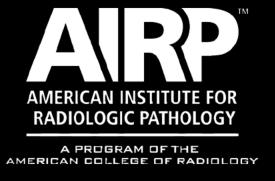
Best Cases of the AIRP

February-March, 2019



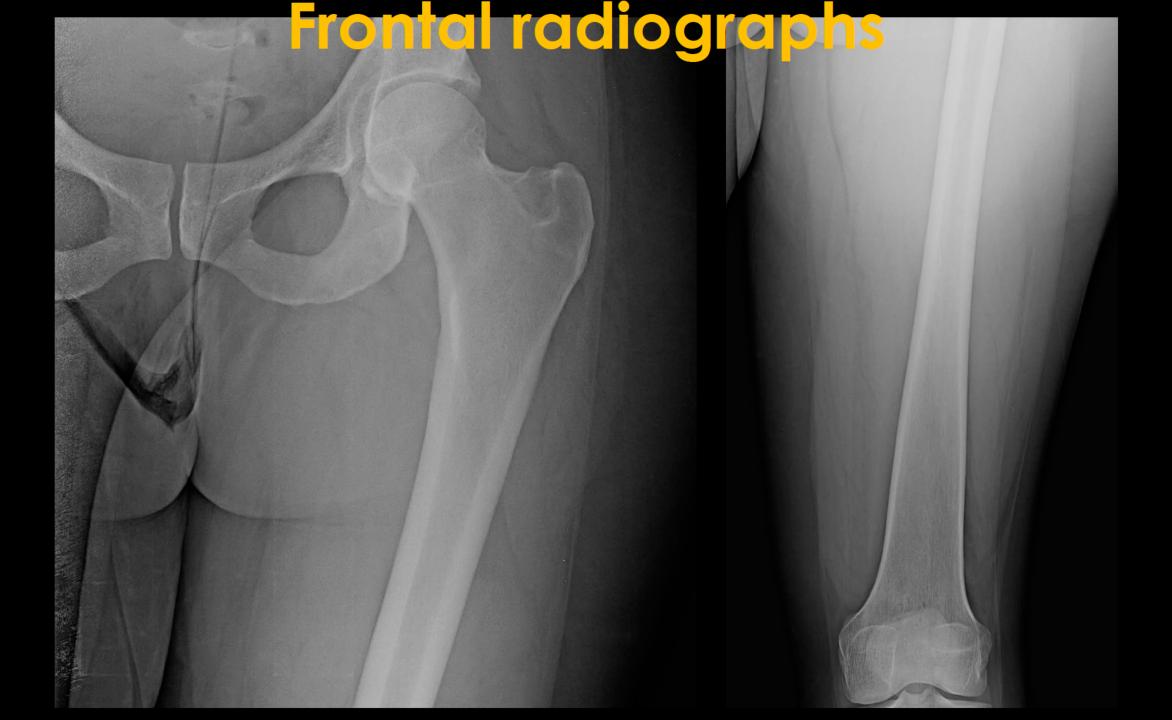
BEST CASE MASK

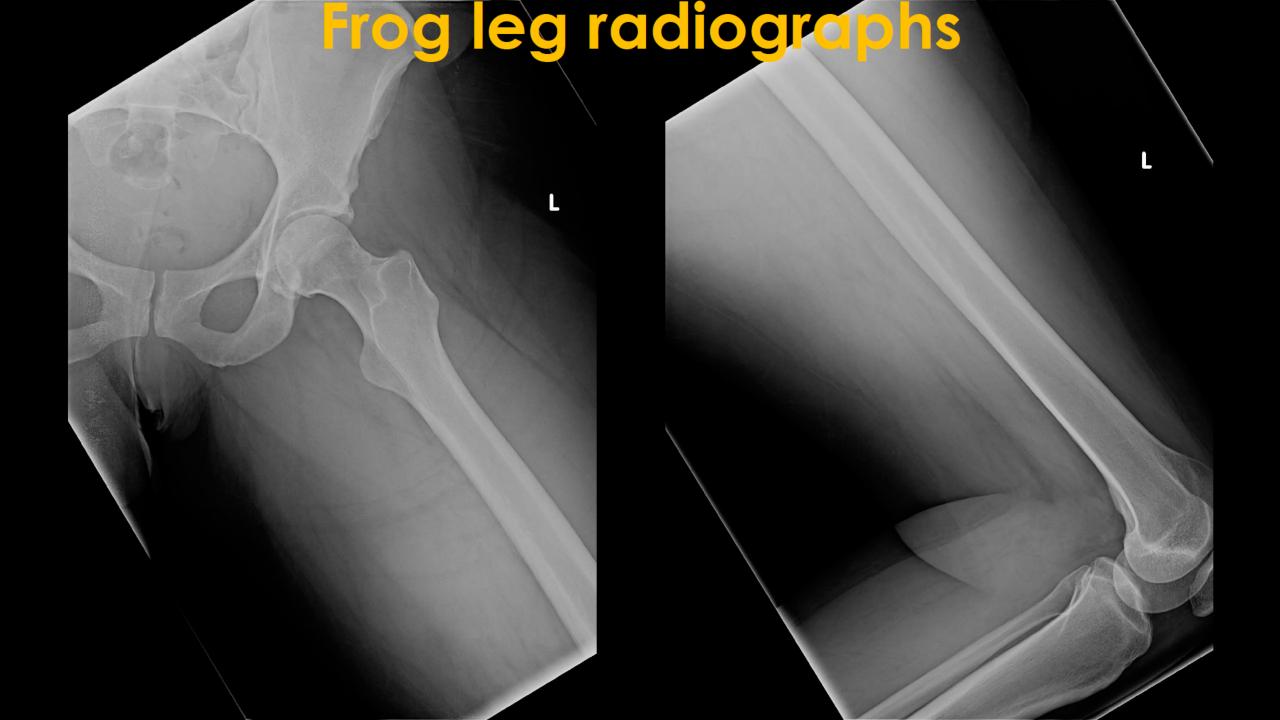
February – March 2019

AIRP ACR

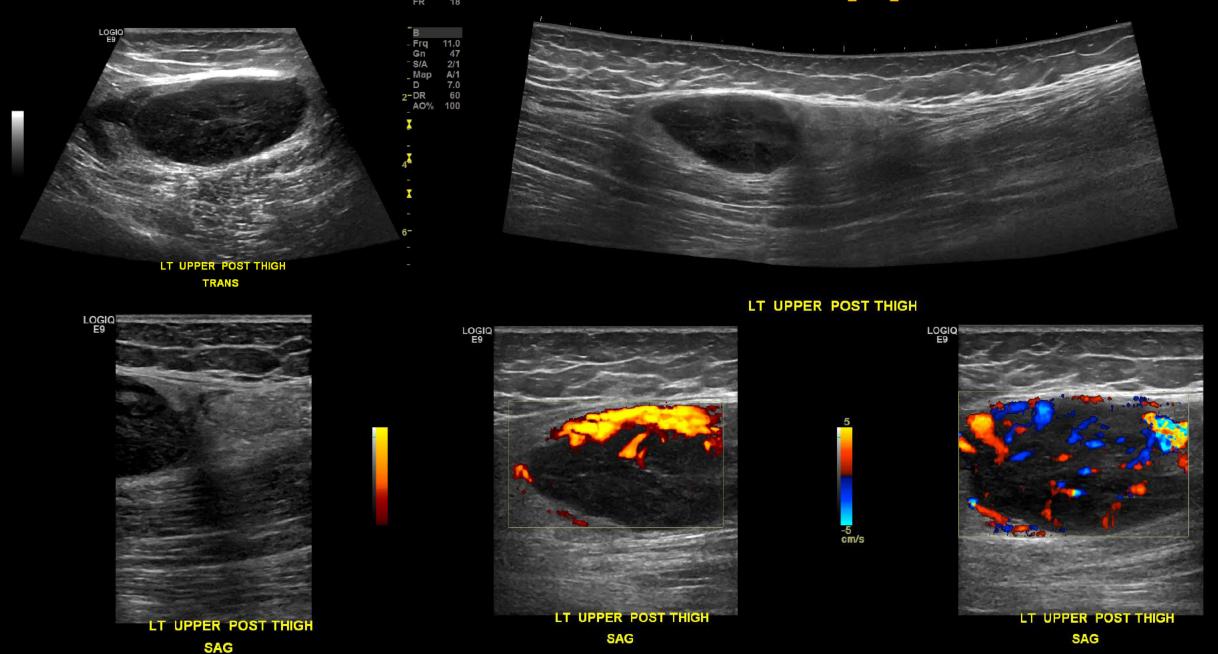
44 year old female complains of a lump in her posterior thigh she noticed 2 years ago; now it has grown and become more painful



