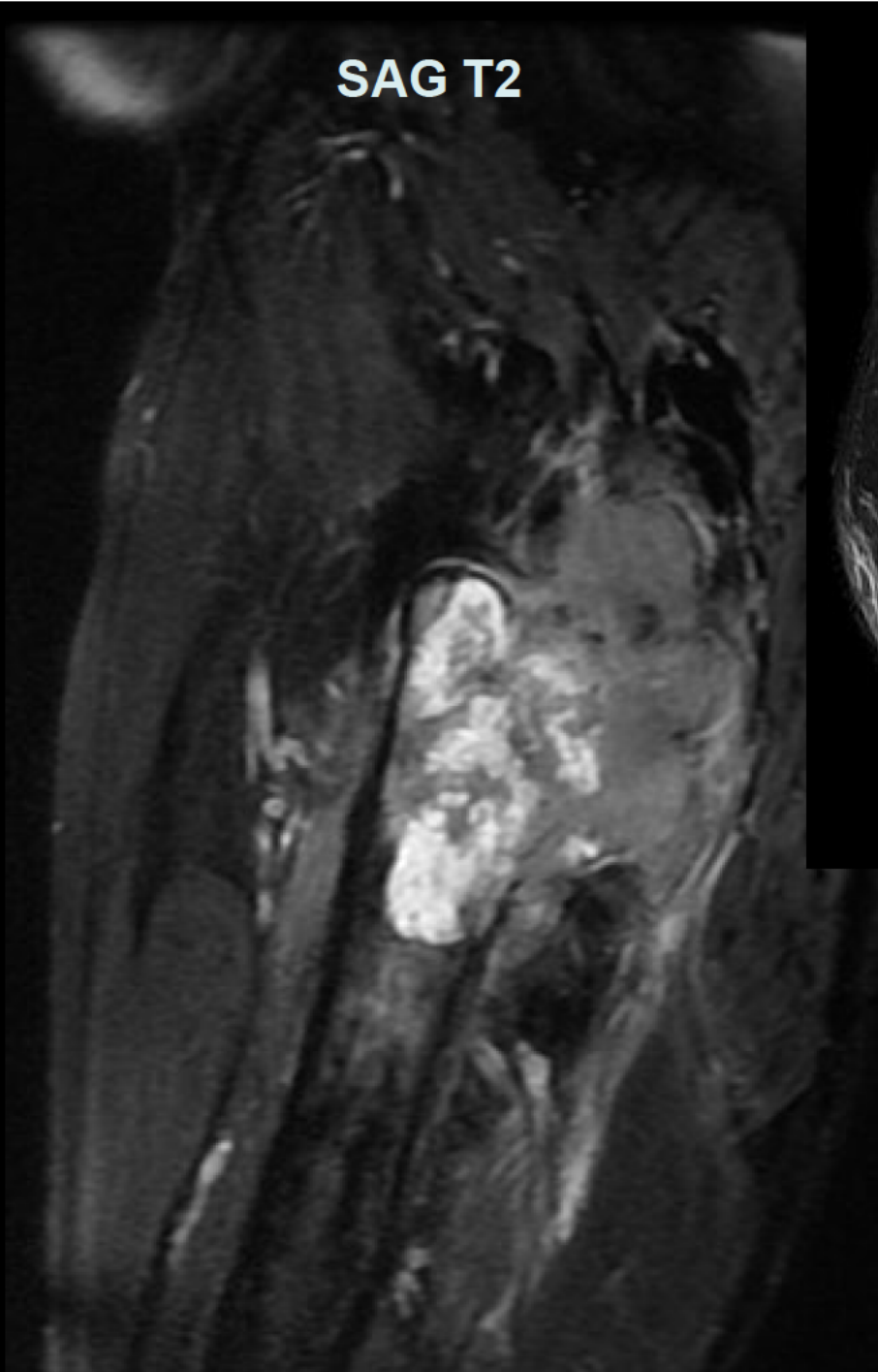


AX T1 Post

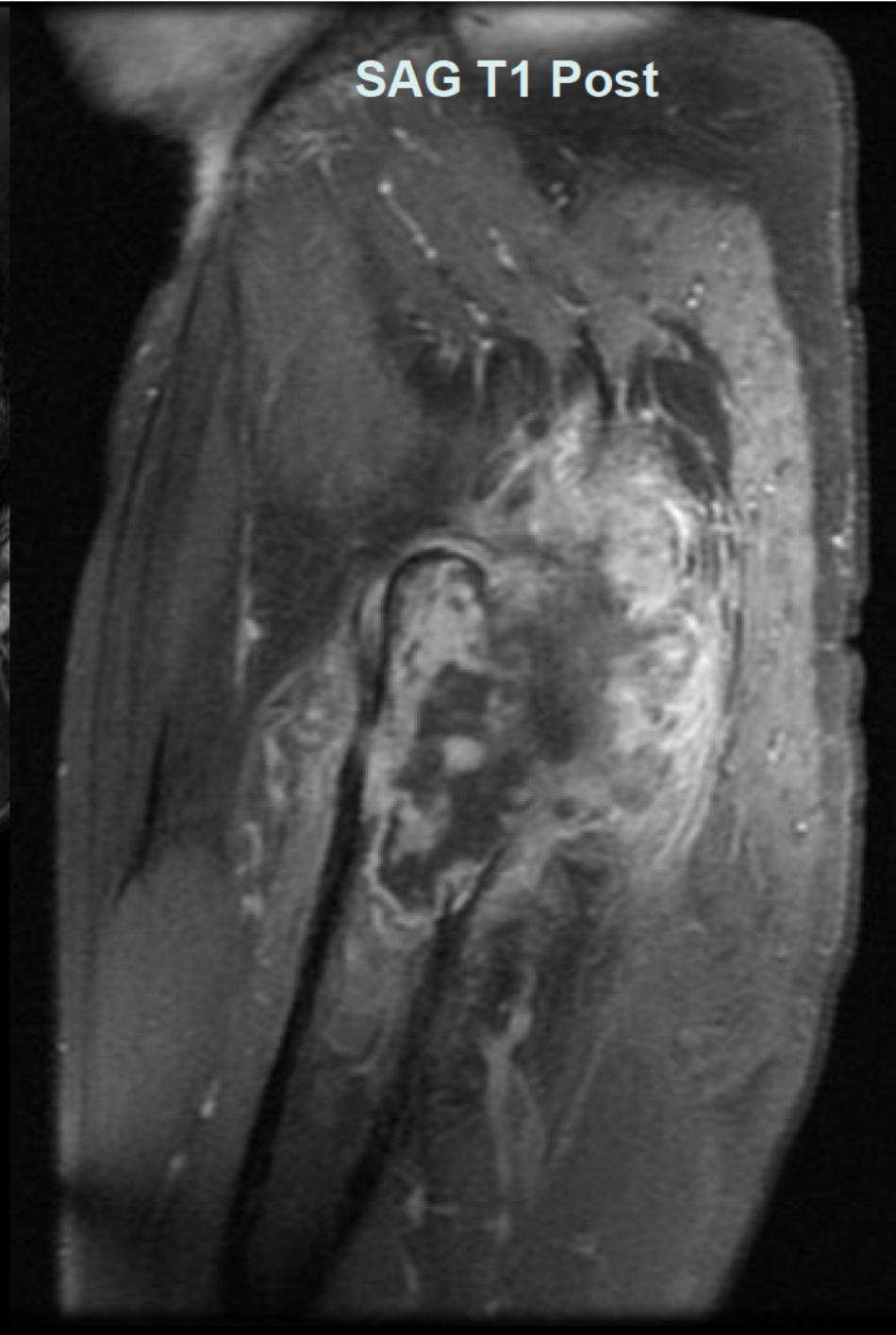




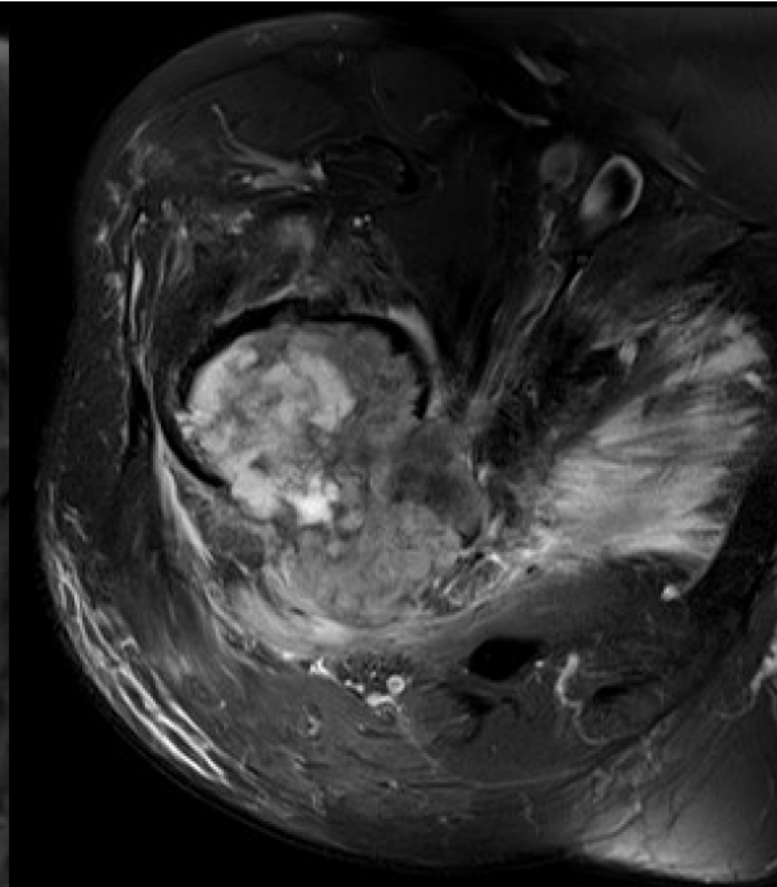
**SAG T2**



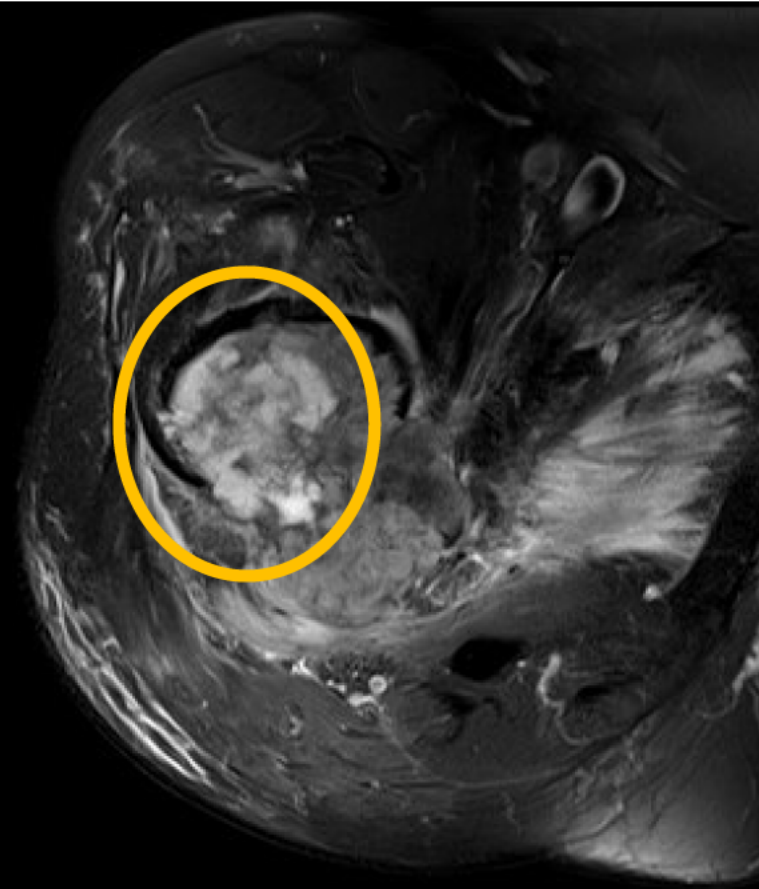
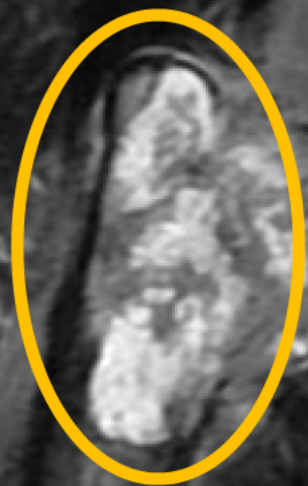
**SAG T1 Post**



**AXIAL T2**

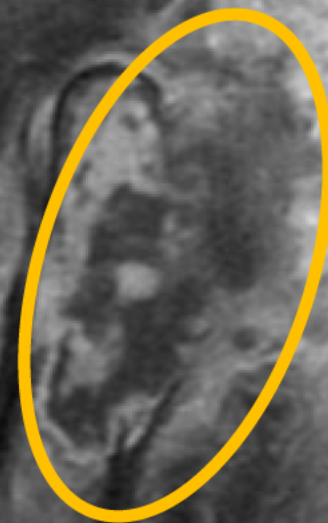


**SAG T2**



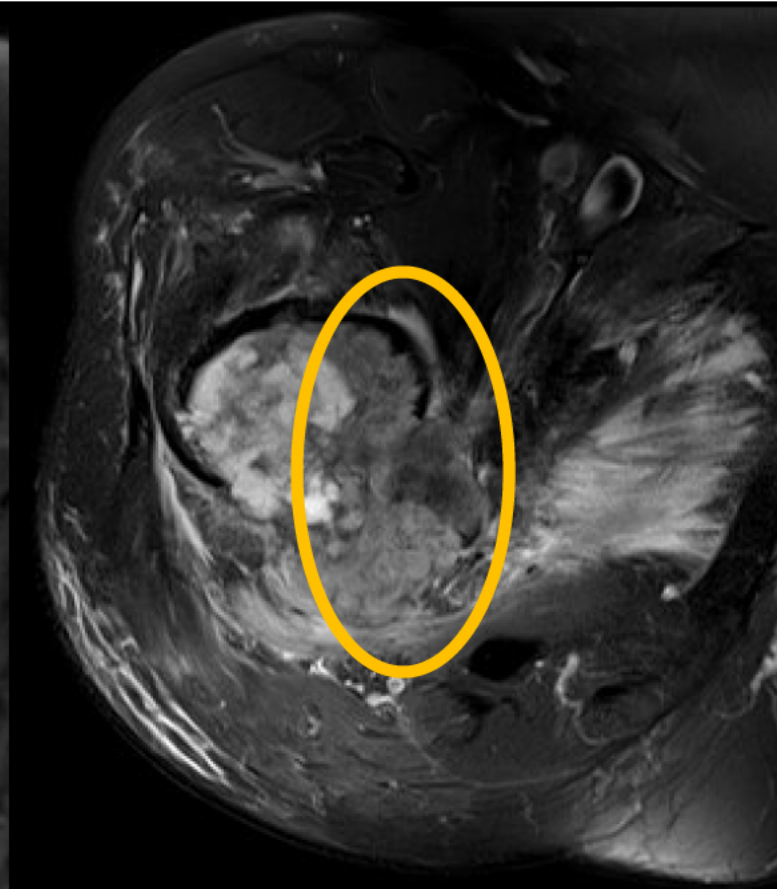
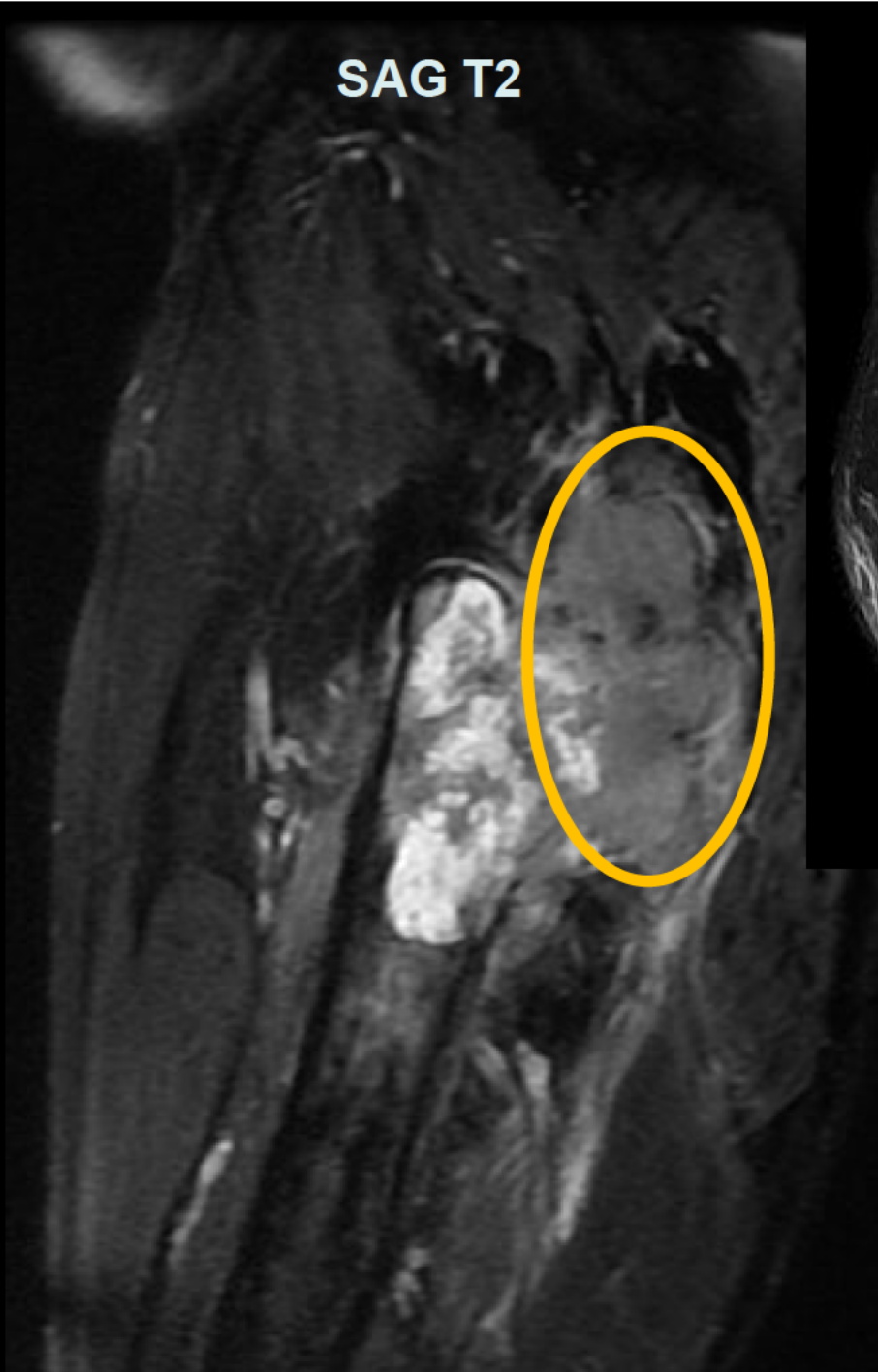
**AXIAL T2**

**SAG T1 Post**



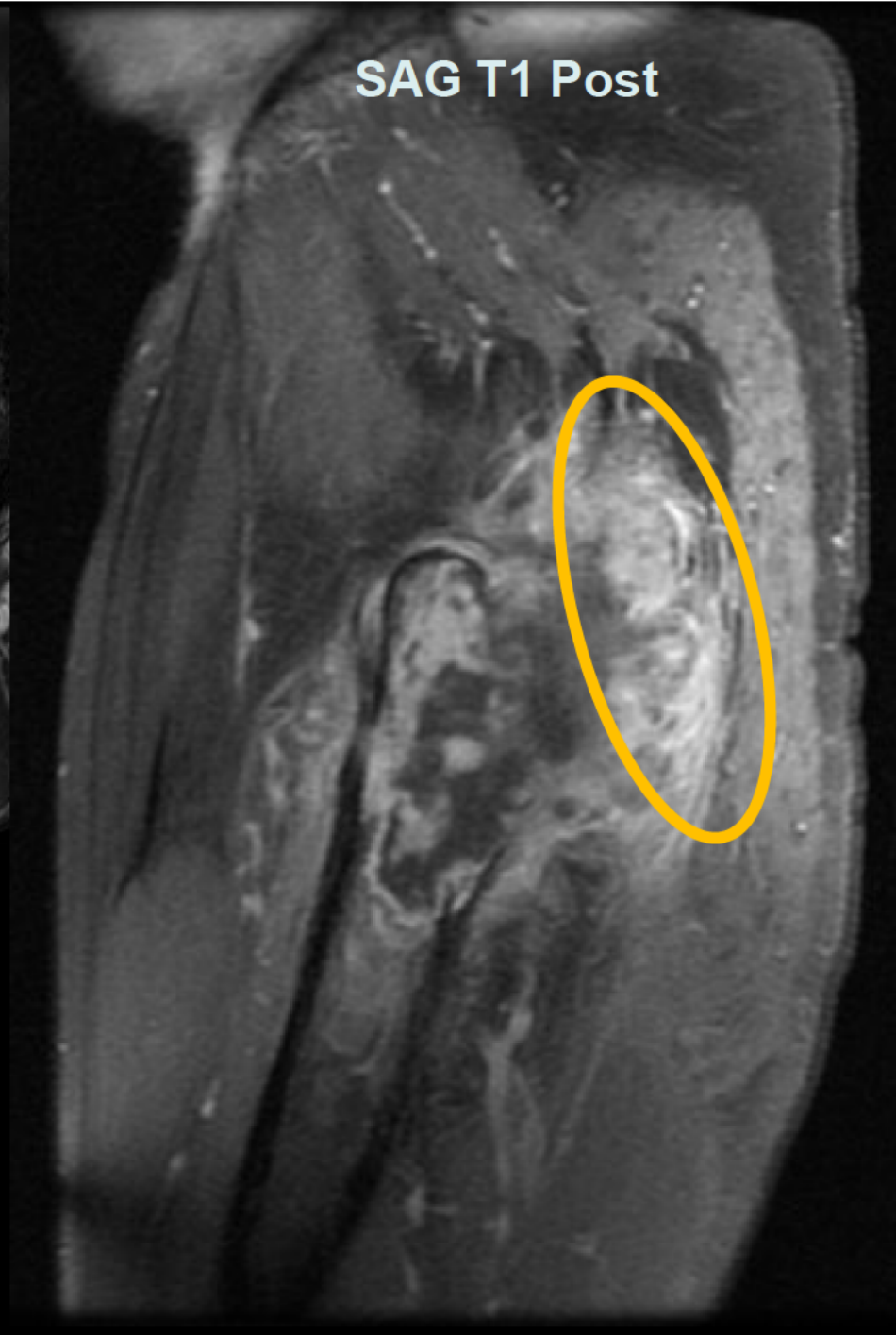


**SAG T2**

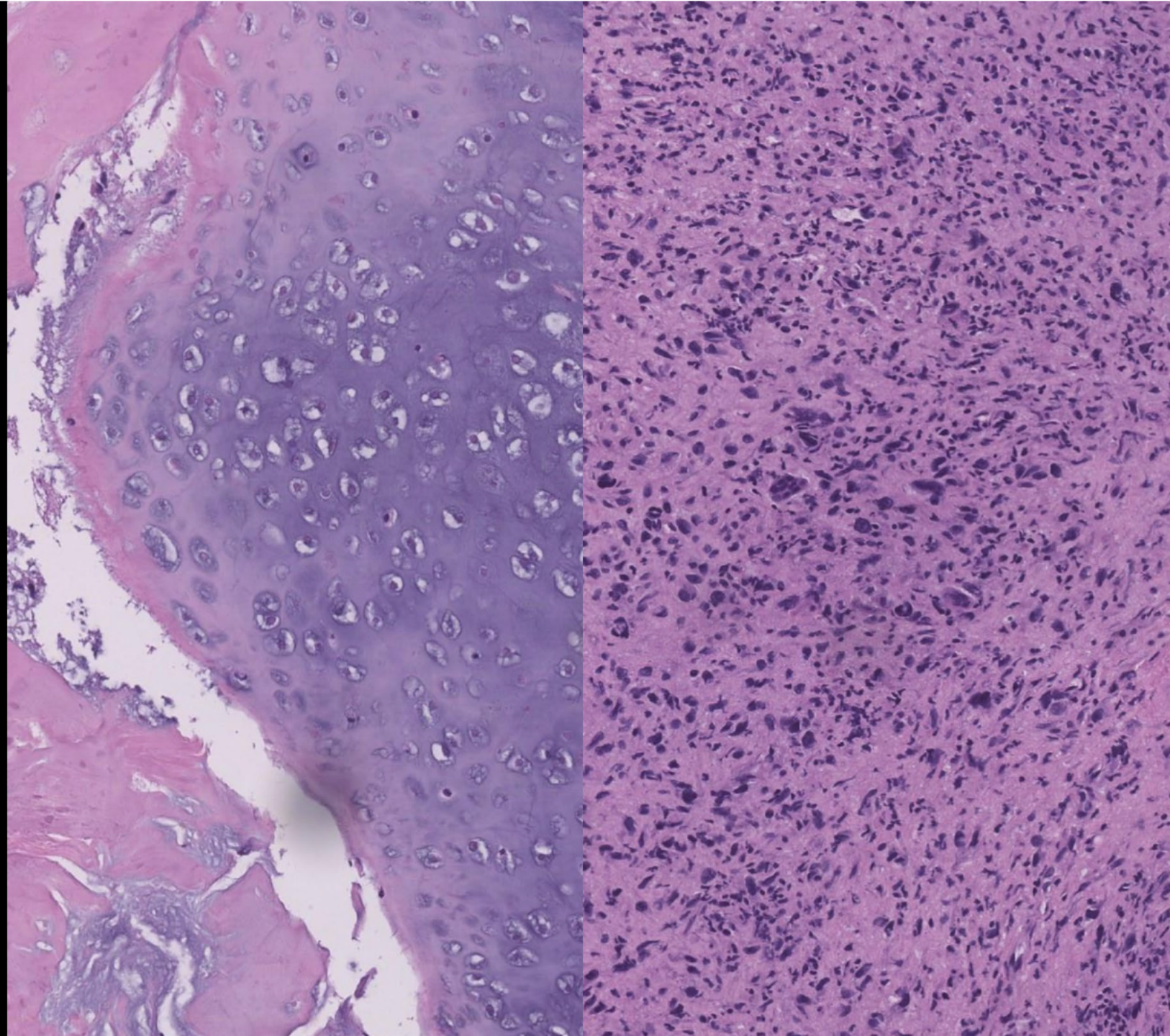
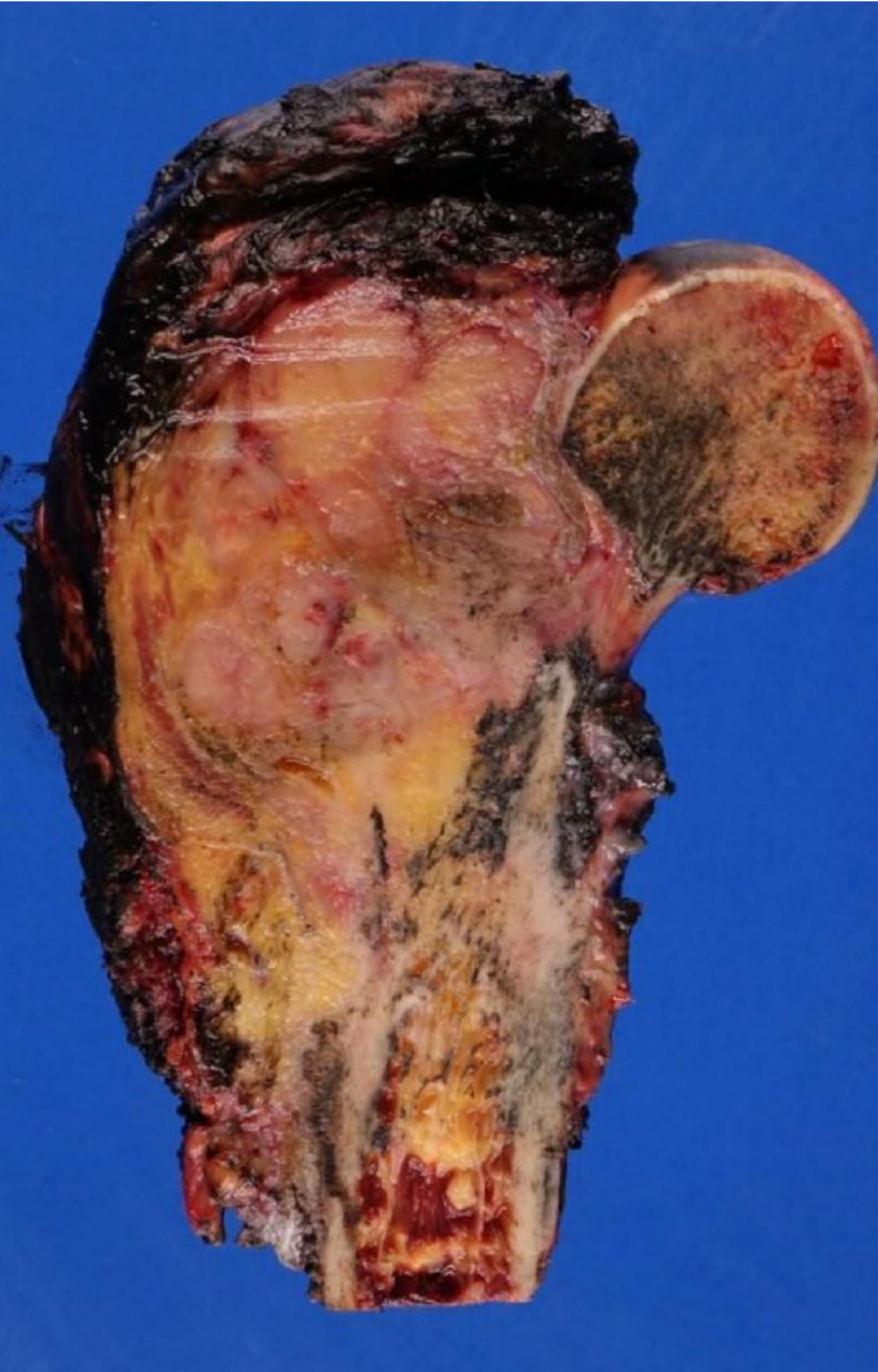


