

Best Cases of the AIRP

July 22 – August 16, 2013



Musculoskeletal Best Case



78 year old male with prior total hip arthroplasty in 1988. Patient now presents with 2-3 months of worsening right hip pain/weakness and urinary frequency





Preop Radiograph



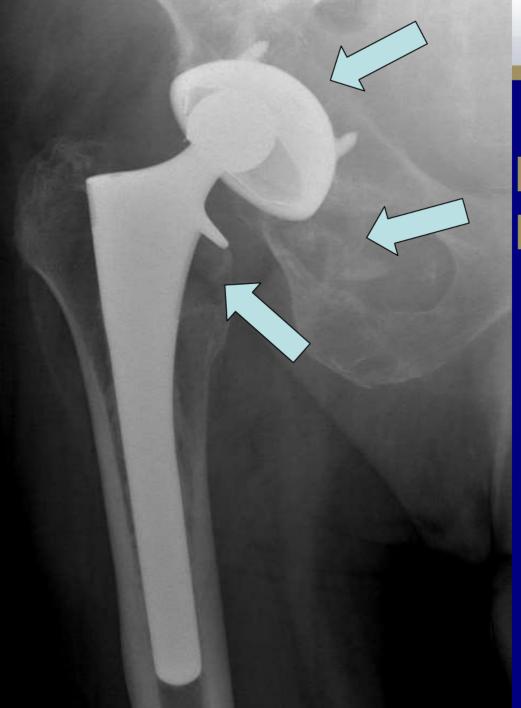
Preop Radiograph





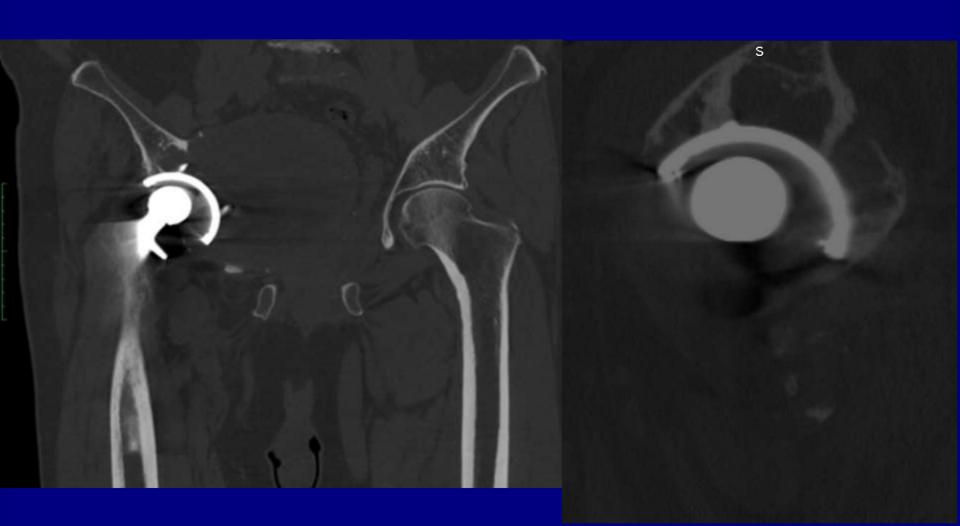
Preop Radiograph



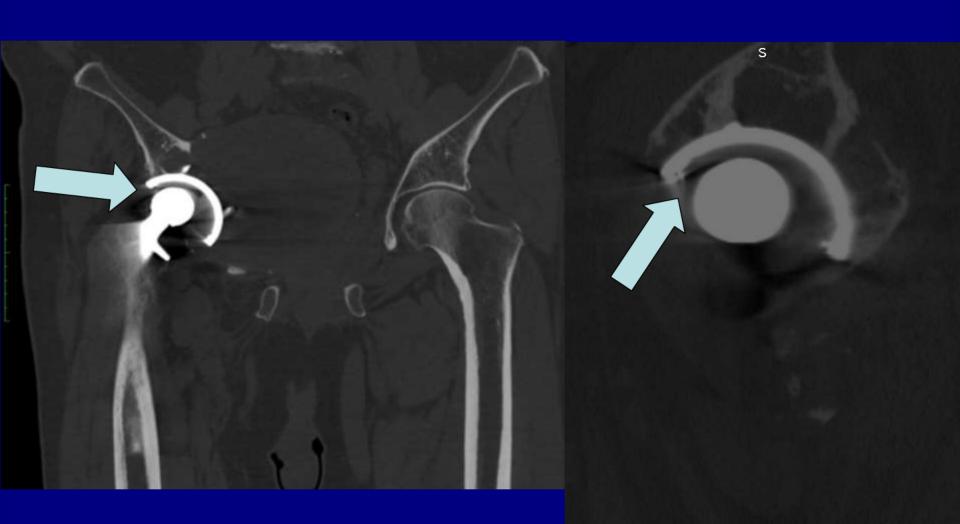