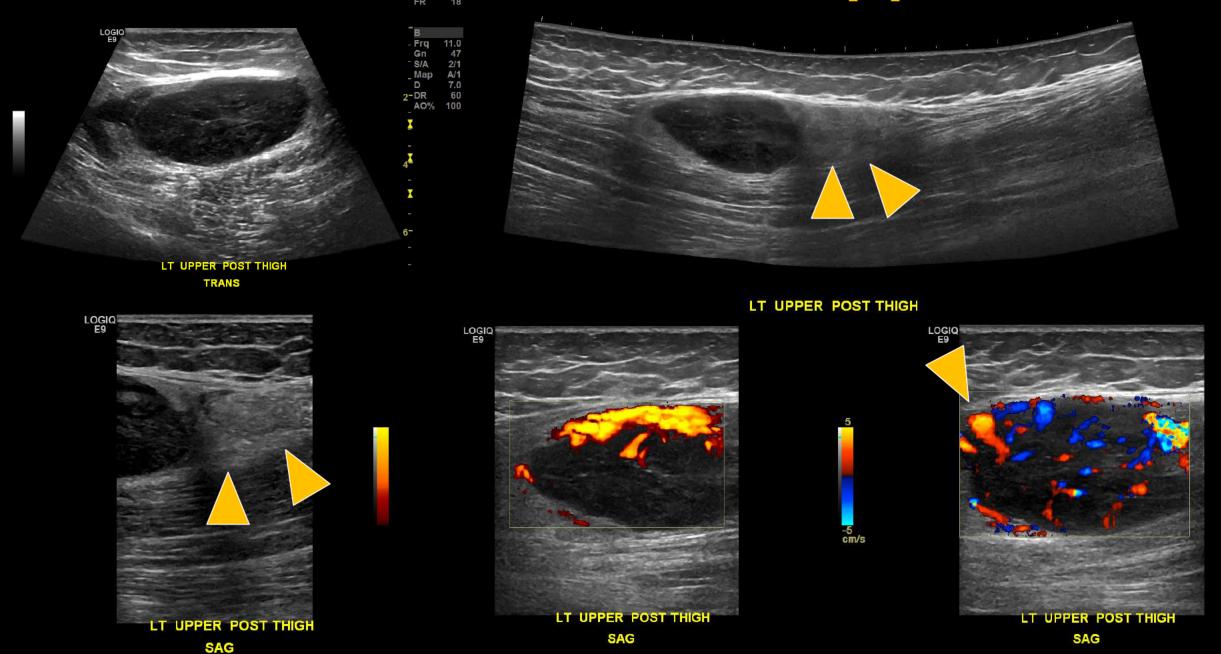




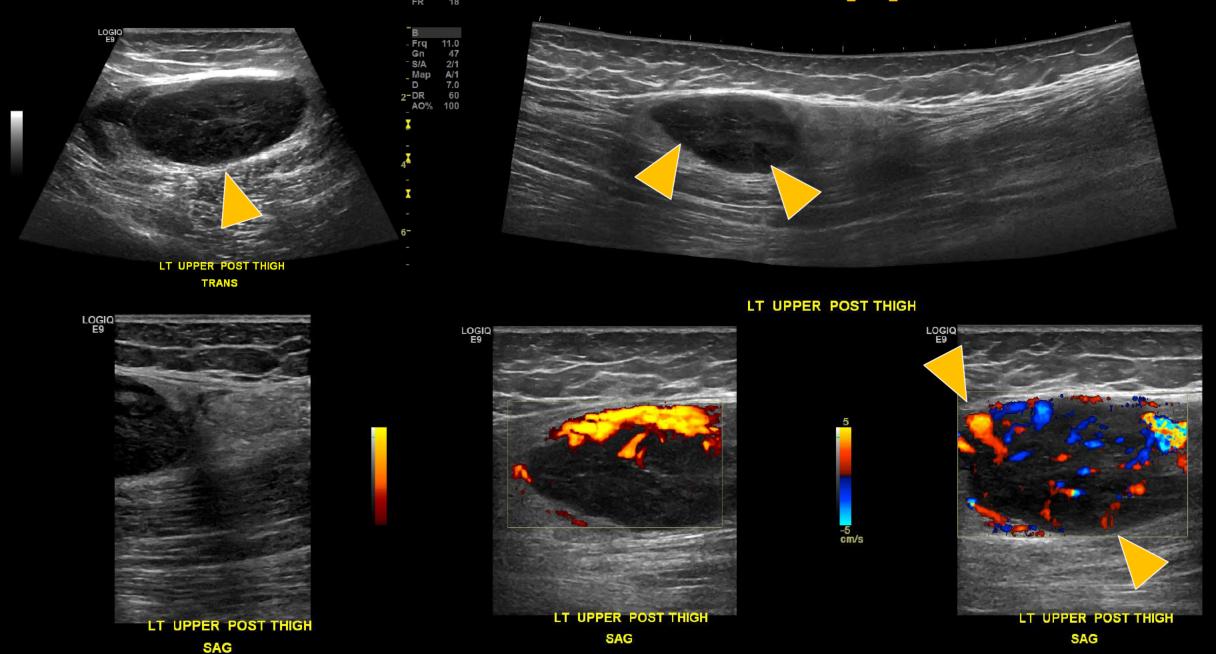
Ultrasound with doppler



Ultrasound with doppler



Ultrasound with doppler

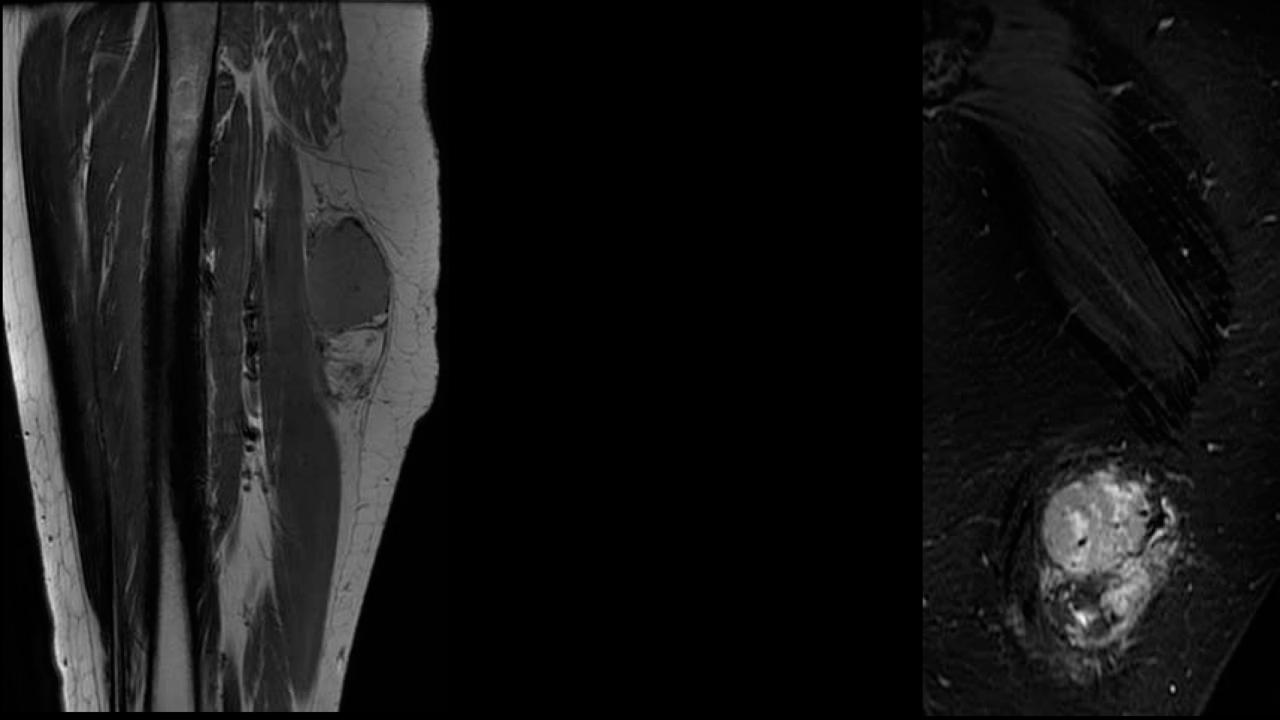


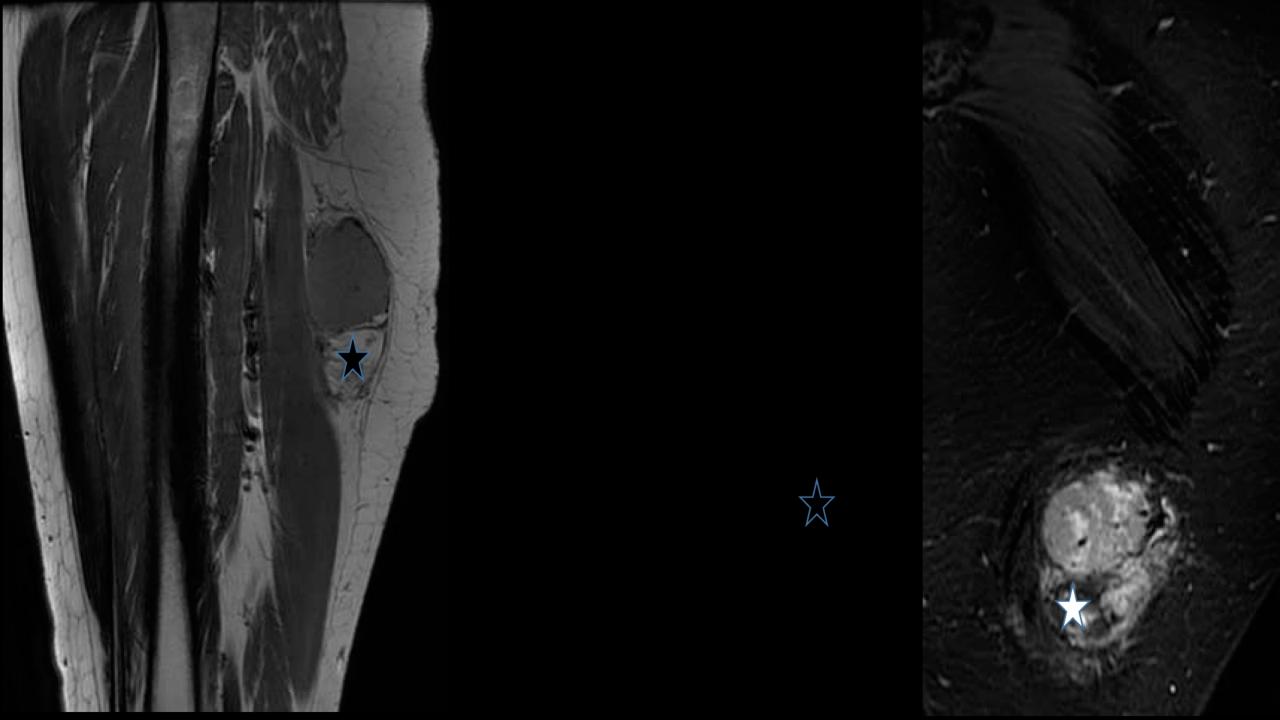


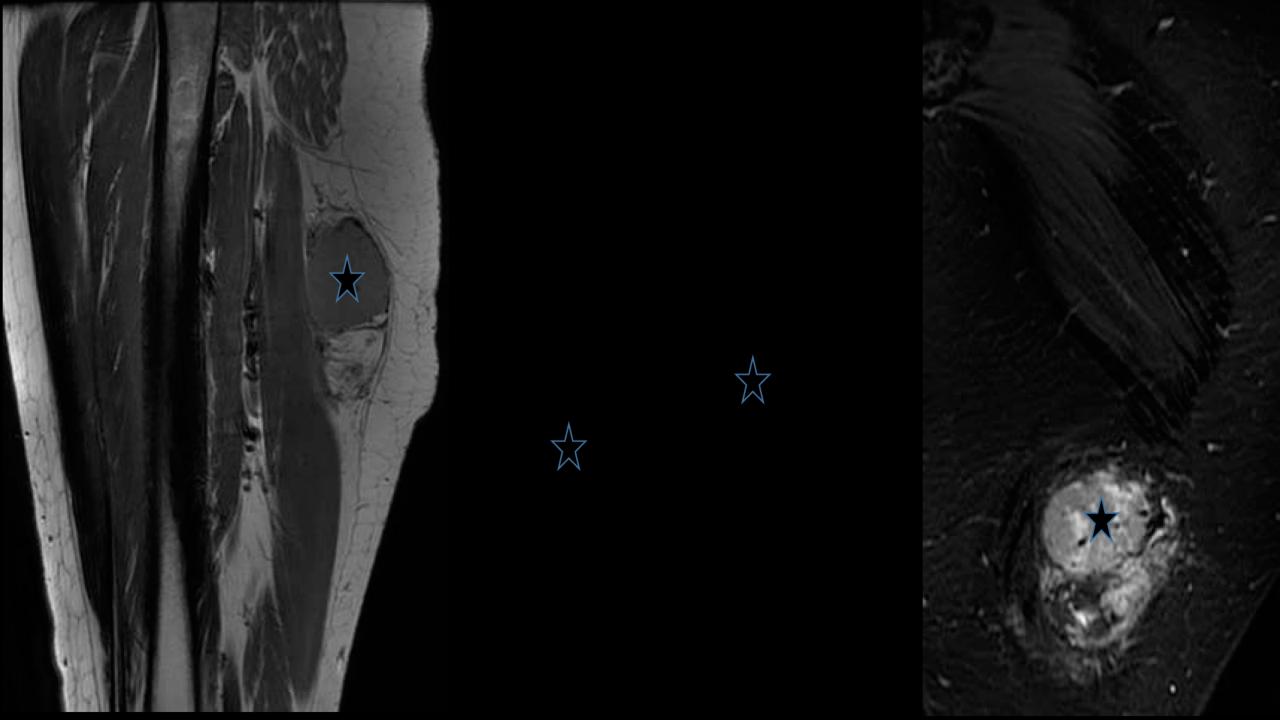


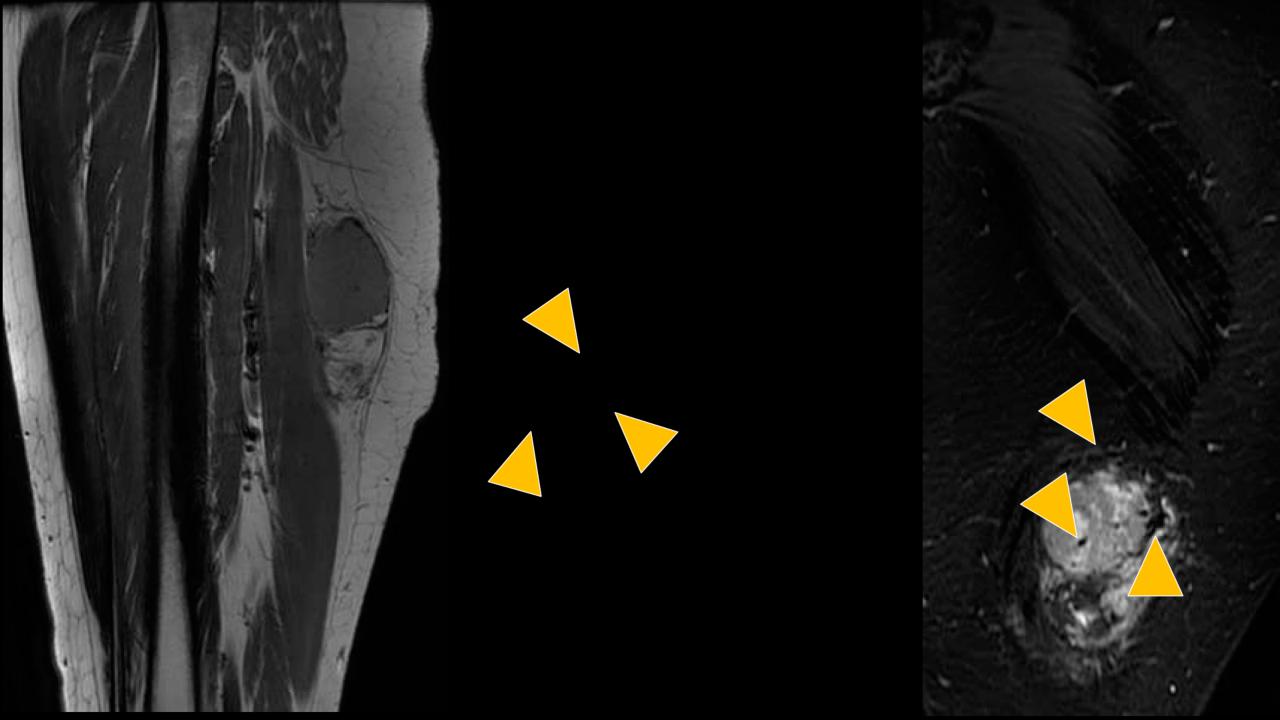


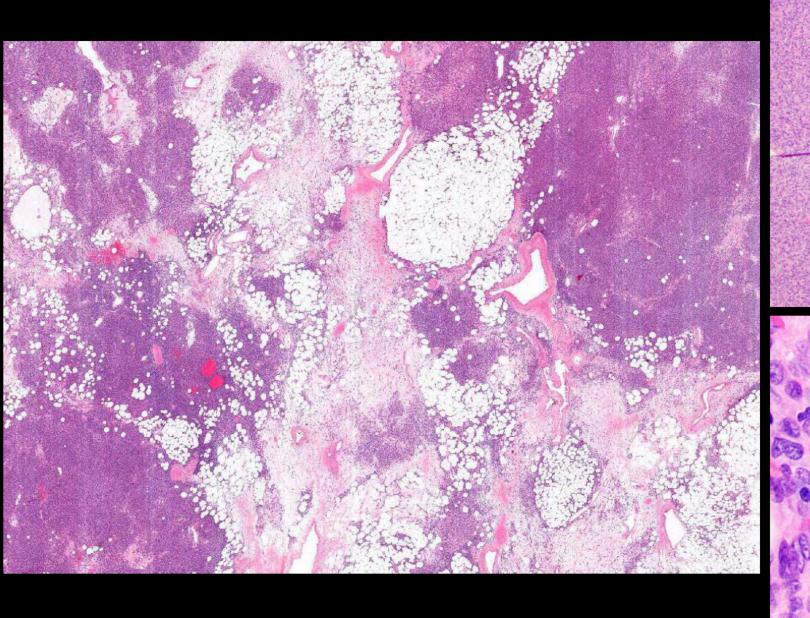


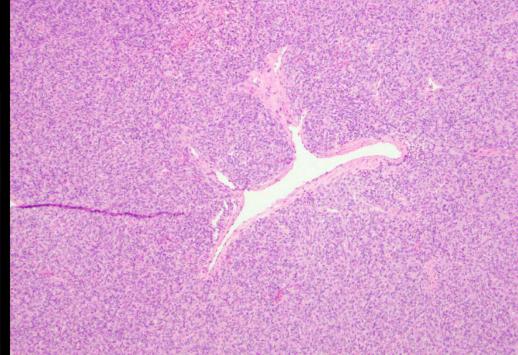


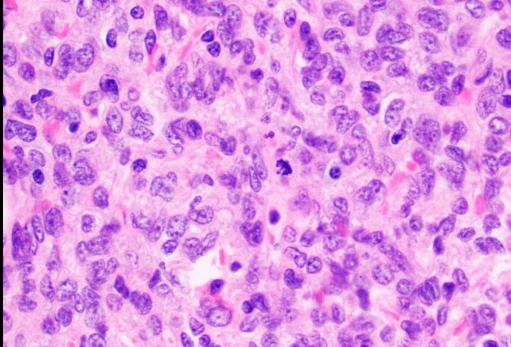


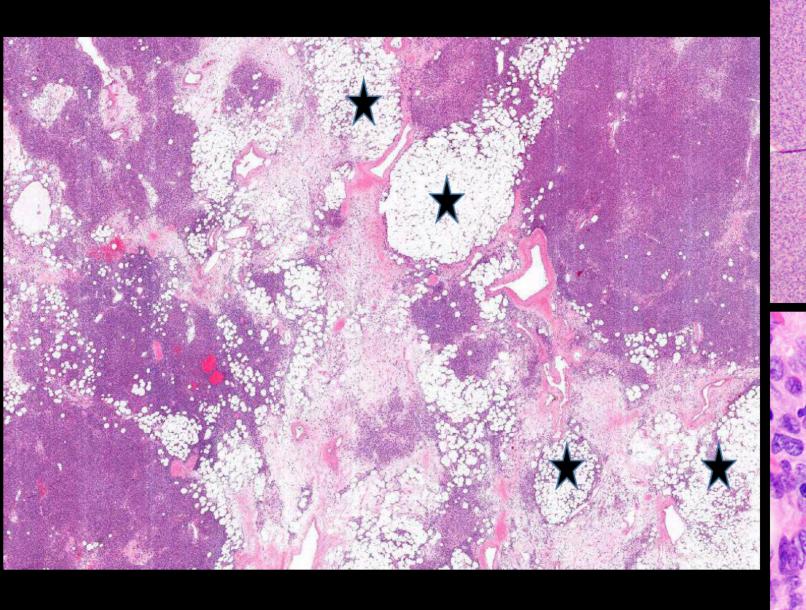


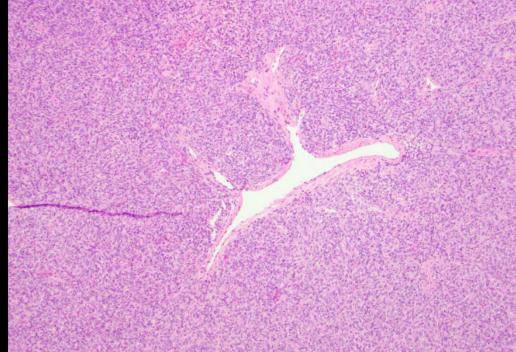