**AXIAL T2**

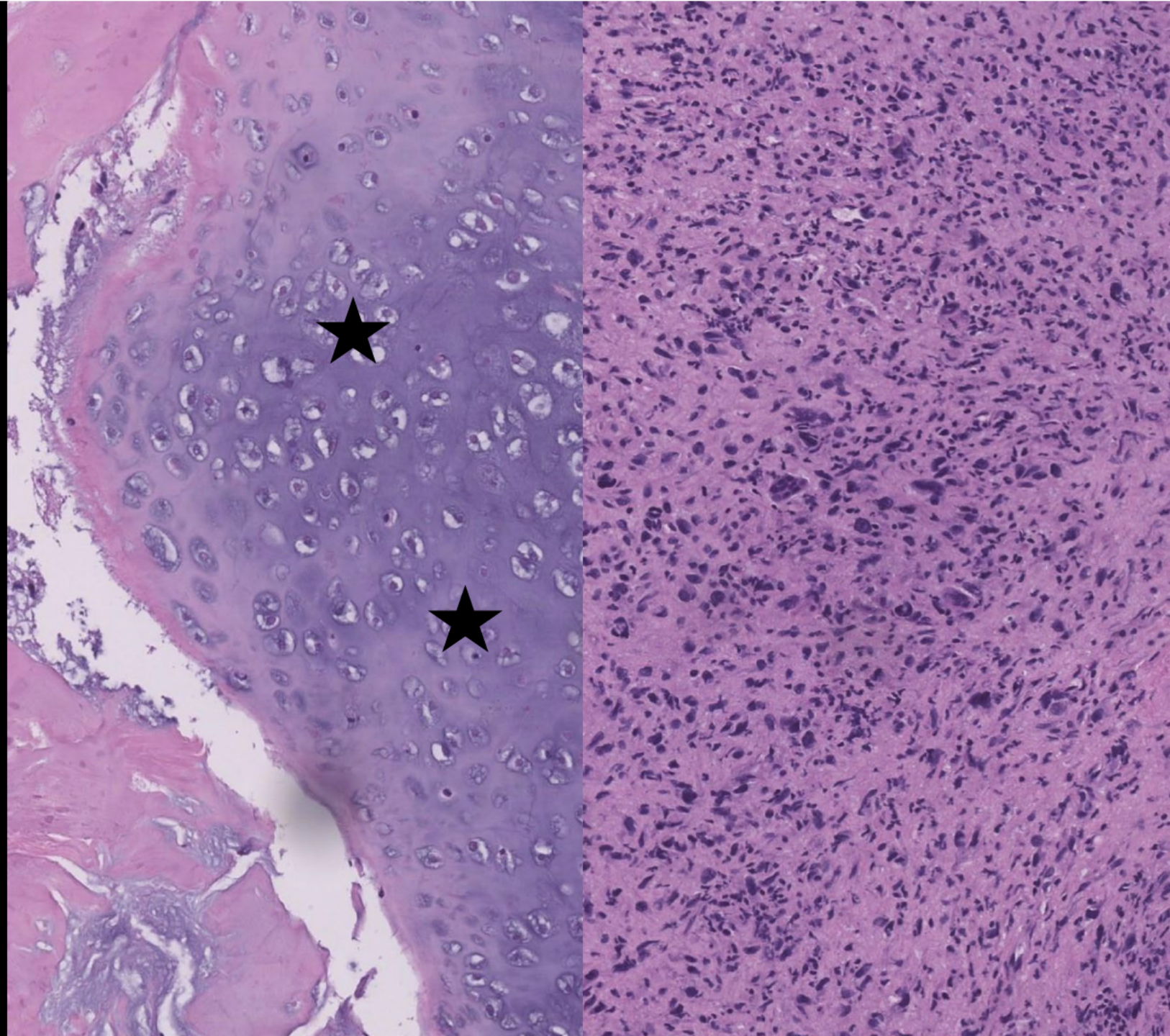
**SAG T1 Post**



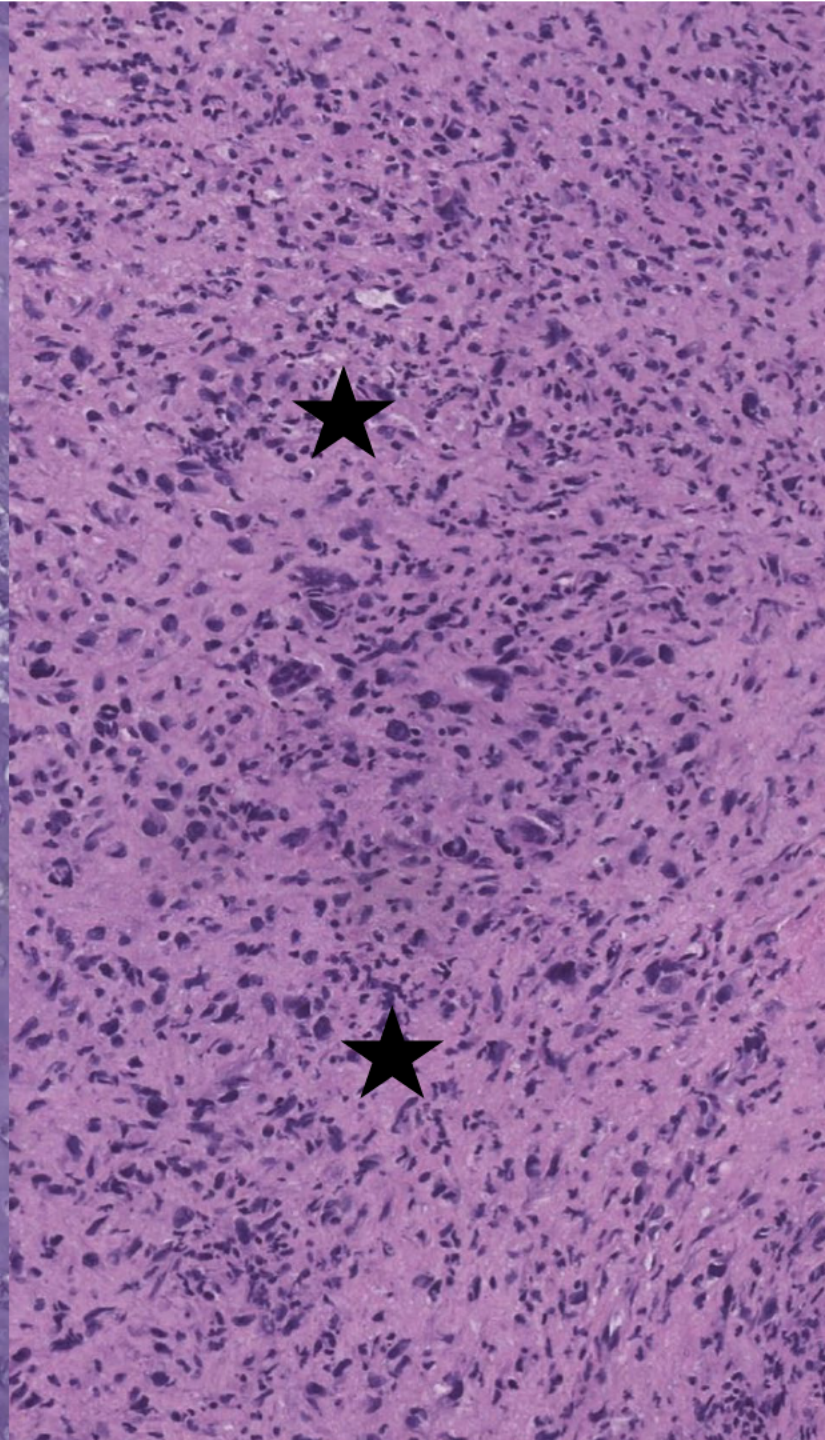
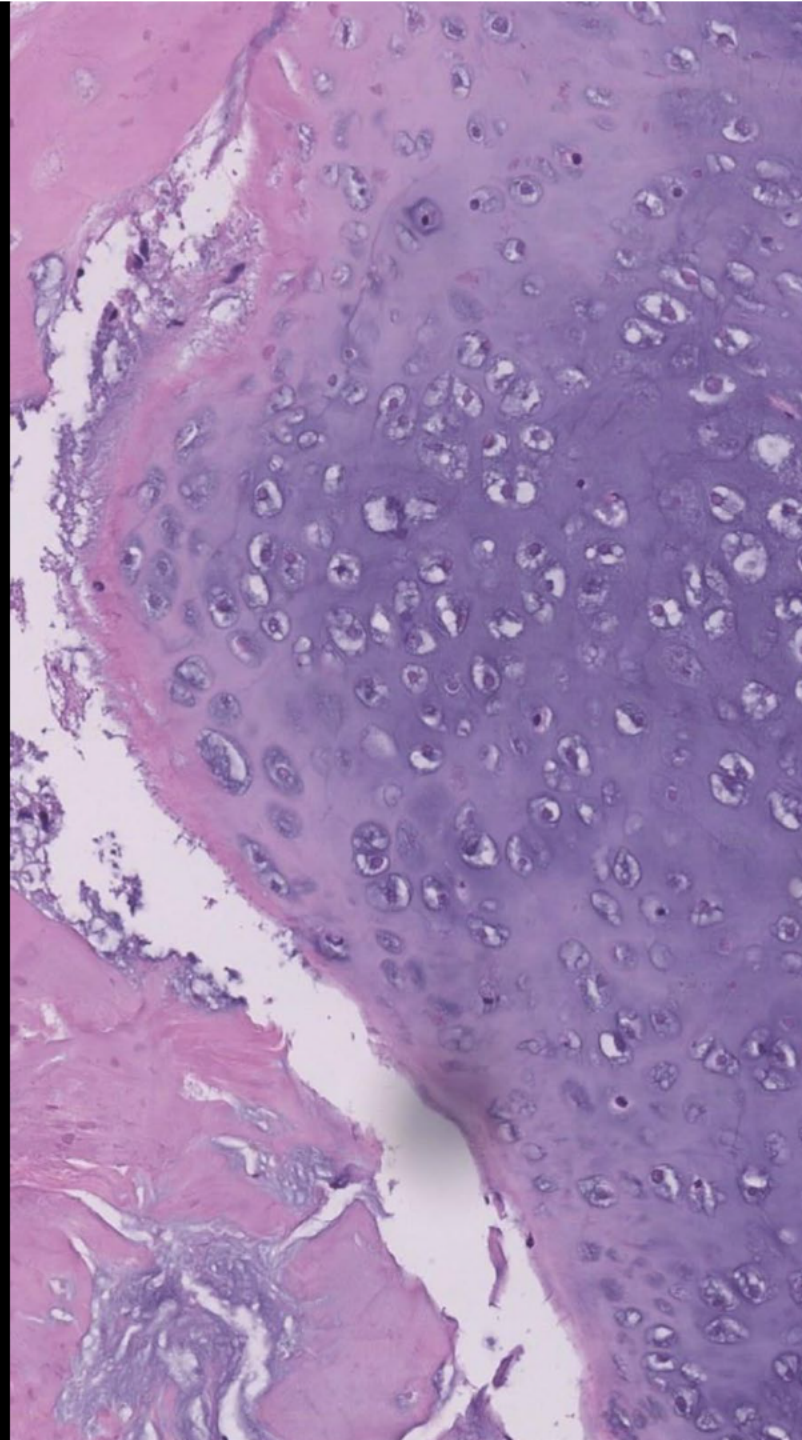




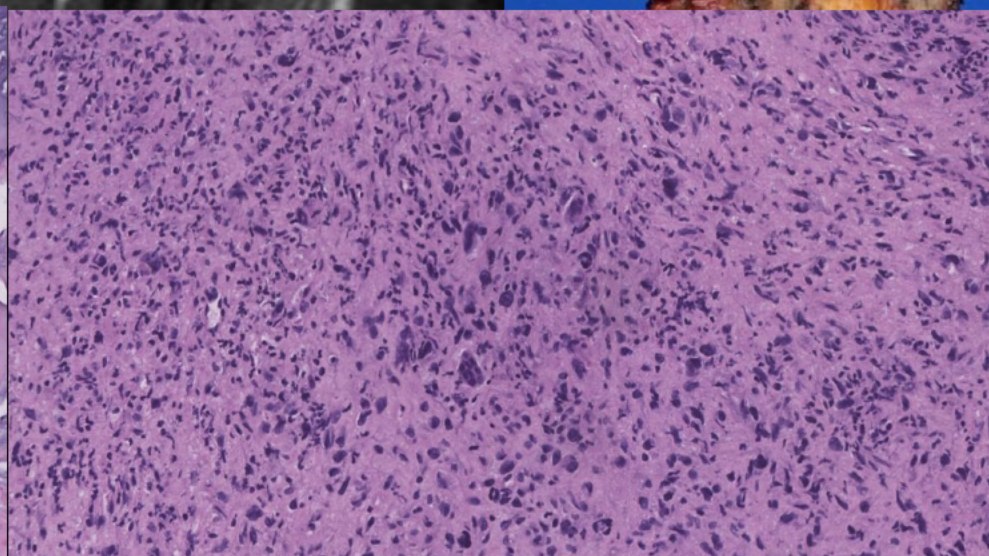
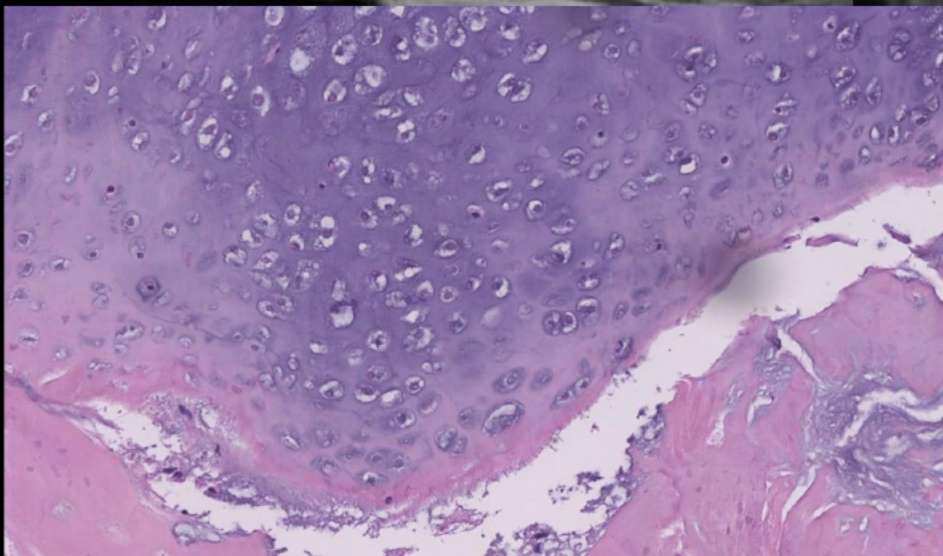
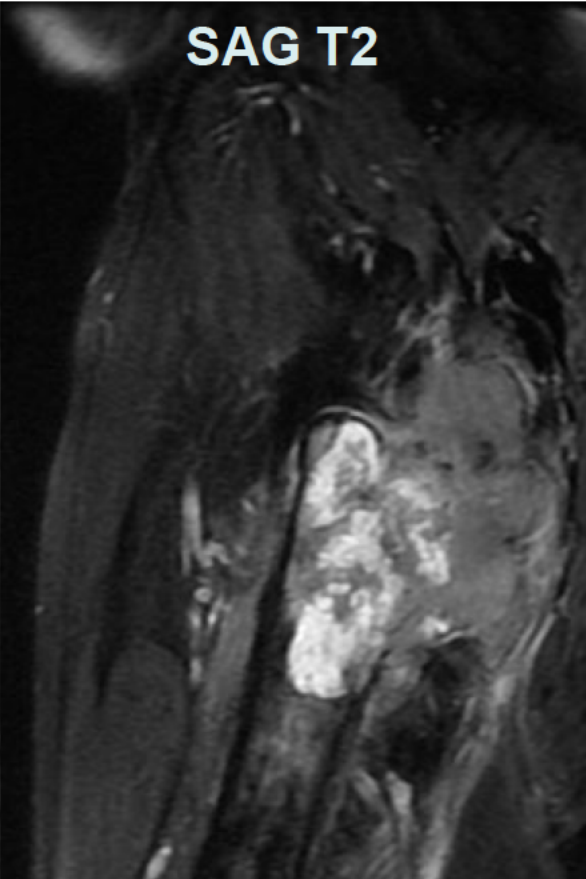
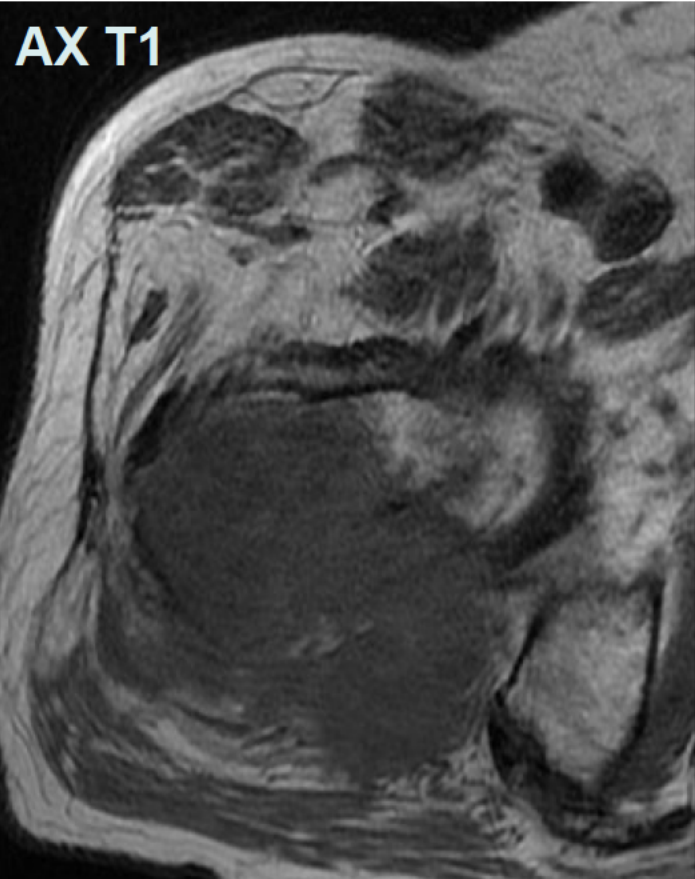