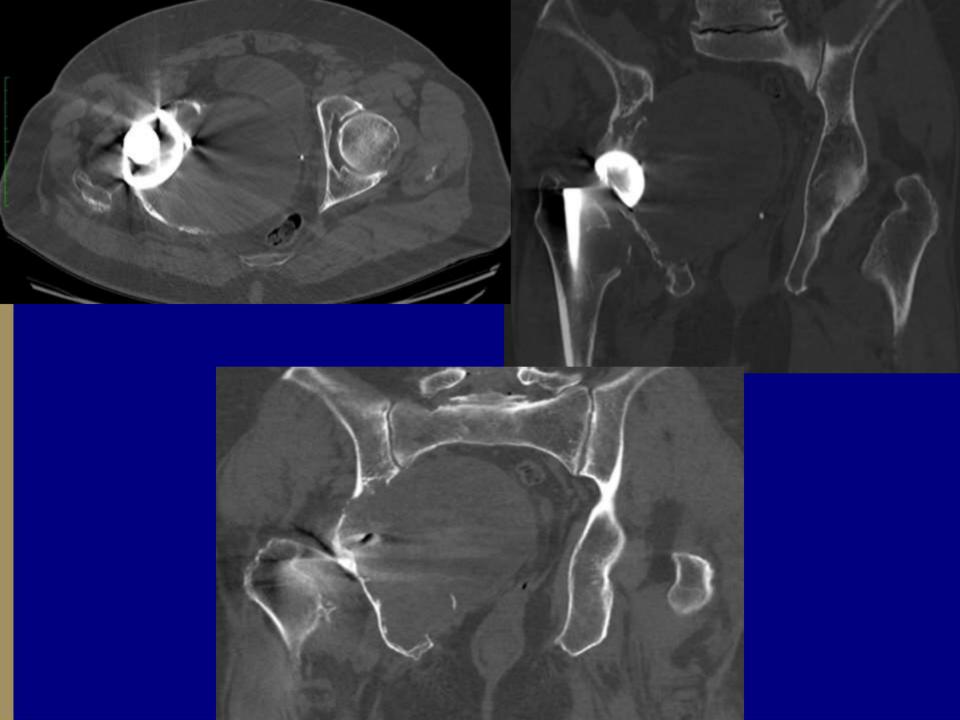
Preop Radiograph

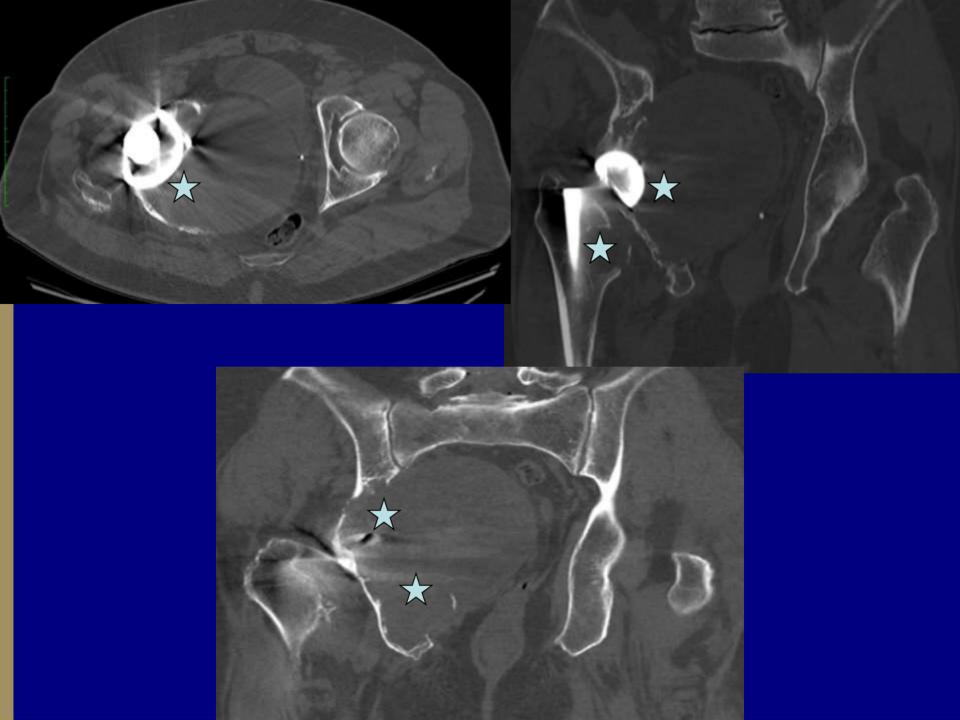


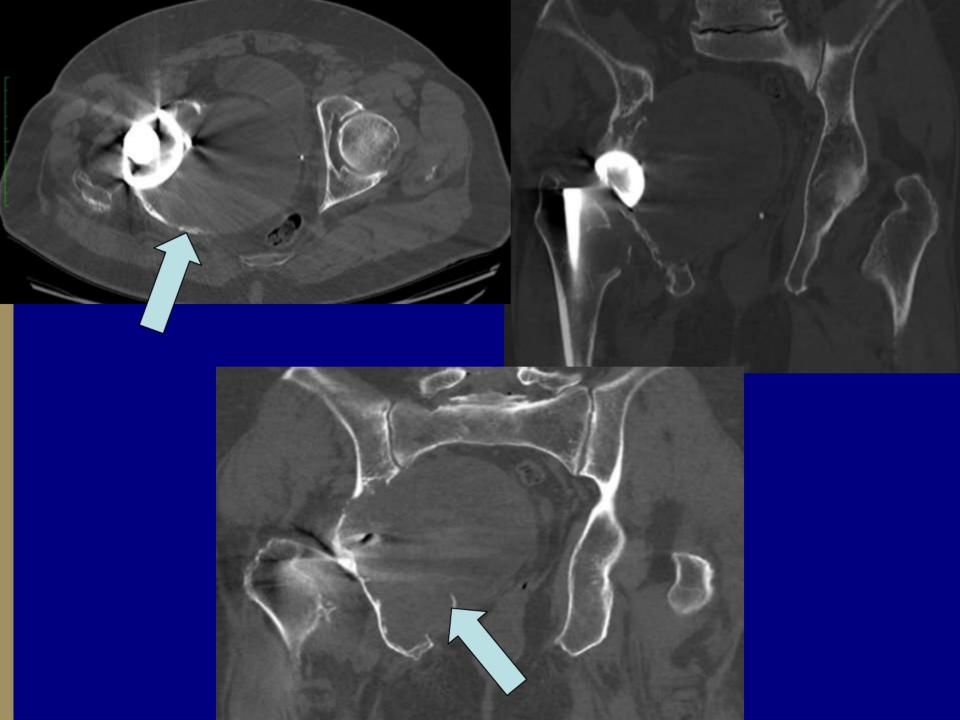


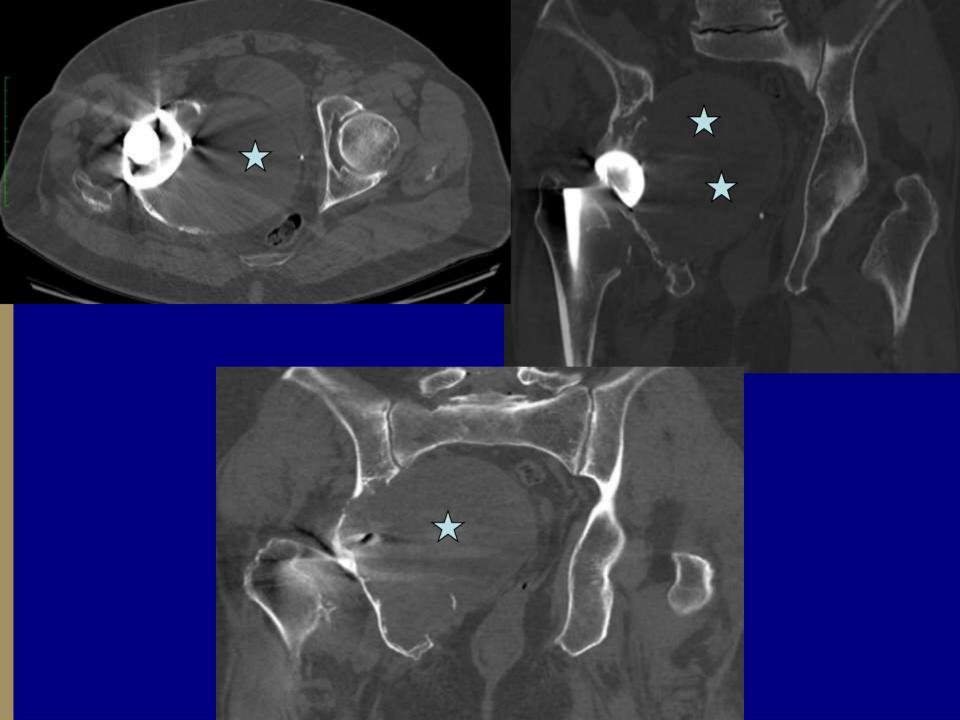




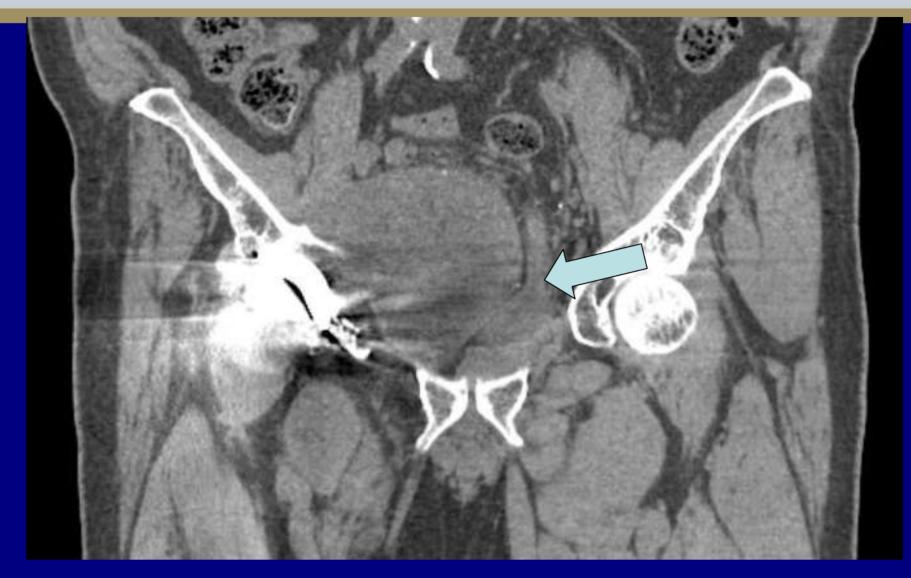












Bladder Compression



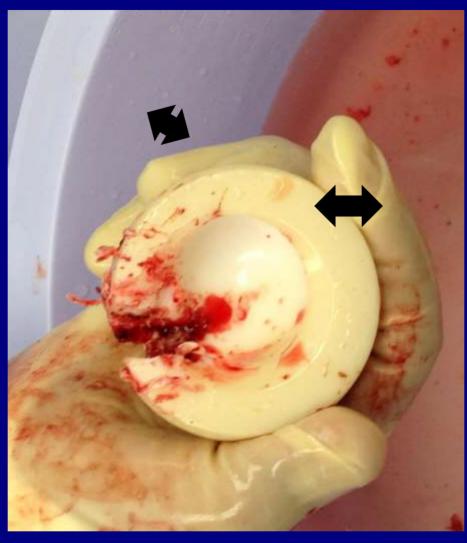


Fluid Aspirate



Polyethylene Liner





Fluid Aspirate



Polyethylene Liner

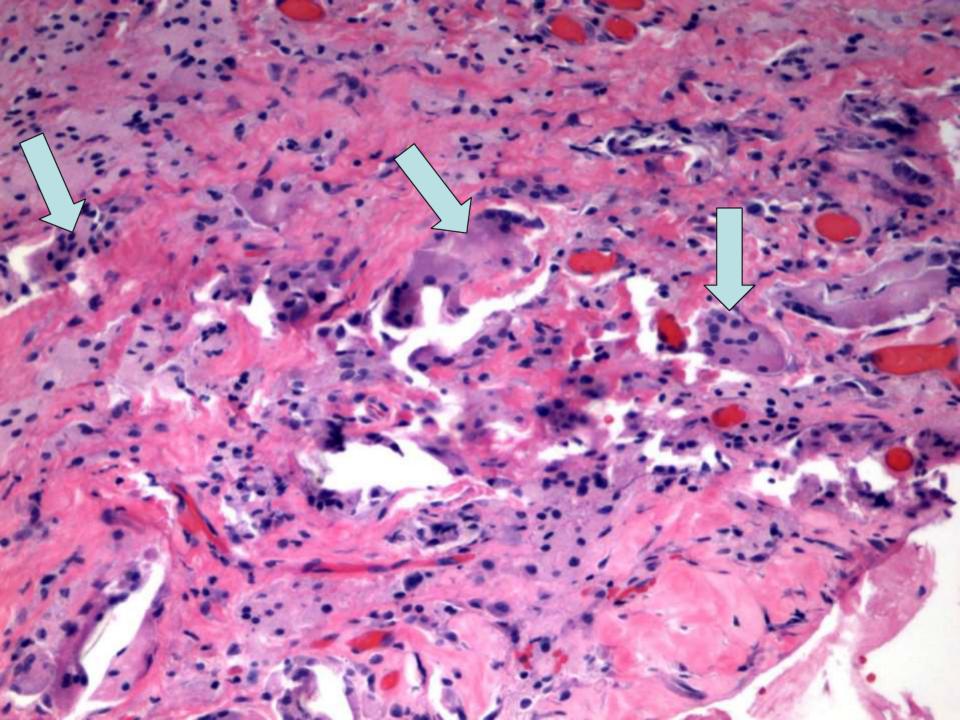