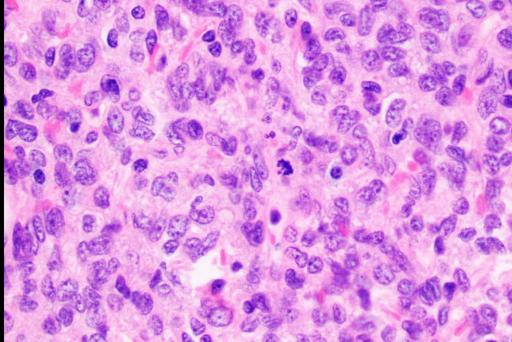


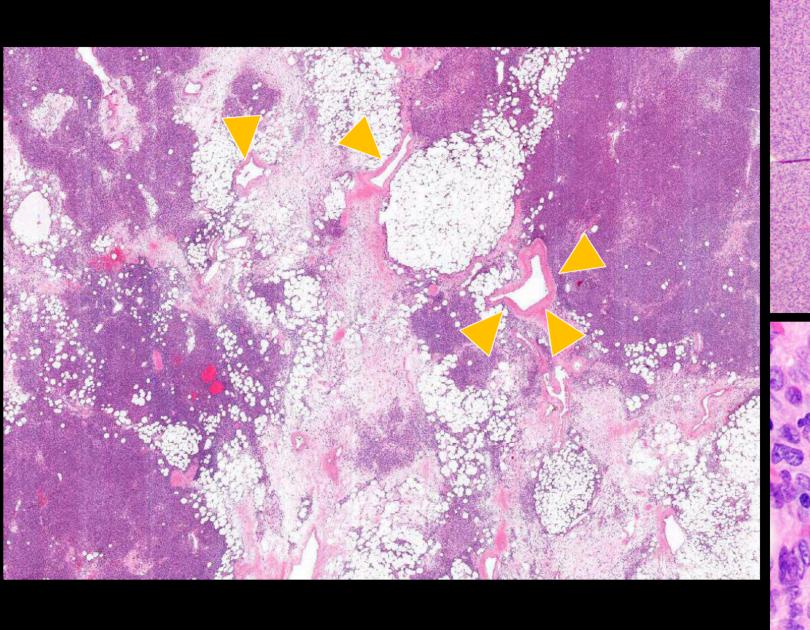


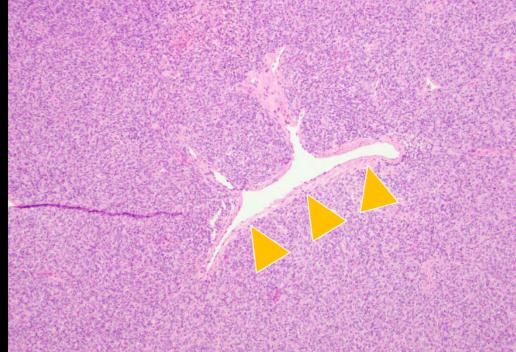


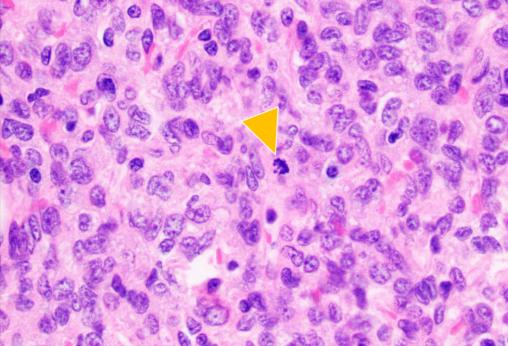












Extrapleural solitary fibrous tumor, lipomatous variant

Dr. Peter Tang Mount Sinai Hospital New York, NY



HONORABLE MENTION MSK

February – March 2019

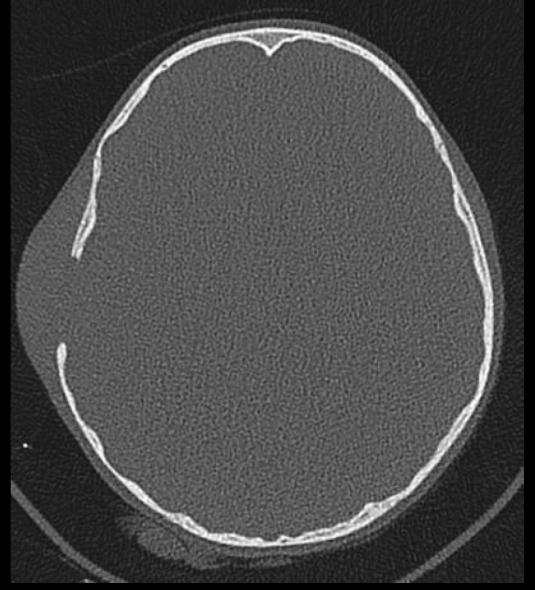


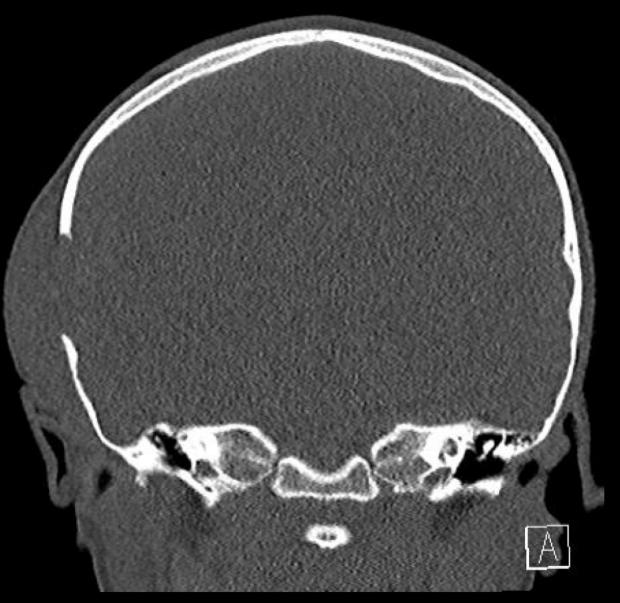
5 year old female with no PMH presents with progressively enlarging painful lump on the right side of her head. Parents noticed this lump in the past 3 weeks