# **Dedifferentiated Chondrosarcoma**

**Dr. Dylan Noblett**  
**University of California, Davis**  
**Sacramento, California**



# Gastrointestinal Best Case

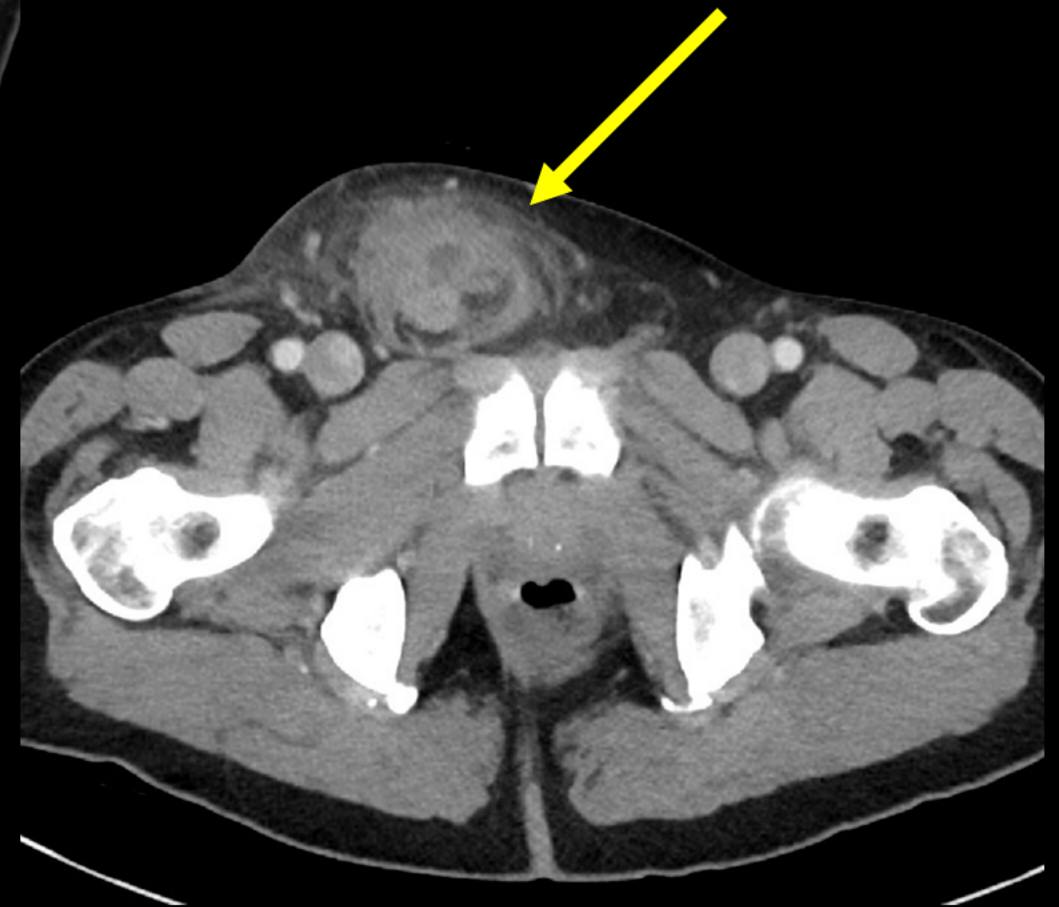


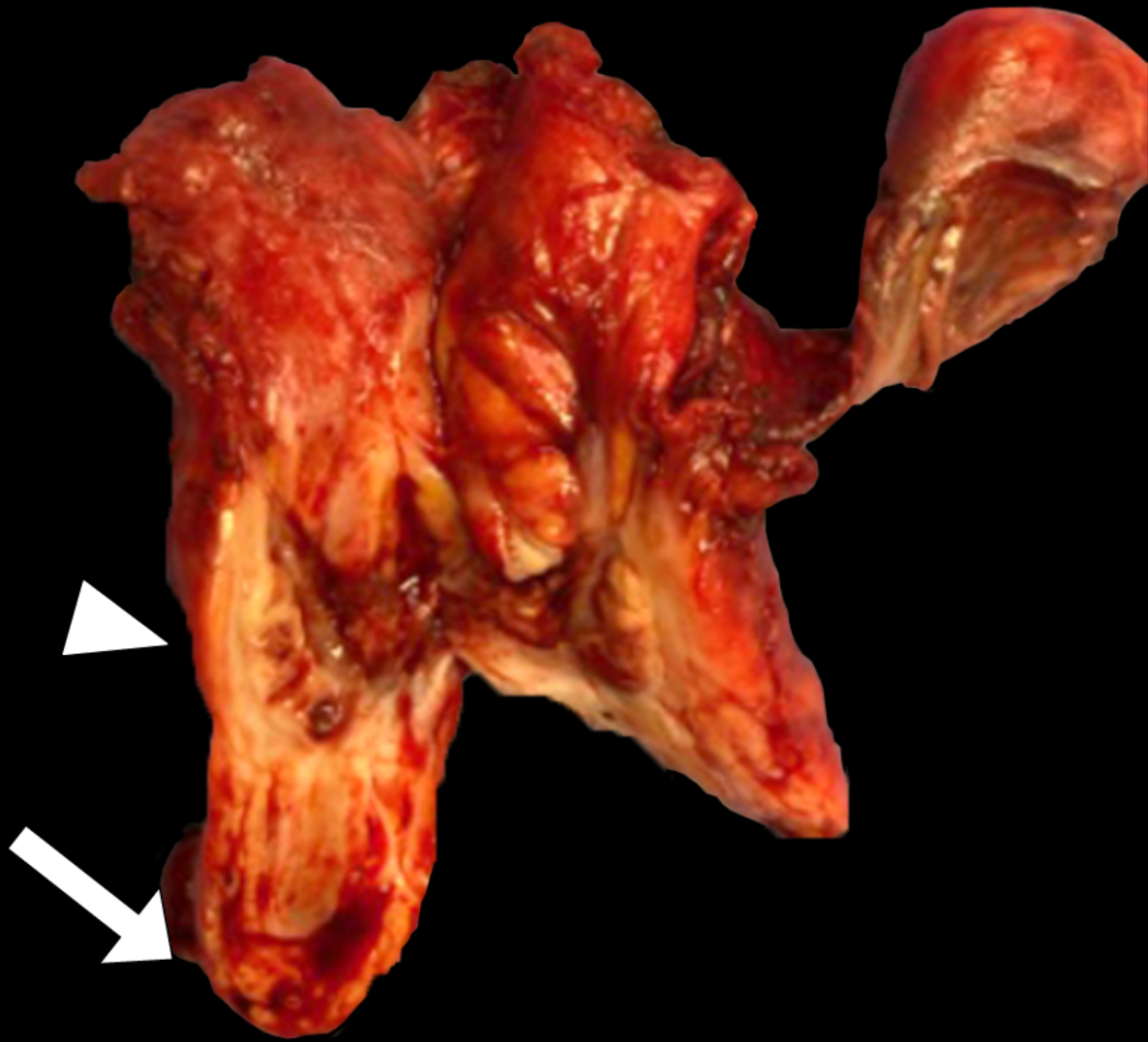
# Clinical information

**61-year-old male with severe pain in his right groin over the last 3 days.**

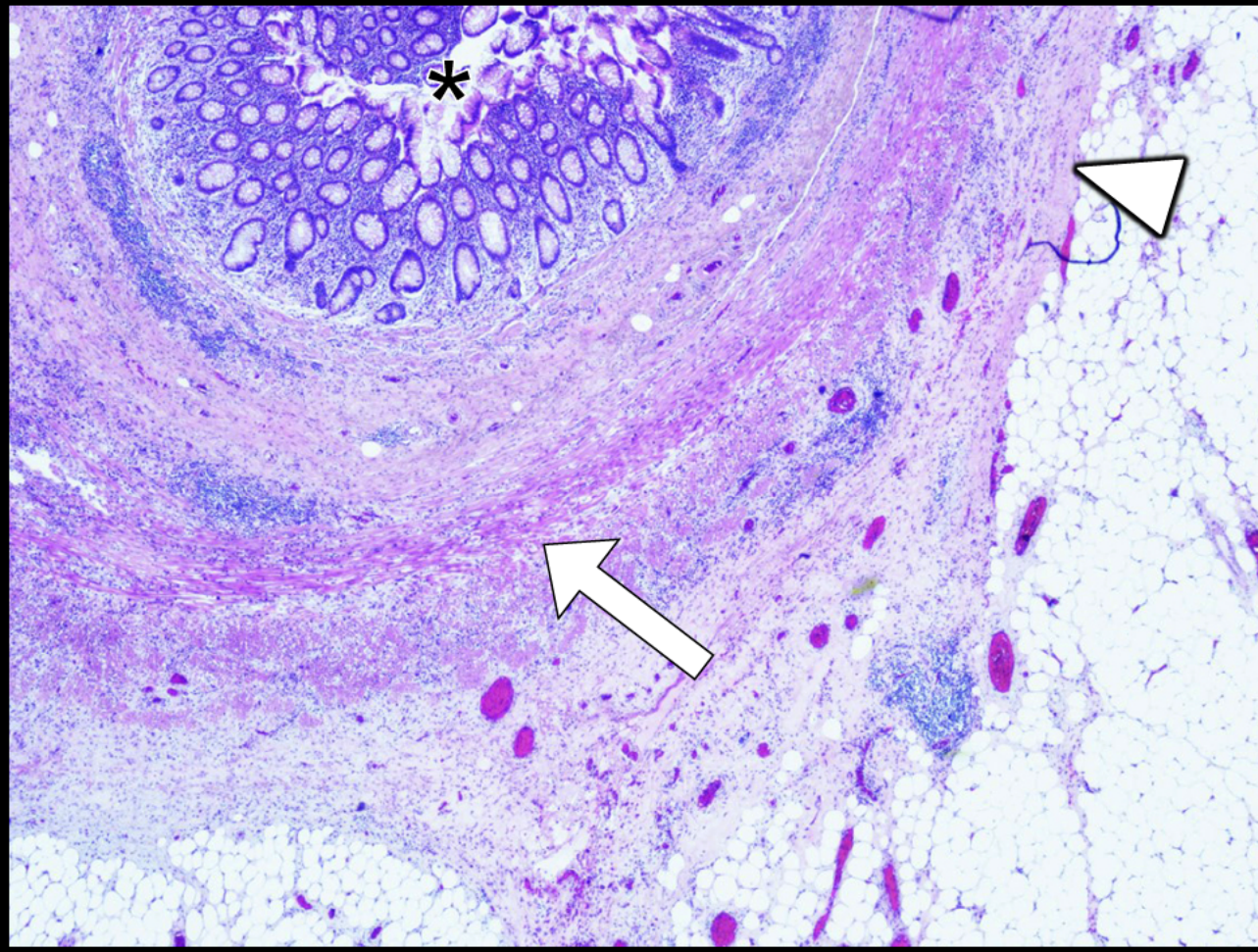
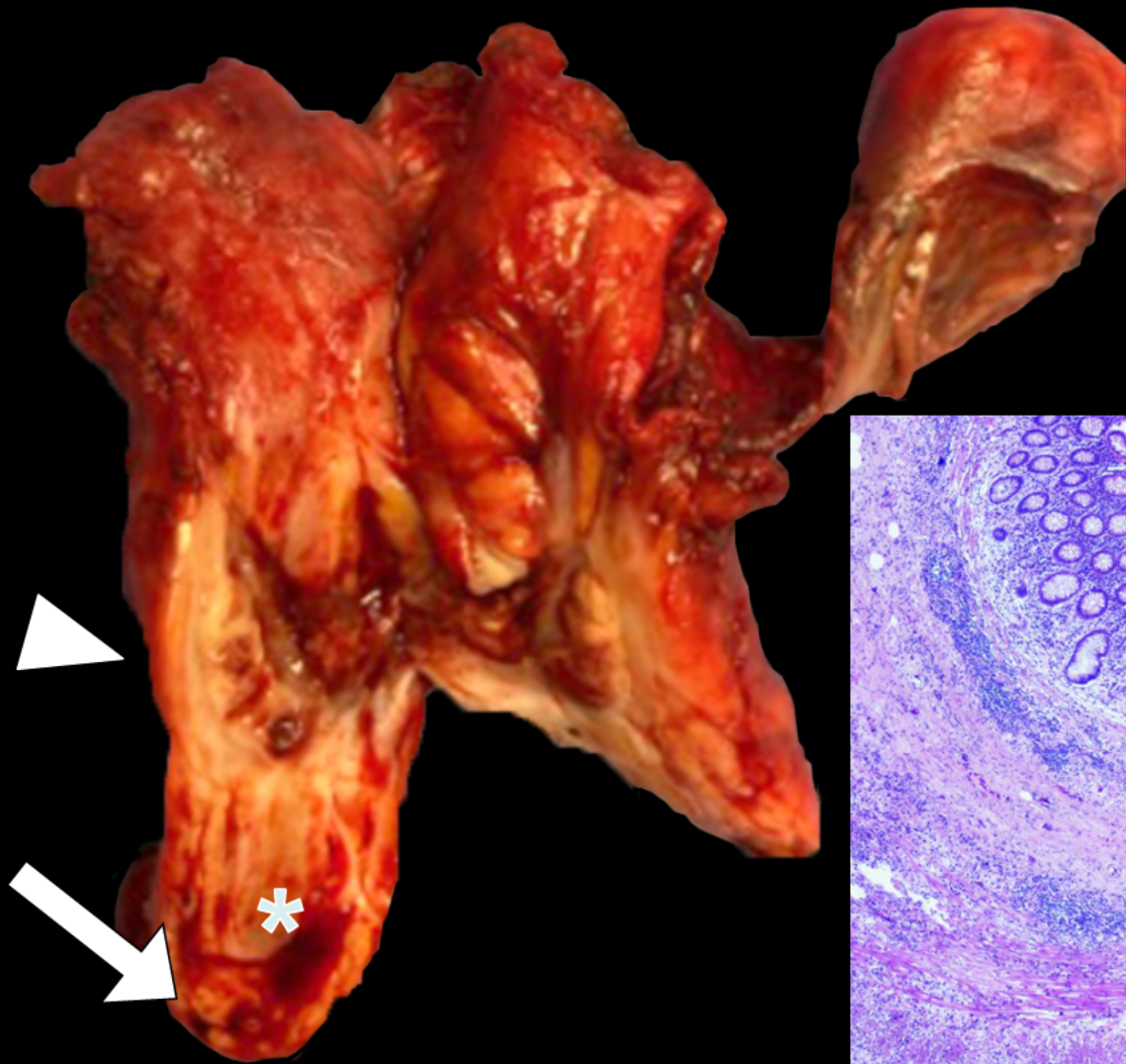




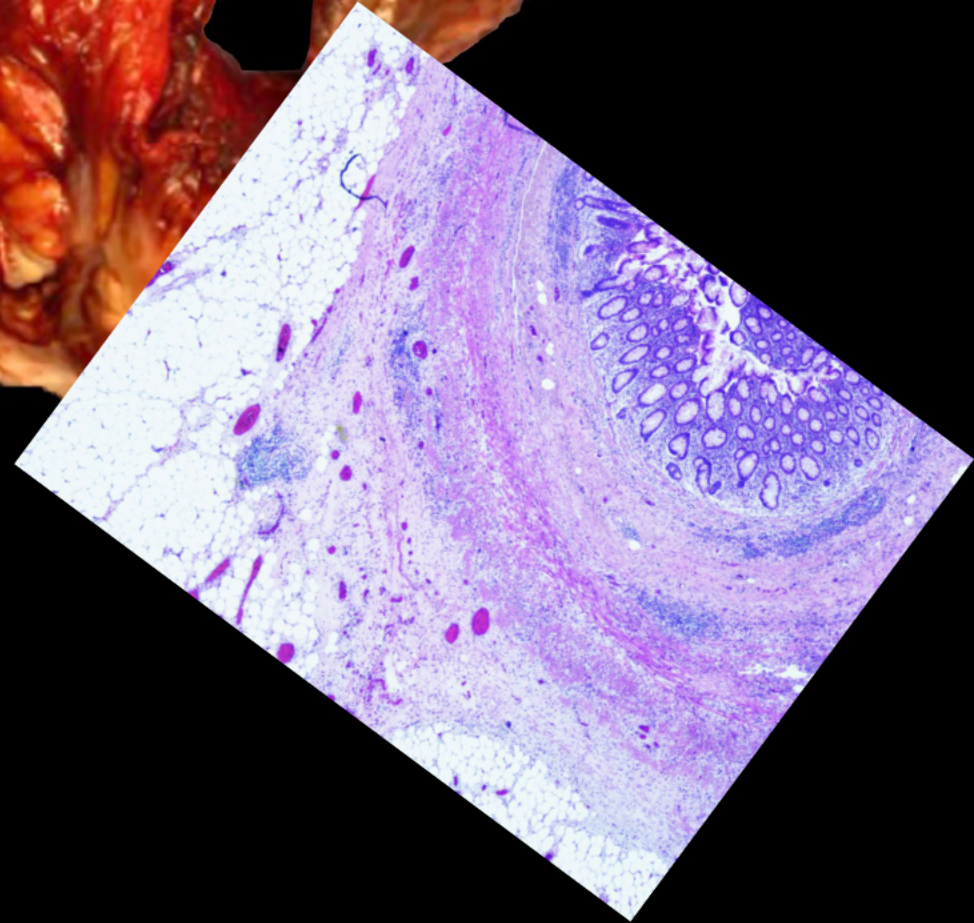
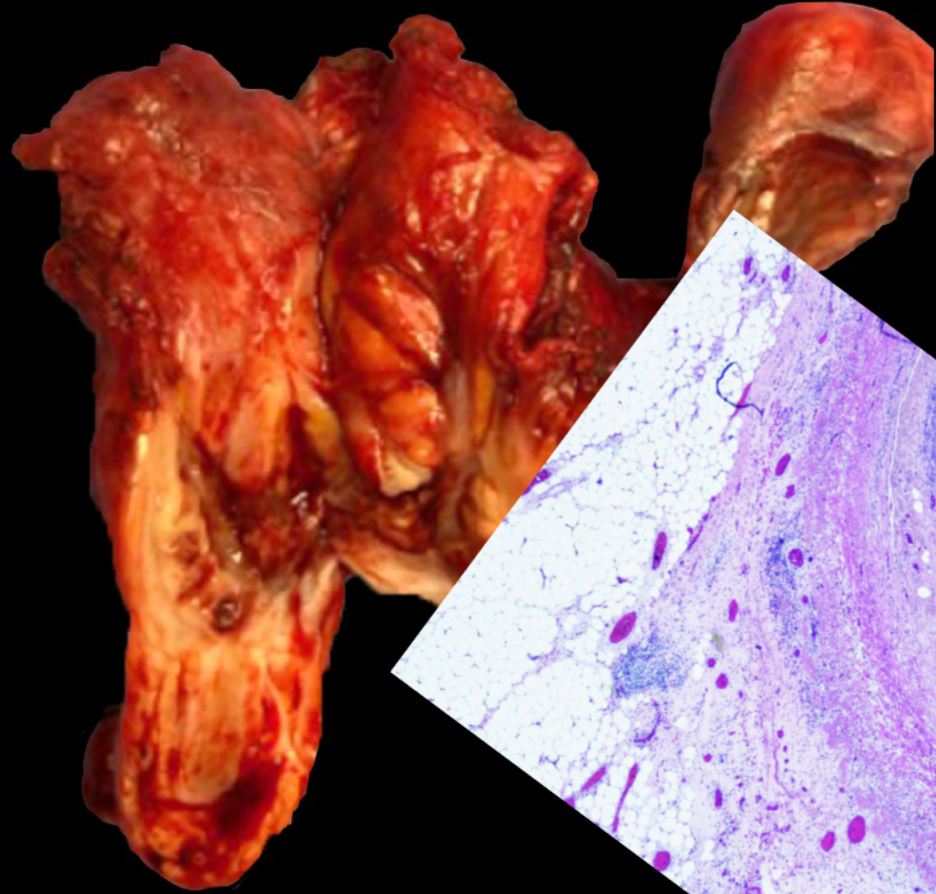
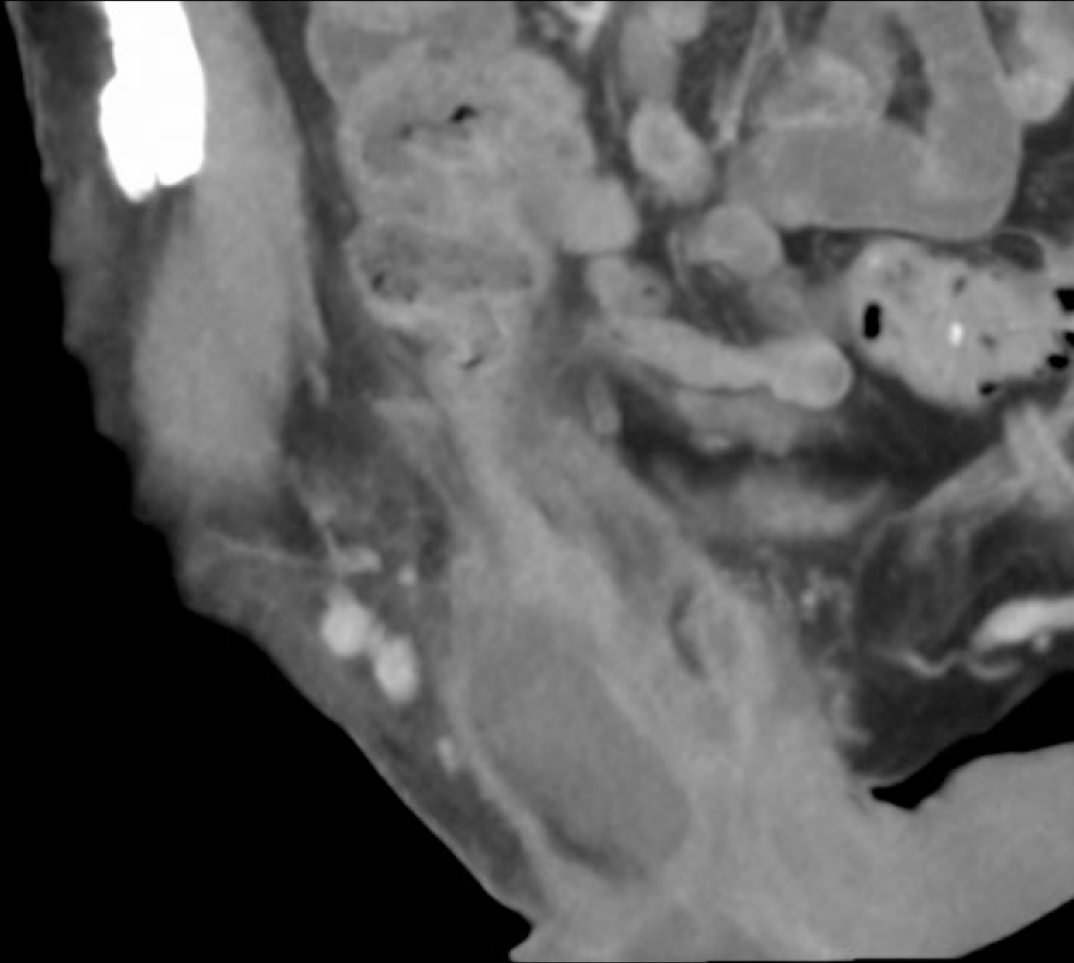












# **Perforated appendicitis in Amyand hernia**

**Dr. Alyssa Stauber**

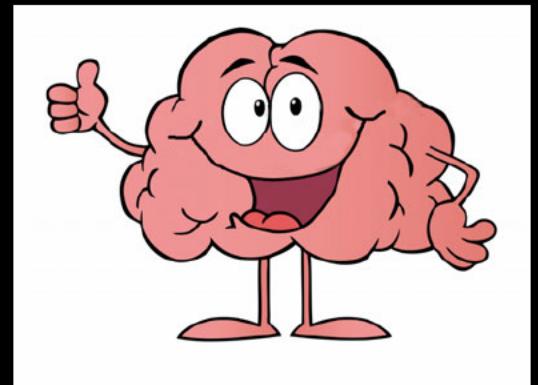
**Northwell Health/Lenox Hill Hospital**

**New York, NY**



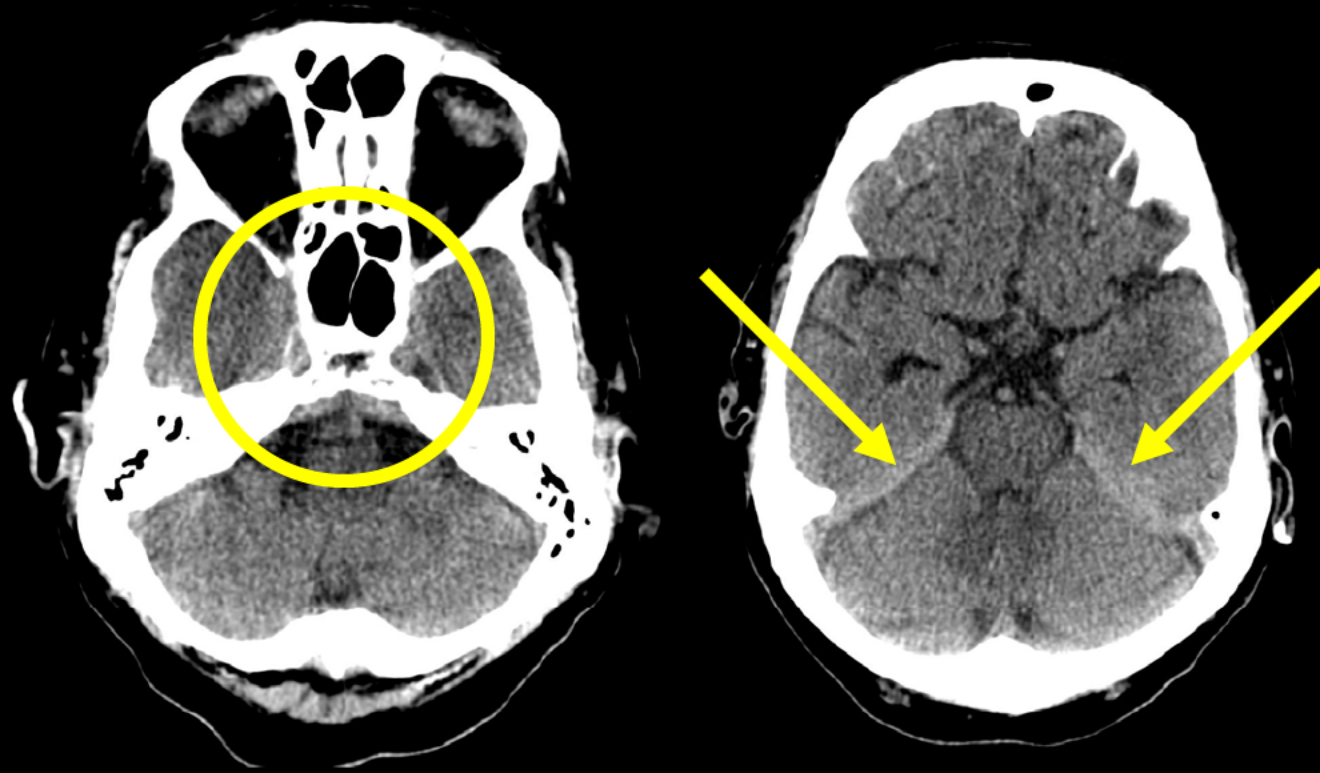
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RADIOLOGIC PATHOLOGY

