

Best Cases of the AIRP

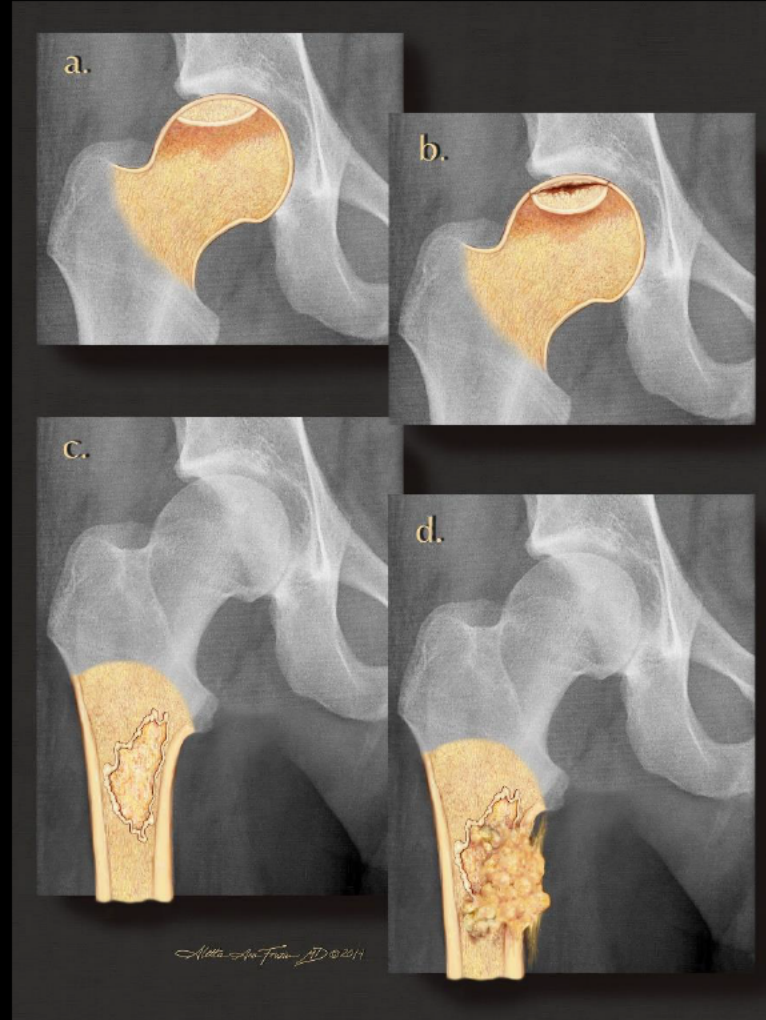
Oct-Nov 2017

AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Musculoskeletal Best Case



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