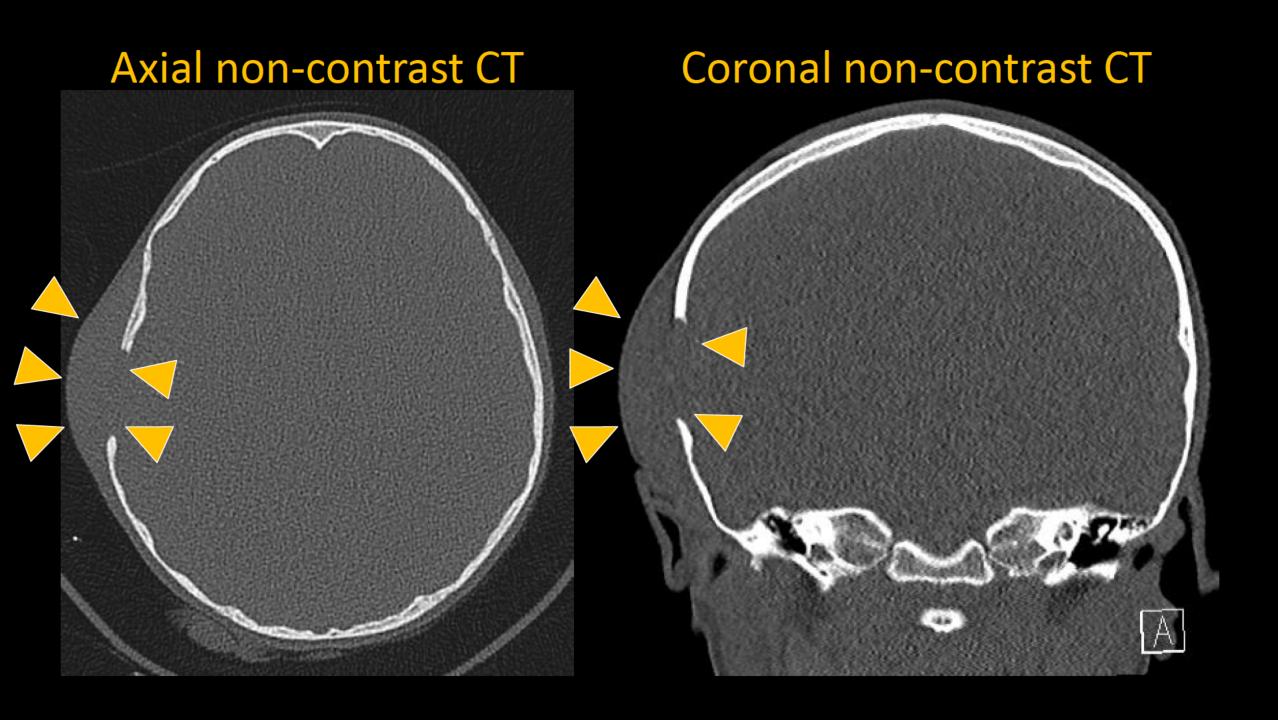




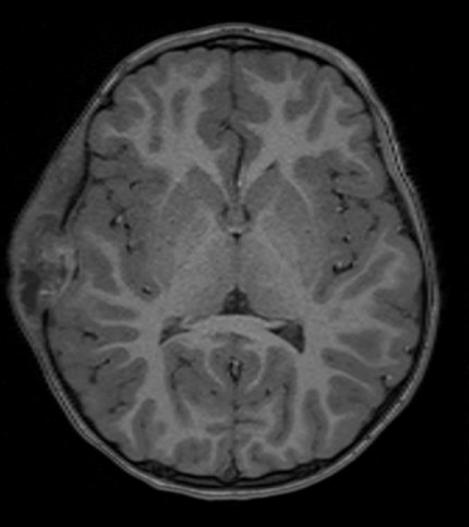
Coronal non-contrast CT

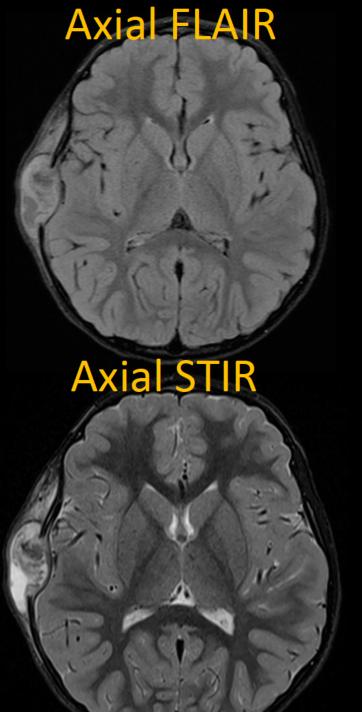




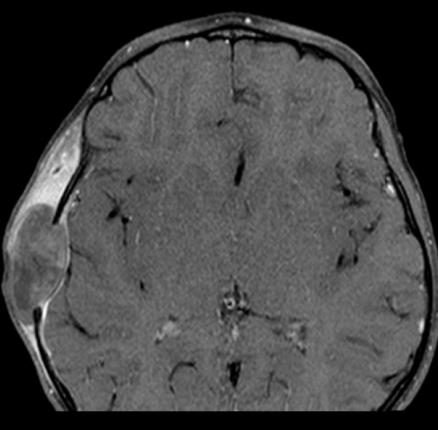


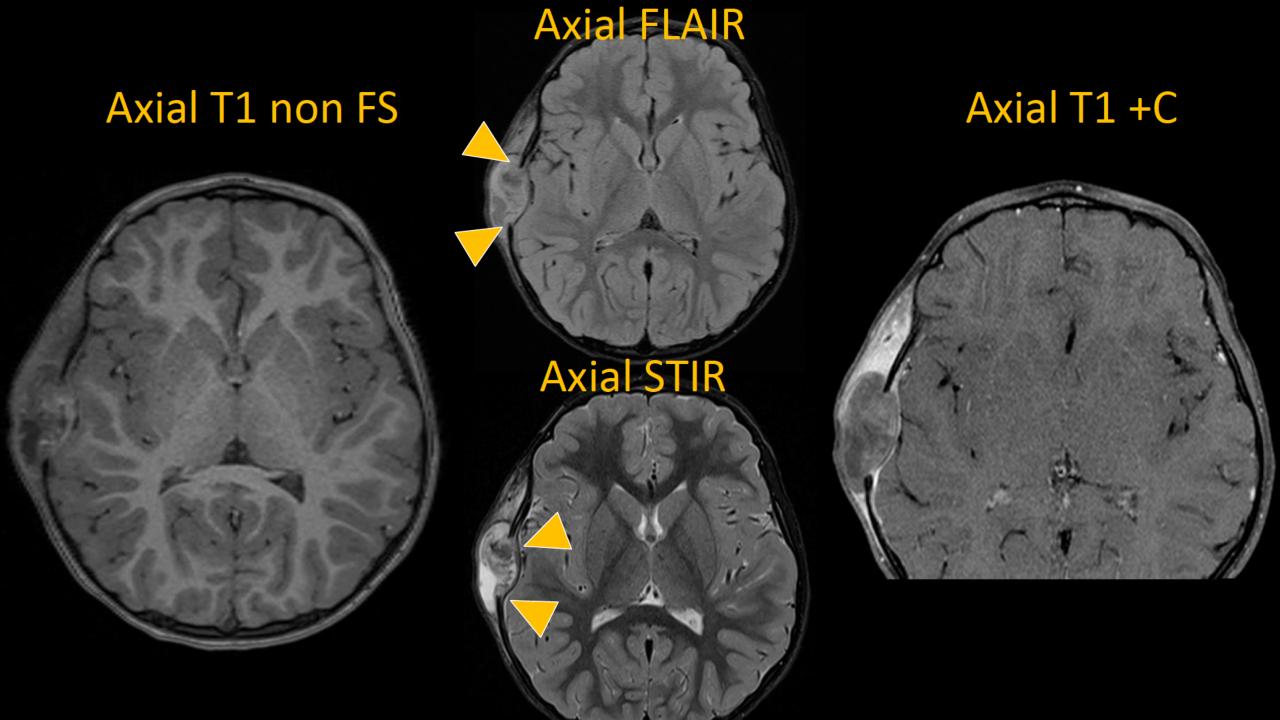
Axial T1 non FS

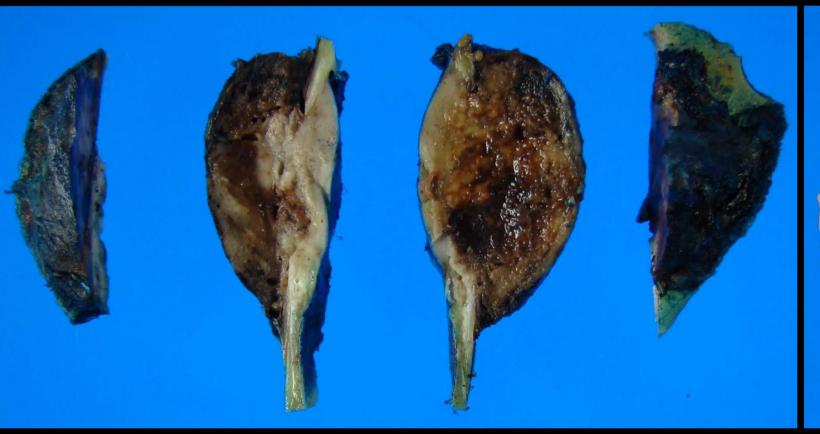




Axial T1 +C





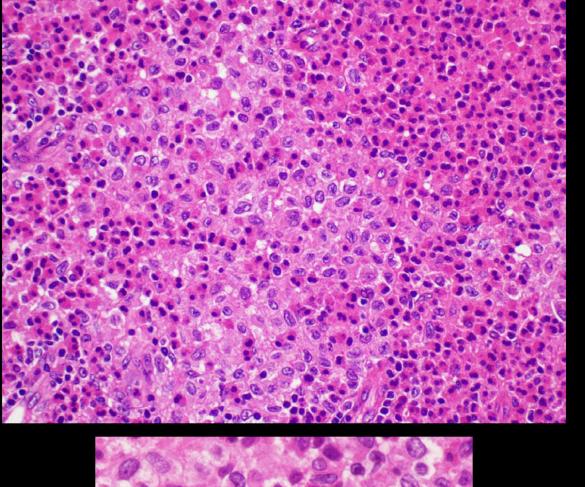


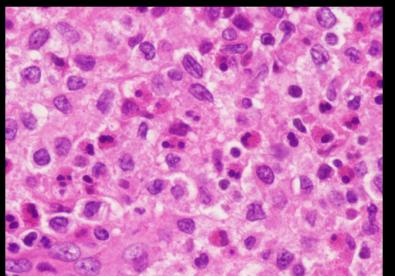


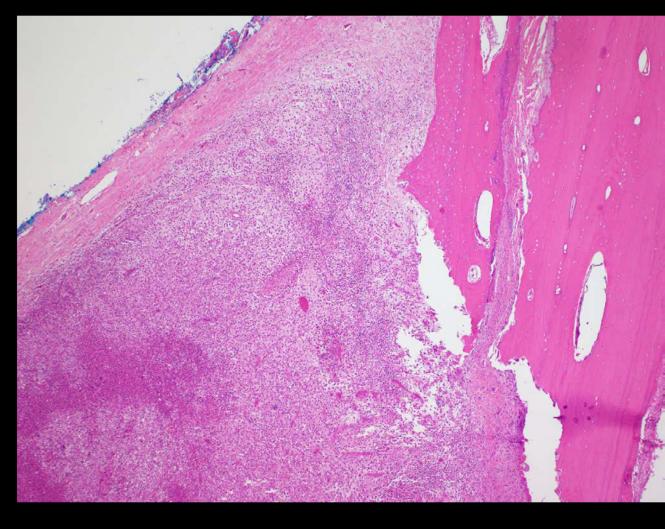
Interior surface

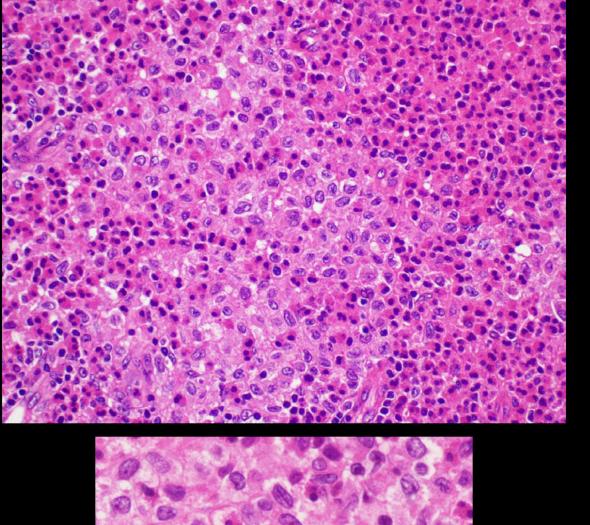


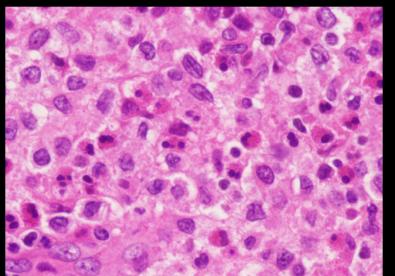


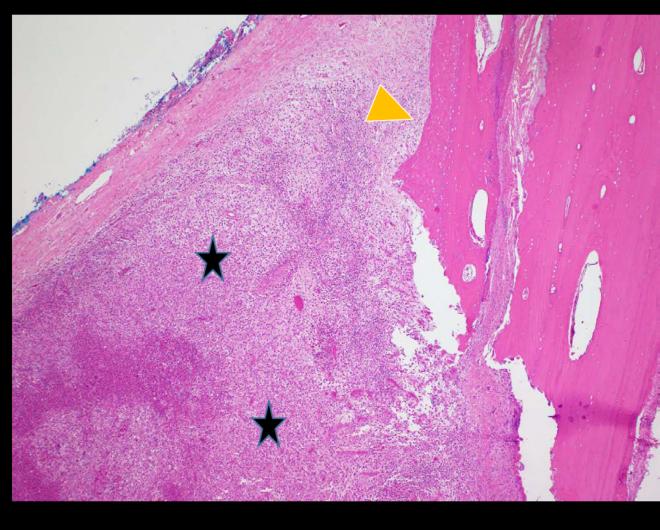


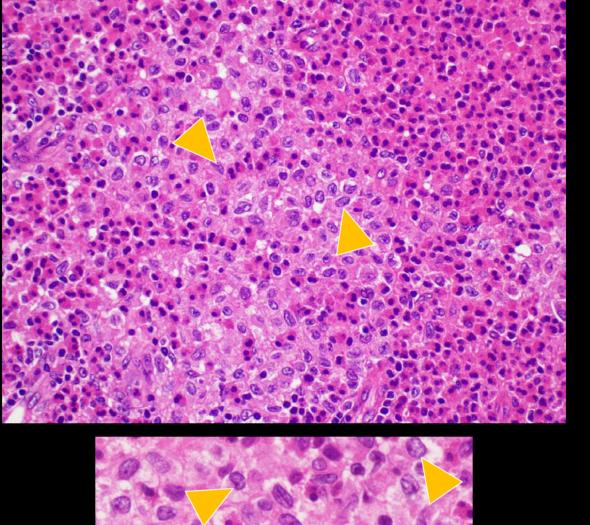


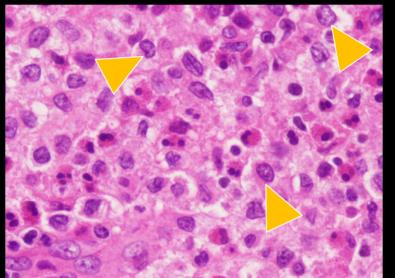


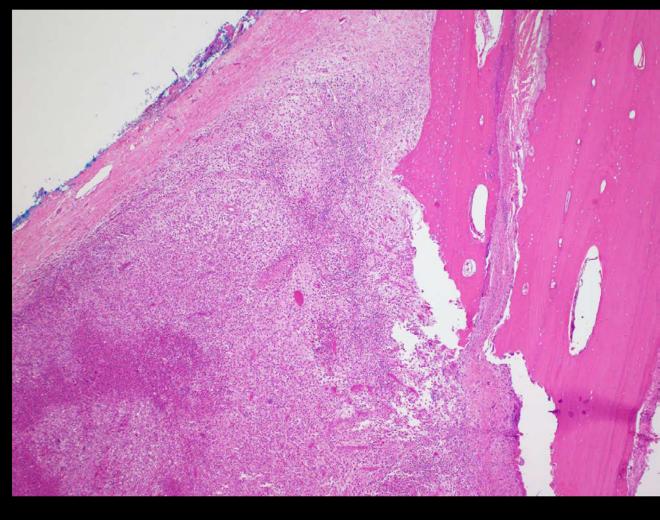


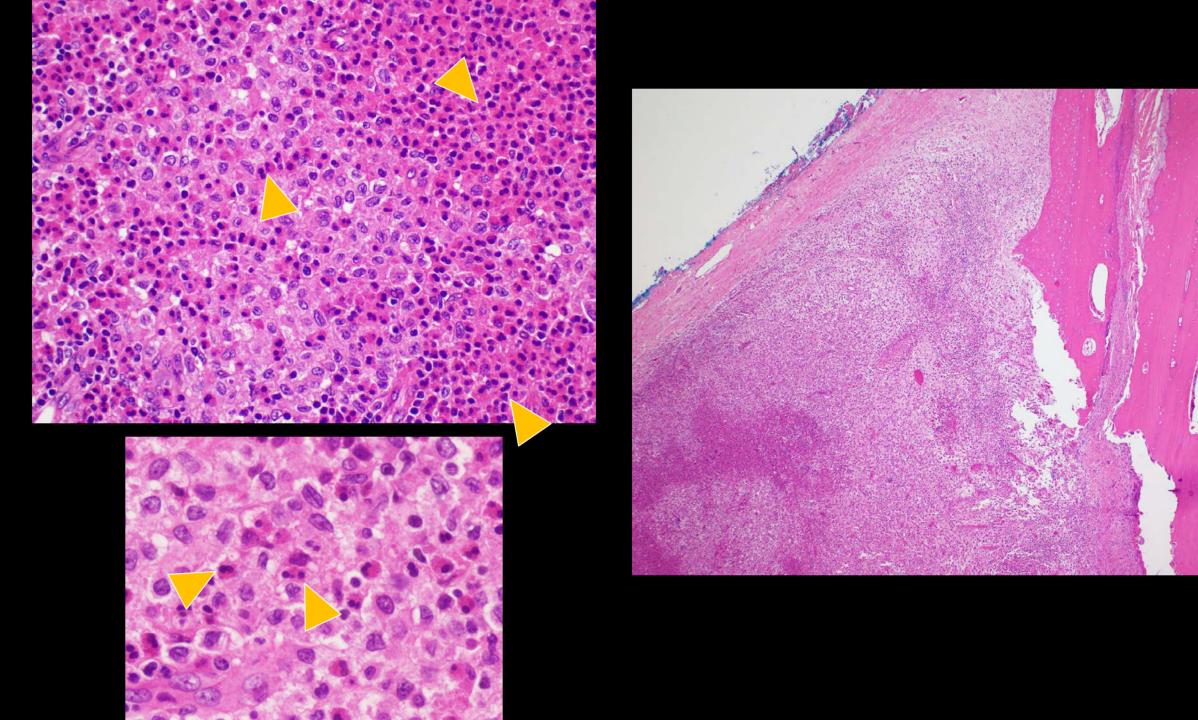












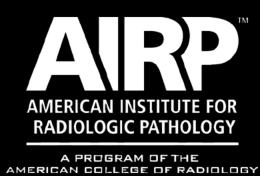