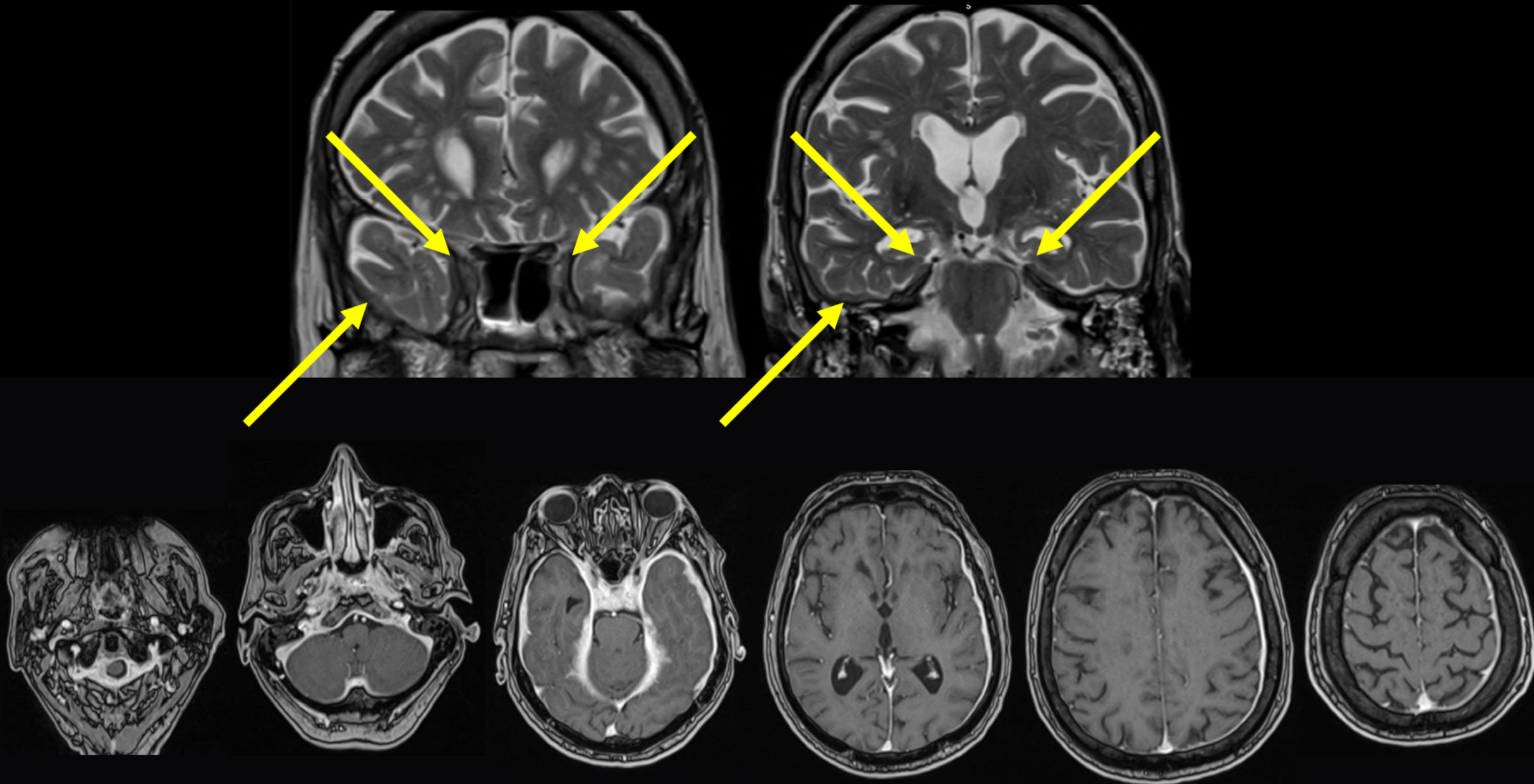
# Neuroradiology Best Case



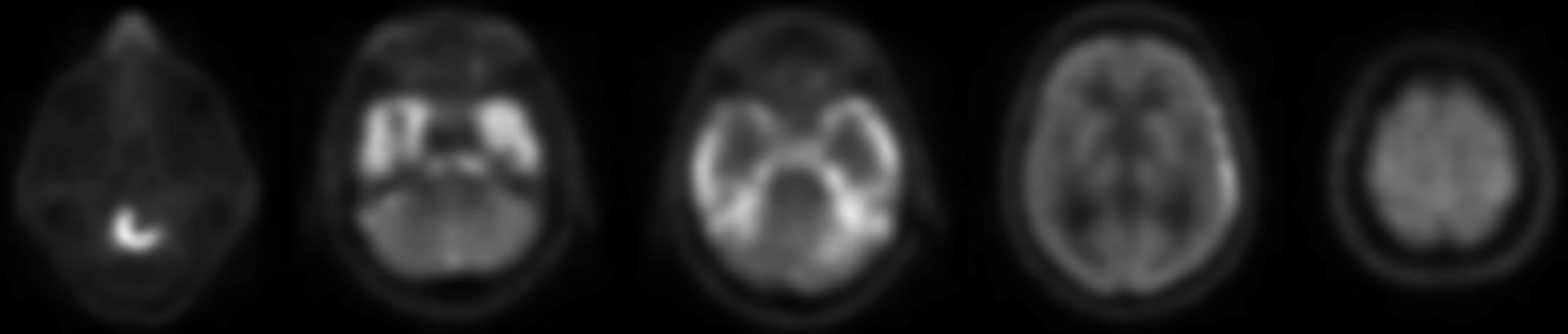


**85 y/o M with a sudden right anacusis and balance problems that had been evolving for several months**



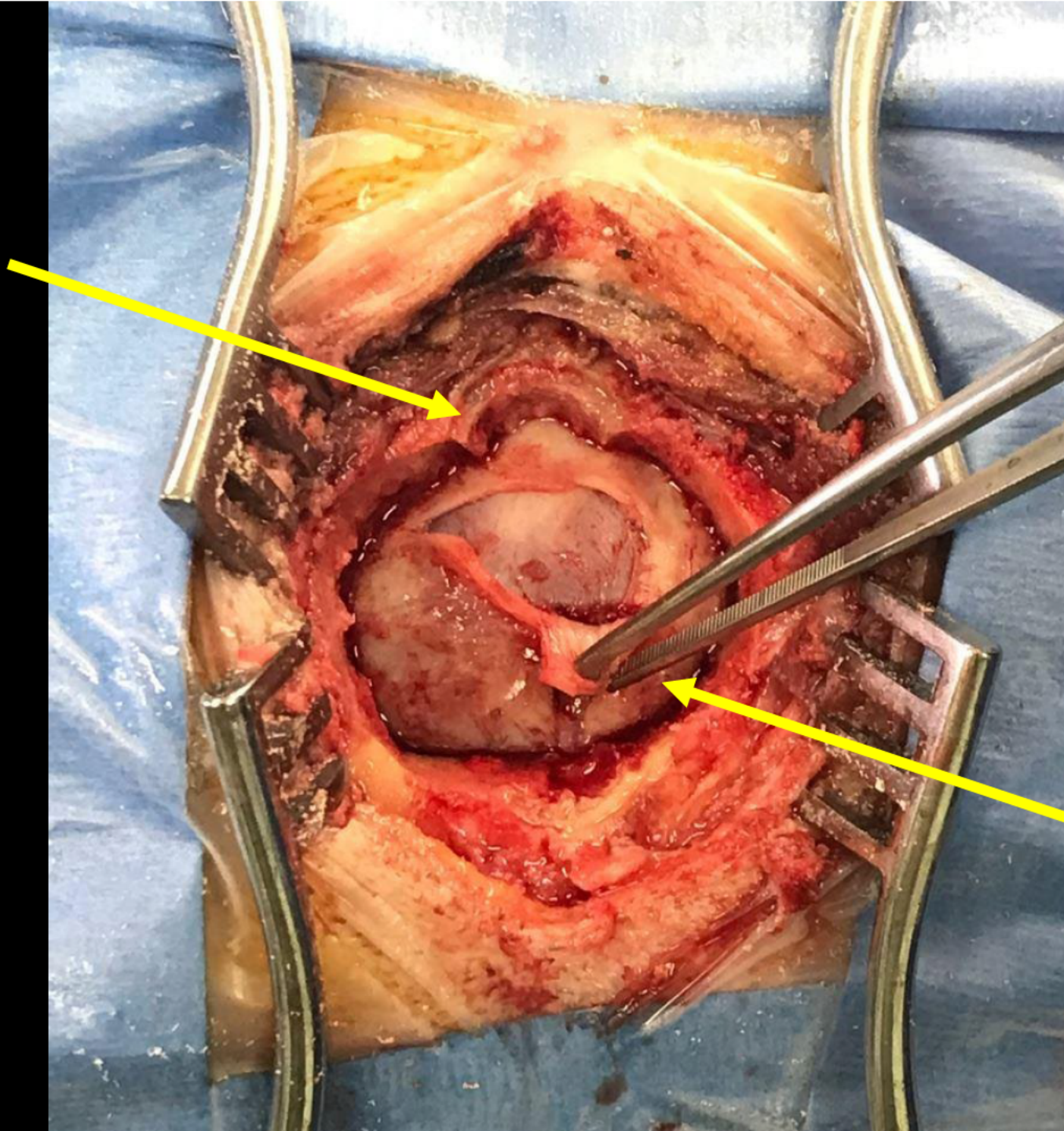


**abnormal dural thickening → T2 hypointense and enhancing → ? inflammatory or neoplastic**





temporal bone

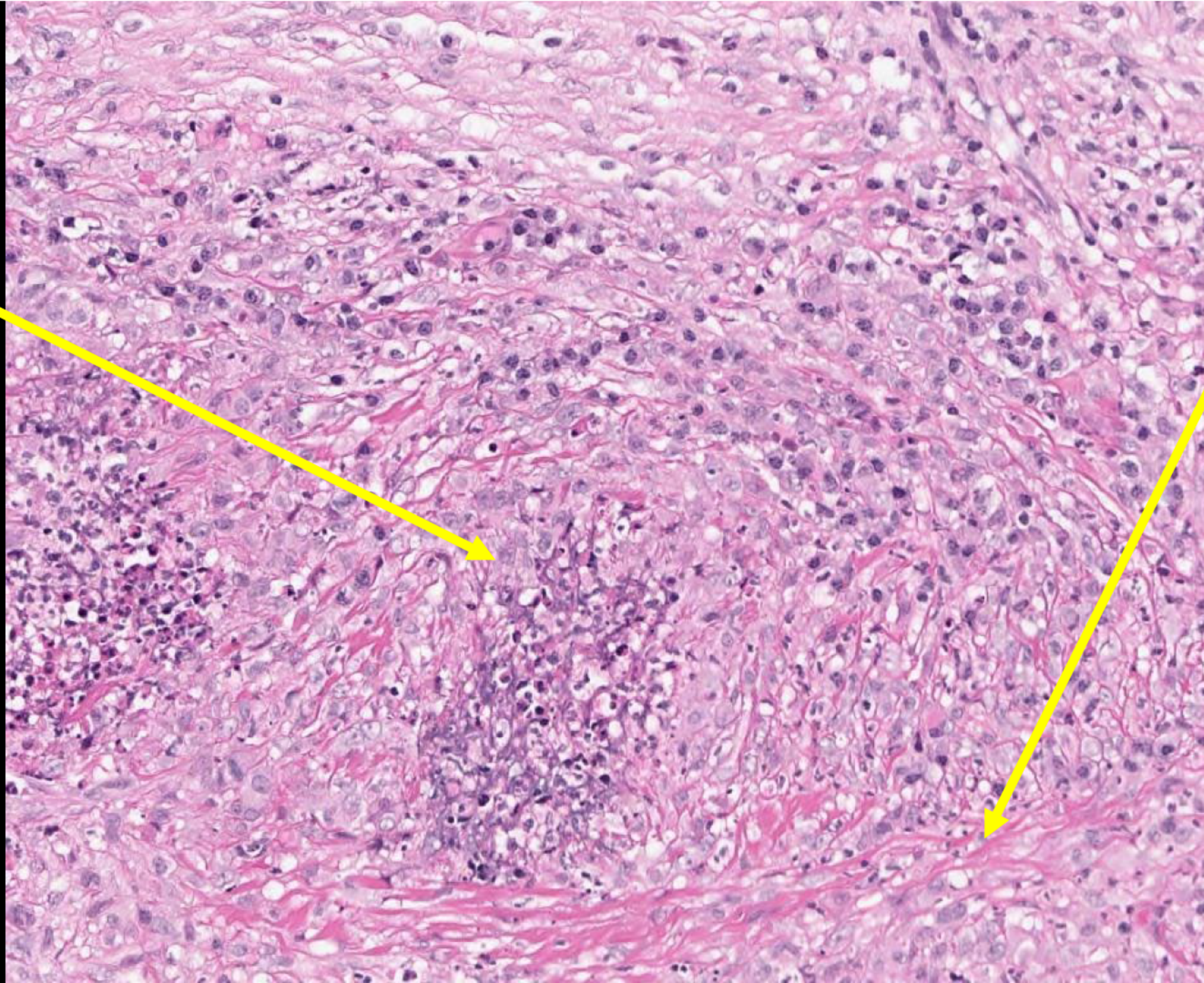


temporal dura



**lympho-  
plasmacytic  
infiltrate**

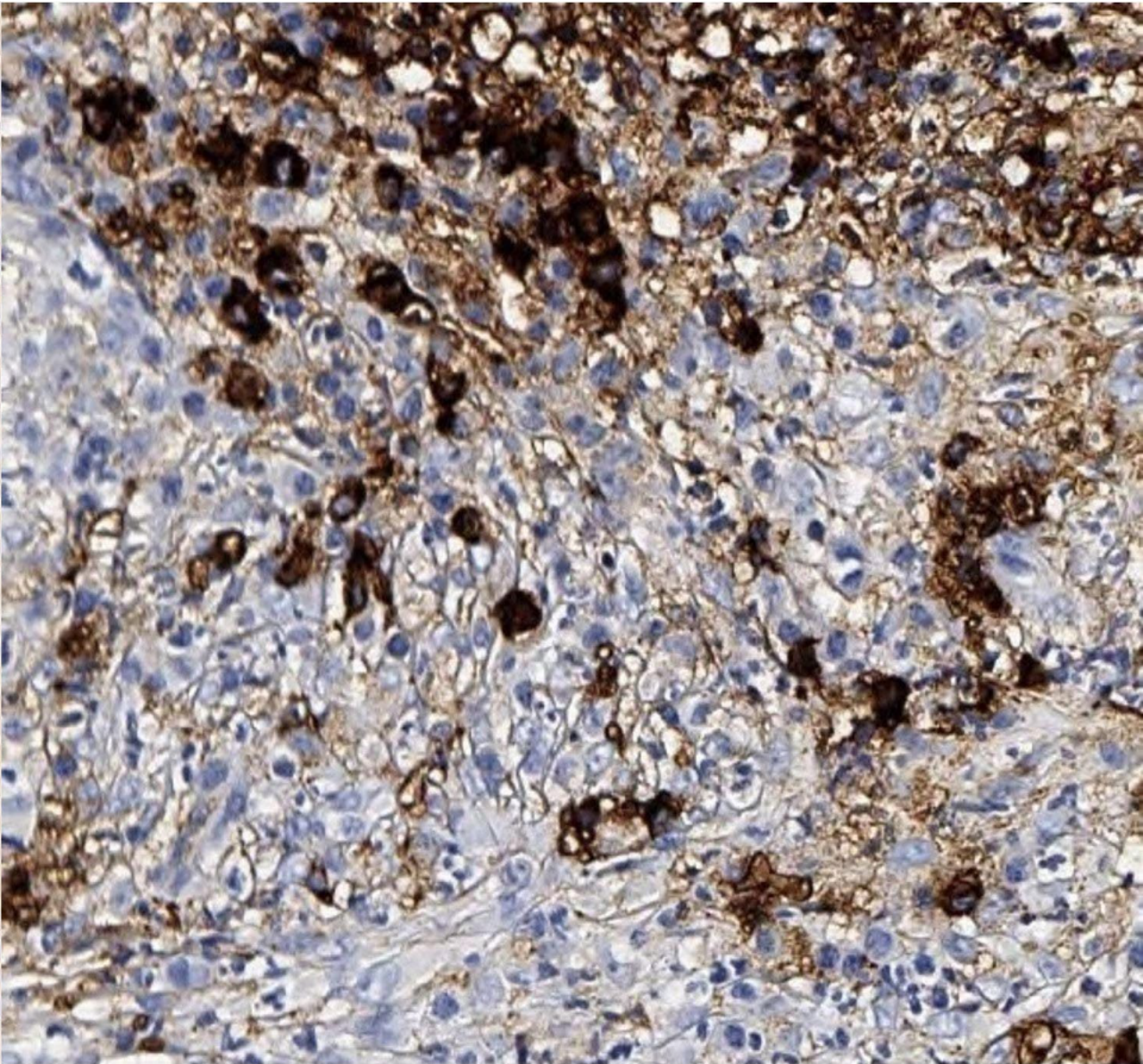
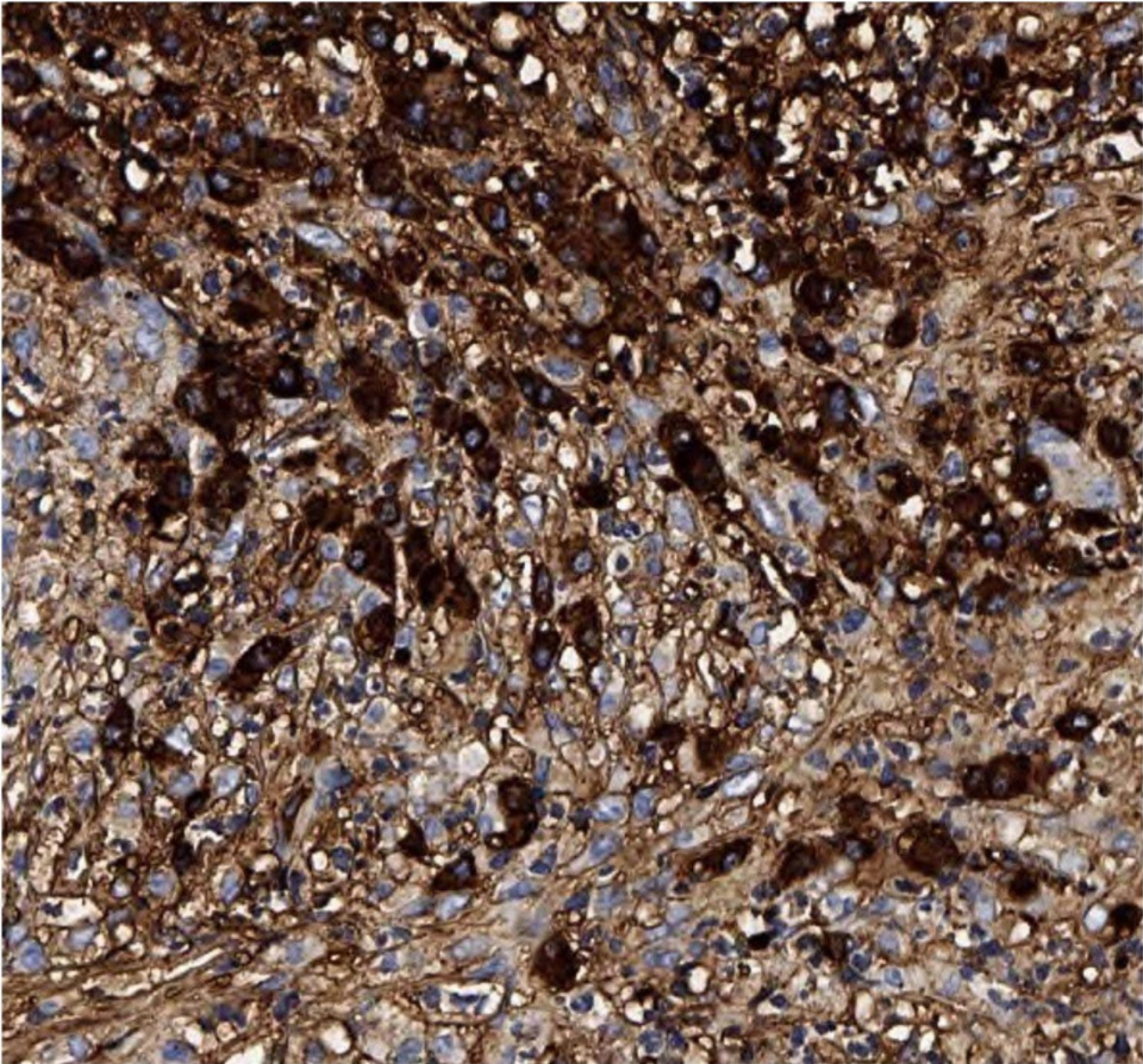
**collagen &  
fibrosis**



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## Microscopic Description

The section shows 3 fragments of dura mater with a diffuse, pleomorphic inflammatory infiltrate composed mainly of plasma cells, lymphocytes and monocytes. Focal areas of necrosis with polymorphs and nuclear debris are present. The vessels appear normal. CD 163 is positive in many cells (histiocytes), CD 138 confirms the presence of many plasma cells that appear clustered, CD 20 is positive in only a few cells, CD3 confirms the presence of many small lymphocytes, CD 1A is negative. CD 34 identifies all small vessels that appear normal. There are no real granulomas. About 50% of the IgG positive cells are positive for IgG4. There is no restriction for Kappa and Lambda light chains (ISH), but a predominance for Kappa is noted. FITE is negative.