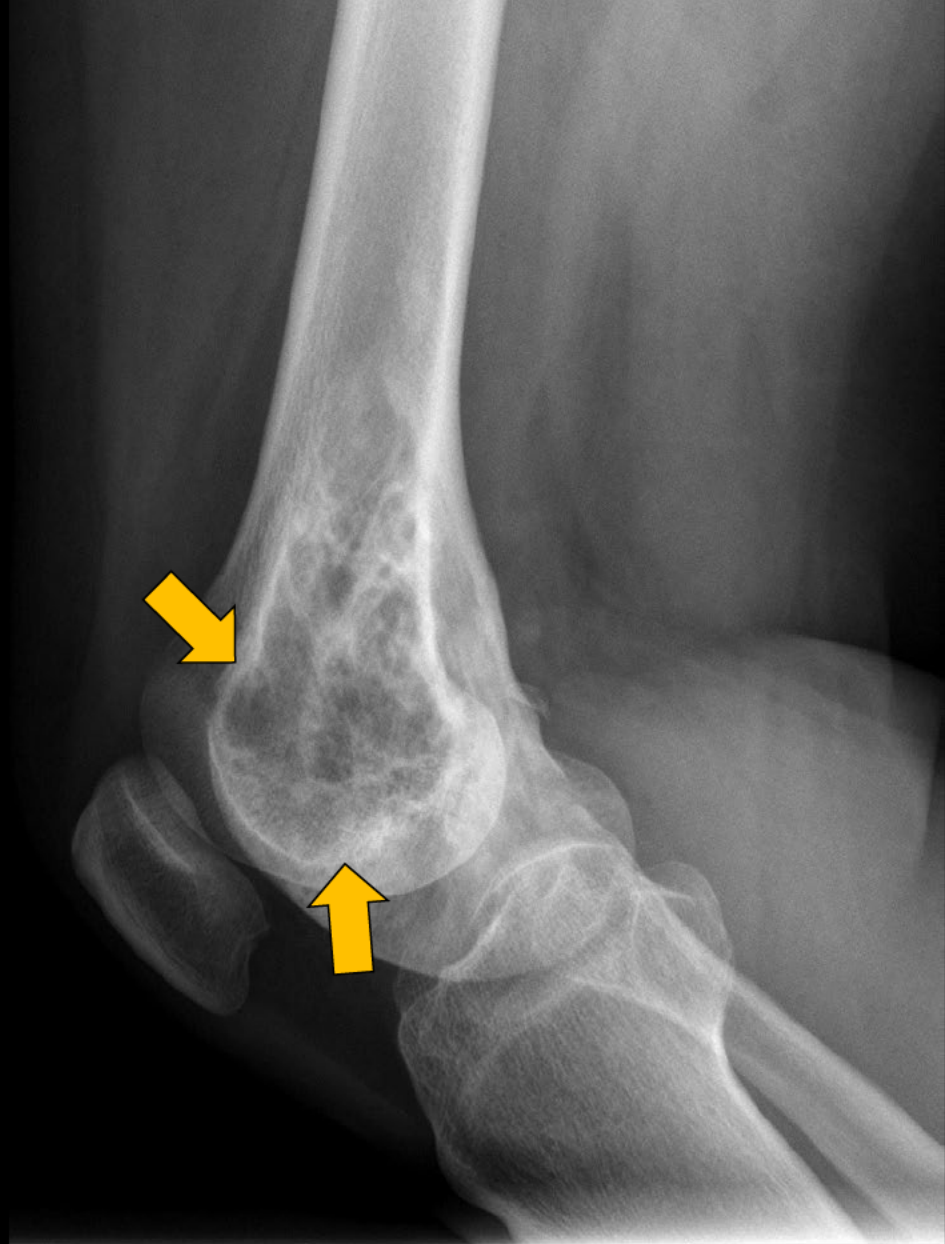
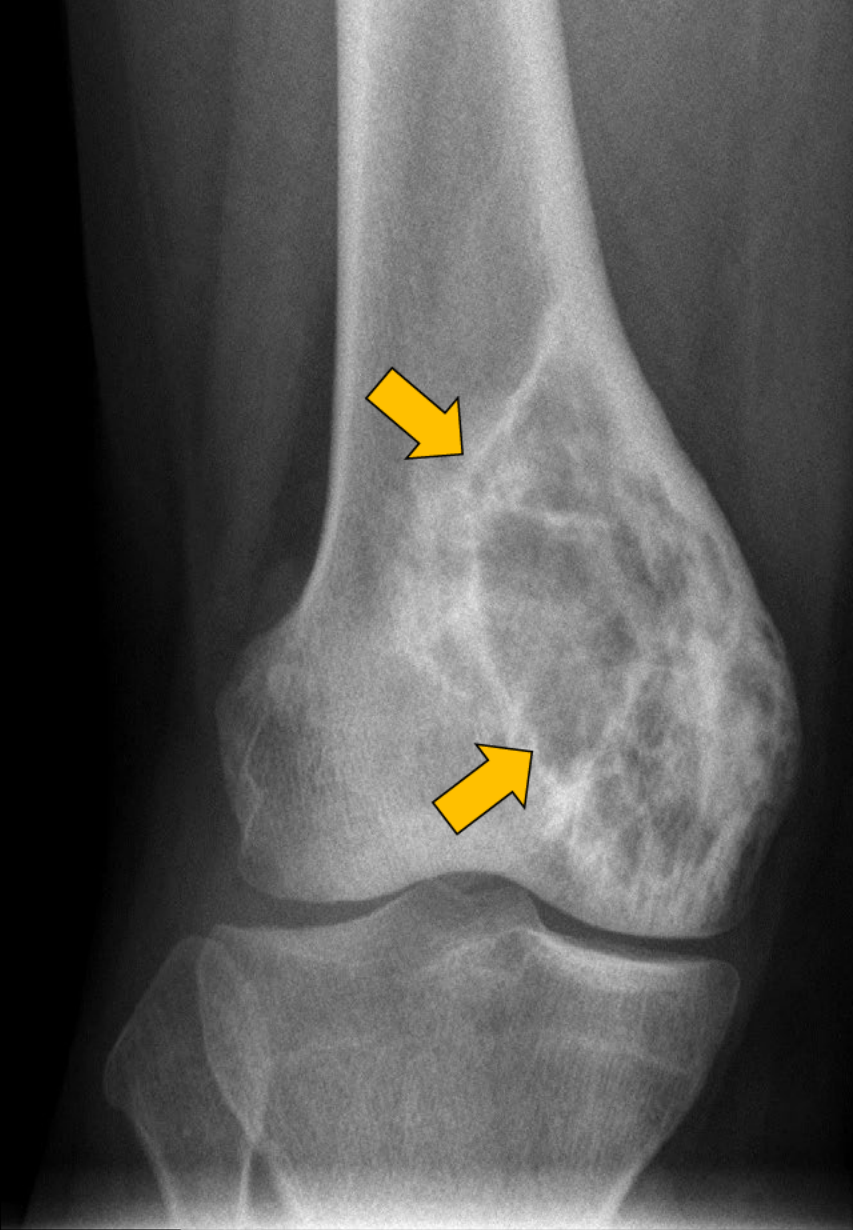
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

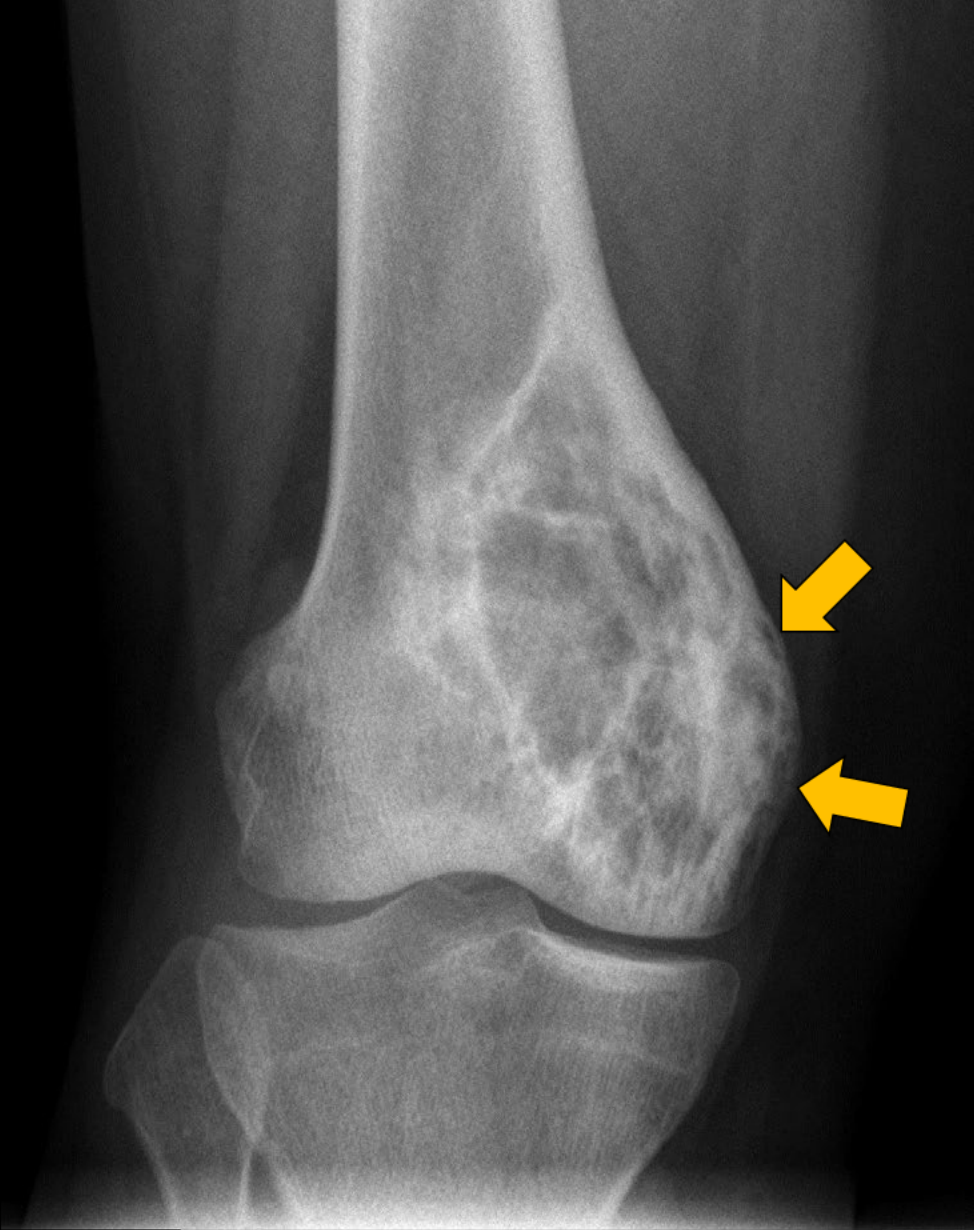
**47 year old female with history of destructive
lesion of femur**