Langerhans Cell Histiocytosis of bone

Dr. Timothy Phelps
Baylor University Medical Center
Dallas, TX



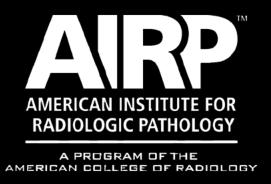
Gastrointestinal Best Case

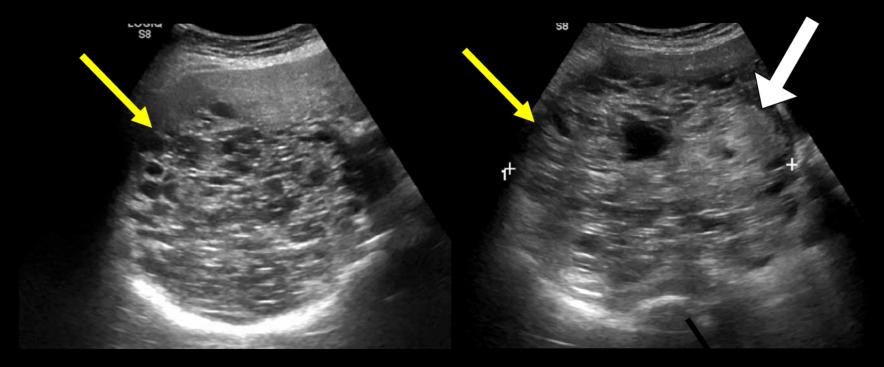


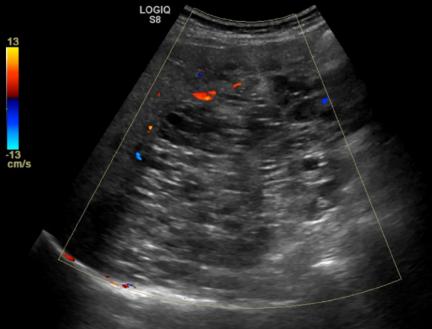


Clinical information

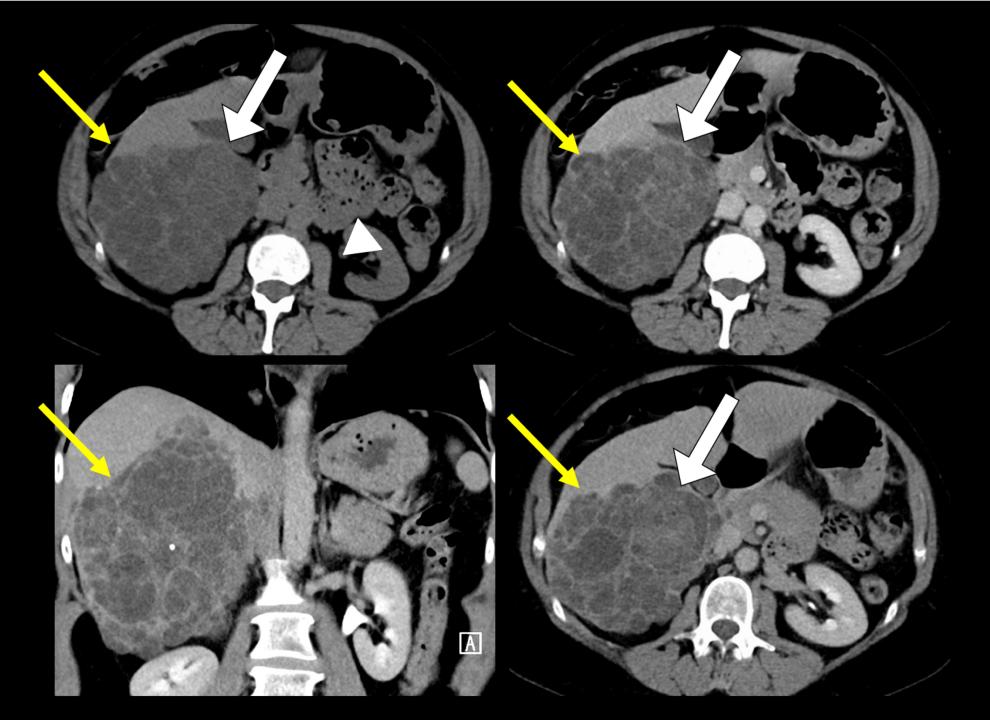
49 year old female incidentally found at have a complex cystic lesion of the liver on ultrasound when she presented with symptoms of diffuse nonspecific abdominal pain and bloating











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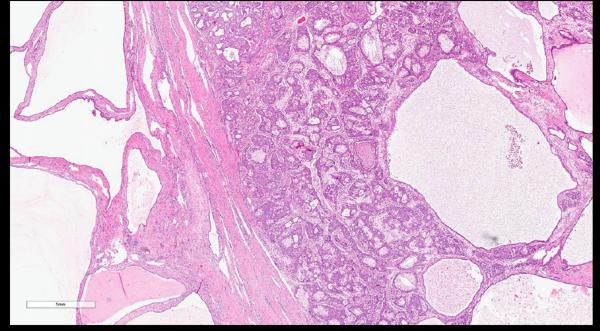


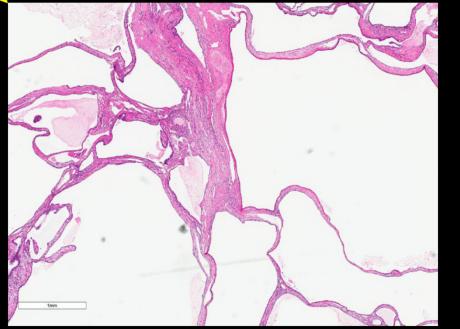


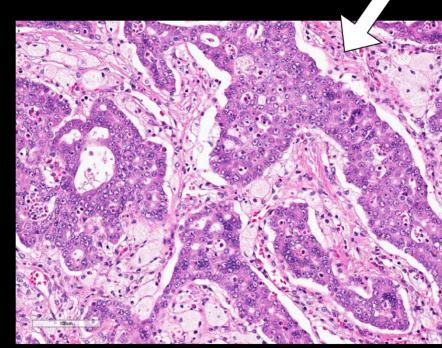


Immunohistochemistry:

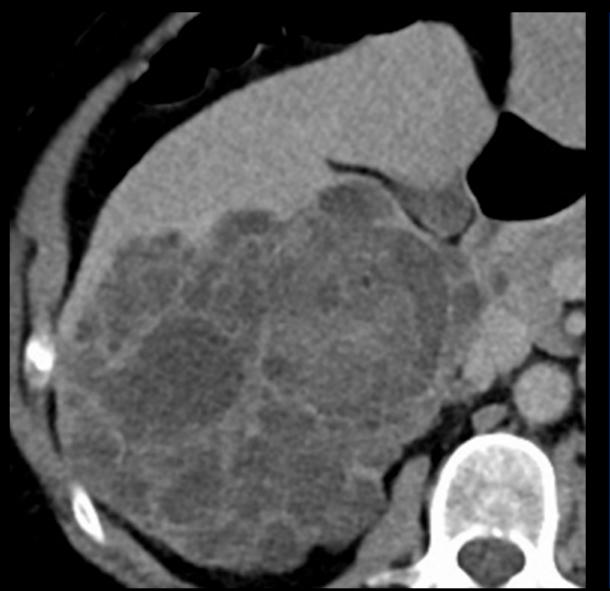
Epithelium (+) biliary origin Stroma (-) ER, PR, inhibin = not MCN