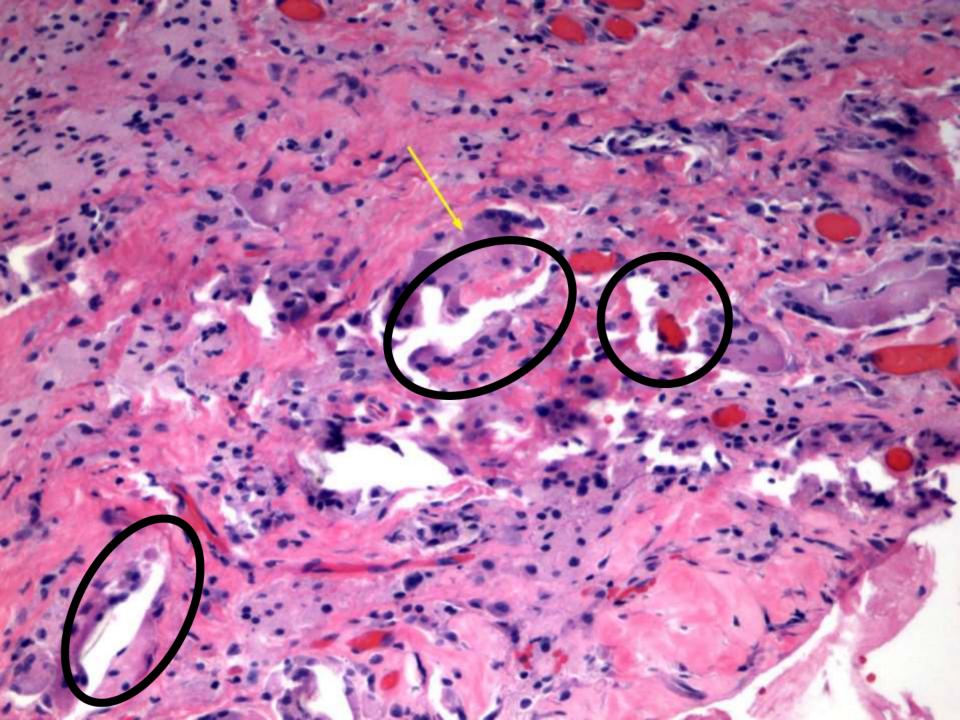


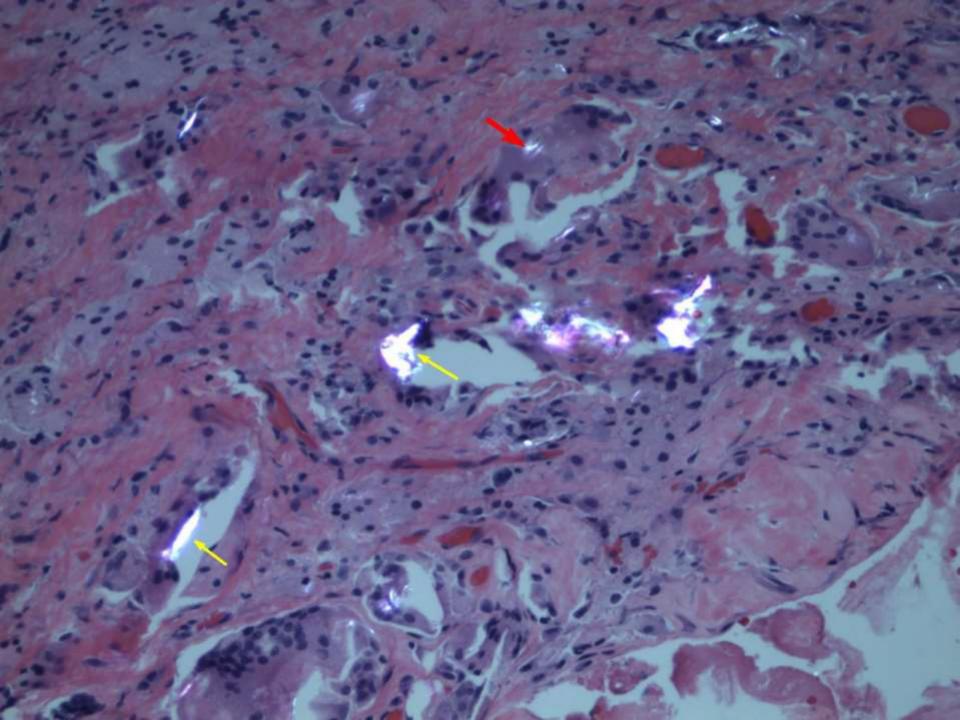
Fluid Aspirate

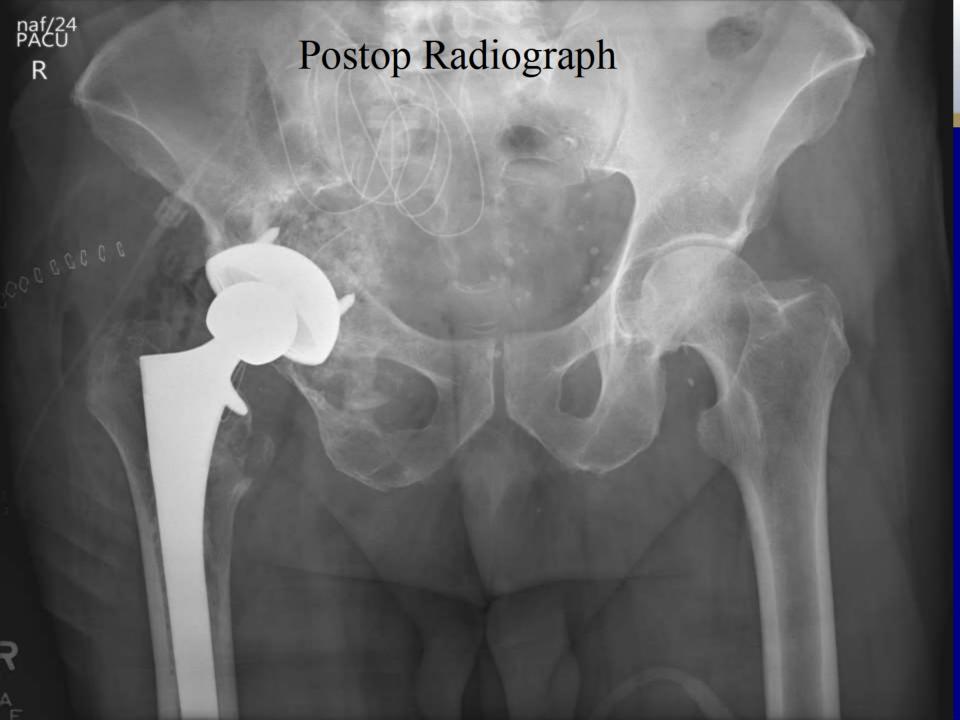


Polyethylene Liner











Small Particle Disease/Osteolysis

Jacob Harter, MD Stanford University Palo Alto, CA

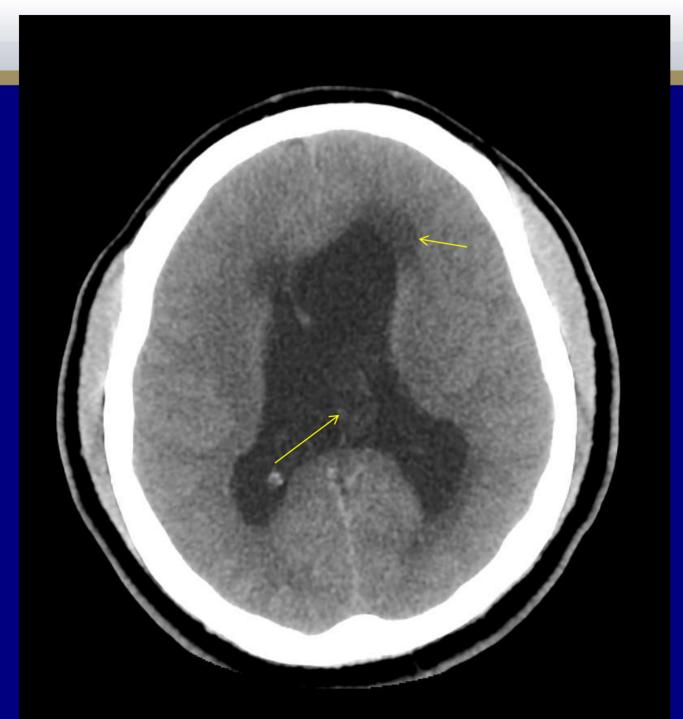


Neuroradiology Best Case



45-year-old man with no significant past medical history, presenting with 1 week of worsening headache and cognitive dysfunction