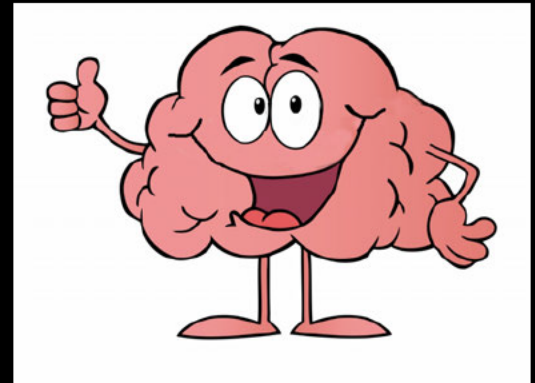


# IgG4-related disease (IgG4-RD)

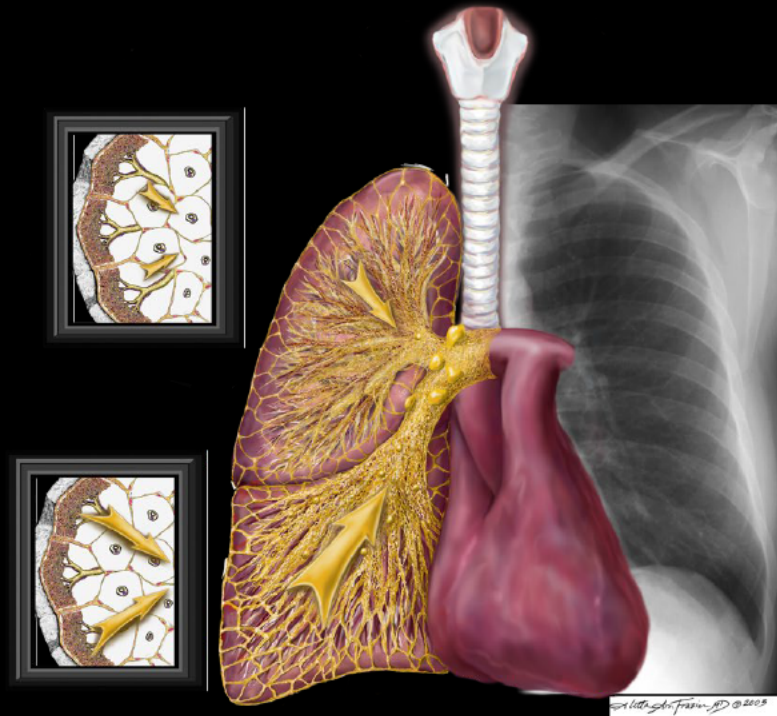
Dr. Marie Duquet-Armand

Hôpital du Sacré-Cœur de Montréal

Montréal, Canada



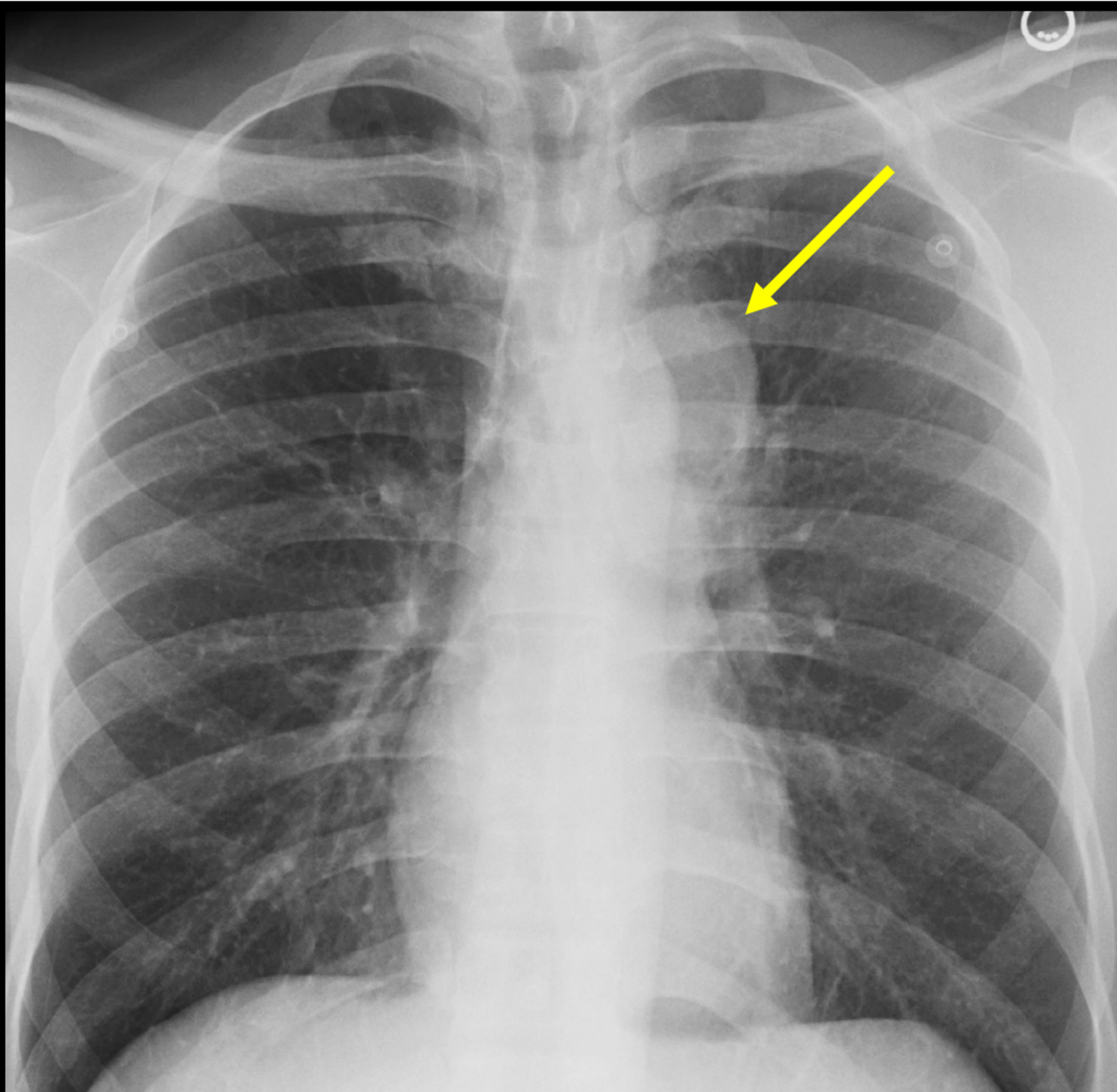
# Pulmonary and Mediastinal Best Case

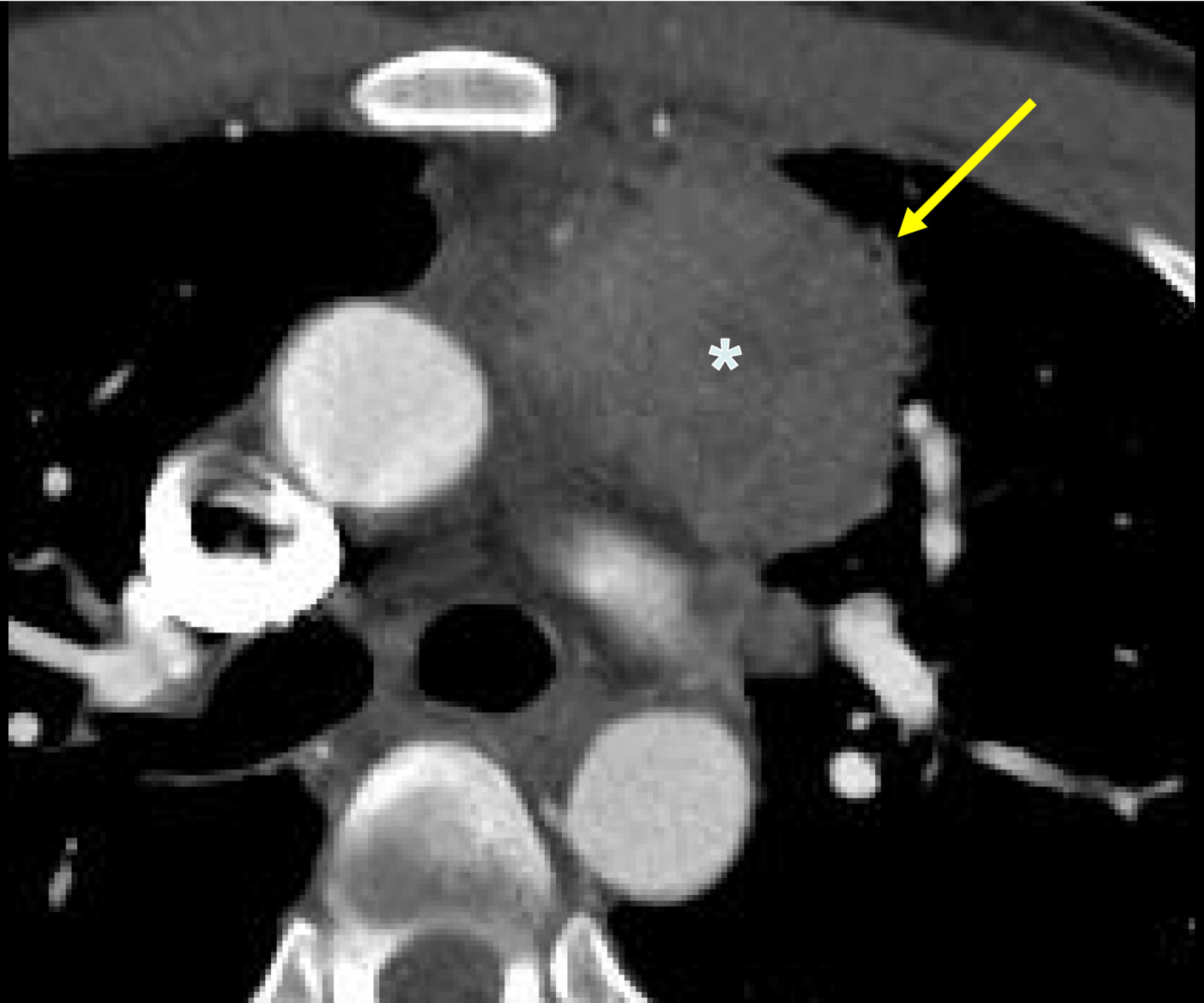




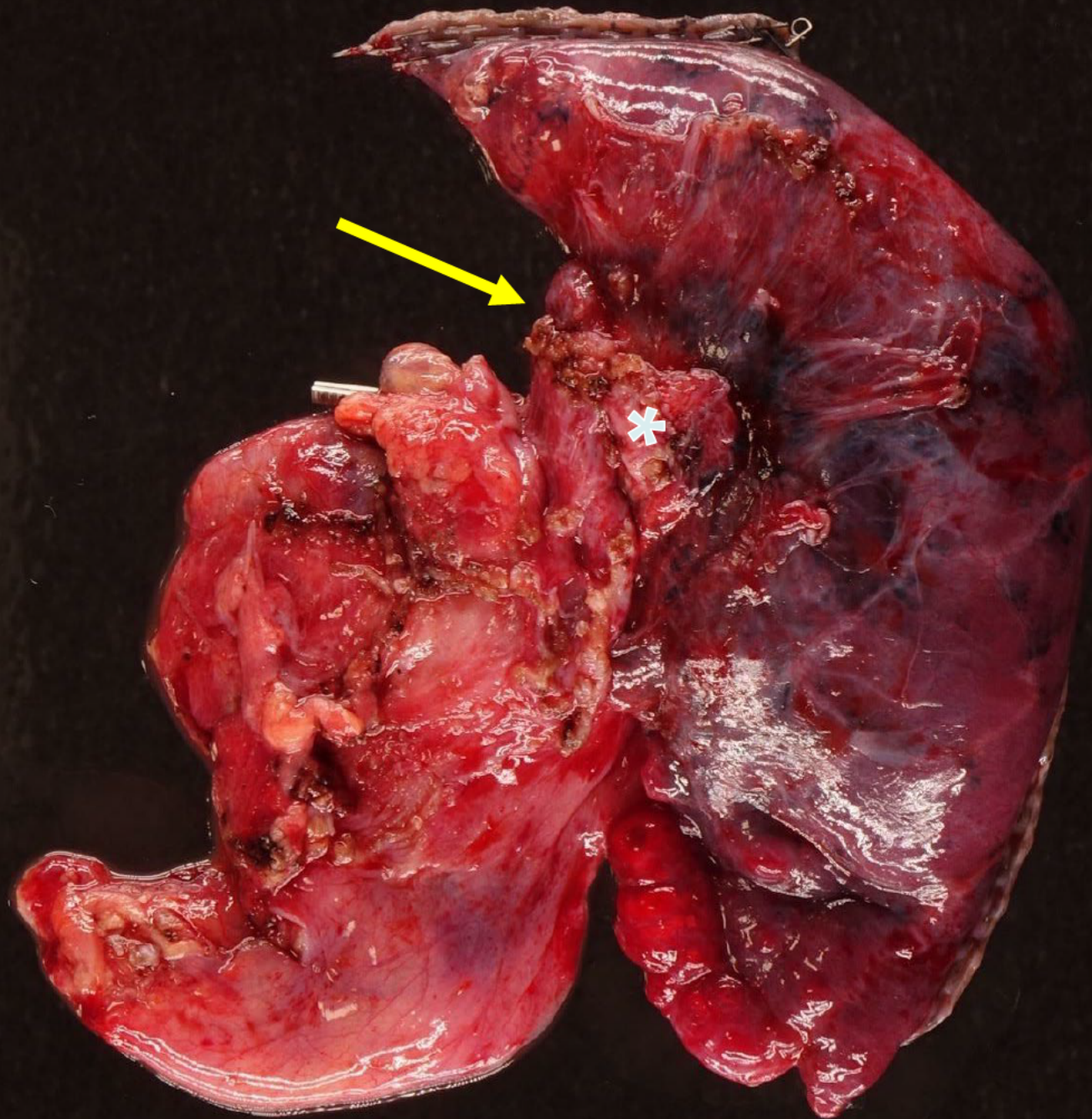
# Clinical information

**51-year-old man with chest pain and shortness of breath.**





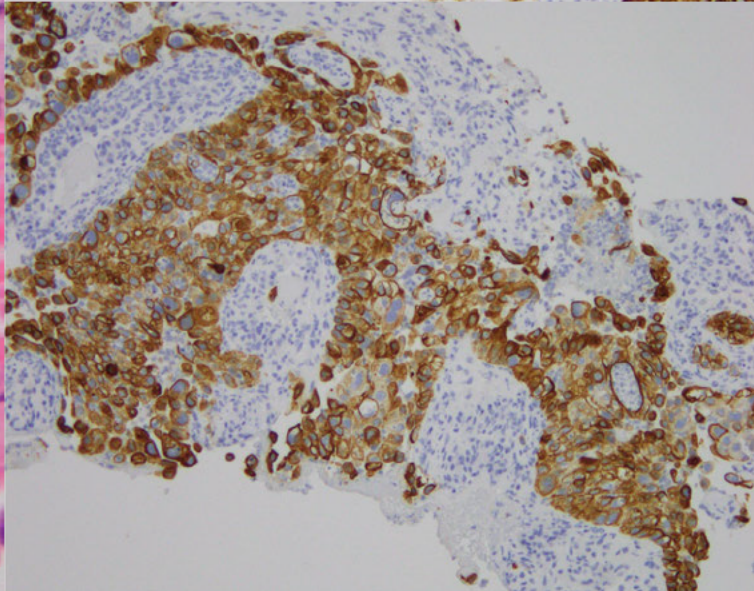
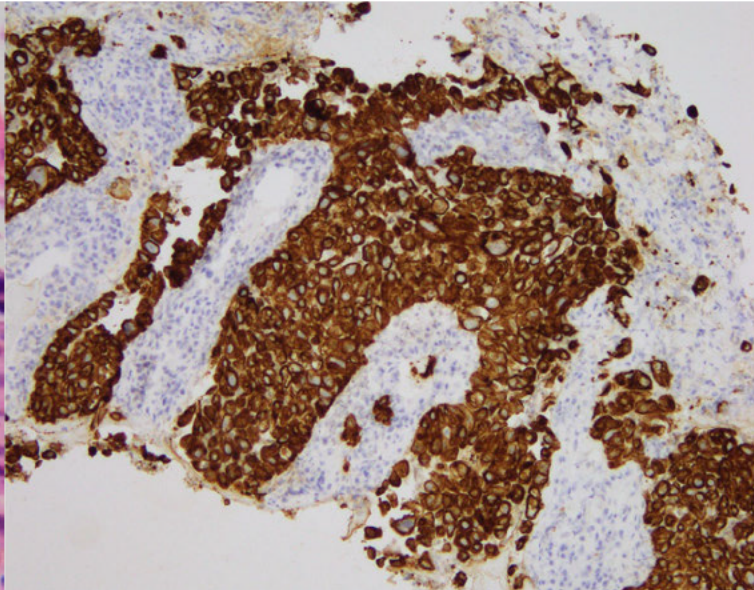
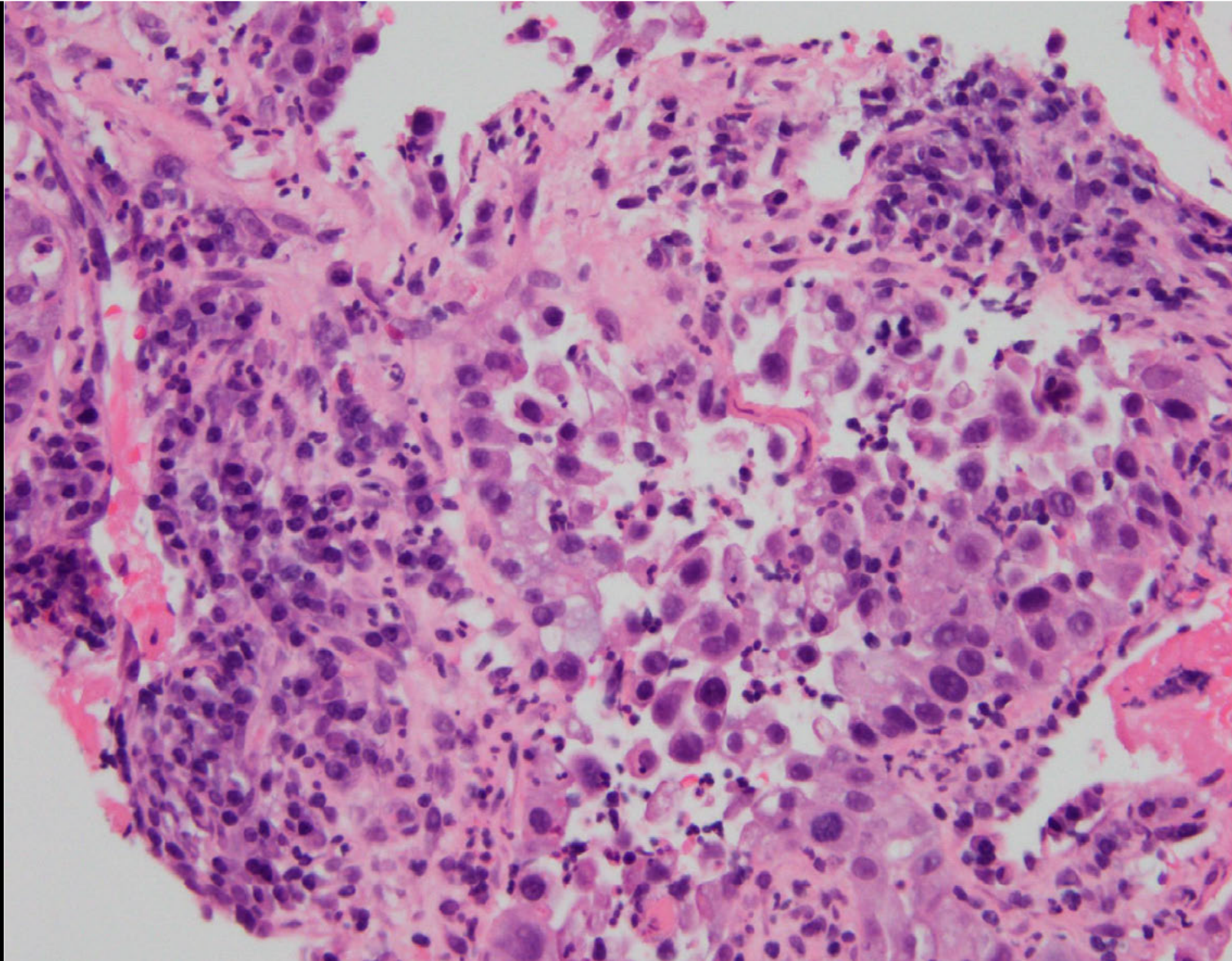




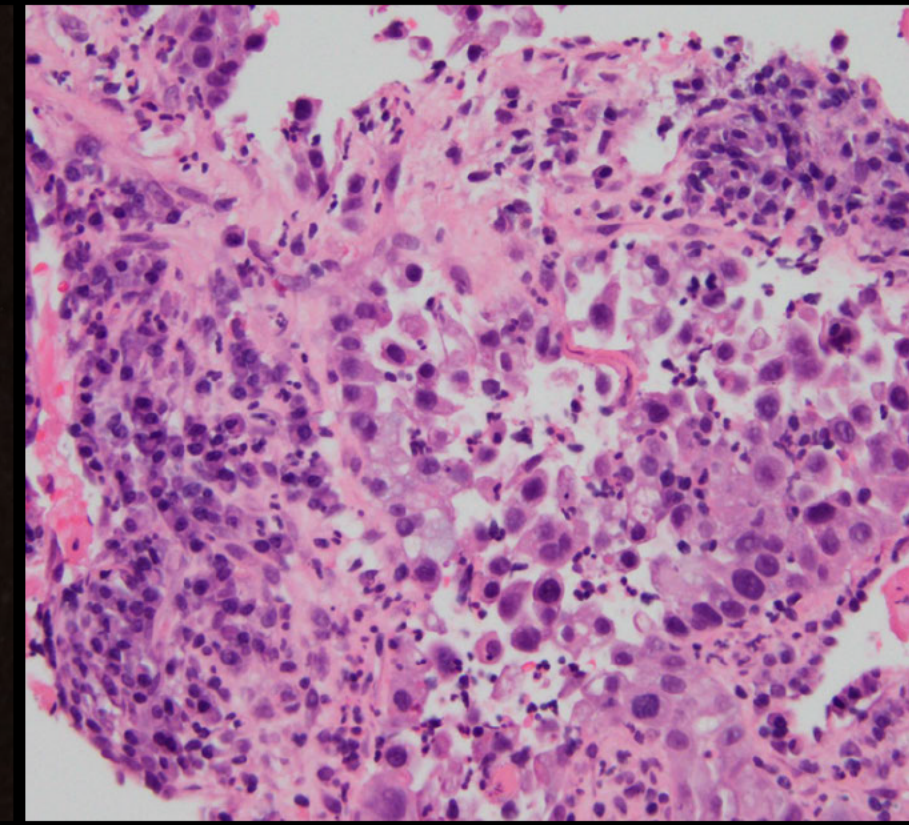
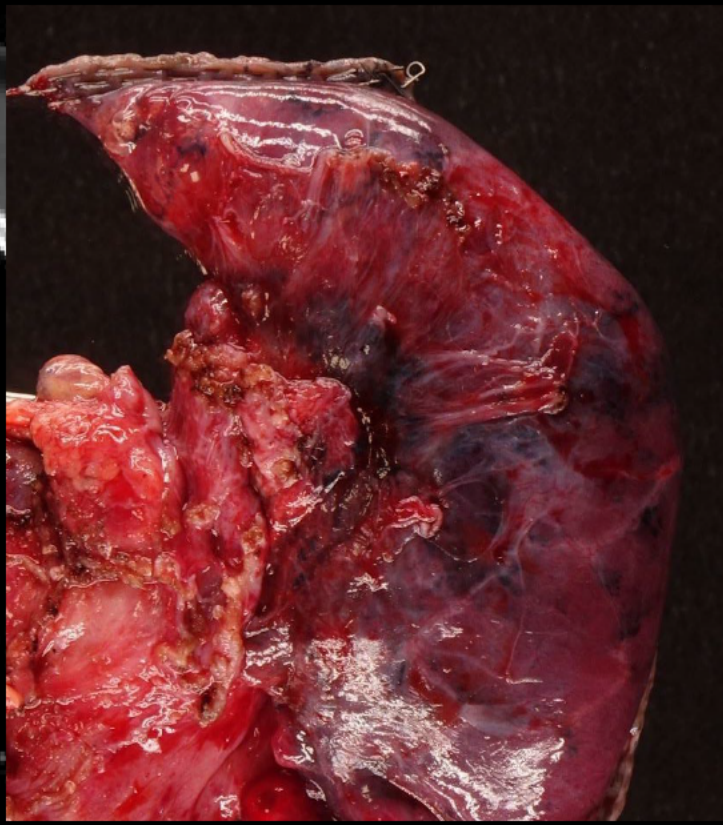
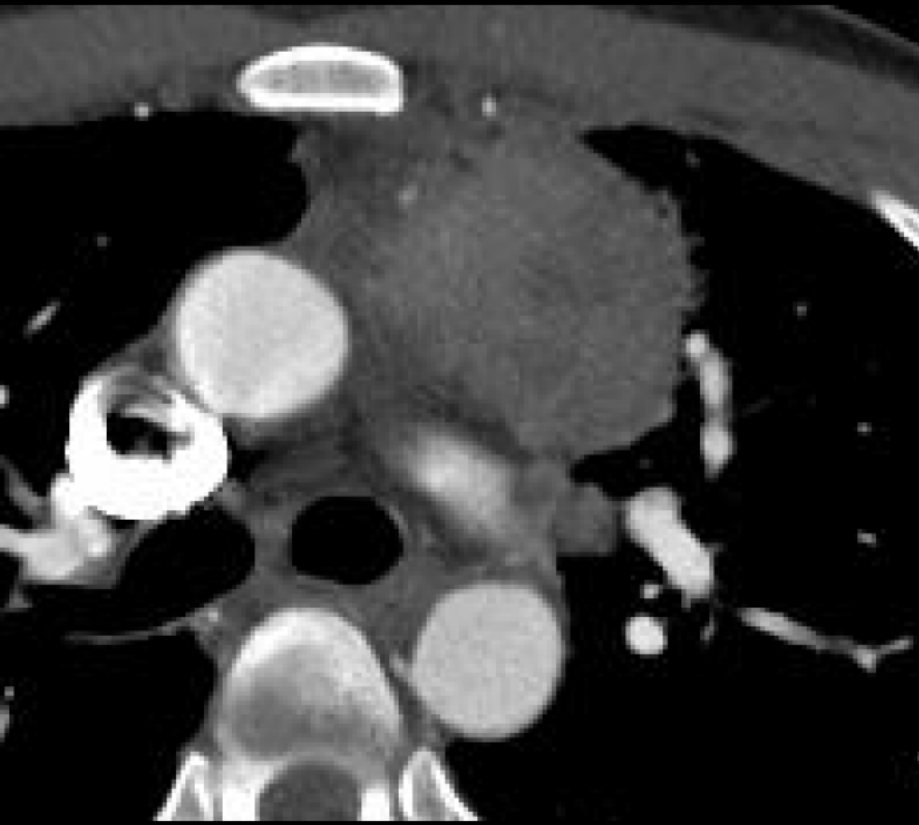














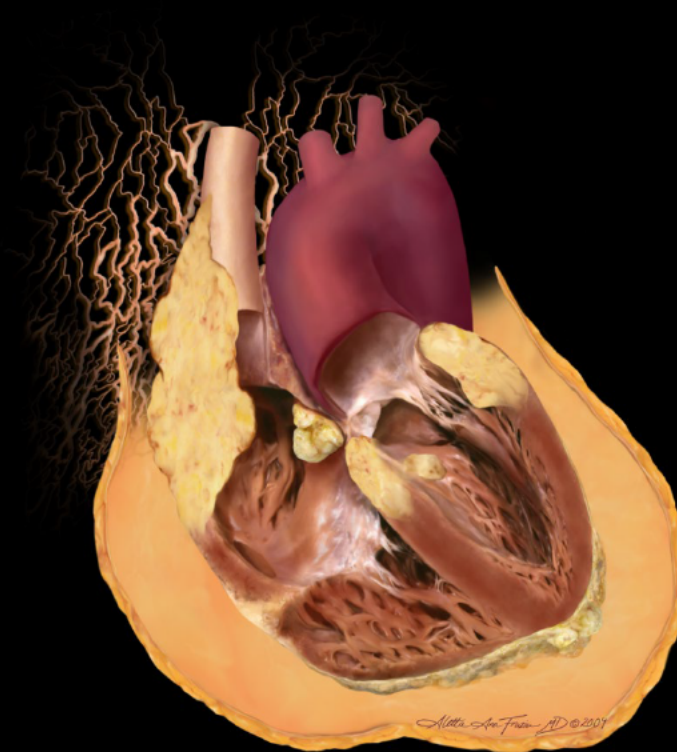
# Thymic Carcinoma

**Dr. Kyuwon Lee**

**Beth Israel Deaconess Medical Center**

**Boston, MA**

# Cardiovascular Best Case





# Clinical information

**26 year old man with acute bilateral leg pain and motor-sensory loss.**



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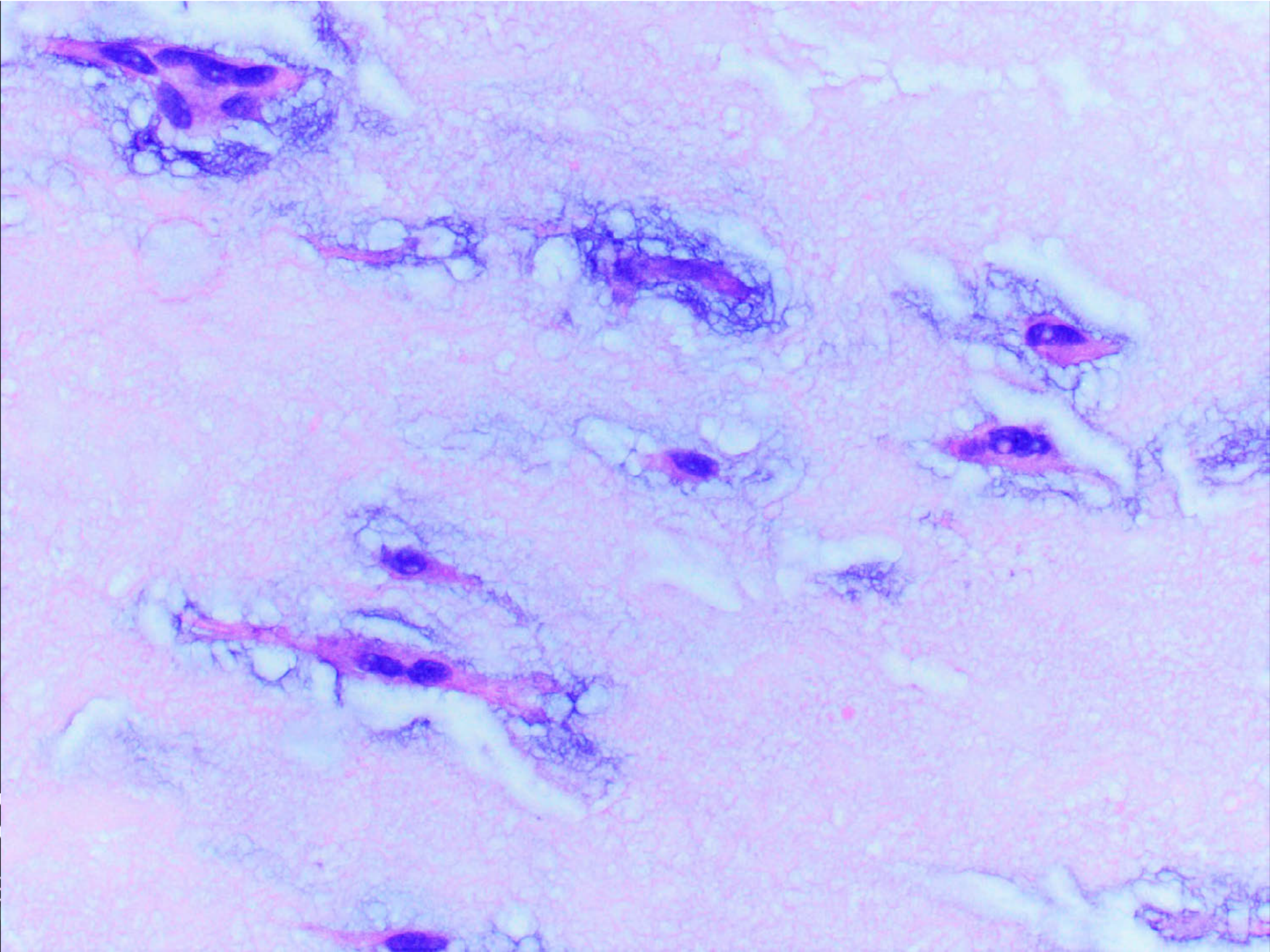








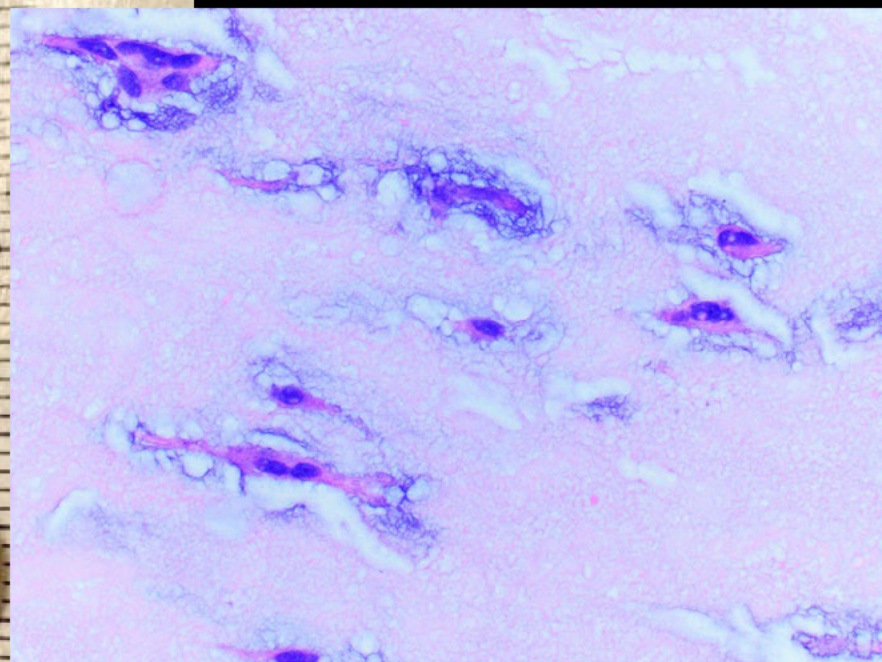
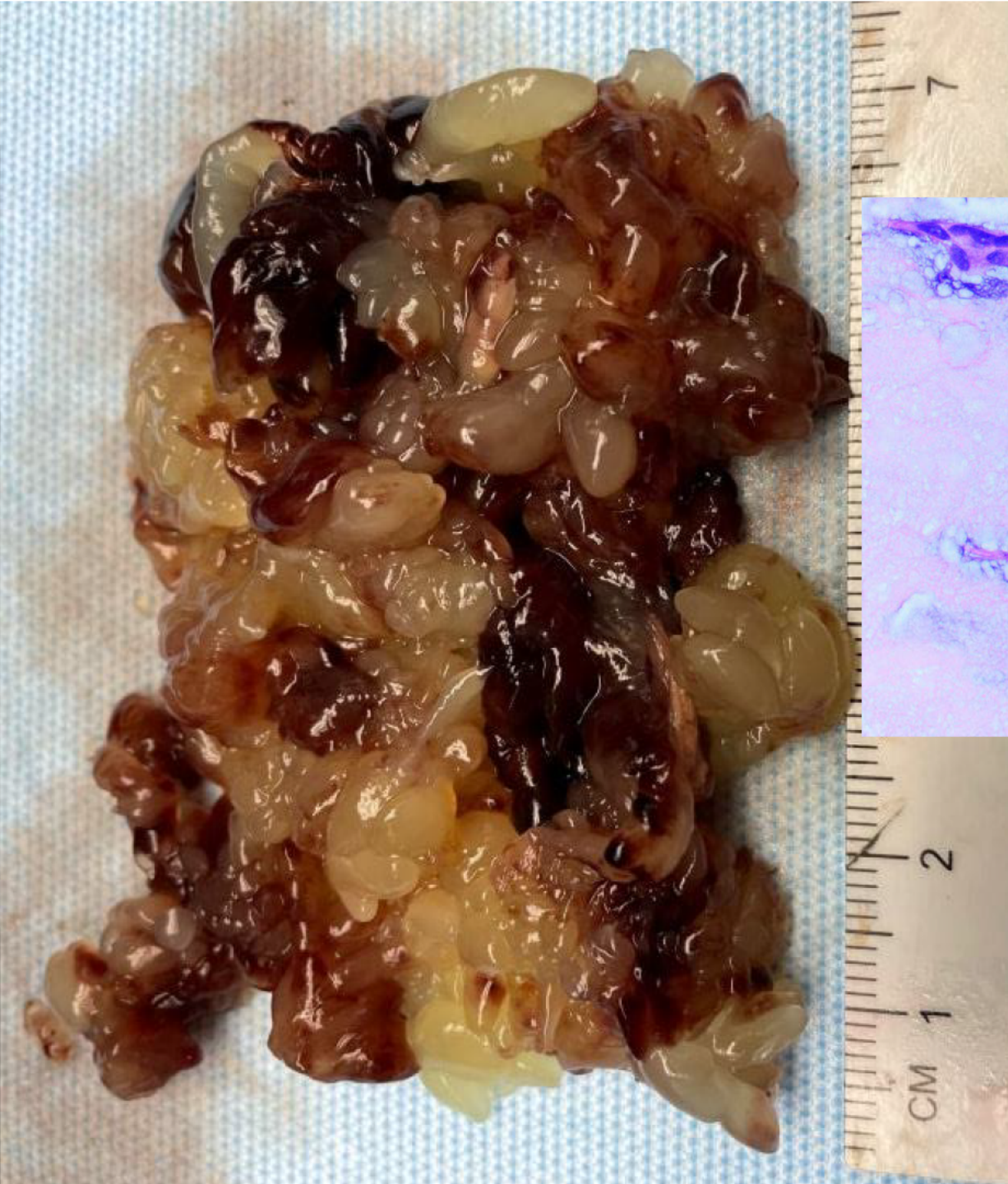
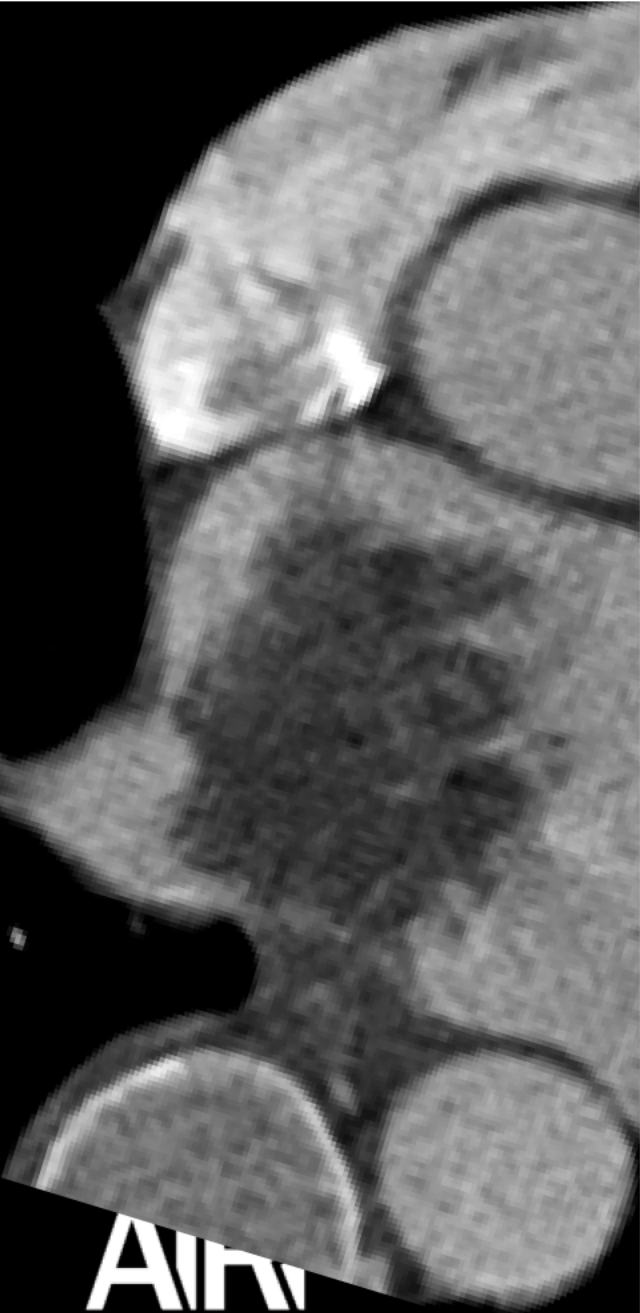