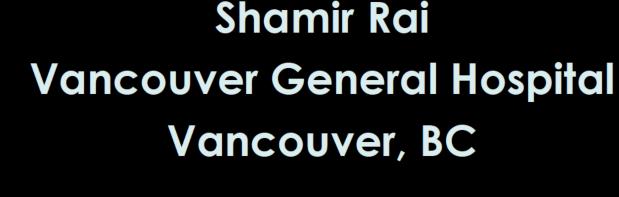


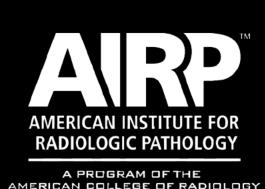






Biliary adenofibroma complicated by cholangiocarcinoma





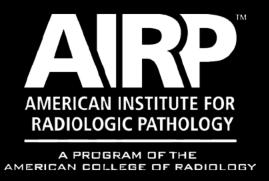
Neuroradiology Best Case

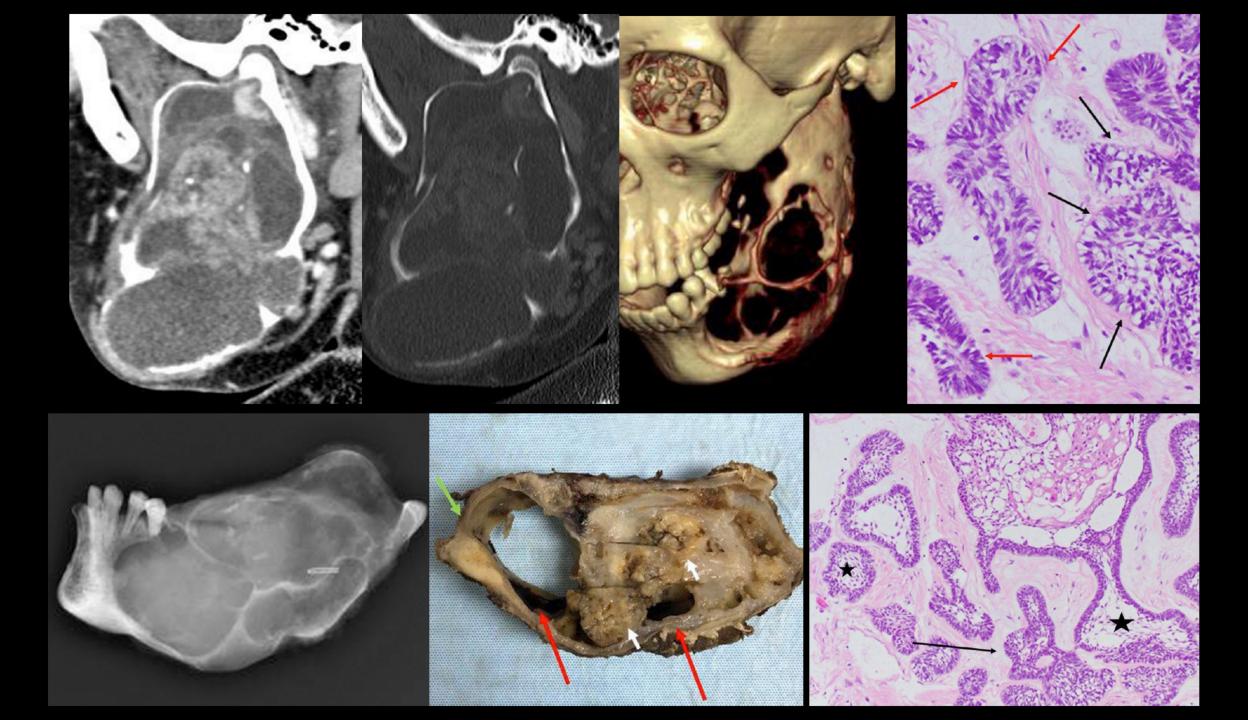




Clinical information

21-year-old female with progressive discomfort and swelling in left jaw region following tooth extraction 1 year earlier





Ameloblastoma

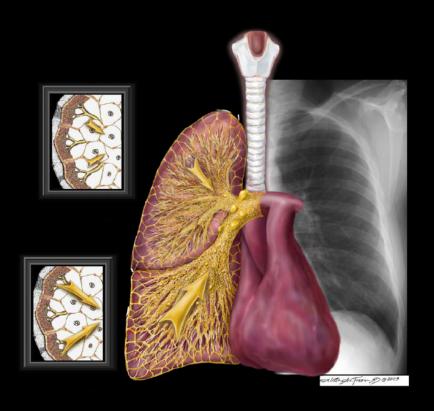
Michael Maggart, M.D.

Jackson Memorial Hospital

Miami, Florida



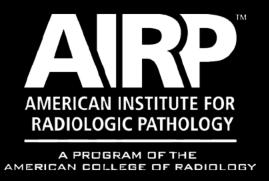
Pulmonary and Mediastinal Best Case





Clinical information

48 year-old-male with right-sided chest pain and progressive dyspnea over 3 days. A right sided pneumothorax was discovered.

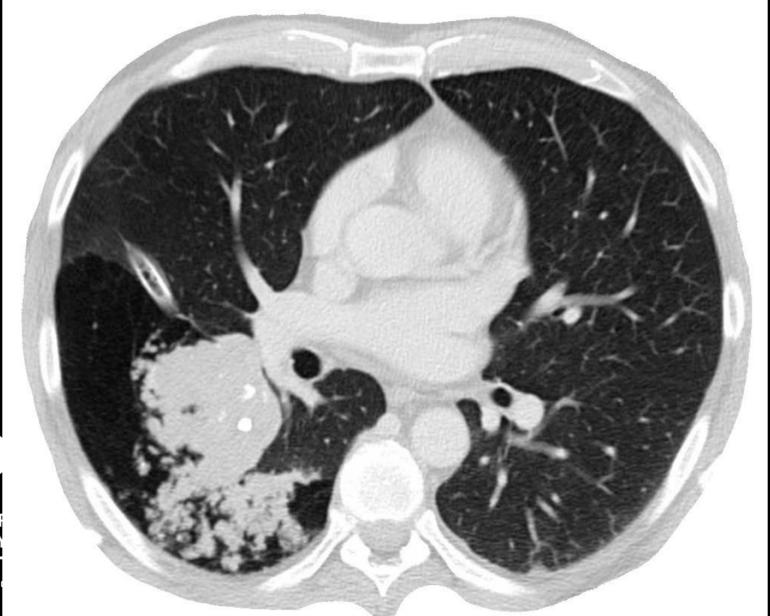


Pneumothorax and mass



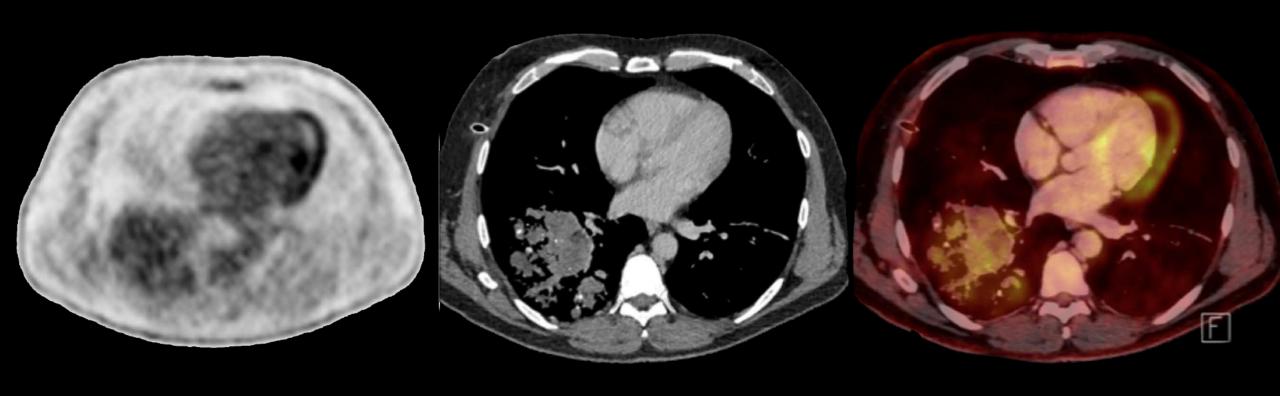
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Lung mass with calcification



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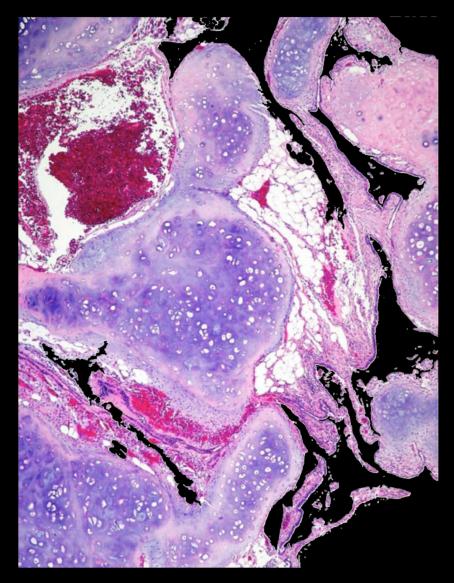
PET uptake similar to blood pool





Hamatoma: cartilage, fat and respiratory epithelium





Hamartoma

Javier Cacho, MD

Clinica Alemana De Santiago Universidad Del Desarrollo Santiago, Chile



Cardiovascular Best Case





51 year old female with progressive dyspnea.



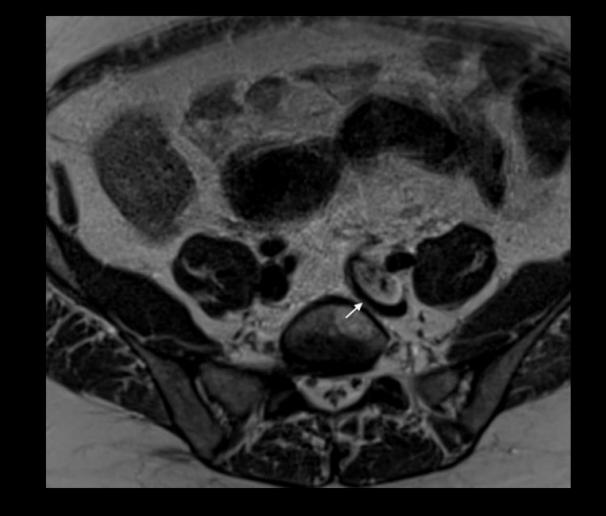


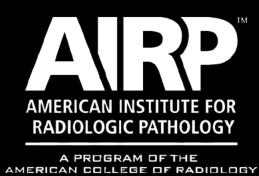
Chest CT angiography shows saddle pulmonary embolism.

CT also shows an elongated and partly enhancing intravascular soft tissue mass filling the IVC and left iliac vein (arrows).



MRI (T2 blade sequence) shows mixed signal intensity within the left common iliac vein filling defect (arrow), compatible with internal vascularity. This feature argues against bland thrombus.

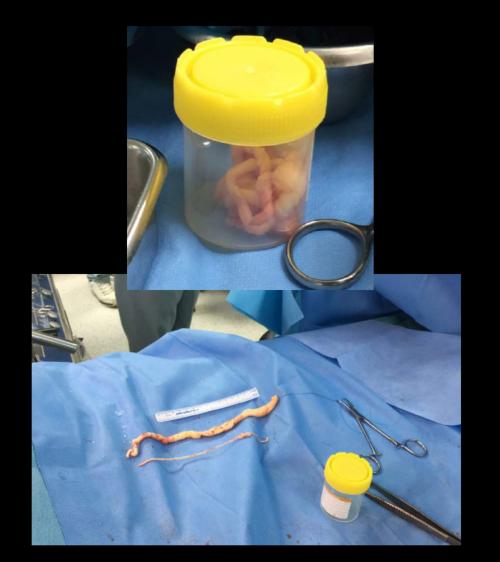




OPERATING ROOM PHOTOGRAPHY:

Elongated IVC intravascular tumor resected, only partly adherent to luminal wall.

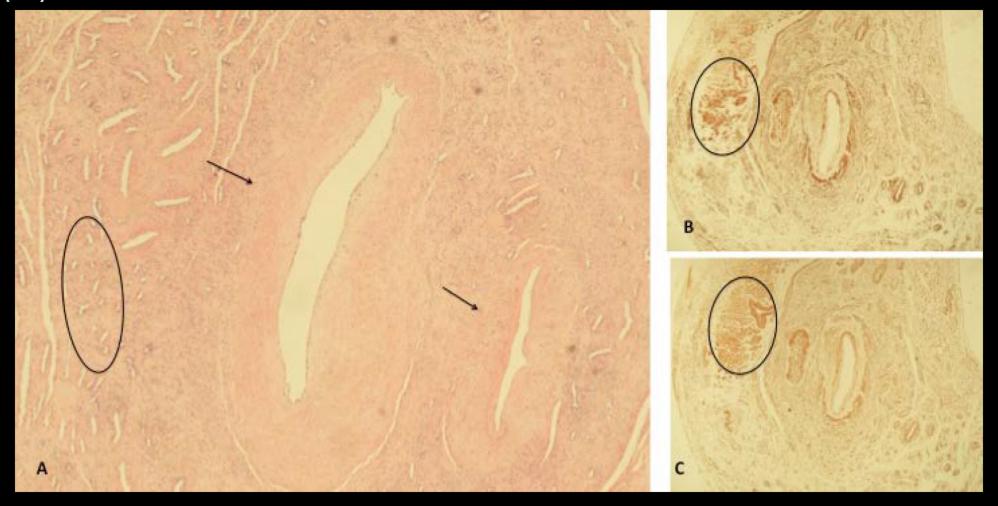






Photomicroscopy (LEFT) shows partly adherent intravascular tumor (arrows) and smooth muscle cell proliferation (oval).

Immunohistochemistry (RIGHT) shows tumor cells stain positive for desmin (B) and actin (C).