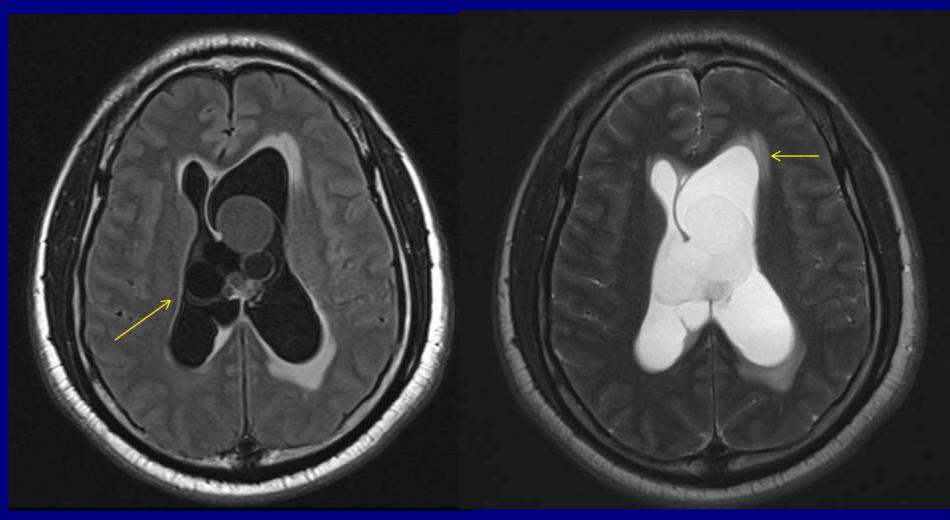




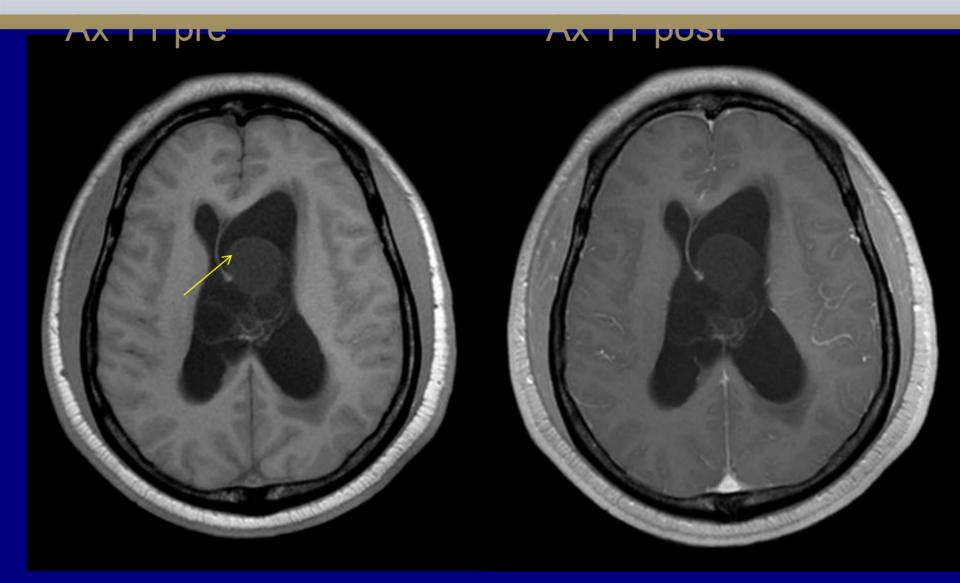


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Neurocysticercosis

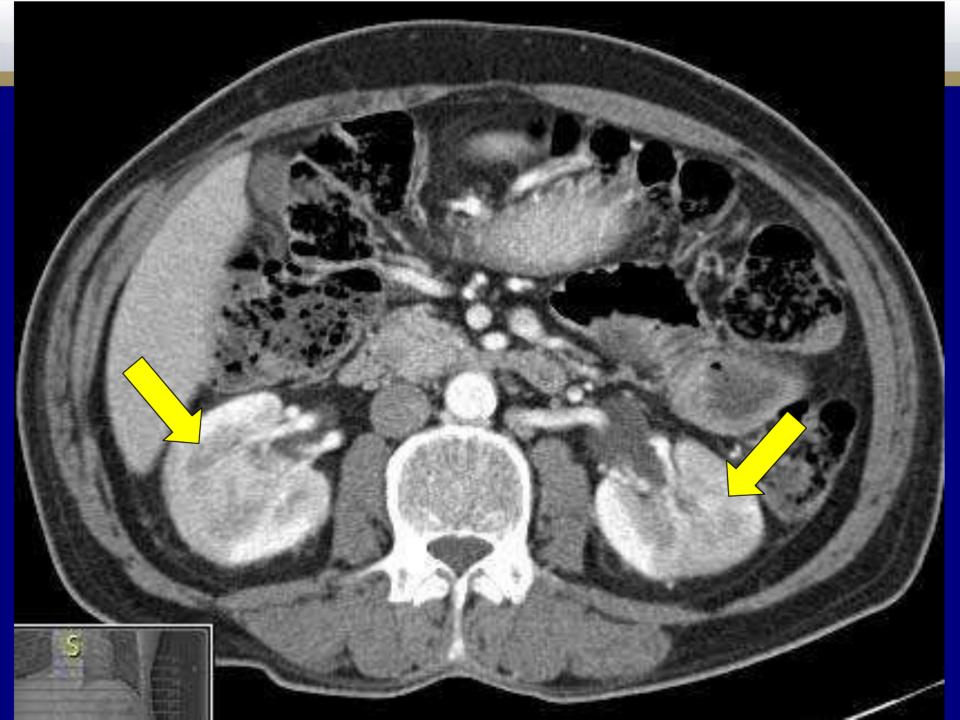
Jordan LeGout, MD University of Florida Gainesville, Florida