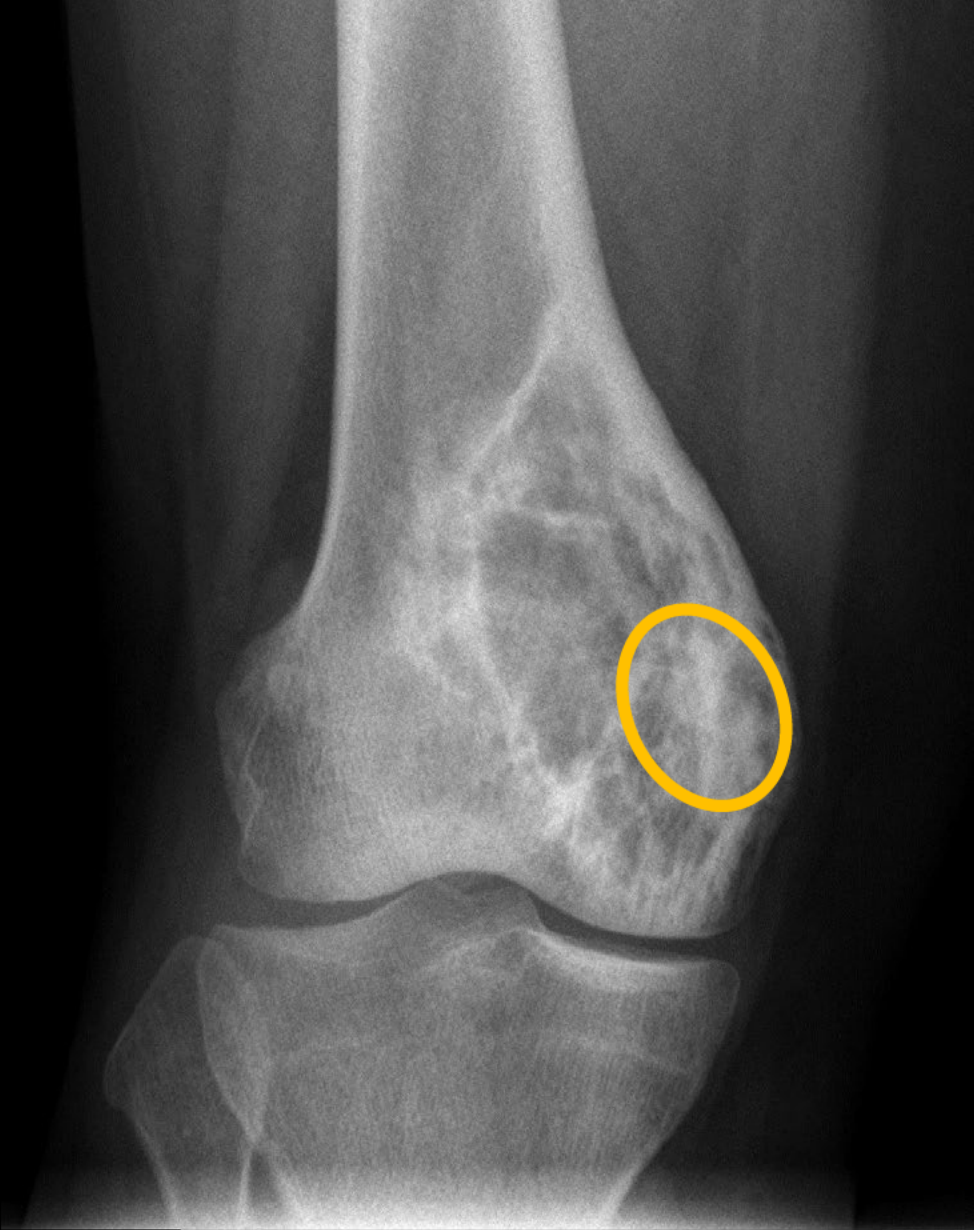


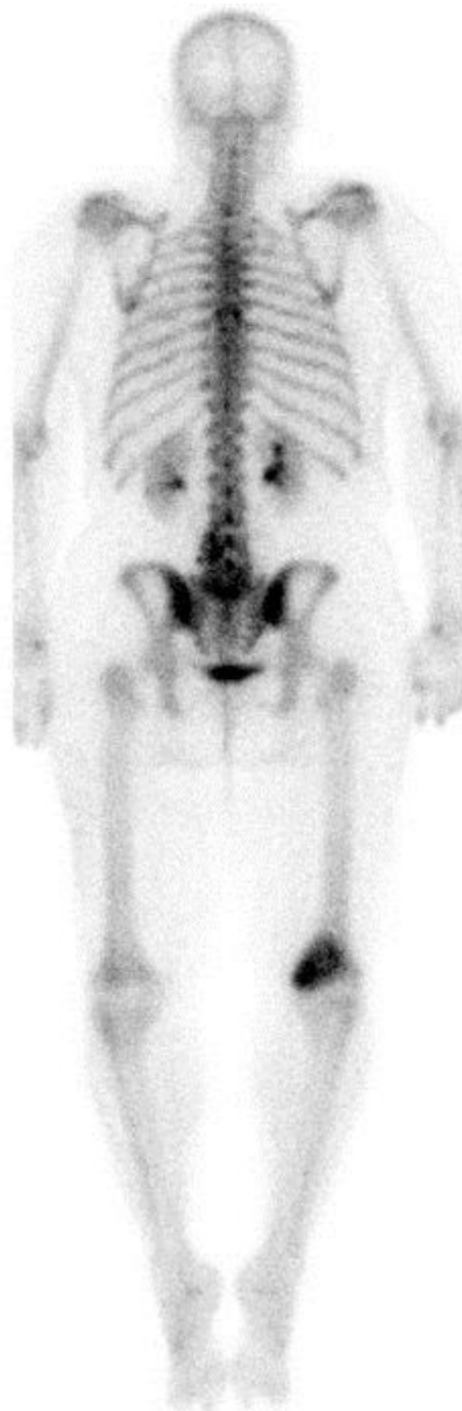
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