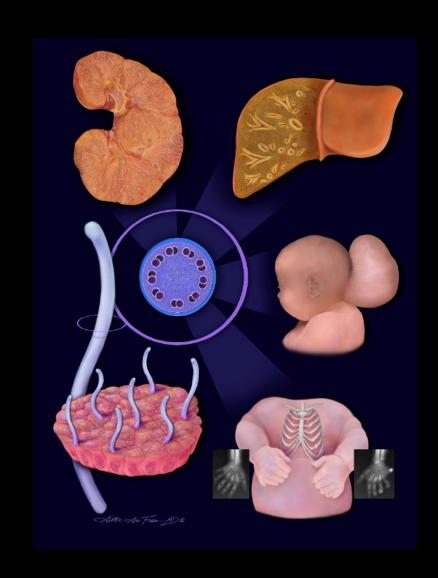
IVC leiomyomatosis, with fragments filling the pulmonary arteries

Alexandra Murphy, MD
The Mater Misericordiae University Hospital
Dublin, Ireland



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Pediatric Best Case

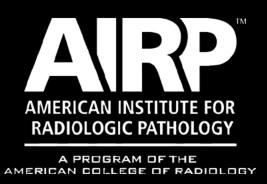


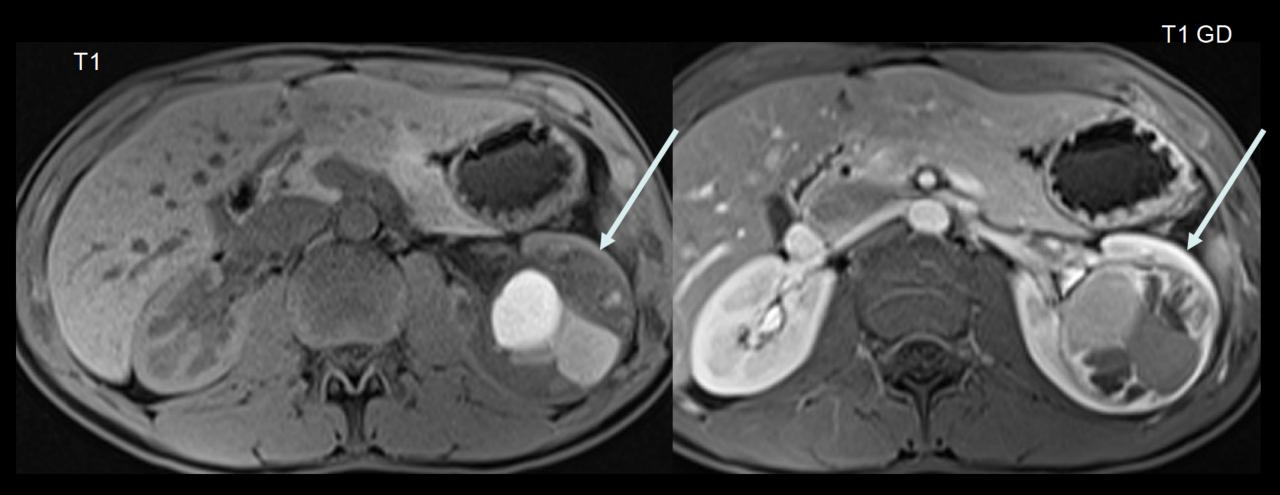


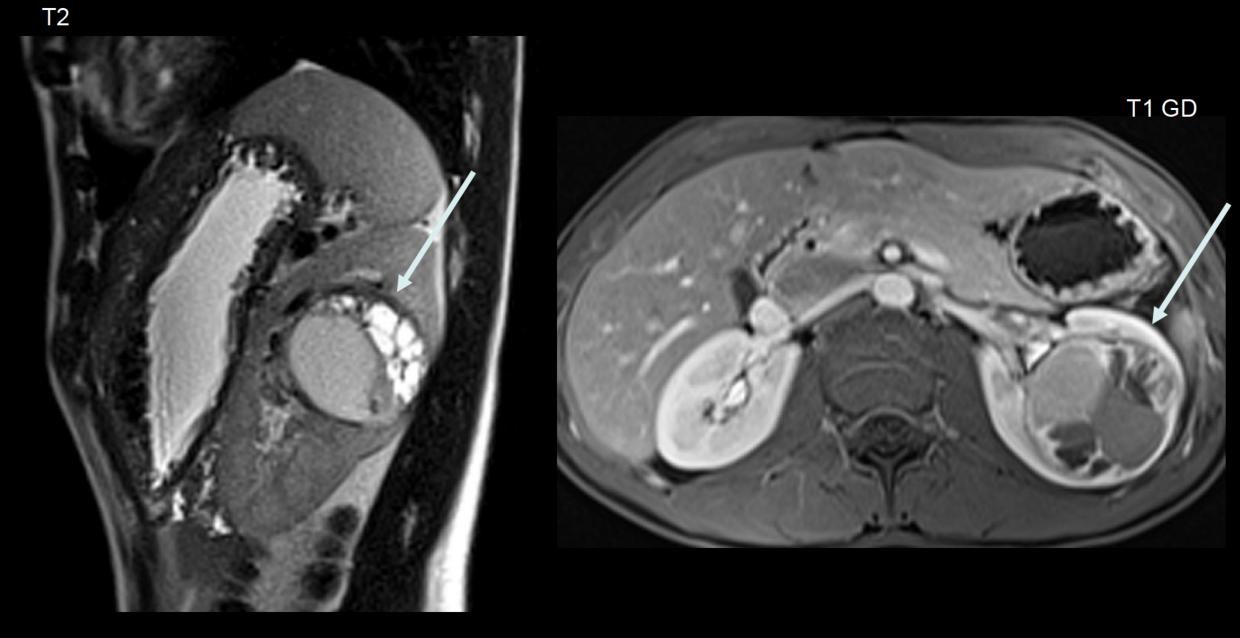
AMERICAN COLLEGE OF RADIOLOGY

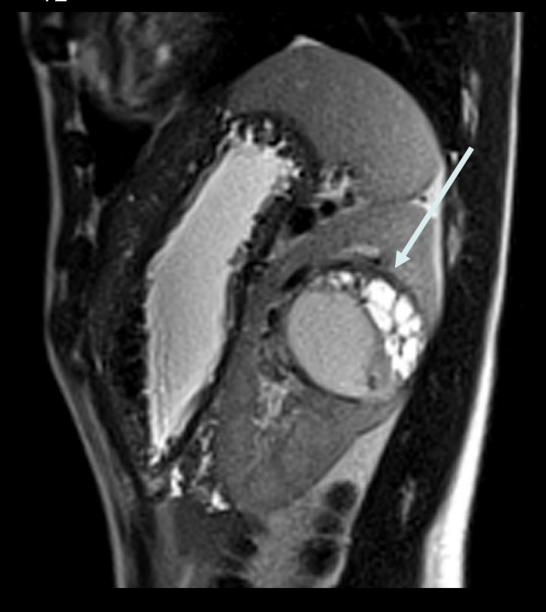
Clinical information

14-year-old male with no significant past medical history presented with 2 month history of abdominal pain, nausea, headaches and fatigue. He has had a 7 pound weight loss over the last month.

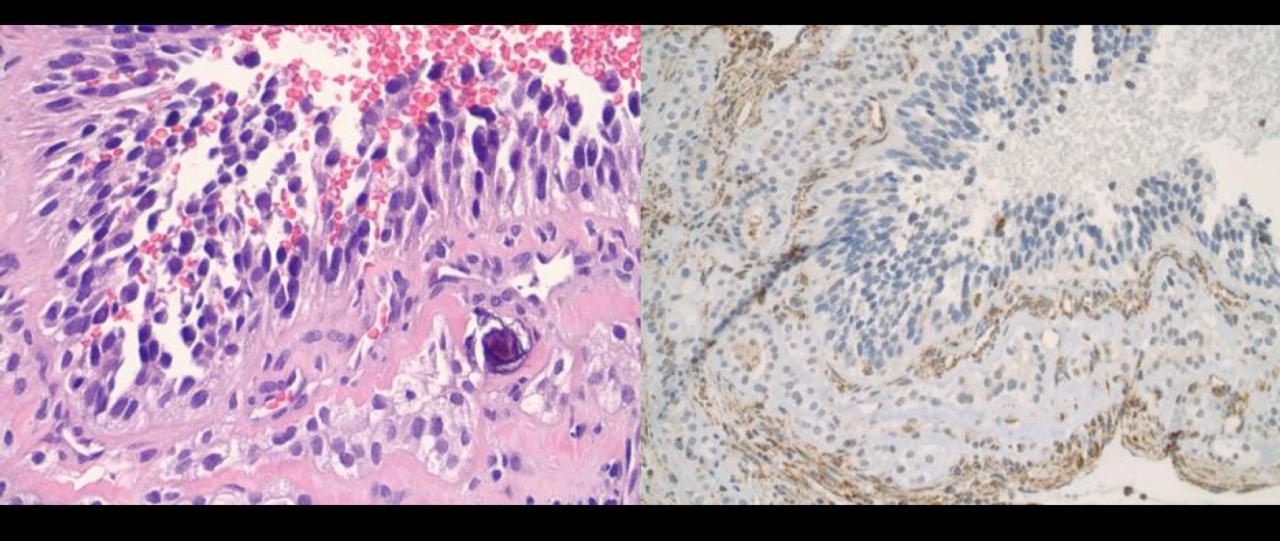




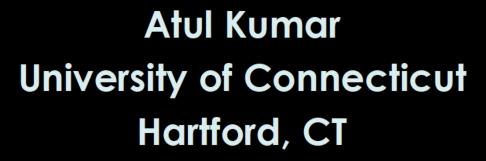






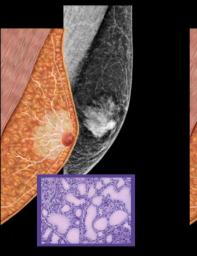


Succinate Dehydrogenase Deficient Renal Cell Carcinoma

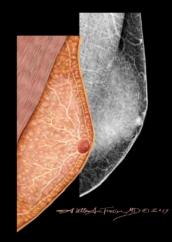




Breast Best Case





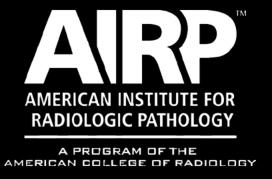




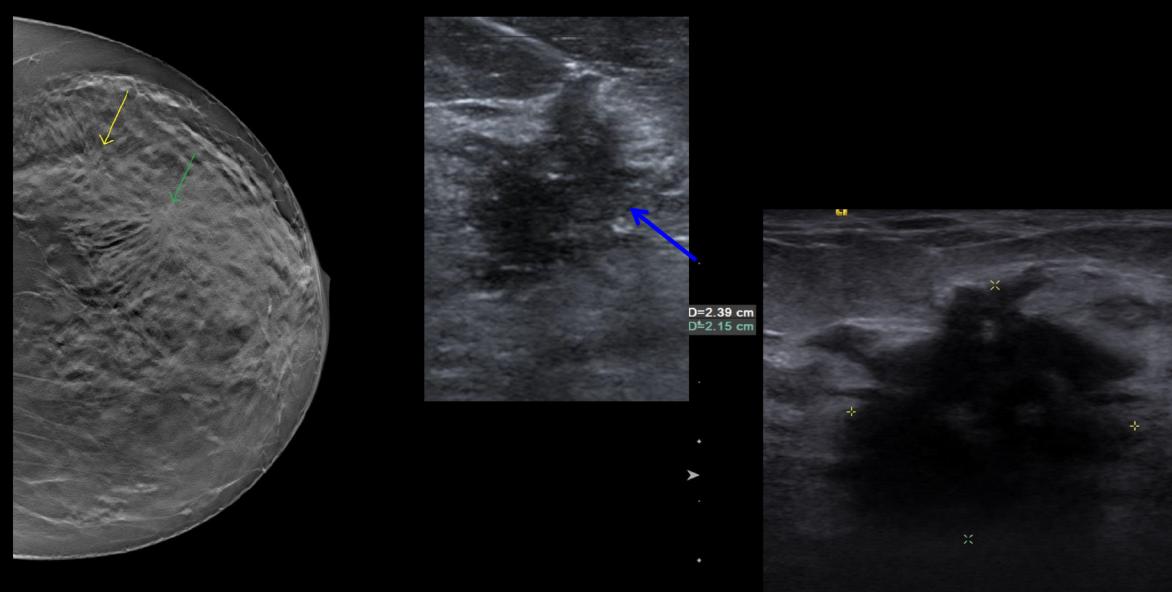
AMERICAN COLLEGE OF RADIOLOGY

Clinical Information

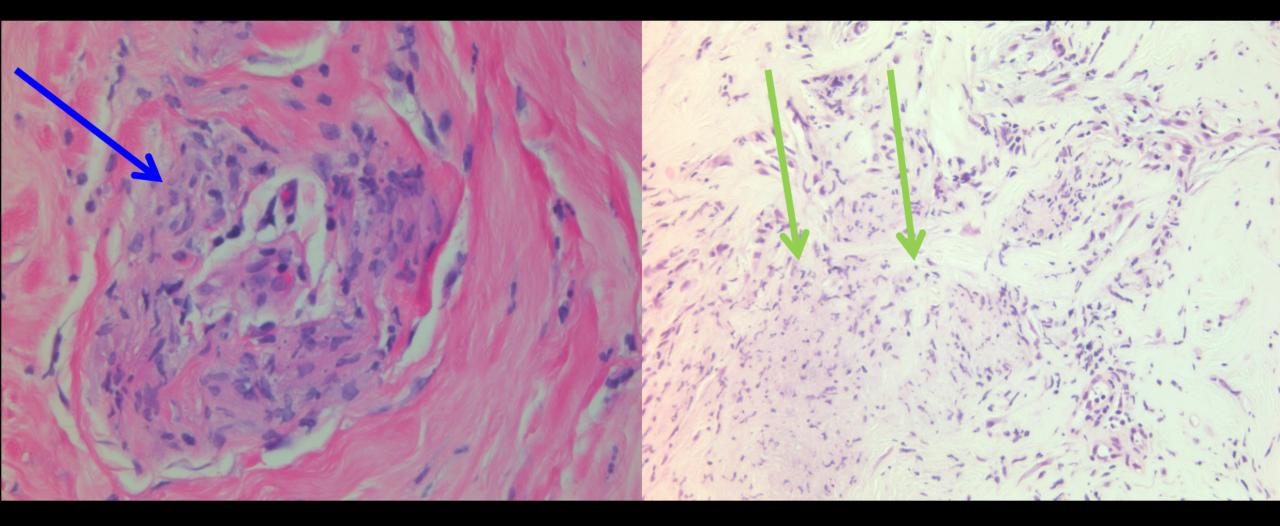
45-year-old female presented for routine mammogram for breast cancer screening