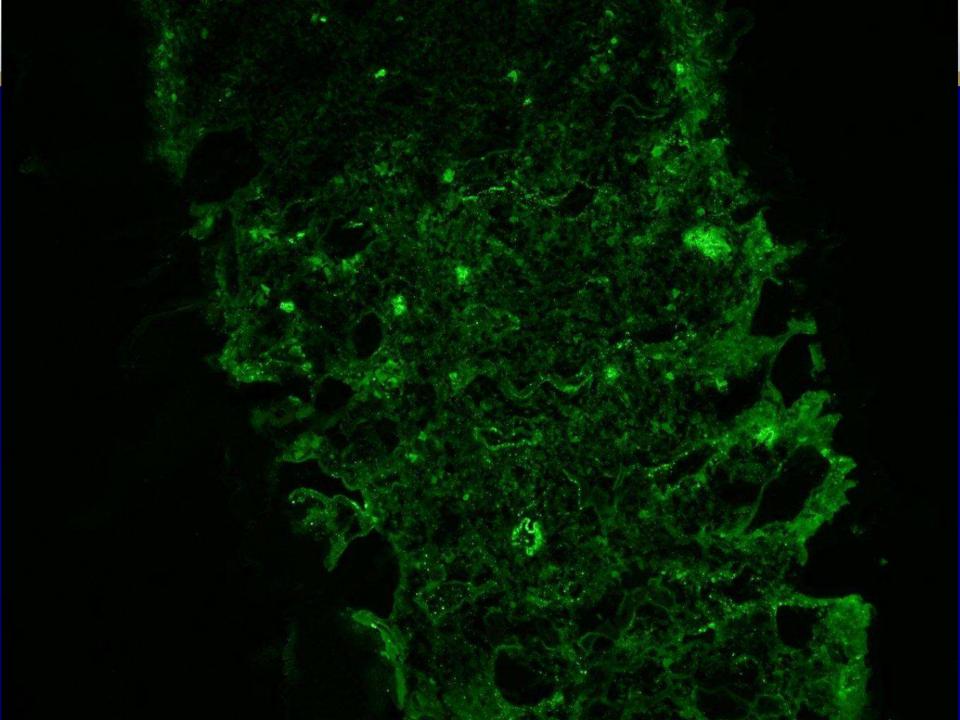


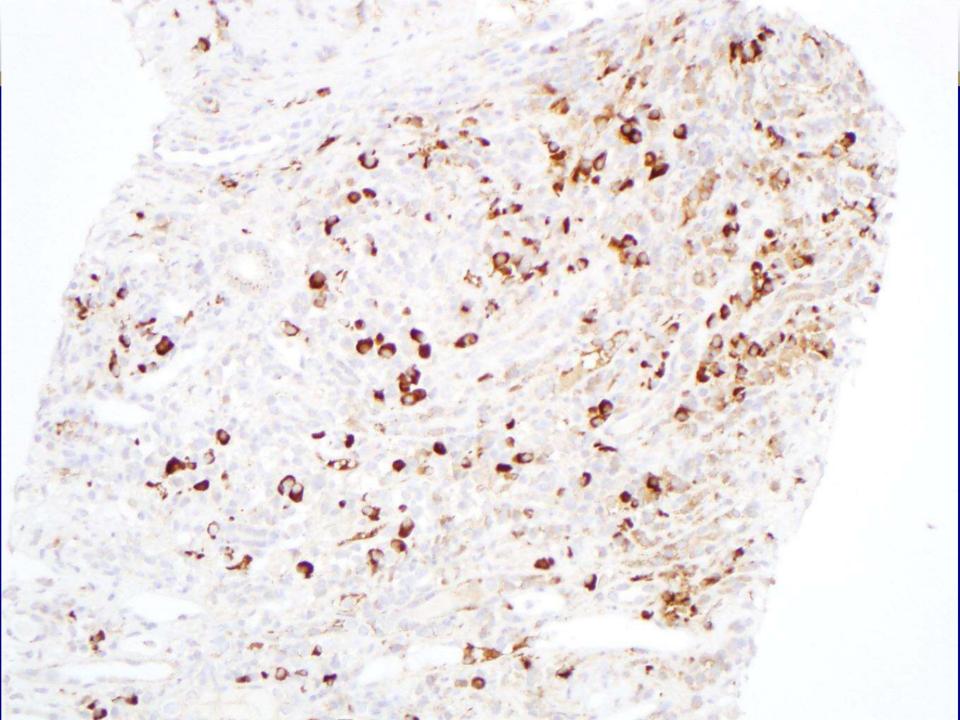
Genitourinary Best Case

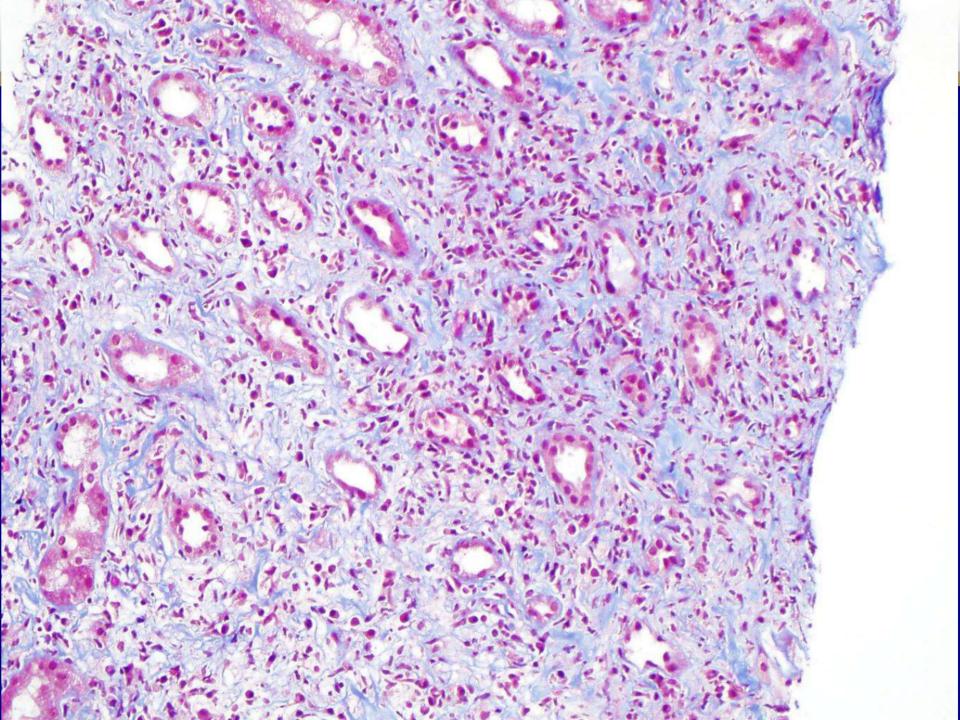


66-year-old man with epigastric pain and history of mild pancreatitis 6 months ago









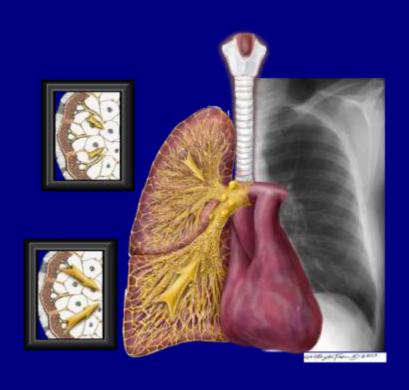


IgG4-related Tubulointerstitial Nephritis

Jay Vlaminck, MD
Mayo Clinic
Rochester, Minnesota

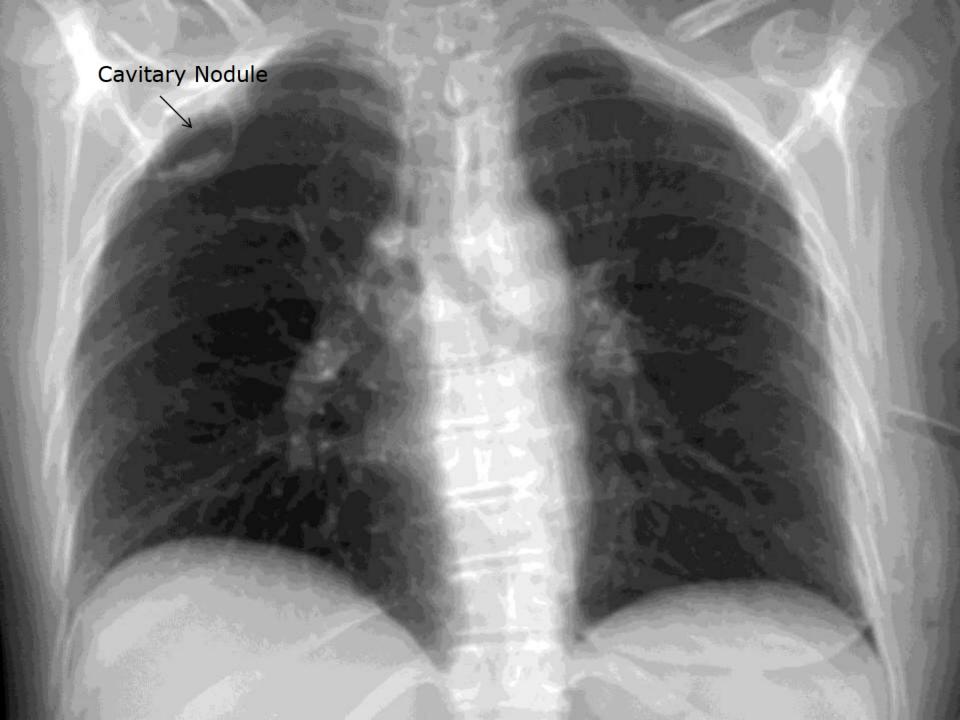


PULMONARY AND MEDIASTINAL IMAGING

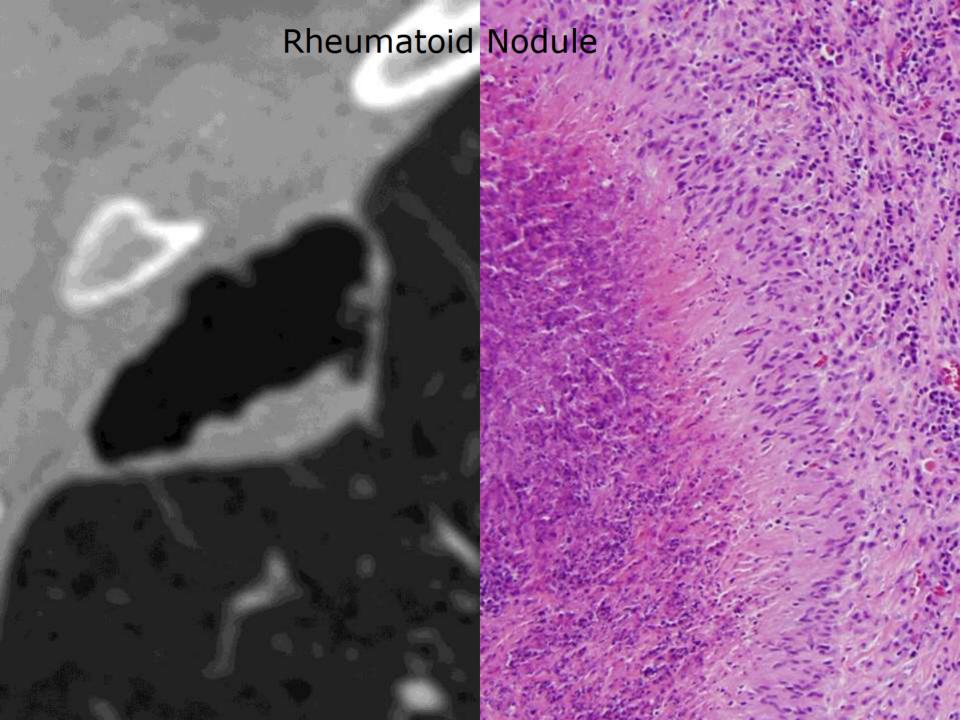




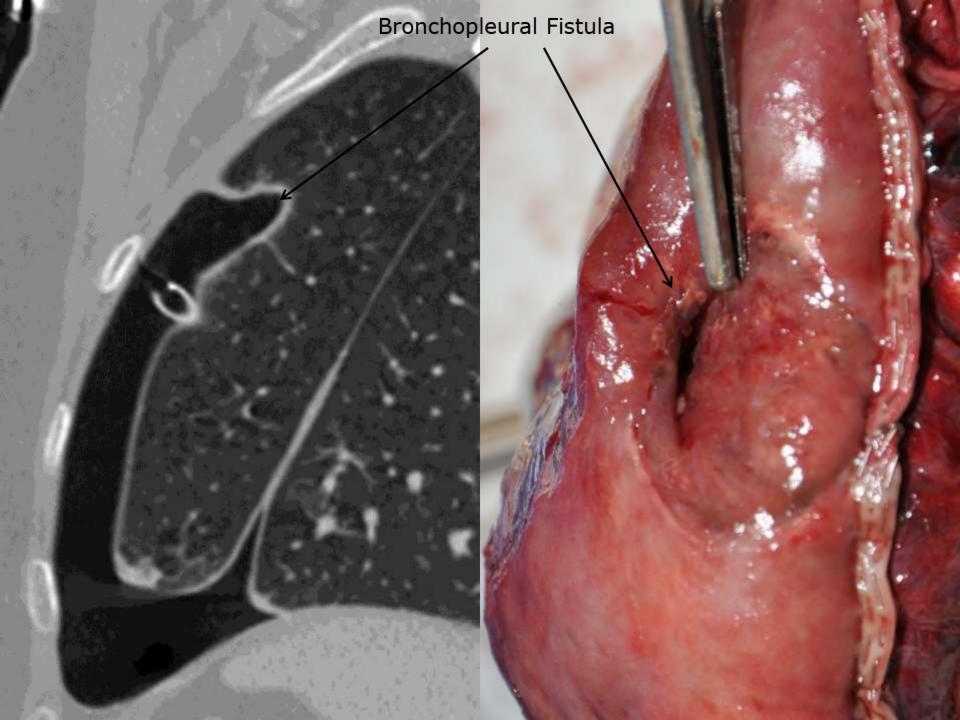
46-year-old female with rheumatoid arthritis who presents with left-sided chest pain and shortness of breath