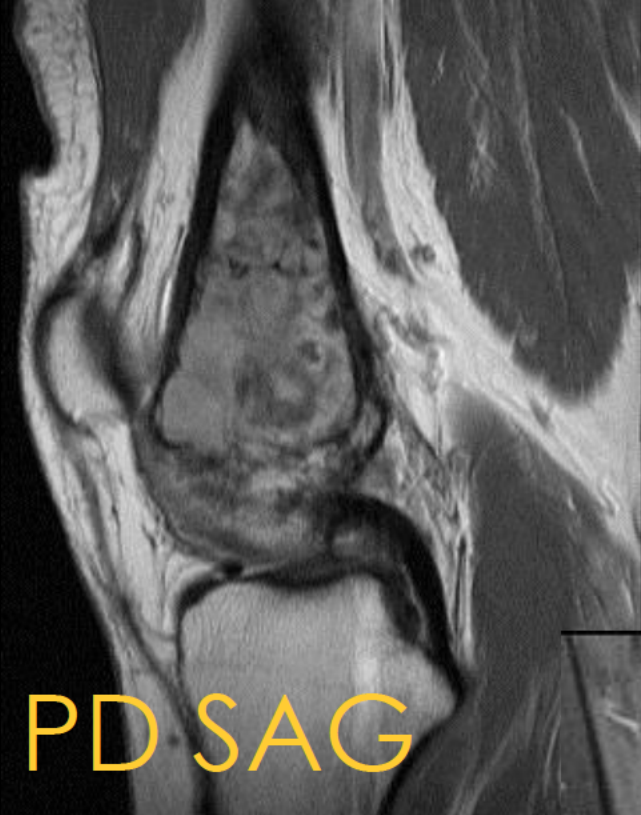




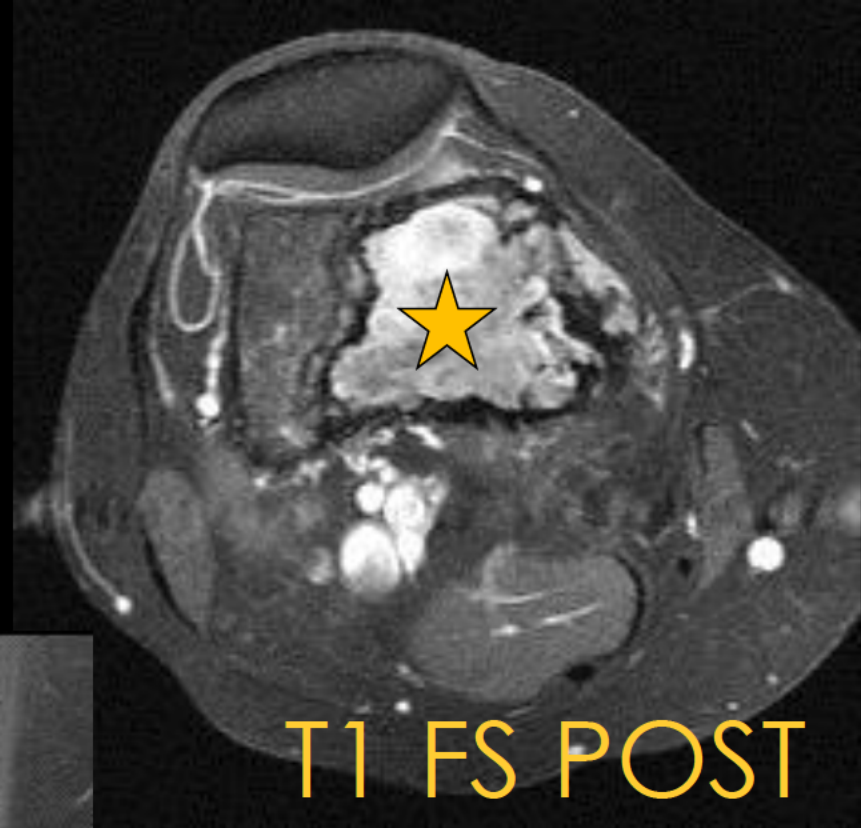
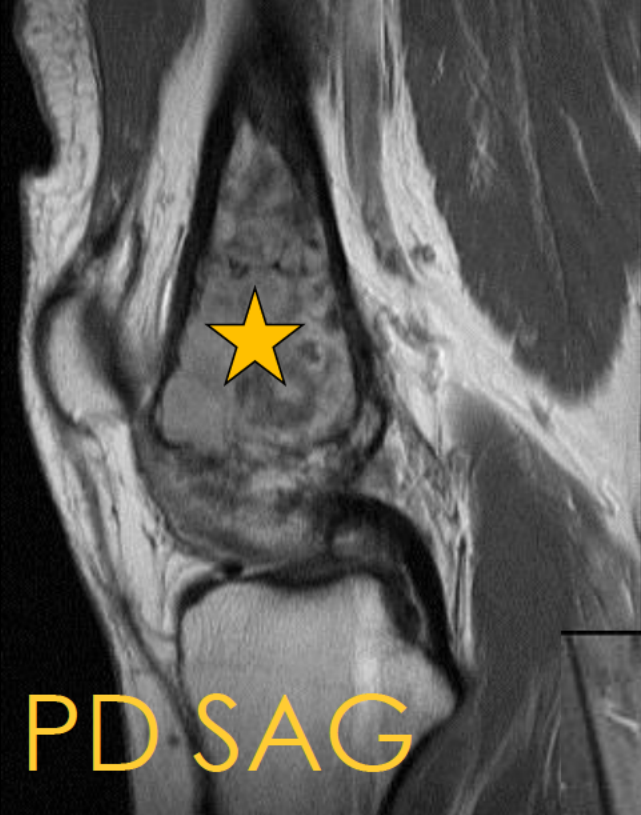