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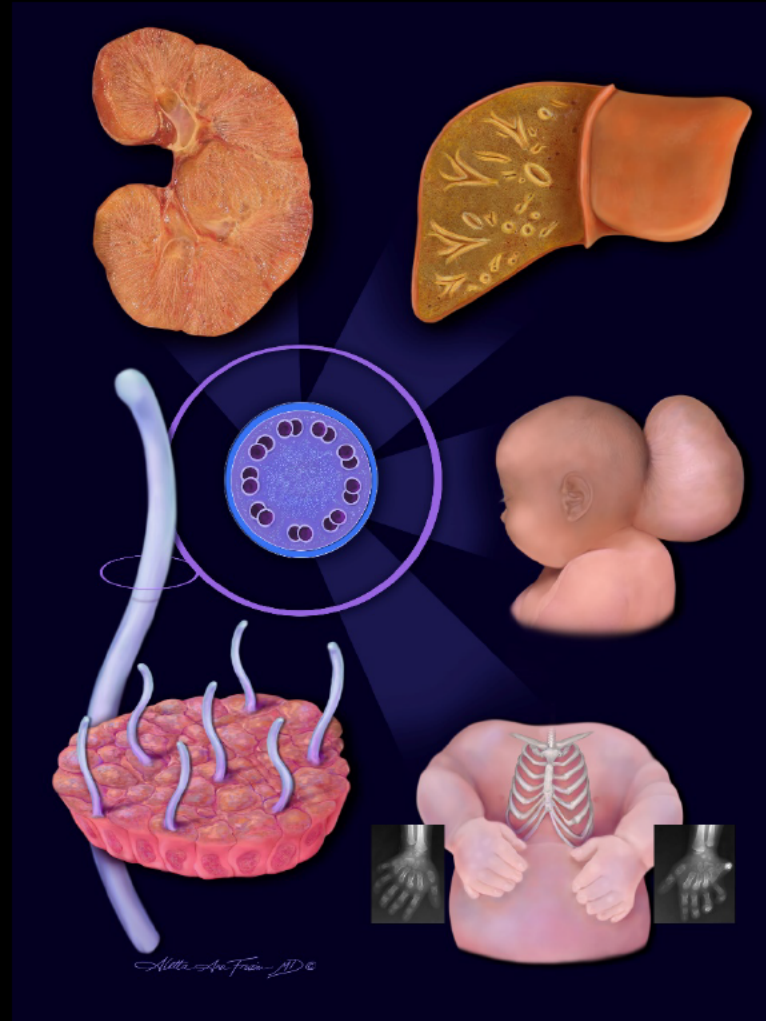


# Cardiac Myxoma

**Dr. Roberto Monge**

**The University of Texas Health Science Center at San Antonio  
San Antonio, Texas**

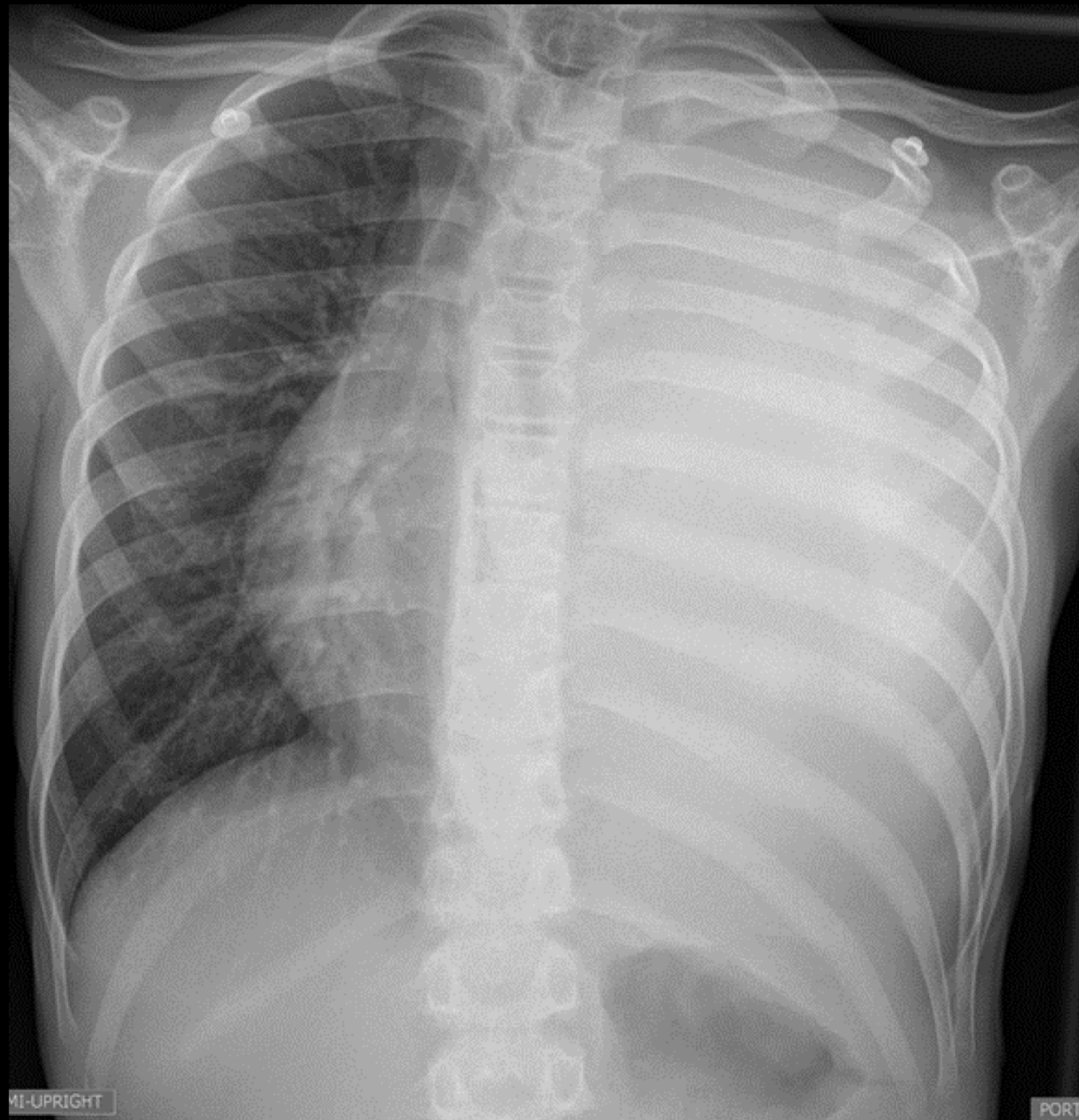
# Pediatric Best Case



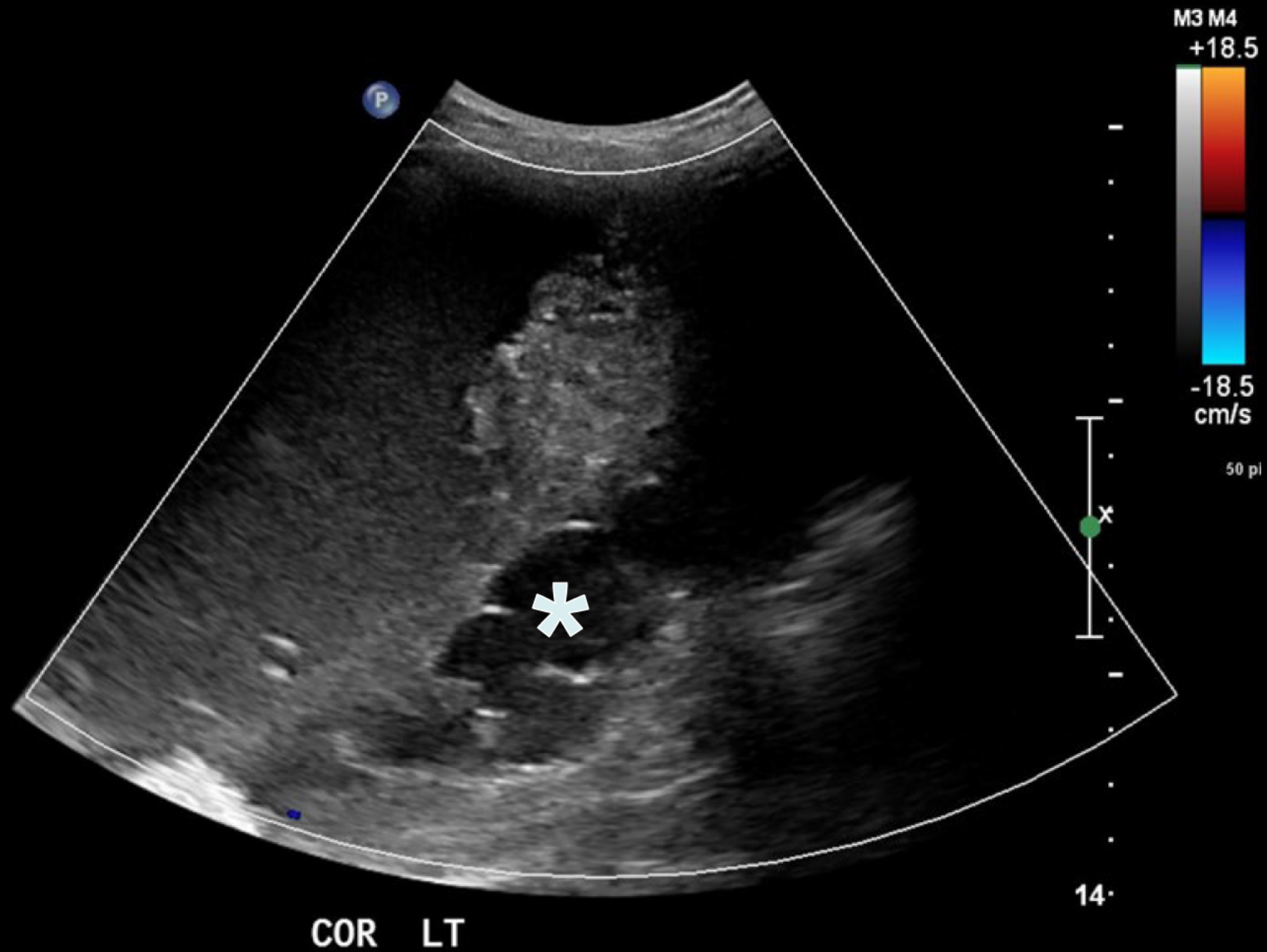


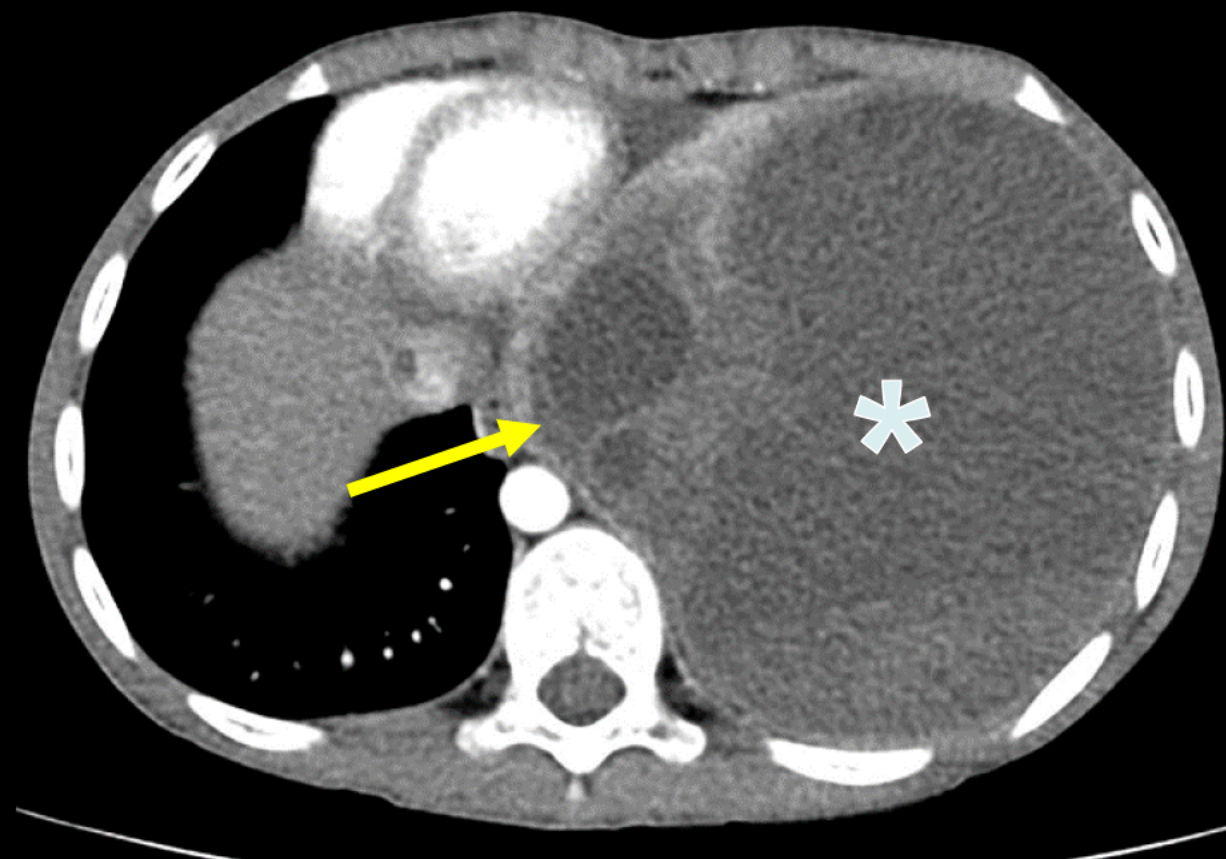
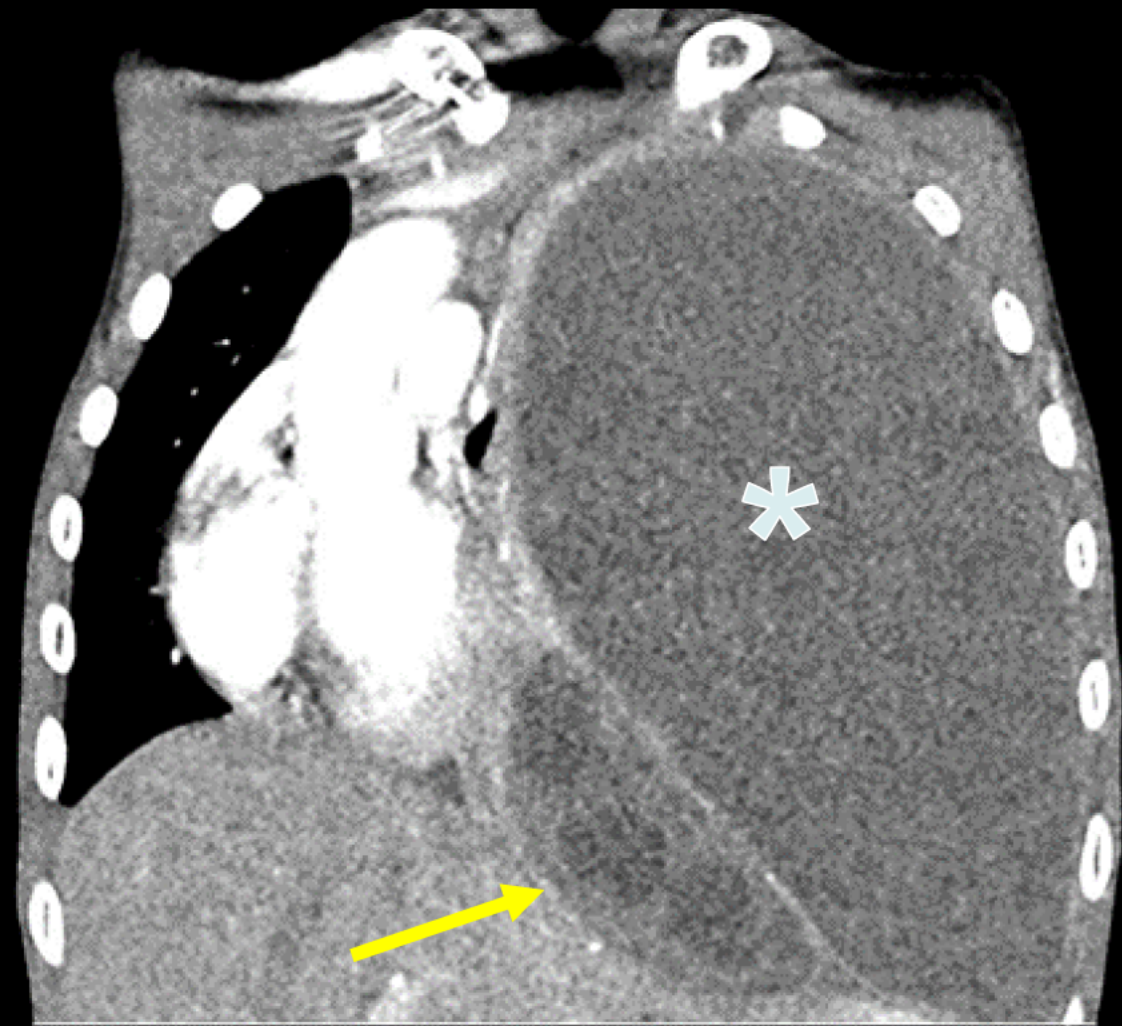
# Clinical information

**12 year old boy who presents with fever, night sweats, weight loss, cough and decreased exercise tolerance.**

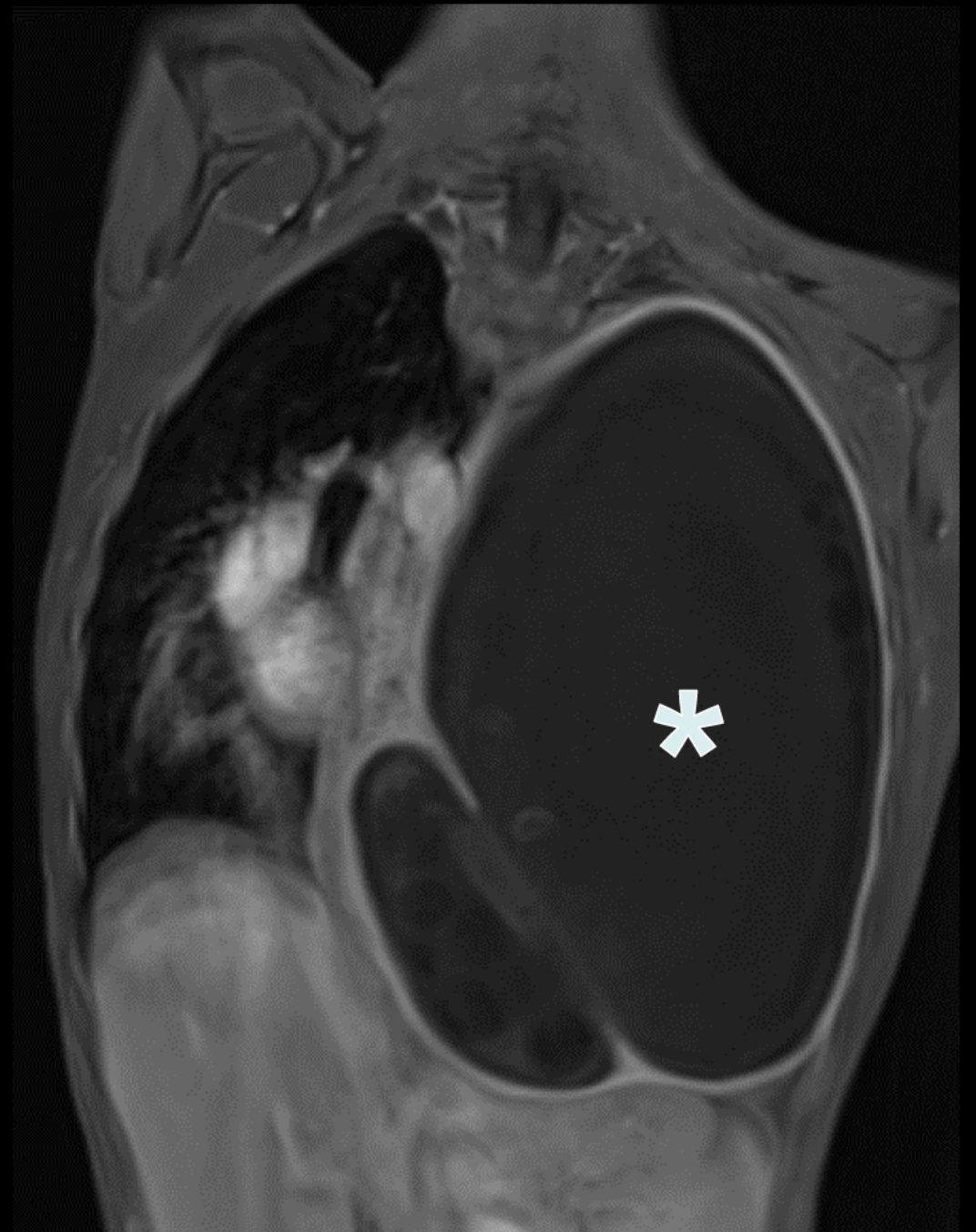
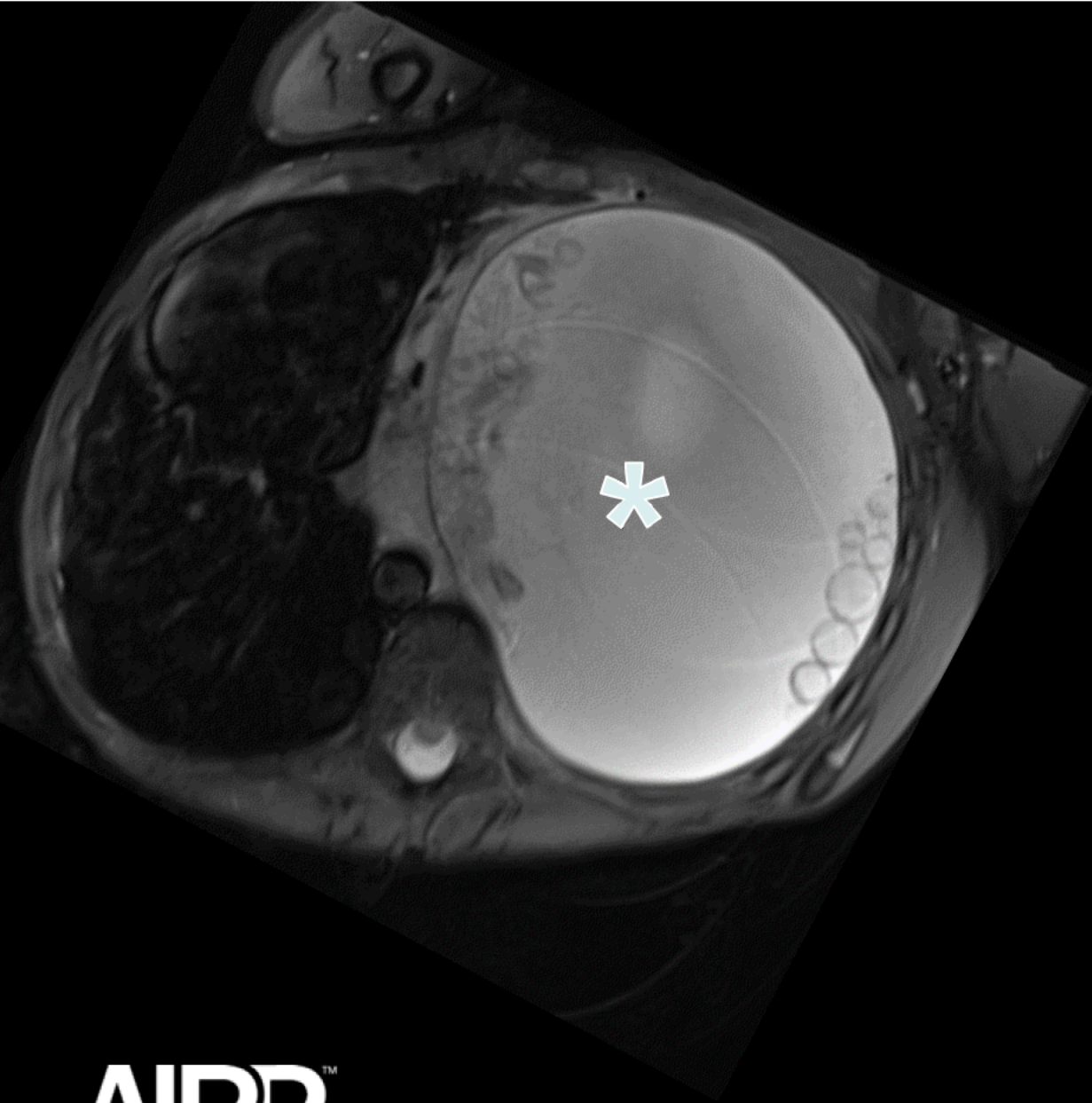