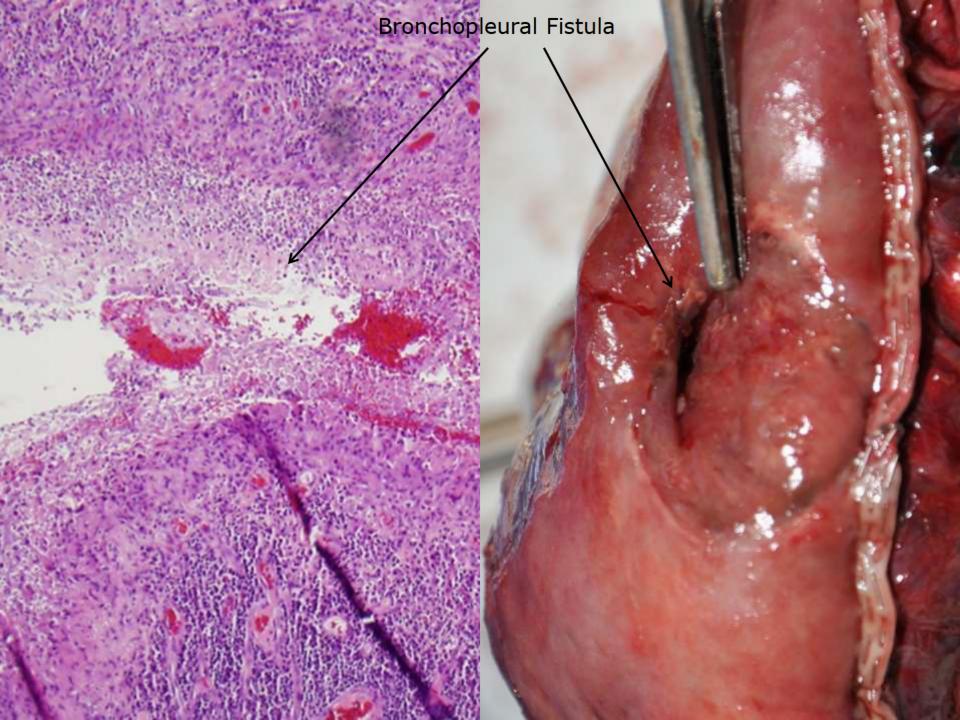












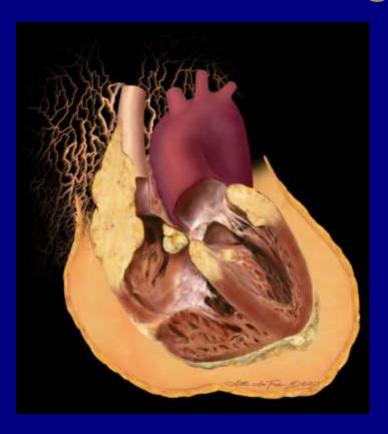


Rheumatoid Nodules with Bronchopleural Fistula

John Cho, MD Geisinger Health System Danville, Pennsylvania



Cardiovascular Imaging

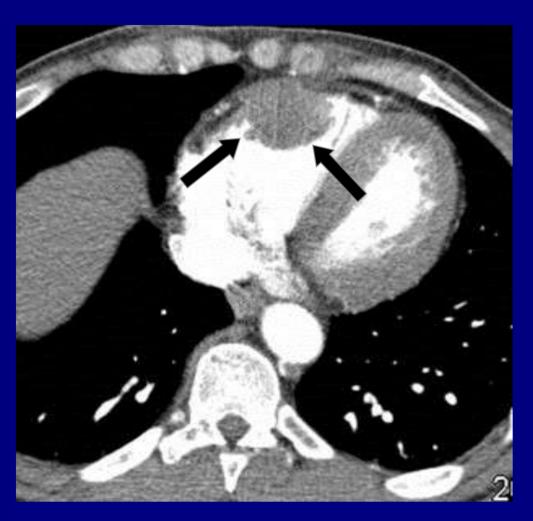




46-year old male presents to ER status post syncopal episode with several days of pleuritic chest pain

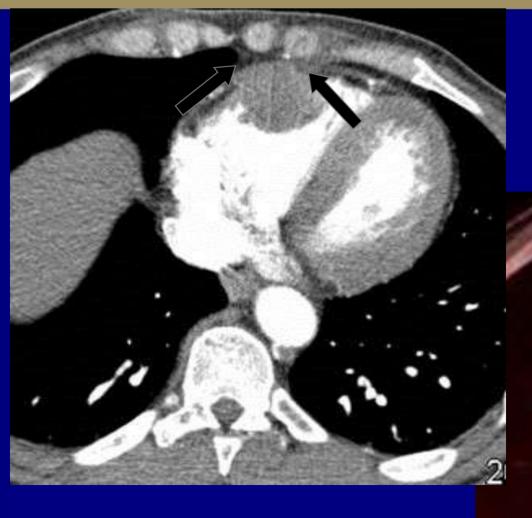
EKG demonstrated right bundle branch block with nonspecific ST-T wave changes. Cardiac enzymes within normal limits





CTA: partly intramural, partly intracavitary soft tissue mass centered in right ventricular wall

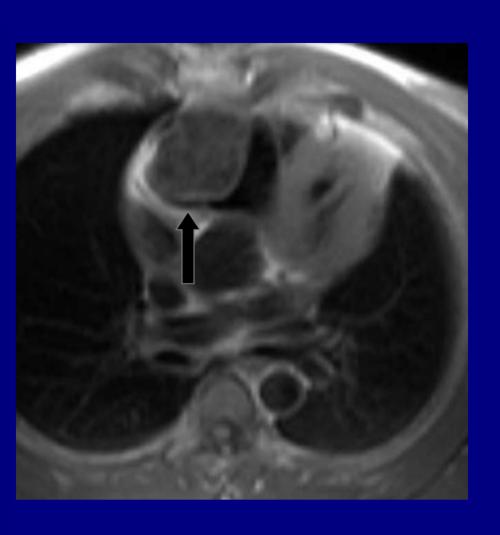




Fused PET/CT: mild tracer uptake within the lesion (max 2.9 SUV) with relative central photopenia

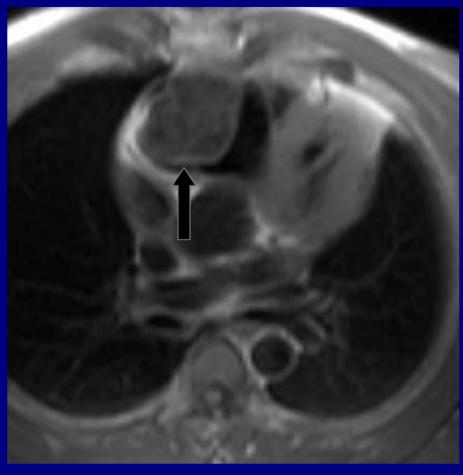




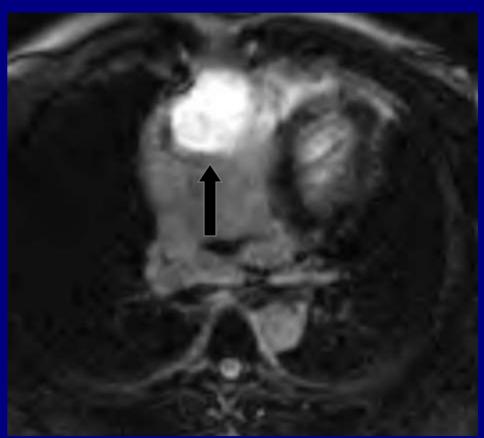


Axial MR, T2 STIR: Mass hypointense to myocardium, with thin rim of high signal

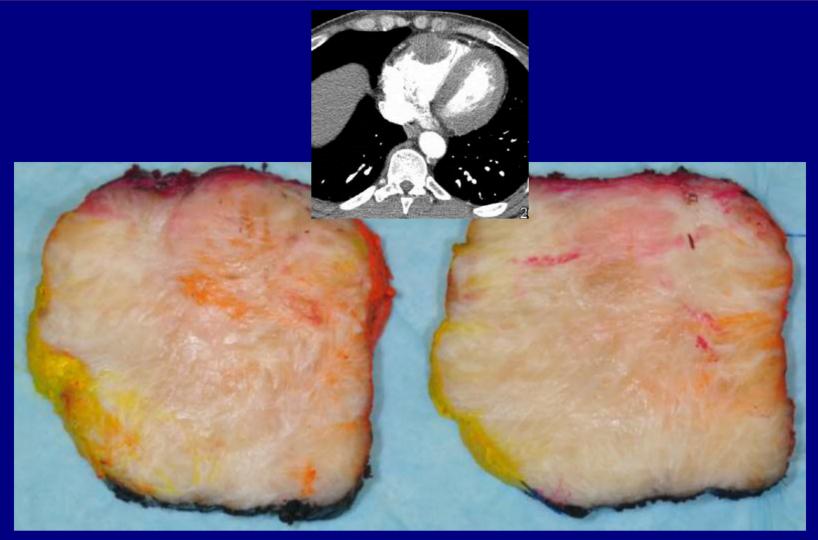




Axial MR, T1 post gadolinium: Mass shows remarkable delayed enhancement

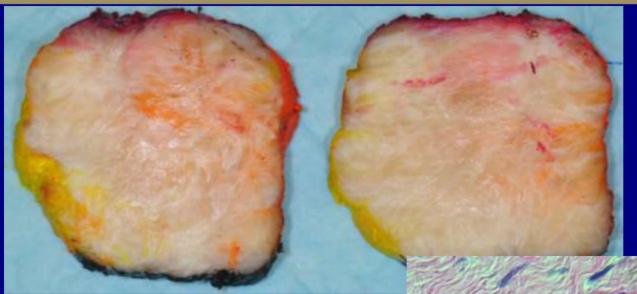




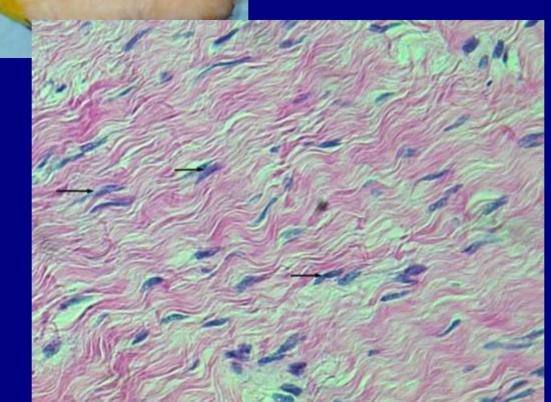


Gross resected specimen shows a well-circumscribed 4 cm lesion comprised of relatively homogeneous pale tan and white whorled soft tissue