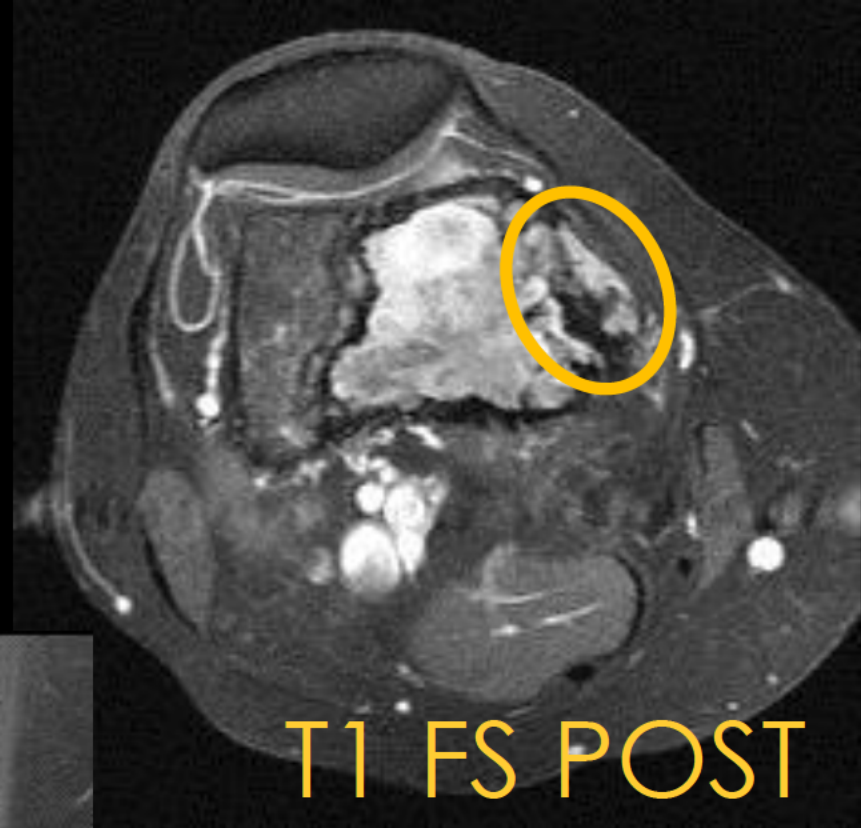
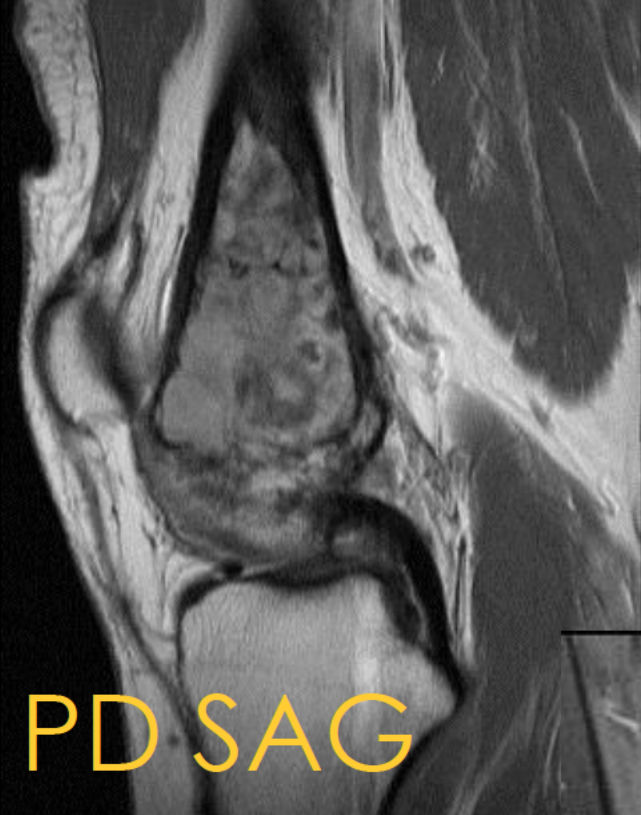