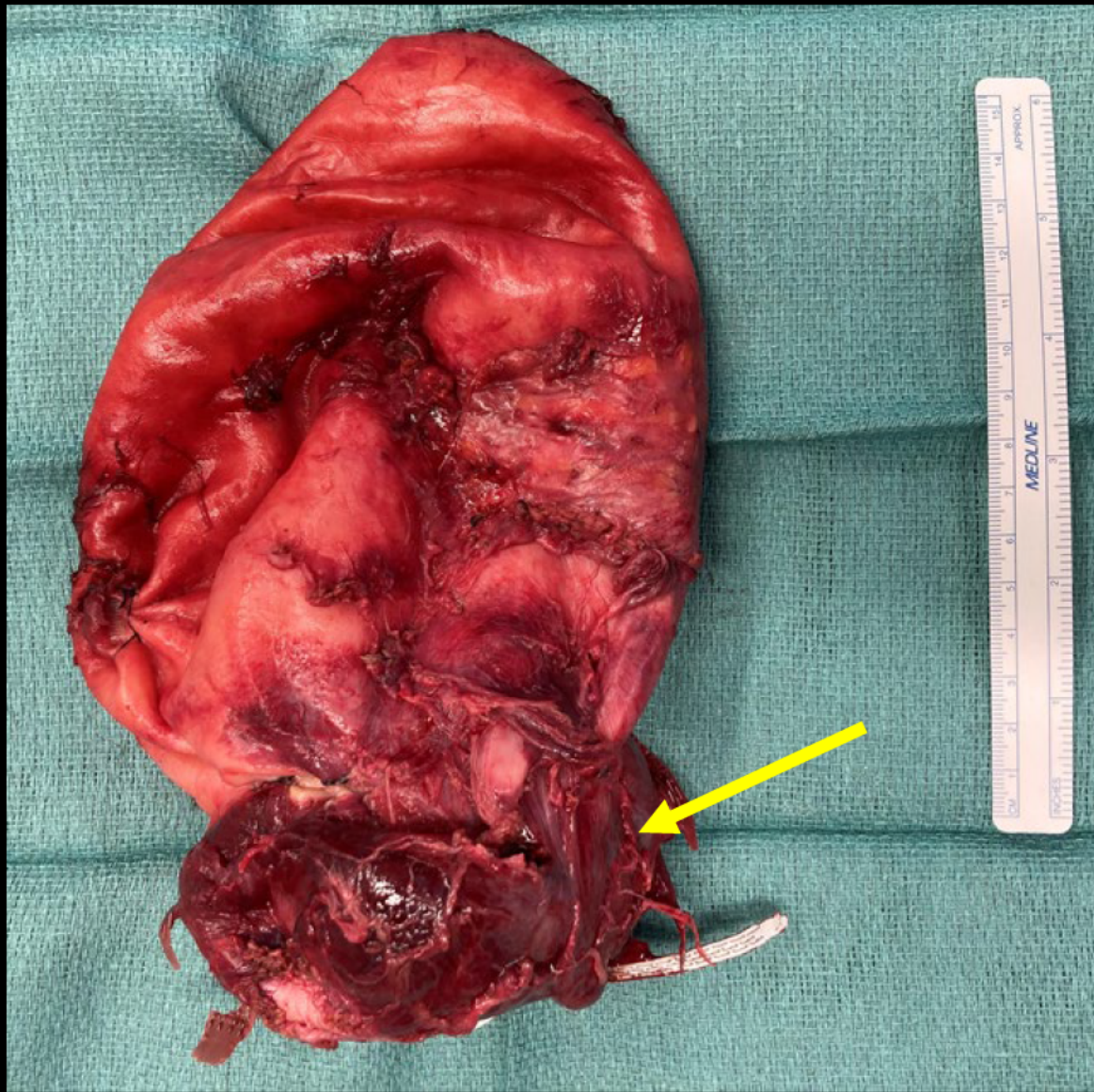












**Collapsed  
thick walled  
cyst with  
adjacent  
daughter  
cysts**

**AIRP**<sup>TM</sup>

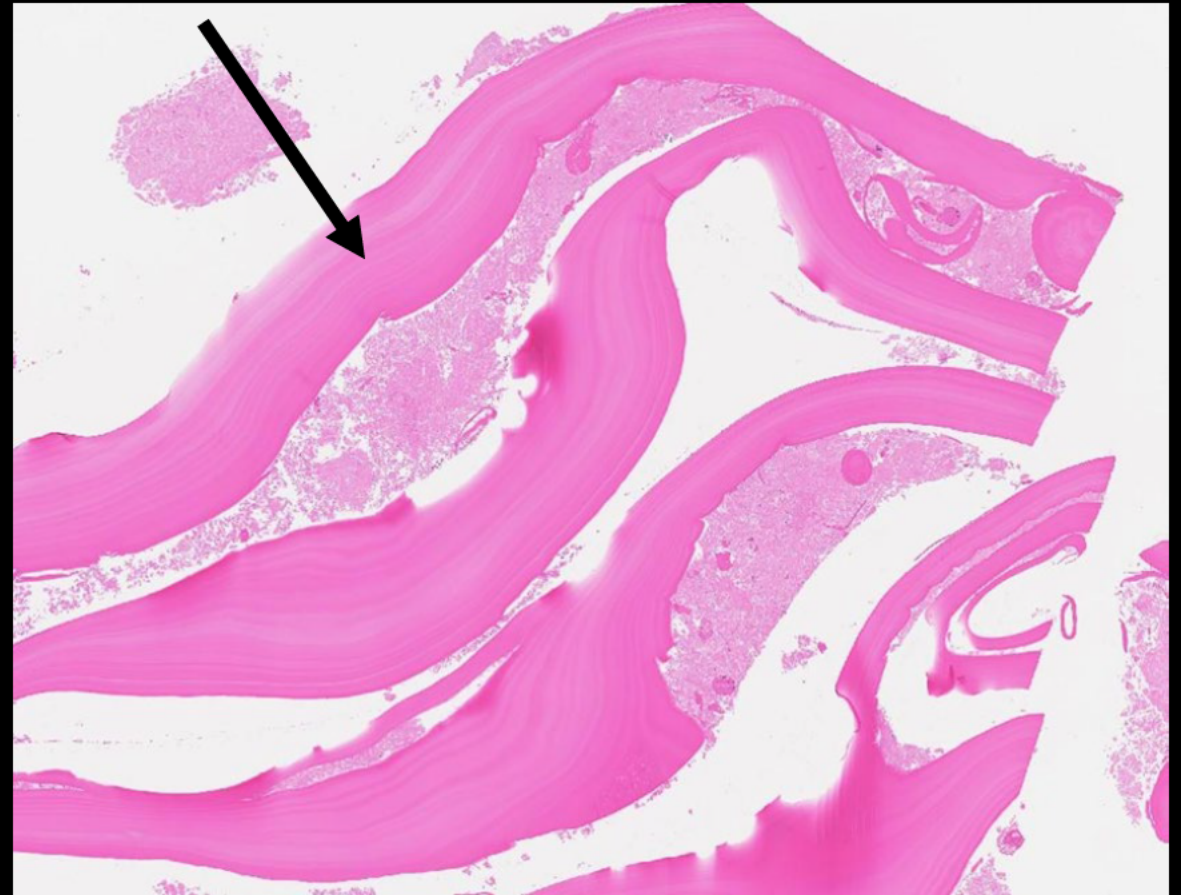
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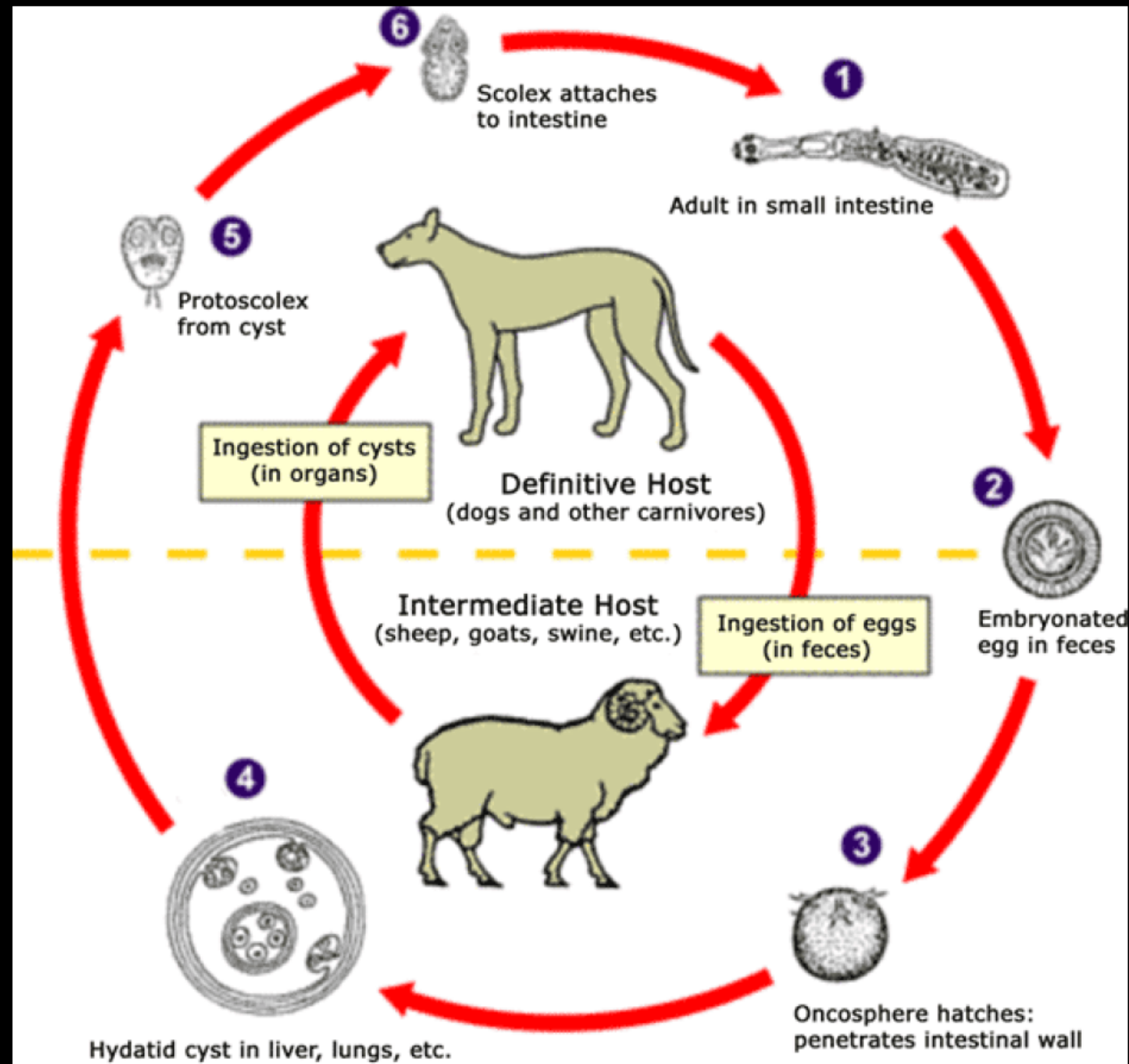
**Scolex within  
the cyst**



**Laminated  
membrane**



**H&E Stain**





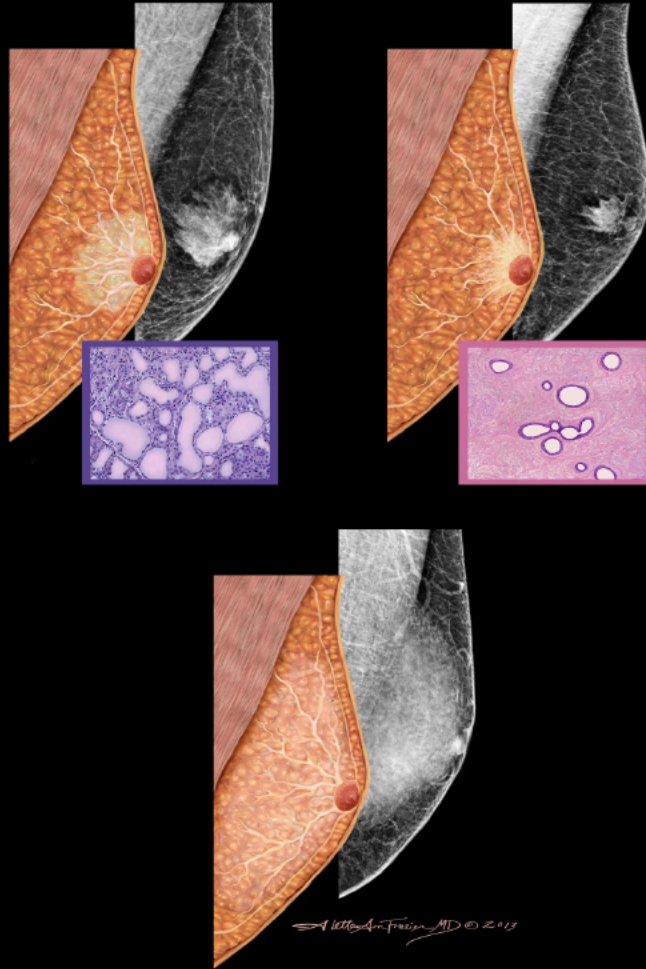
# Echinococcal Cyst

**Dr. Mark Earle**

**Hospital for Sick Children**

**University of Toronto Residency Program**

# Breast Best Case

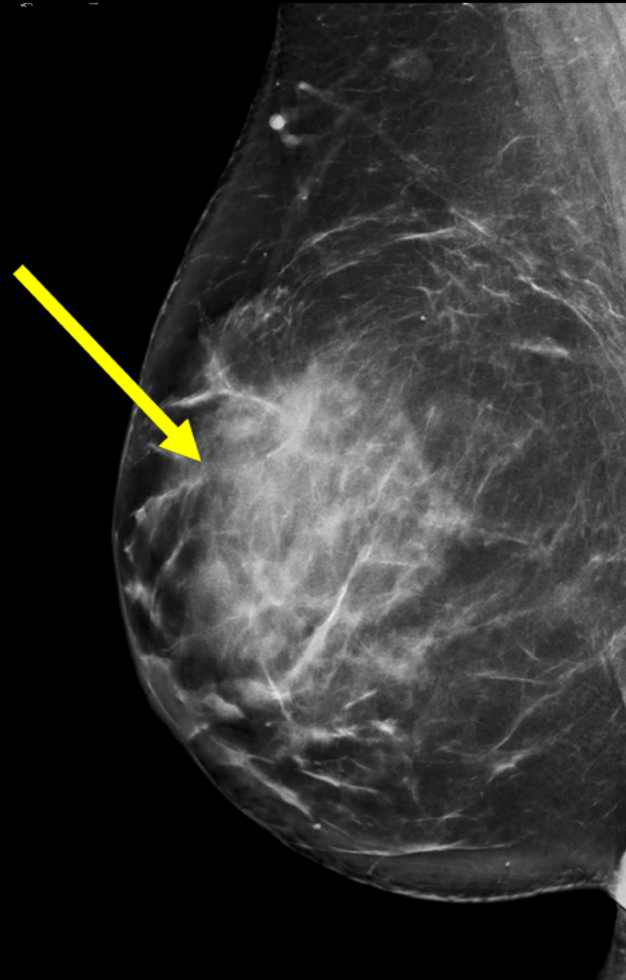
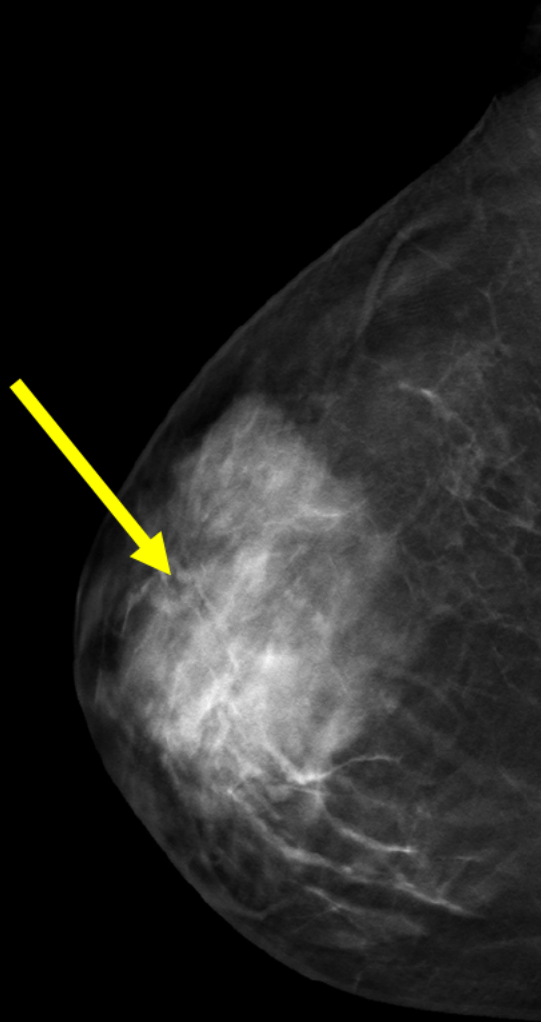




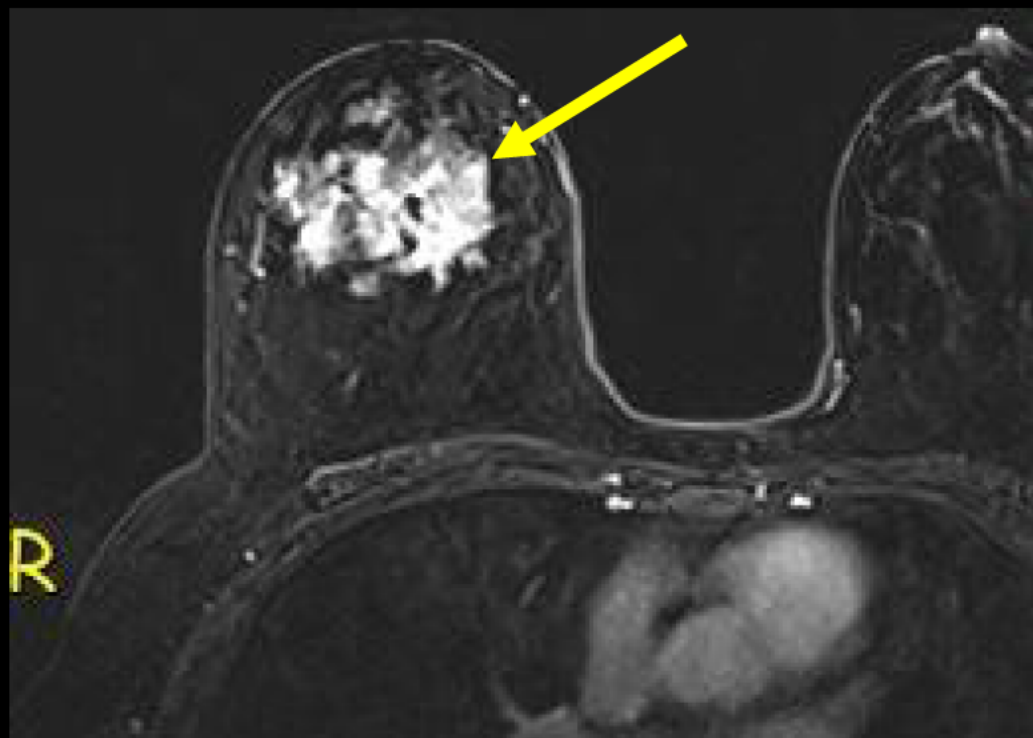
# Clinical information

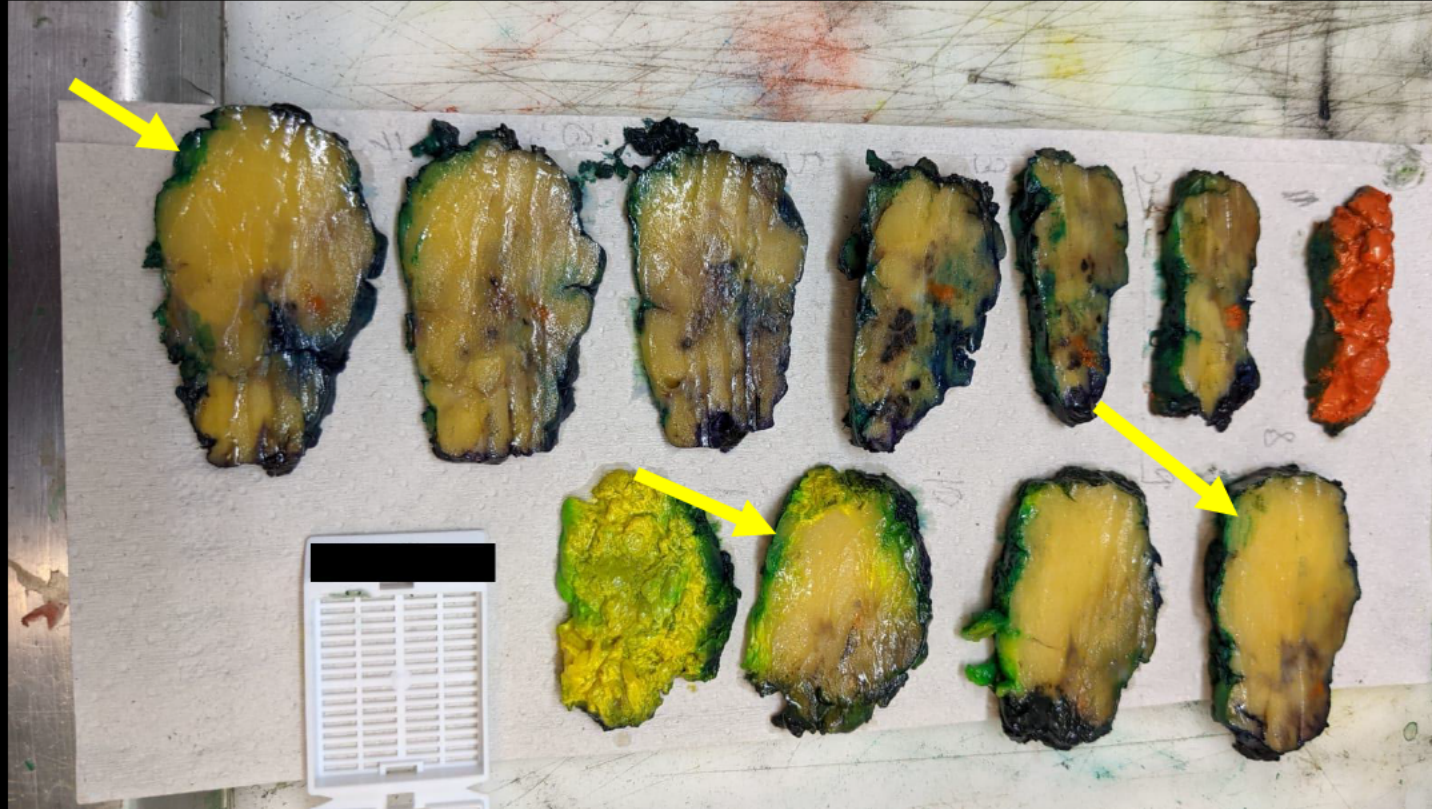
**23-year-old healthy female with right breast pain for about one year.**

**Initial US suggestive of mastitis. Treated with antibiotics with persistence of symptoms.**

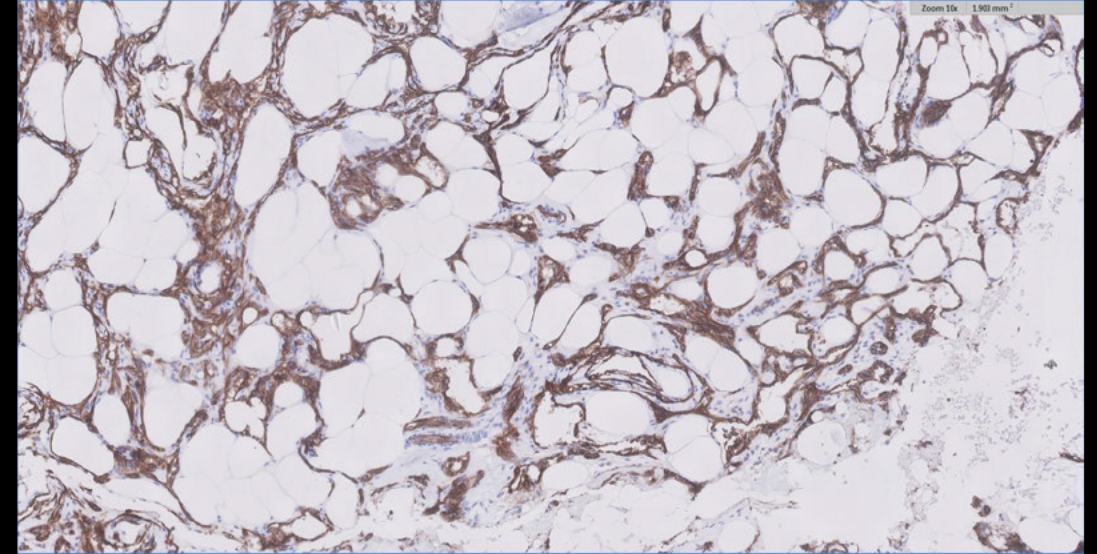
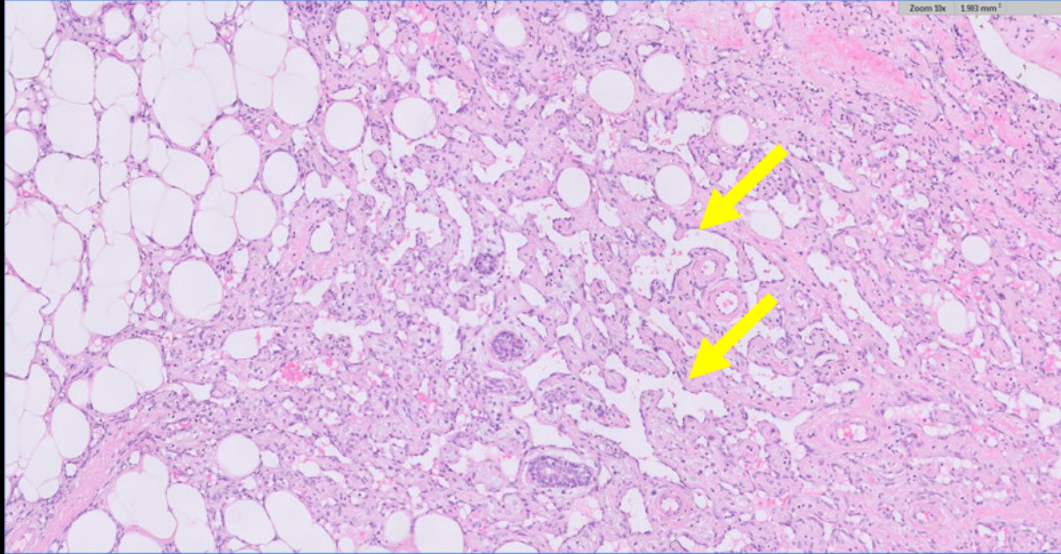






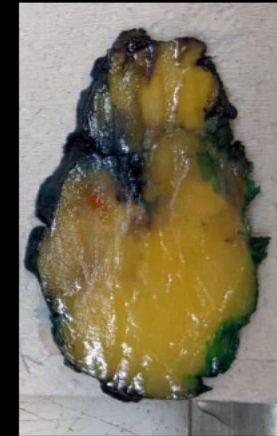
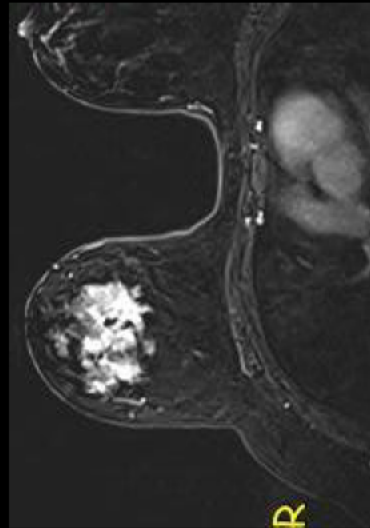
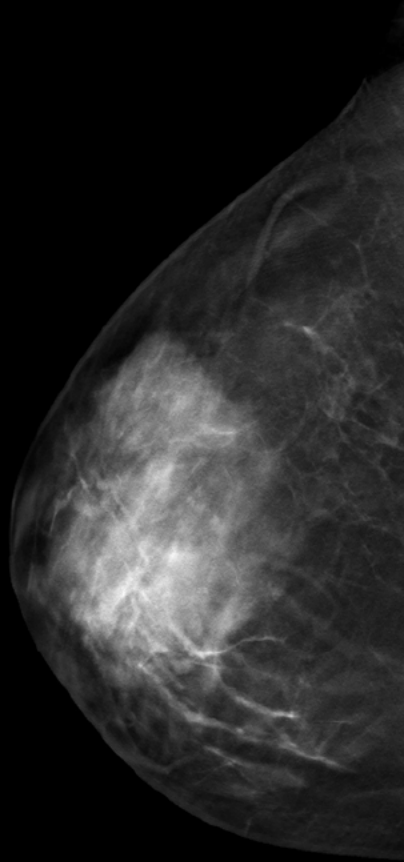