H&E stain shows multiple layering fibroblasts comprised of pink collagen. No mitotic figures are present





Primary Cardiac Fibroma

Sara Maria Fernandez, MD
University of Florida Health Science
Center
Jacksonville, Florida



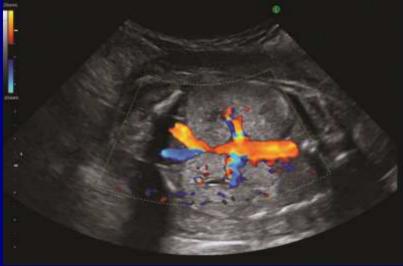
Pediatric Best Case



30-year-old pregnant woman for routine prenatal ultrasound

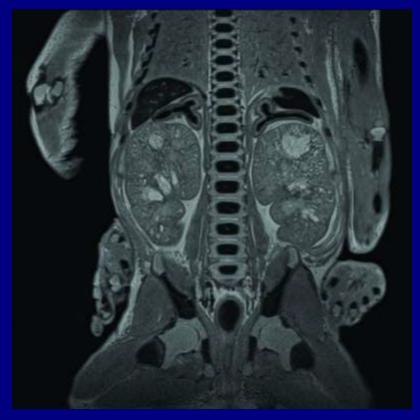


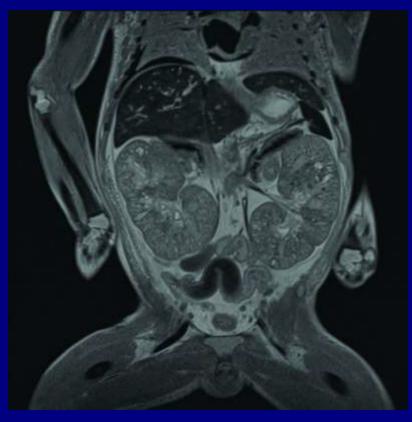






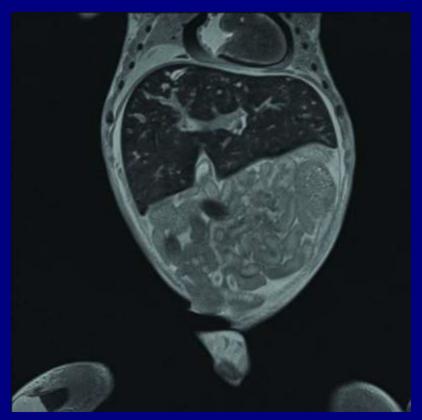
T2 T2

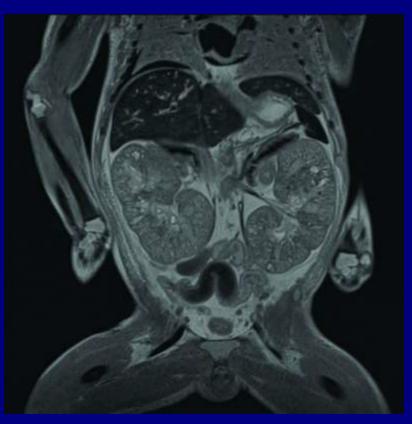






T2 T2





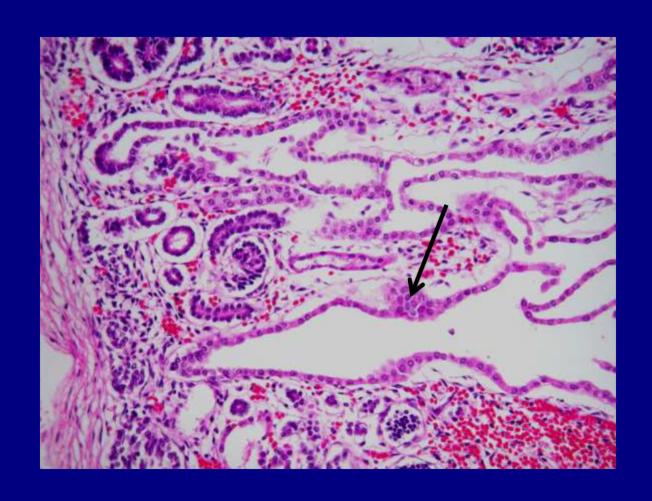




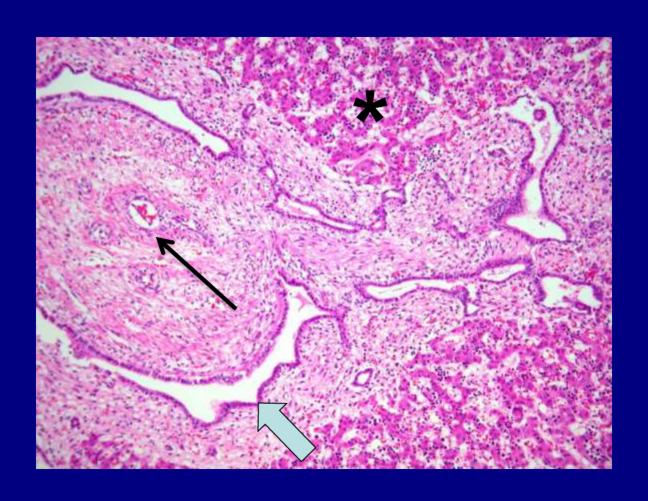














Autosomal Recessive Polycystic Kidney Disease

Jean-Louis Samain, MD Katholieke Universiteit Leuven Leuven, Belgium



Breast Best Case



73-year-old woman with history of previous right breast infiltrating ductal carcinoma located at the 9-10 o'clock position, treated with lumpectomy, axillary node dissection and adjuvant radiotherapy in 2004 at age 64

Eight years later in 2012 at age 73 the patient noticed new right breast purple and violaceous discoloration with eventual tenderness and pruritus