PD COR FS



PD COR FS



PD COR FS

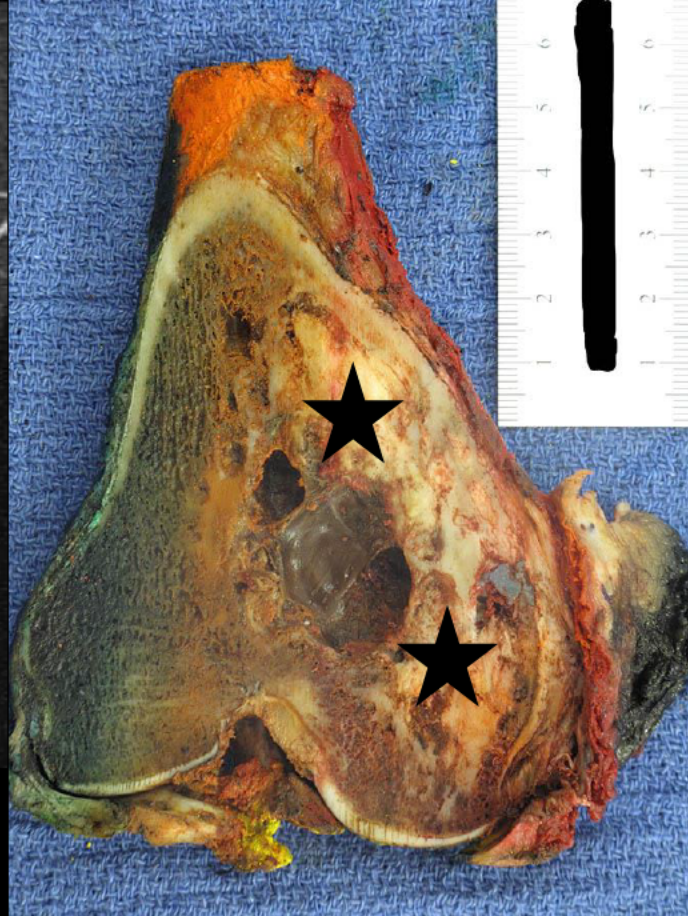


T1 COR C+



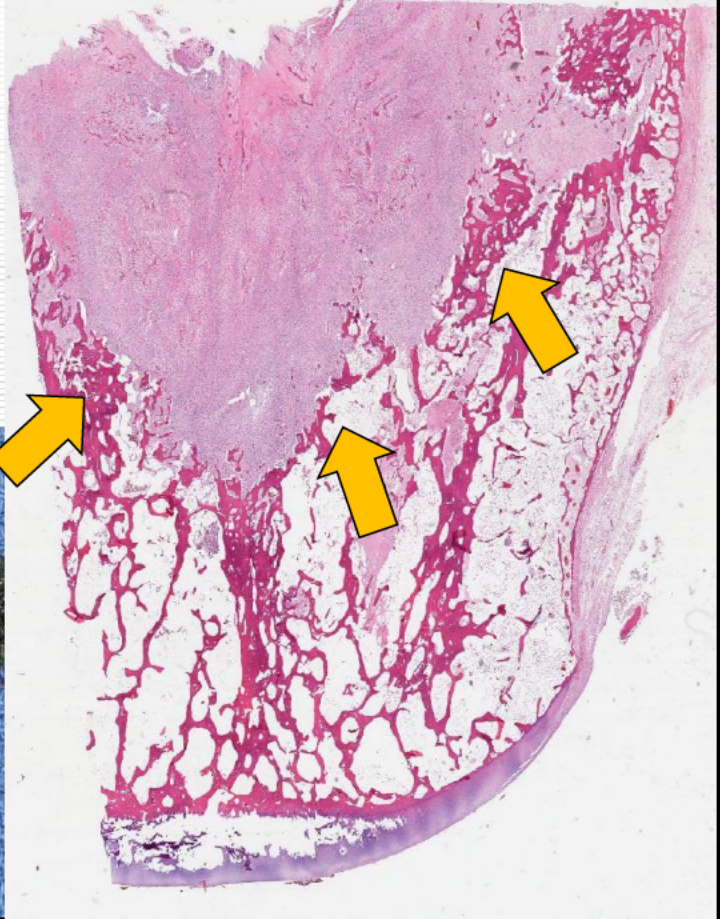
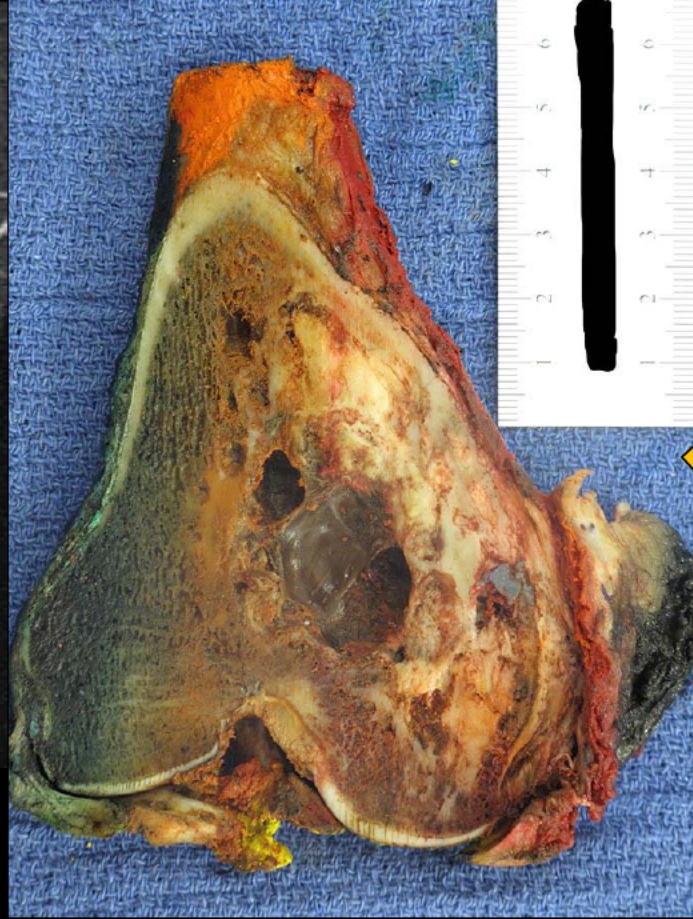