Mammogram and US



Histology



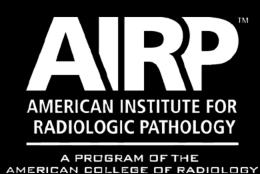
Granulomatosis with Polyangiitis (GPA)("Wegeners")





Genitourinary Best Case





Clinical Information

31 year old with multiple prior cesarean sections presents with vaginal bleeding during the 2nd trimester of her current pregnancy





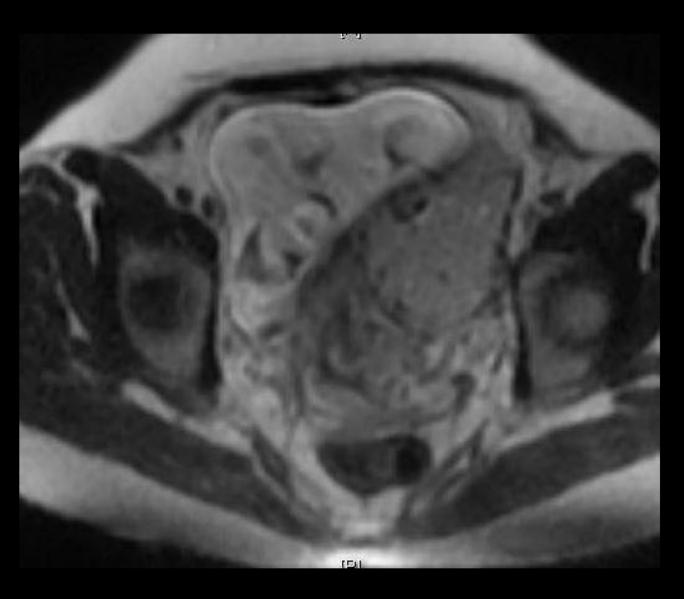






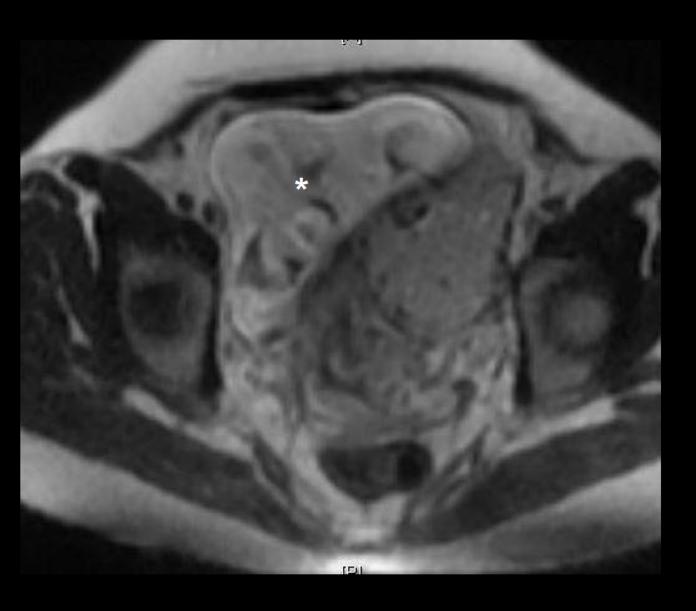




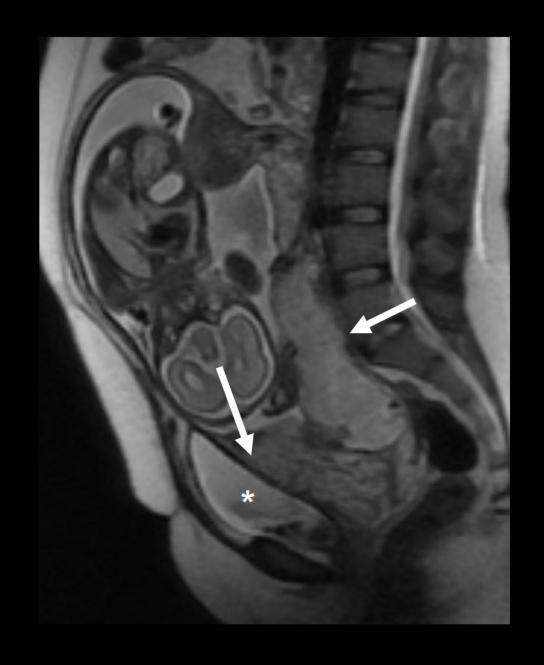


Sagittal T2 Axial T2





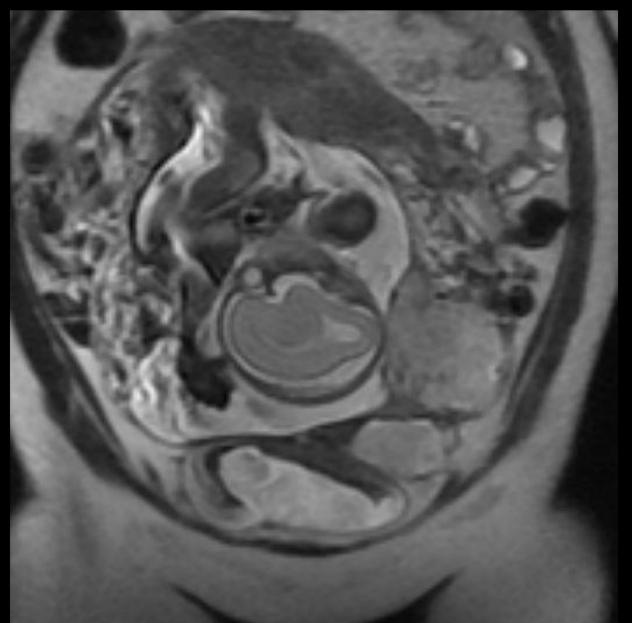
Sagittal T2 Axial T2



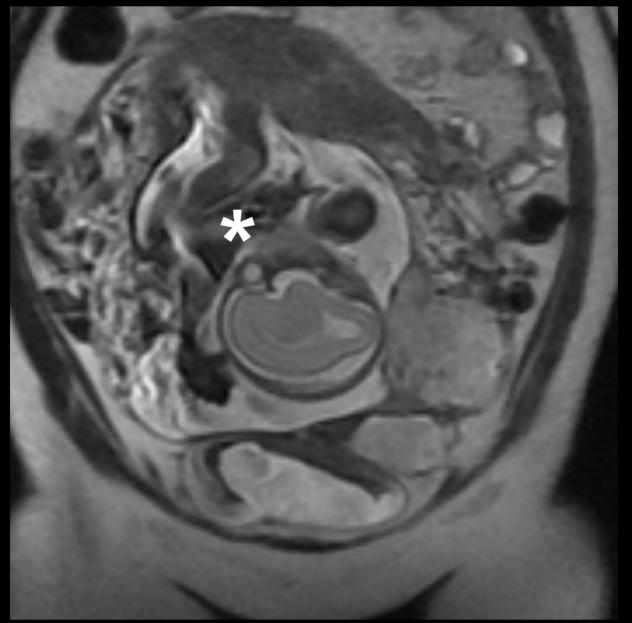


Sagittal T2 Axial T2

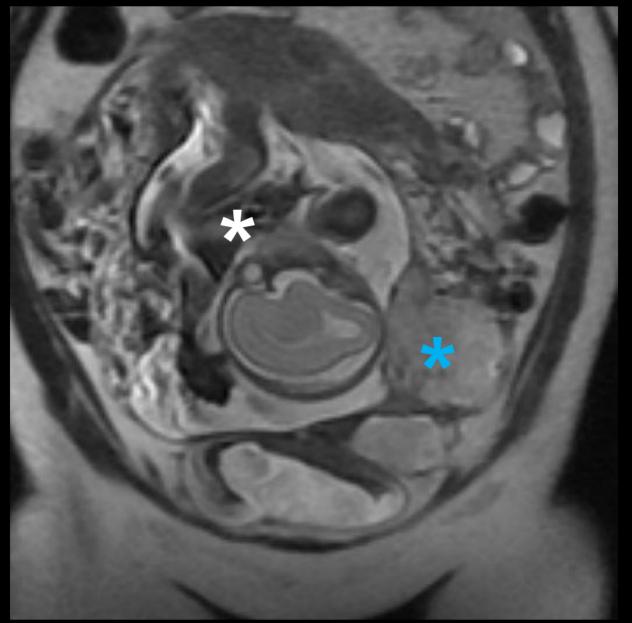






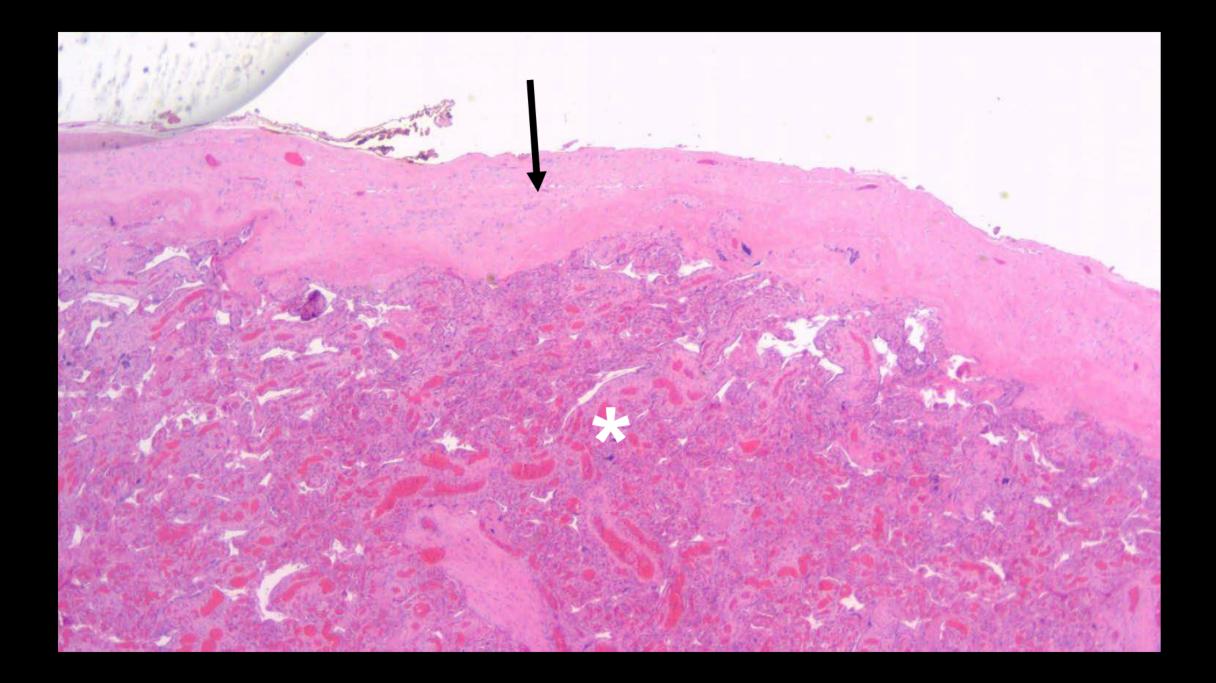












Placenta Percreta

Steffen Haider, MD
New York-Presbyterian-Columbia
New York, NY