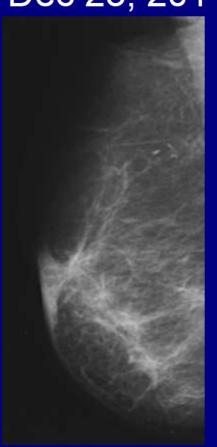
Skin Discoloration



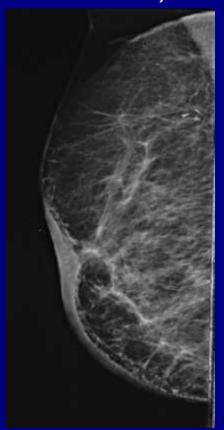


RT Mammogram MLO View

Dec 23, 2011

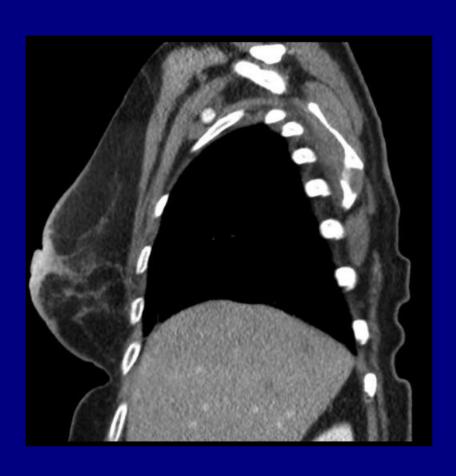


• Nov 9, 2012



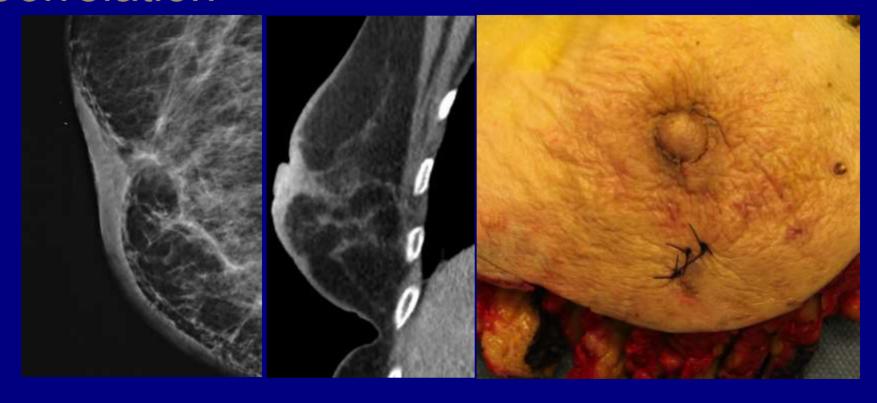


CT



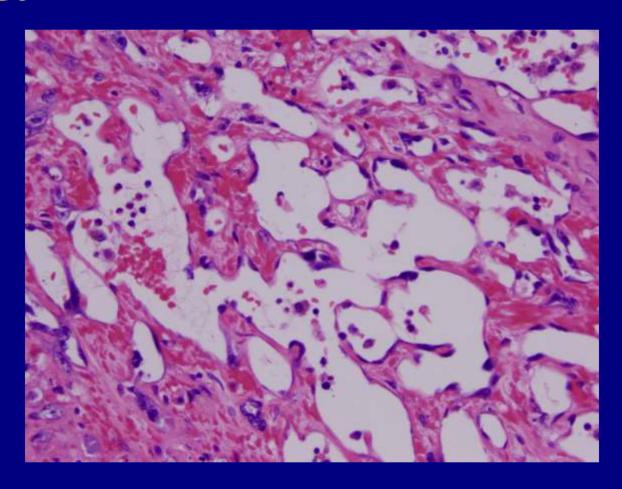


Correlation





Histology





Angiosarcoma of the Breast After Radiation

Sasha Bhan, MD
McMaster University Medical Center
Hamilton, Ontario, Canada



Gastrointestinal Best Case

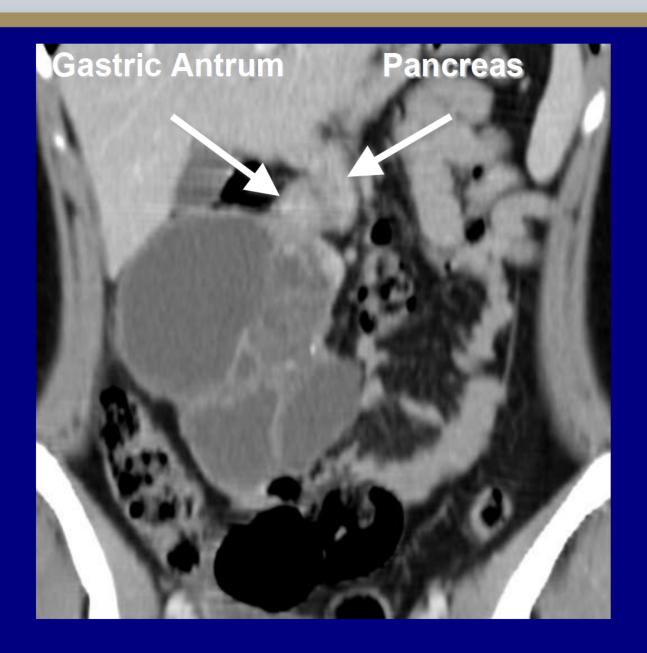


19-year-old woman with a 5-month history of diffuse abdominal pain



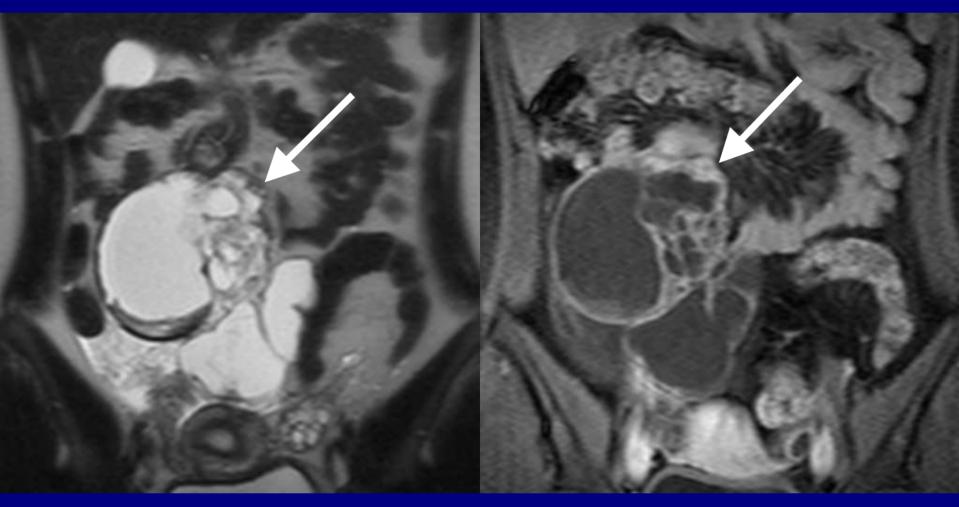




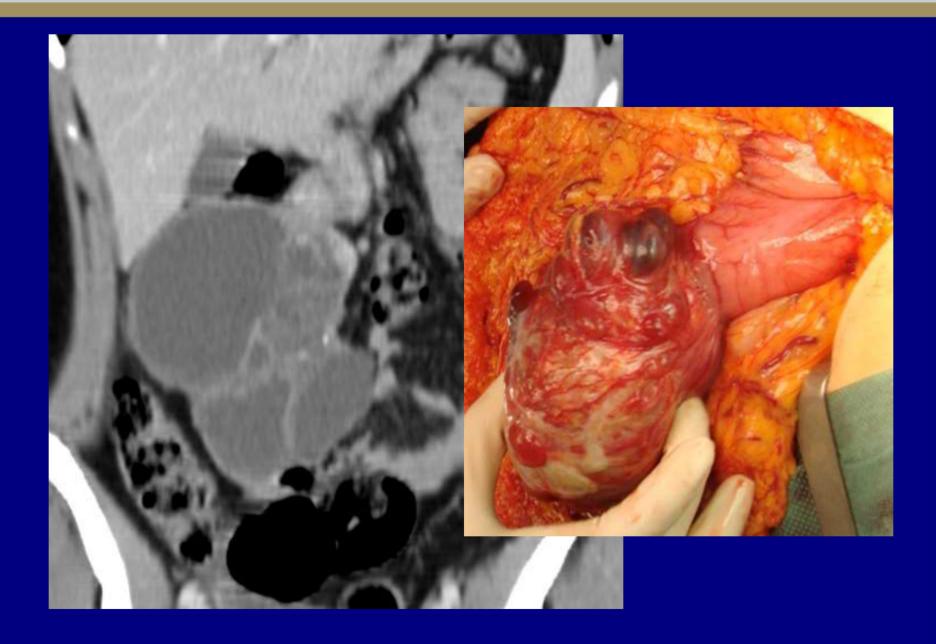




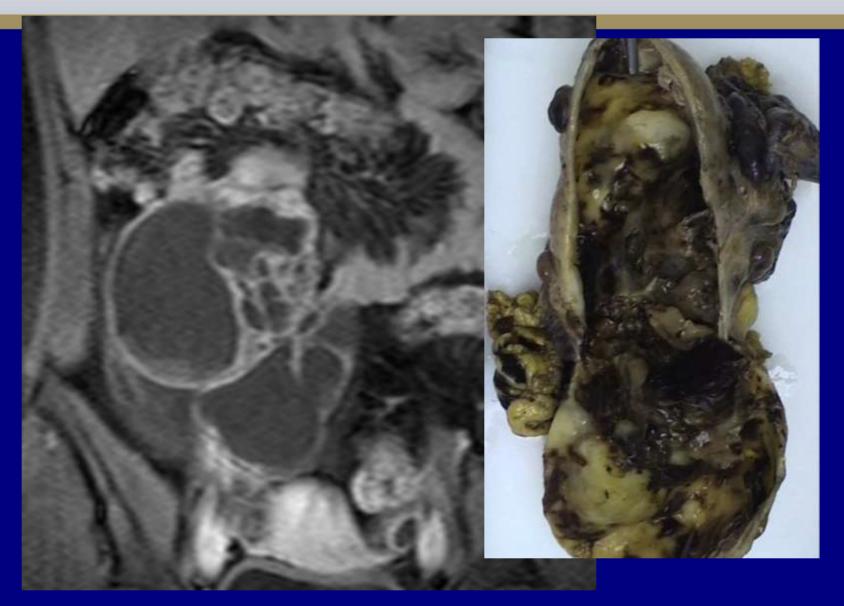
T2W T1W Post





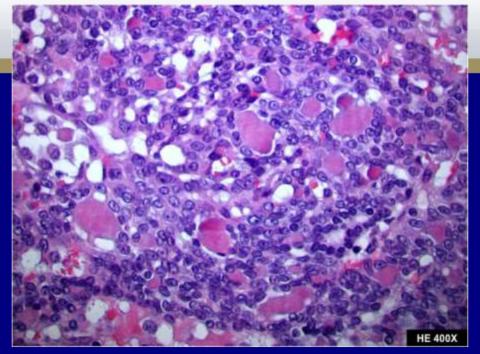


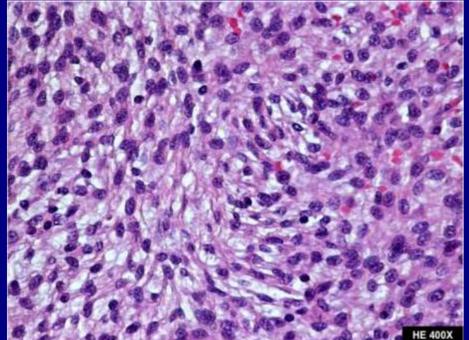






Epithelial component





Mesenchymal component



Gastroblastoma (Epitheliomesenchymal Biphasic Tumor of the Stomach)

Teresa Fernandes, MD Centro Hospitalar de São João Porto, Portugal



Many thanks to all of you for submitting such great cases! Have a safe trip home —

From the staff of the American Institute for Radiologic Pathology