T1 COR C+





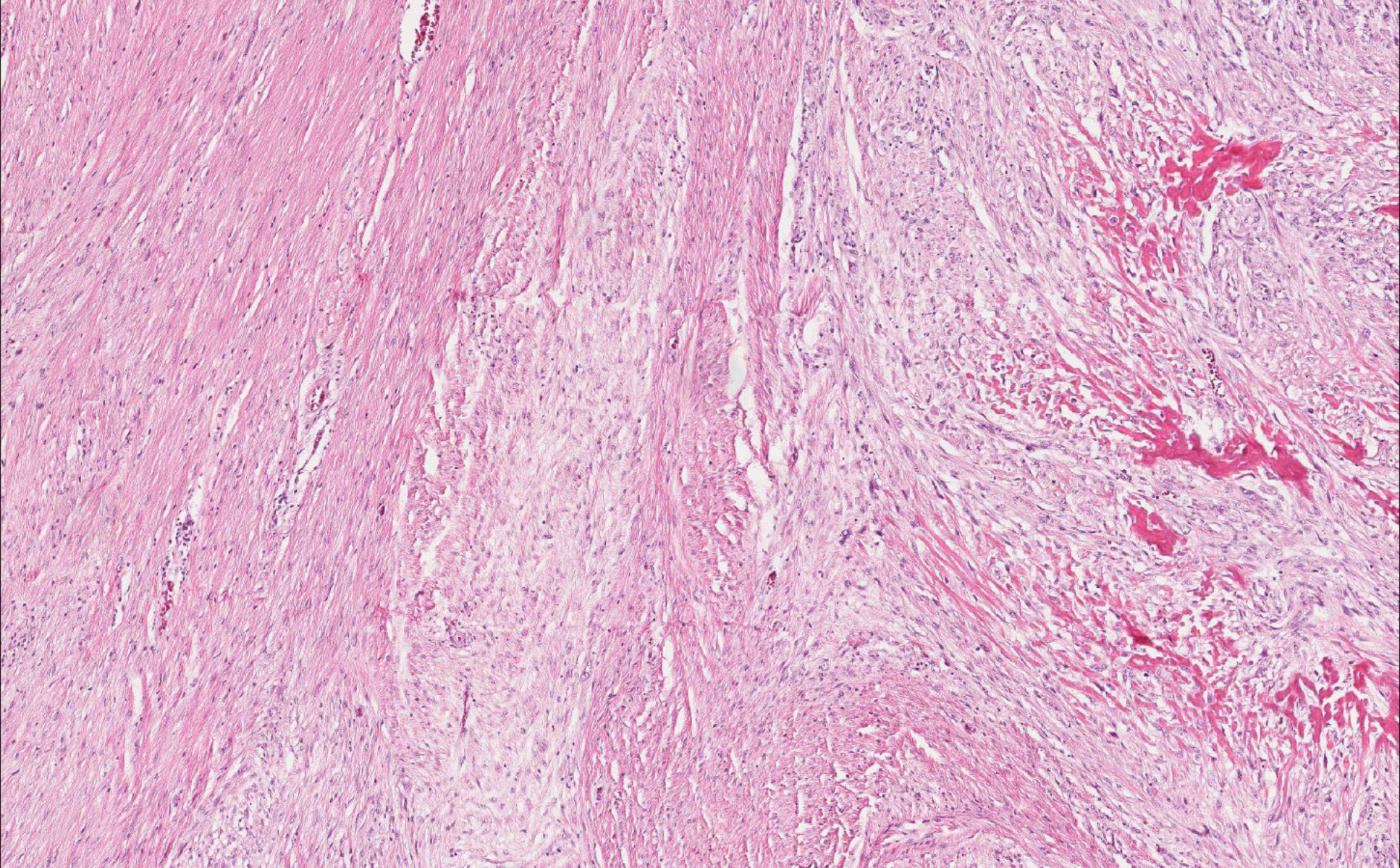
T1 COR C+