# Histology





# Rad-Path Correlation



# Primary Angiosarcoma

**Dr. Chen Haim Cohen**  
**Tel Aviv Medical Center**  
**Tel Aviv, Israel**

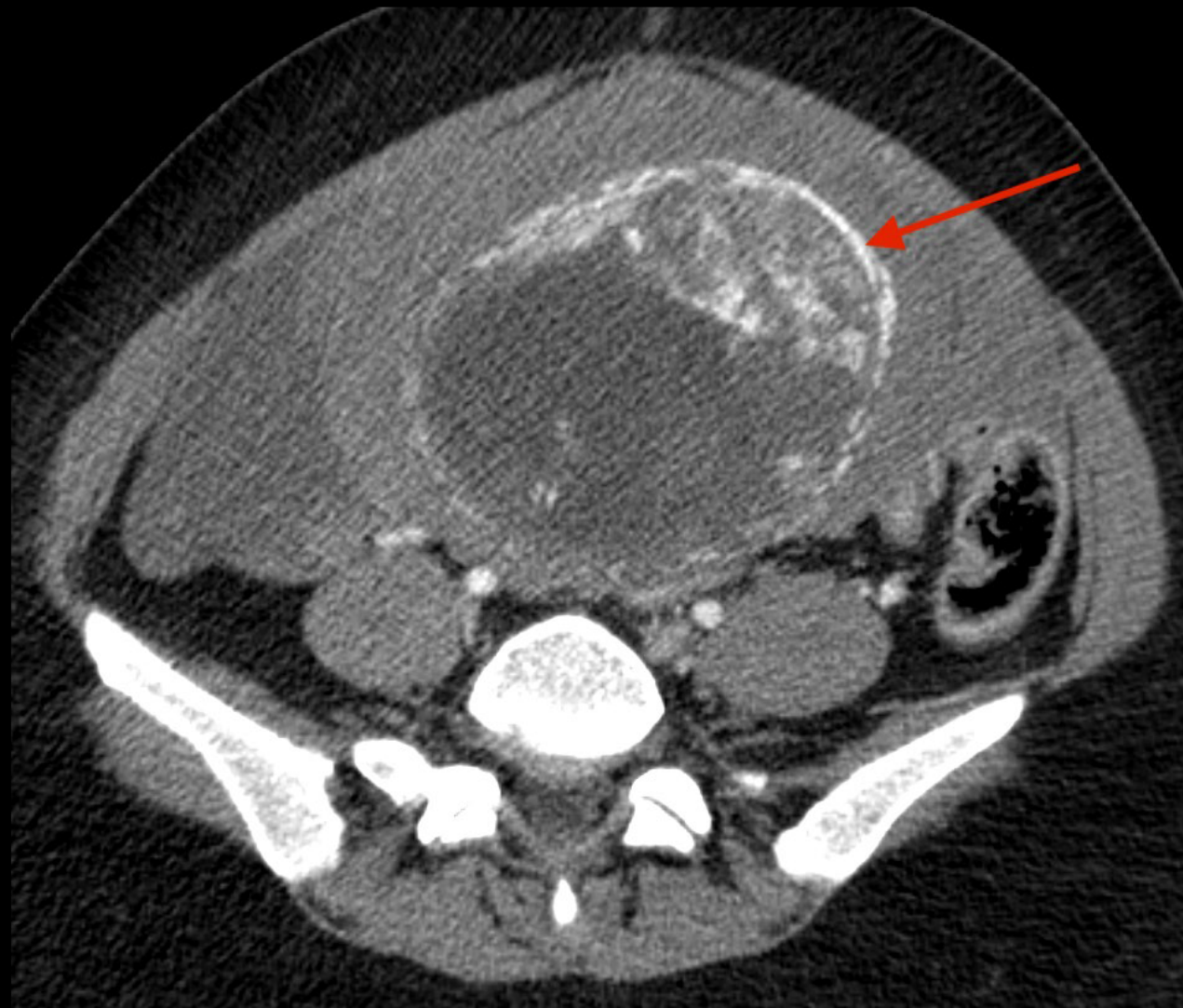
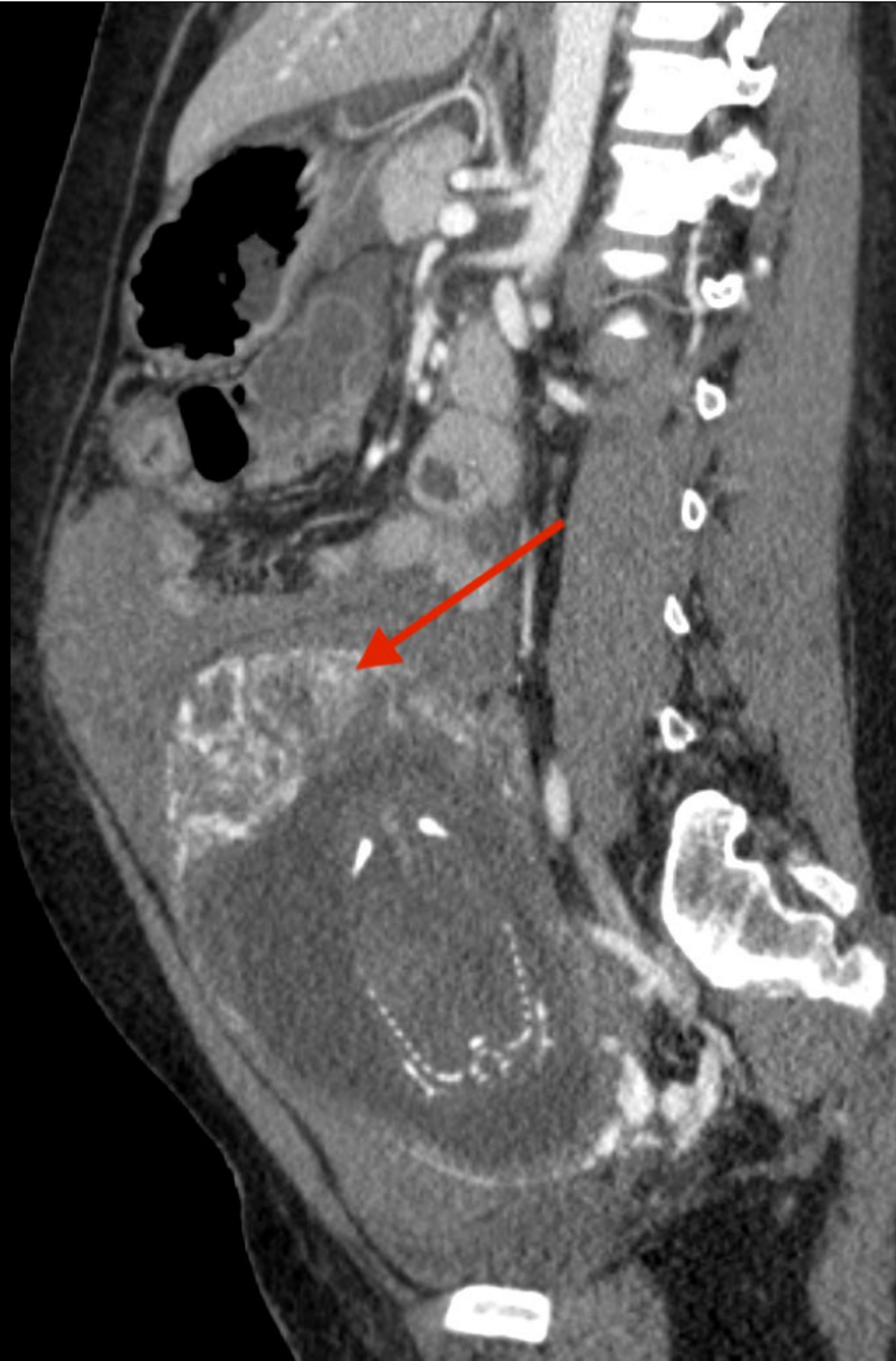
# Genitourinary Best Case

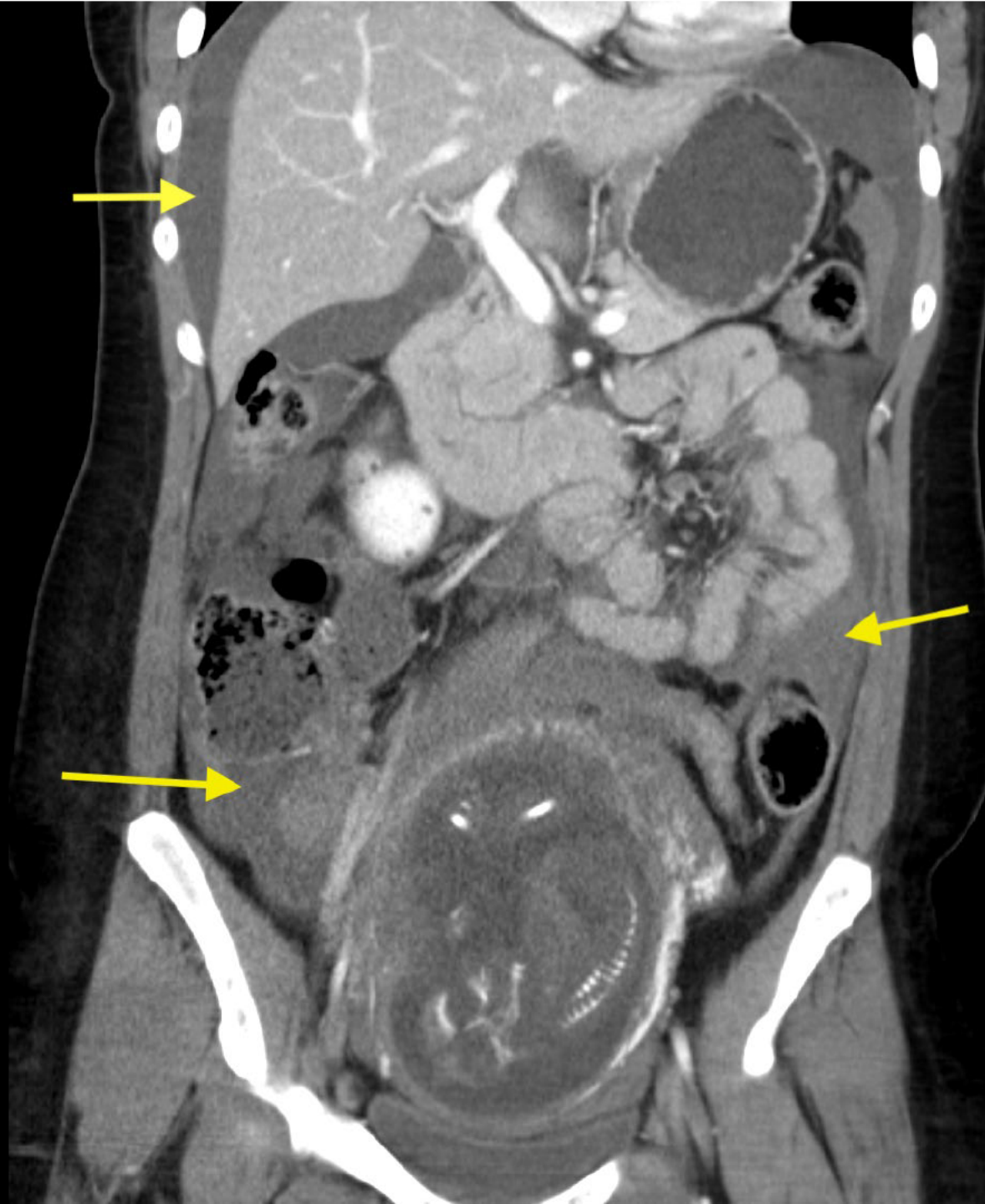




# Clinical information

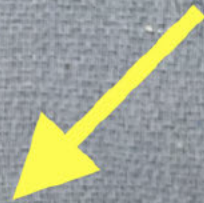
**37-year-old G3P1011 Jehova's Witness at 19w6d with a past history of vacuum assisted vaginal delivery with retained placenta requiring dilation and curettage presented to ED with sudden onset severe abdominal pain, nausea, and vomiting.**



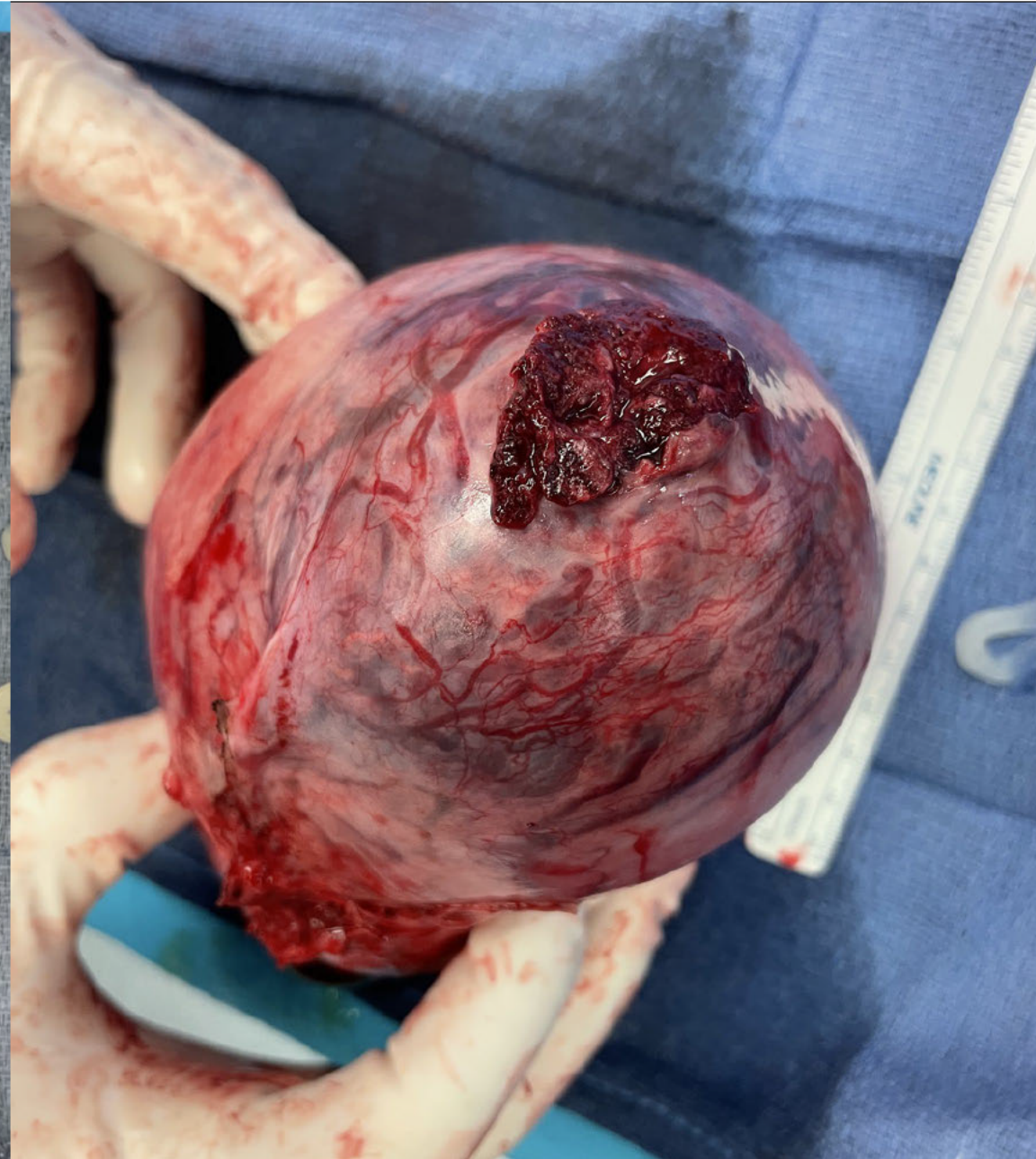




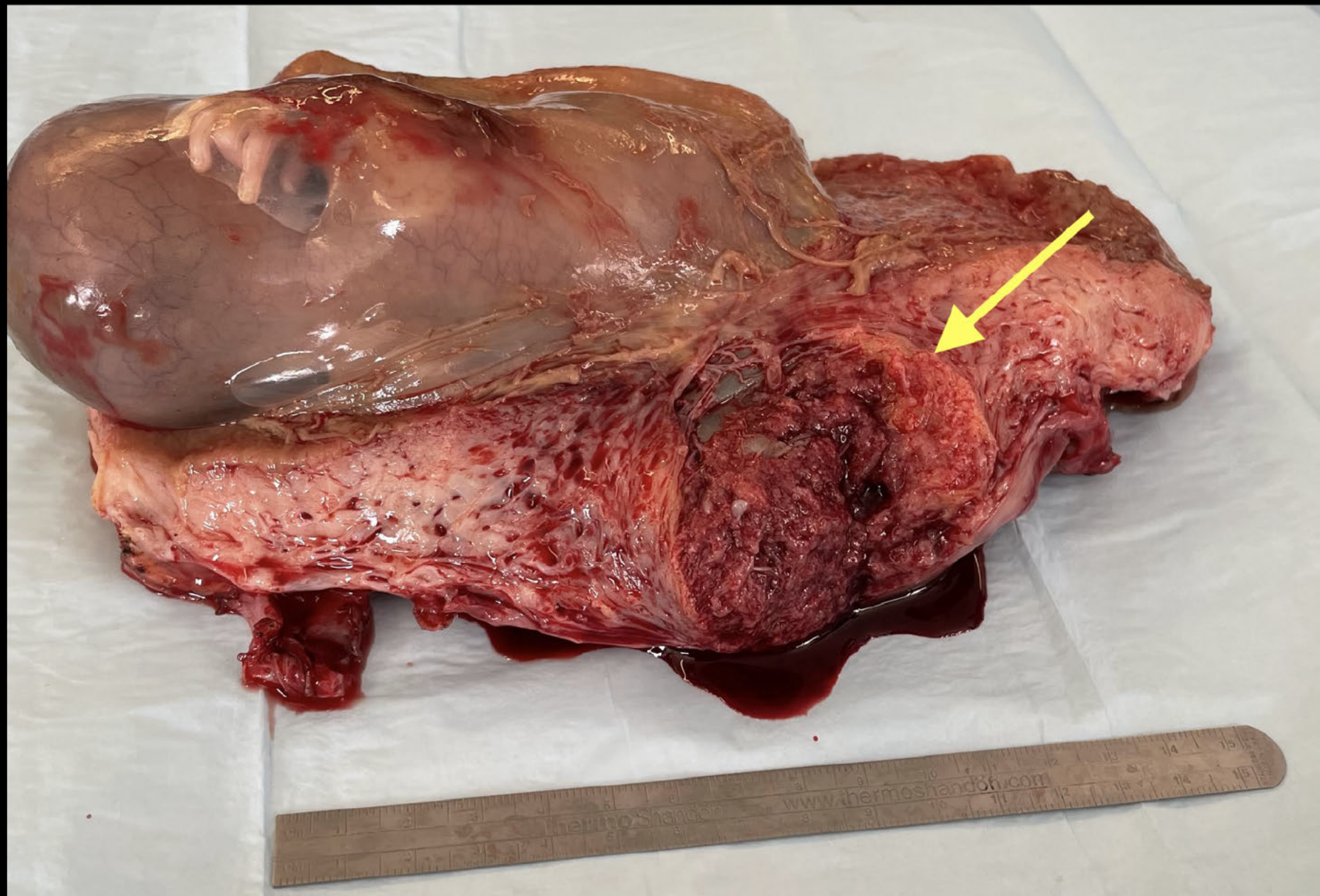
Fundus



Internal os





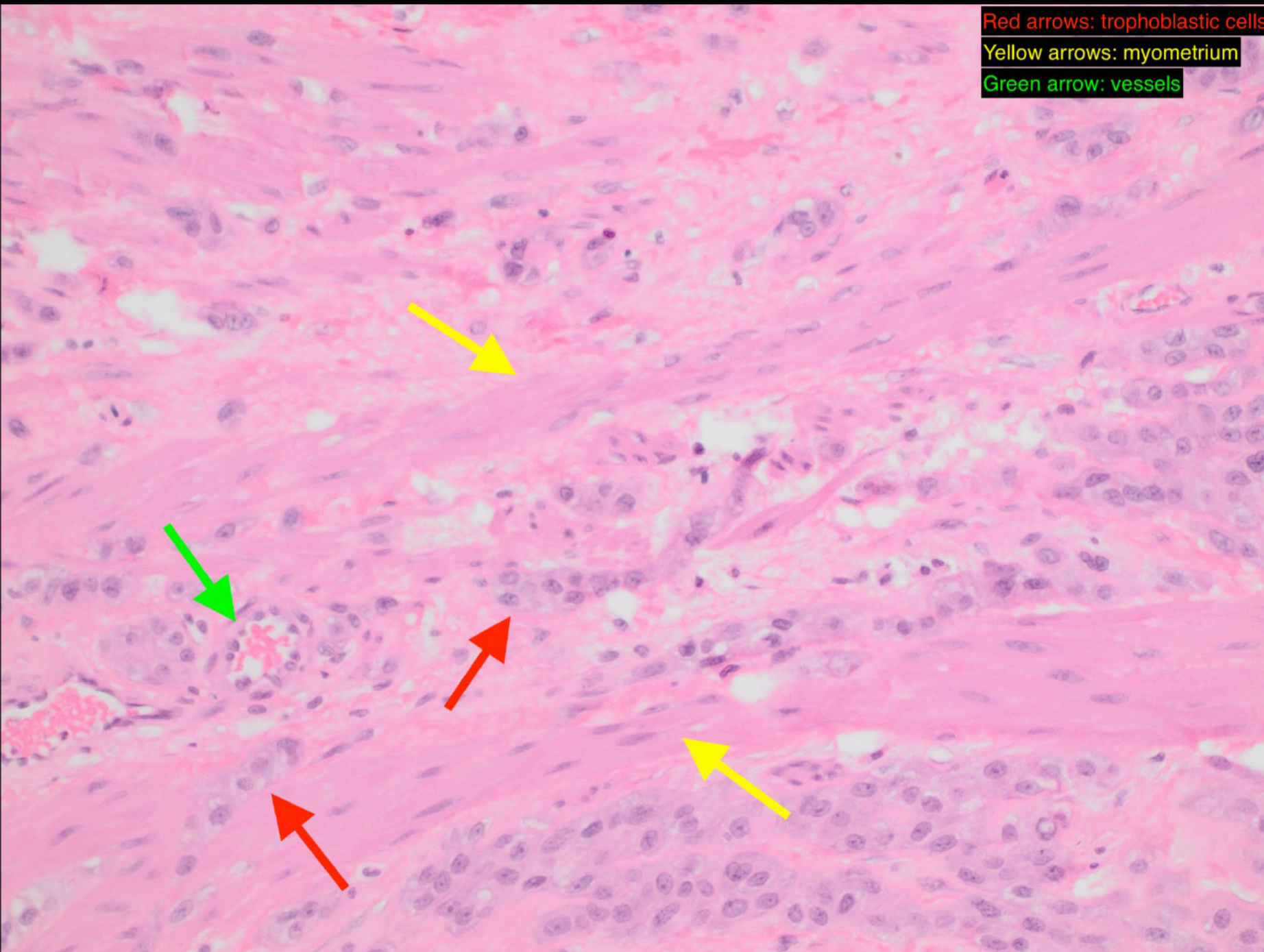




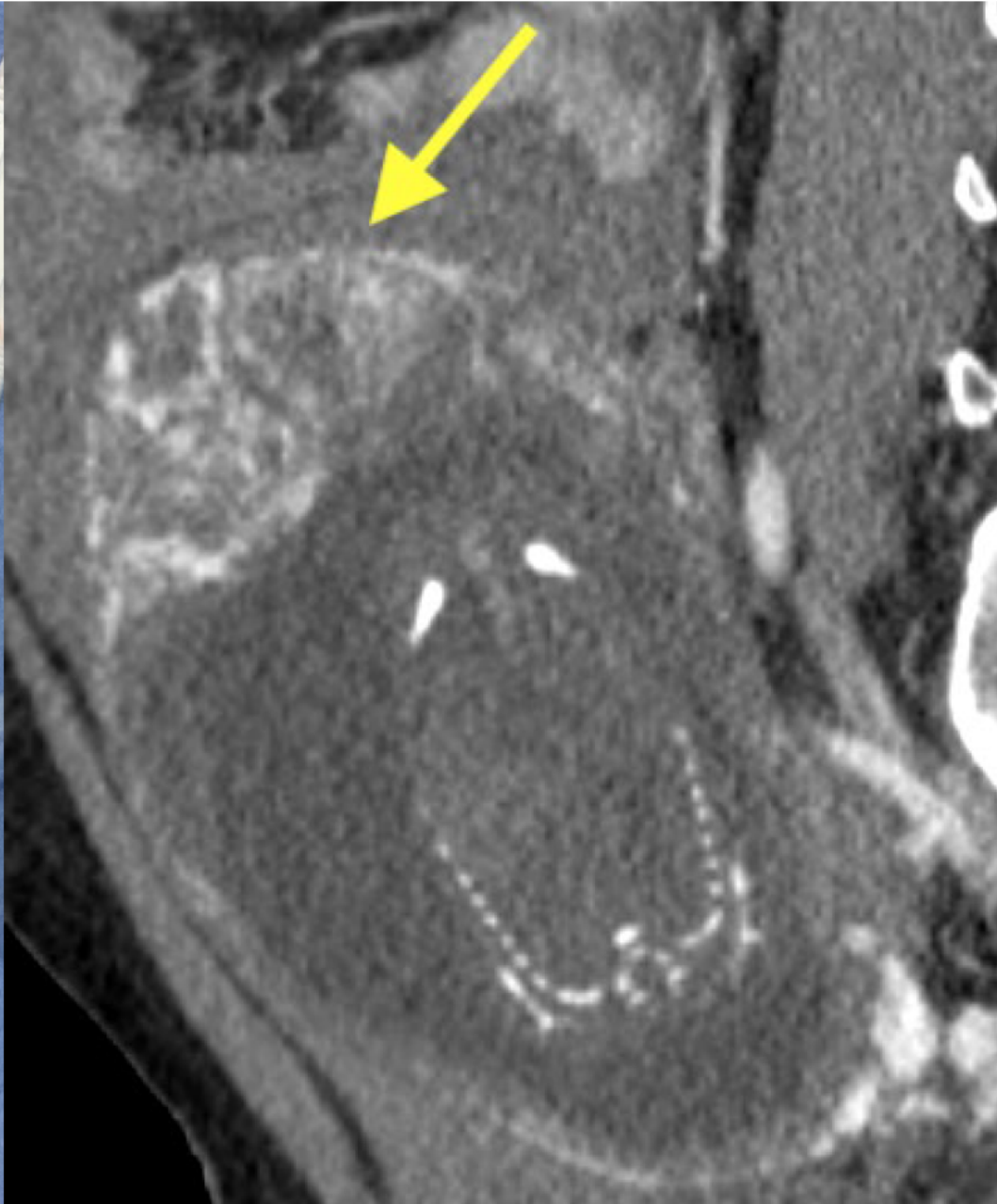
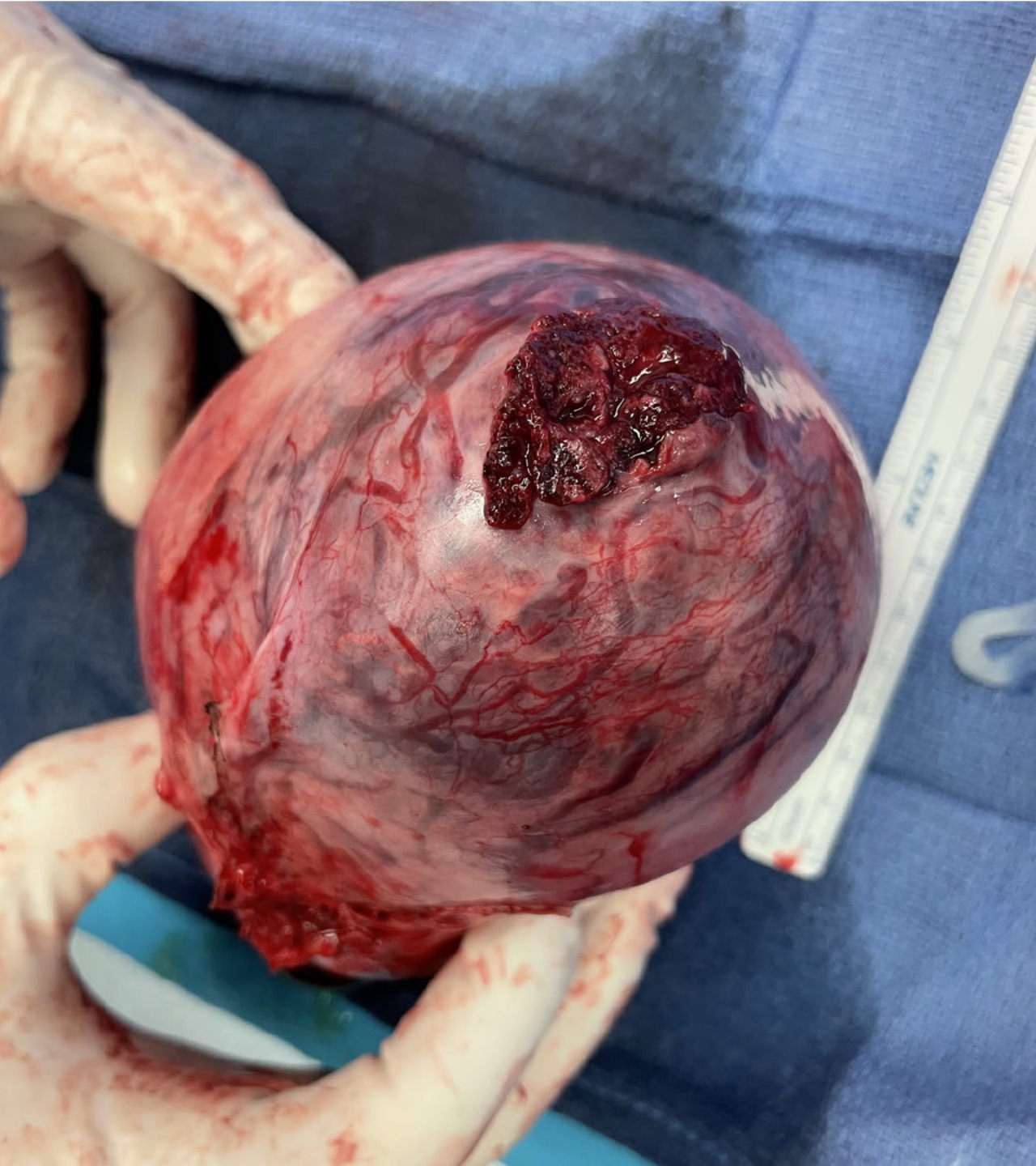
Red arrows: trophoblastic cells

Yellow arrows: myometrium

Green arrow: vessels







# Ruptured Placenta Percreta

**Dr. Landon Melchior**  
**Norwalk Hospital**  
**Norwalk, CT**

**Many thanks to all of you for  
submitting such great cases!**

**From the staff of the  
American Institute for Radiologic Pathology**