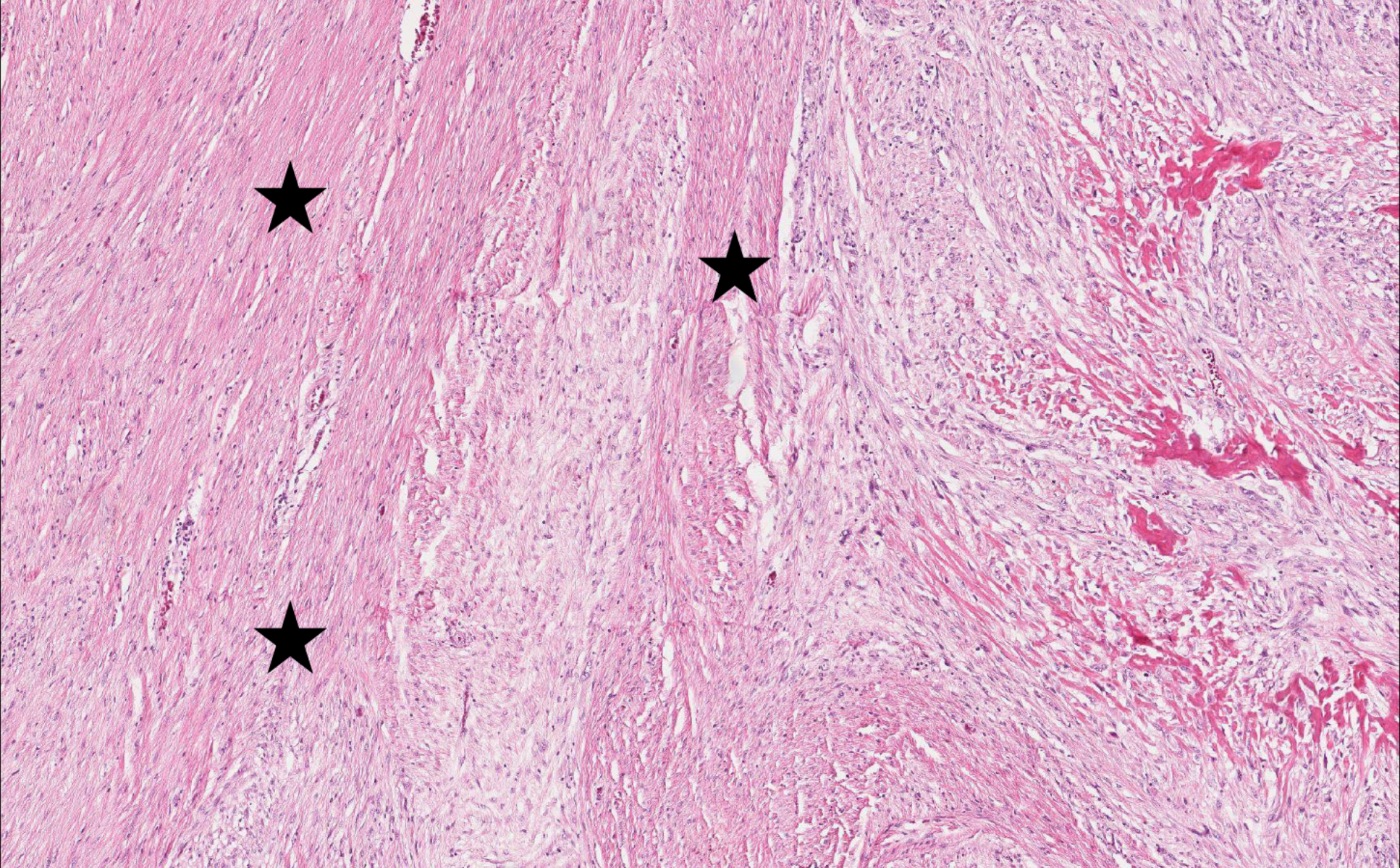


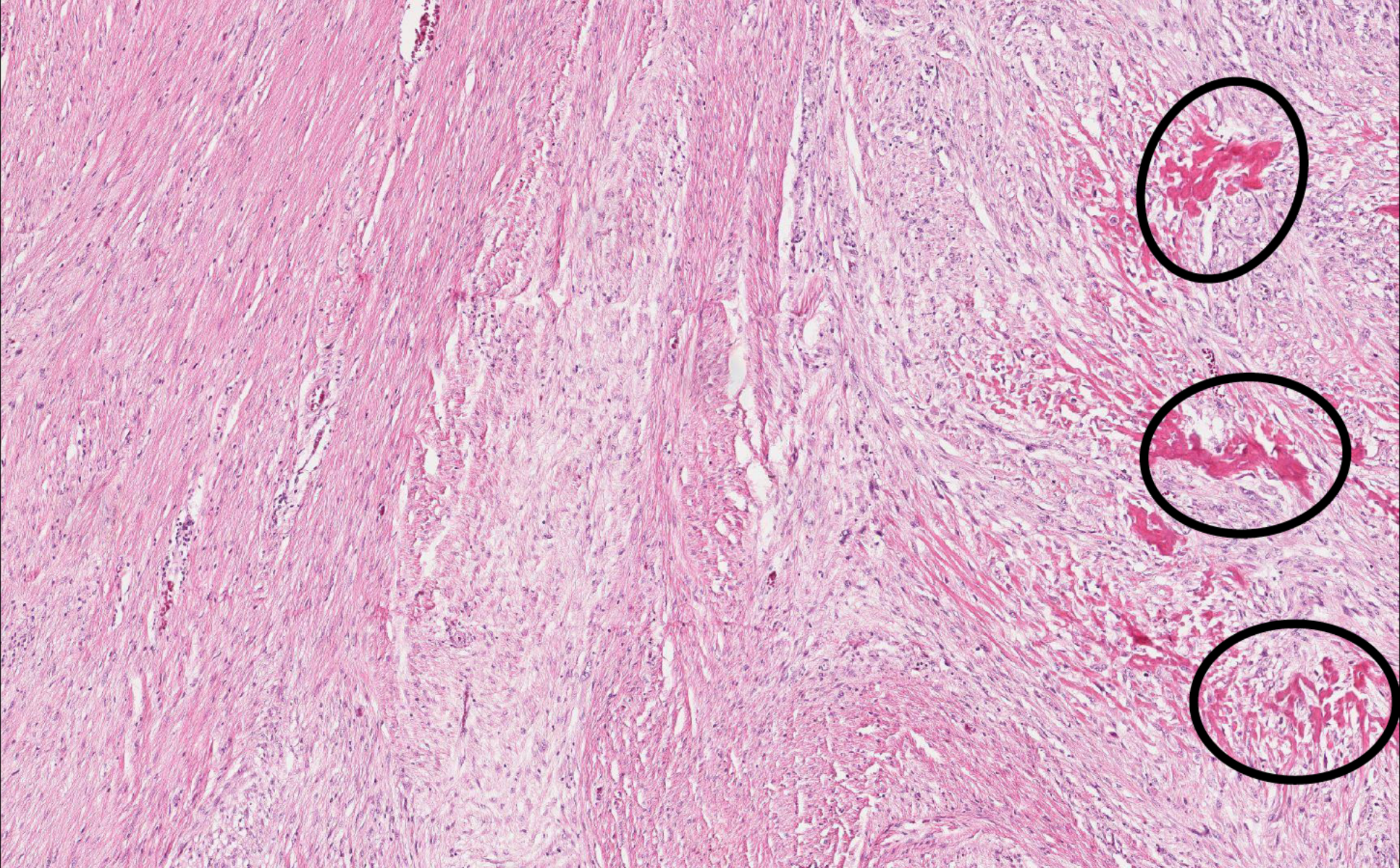


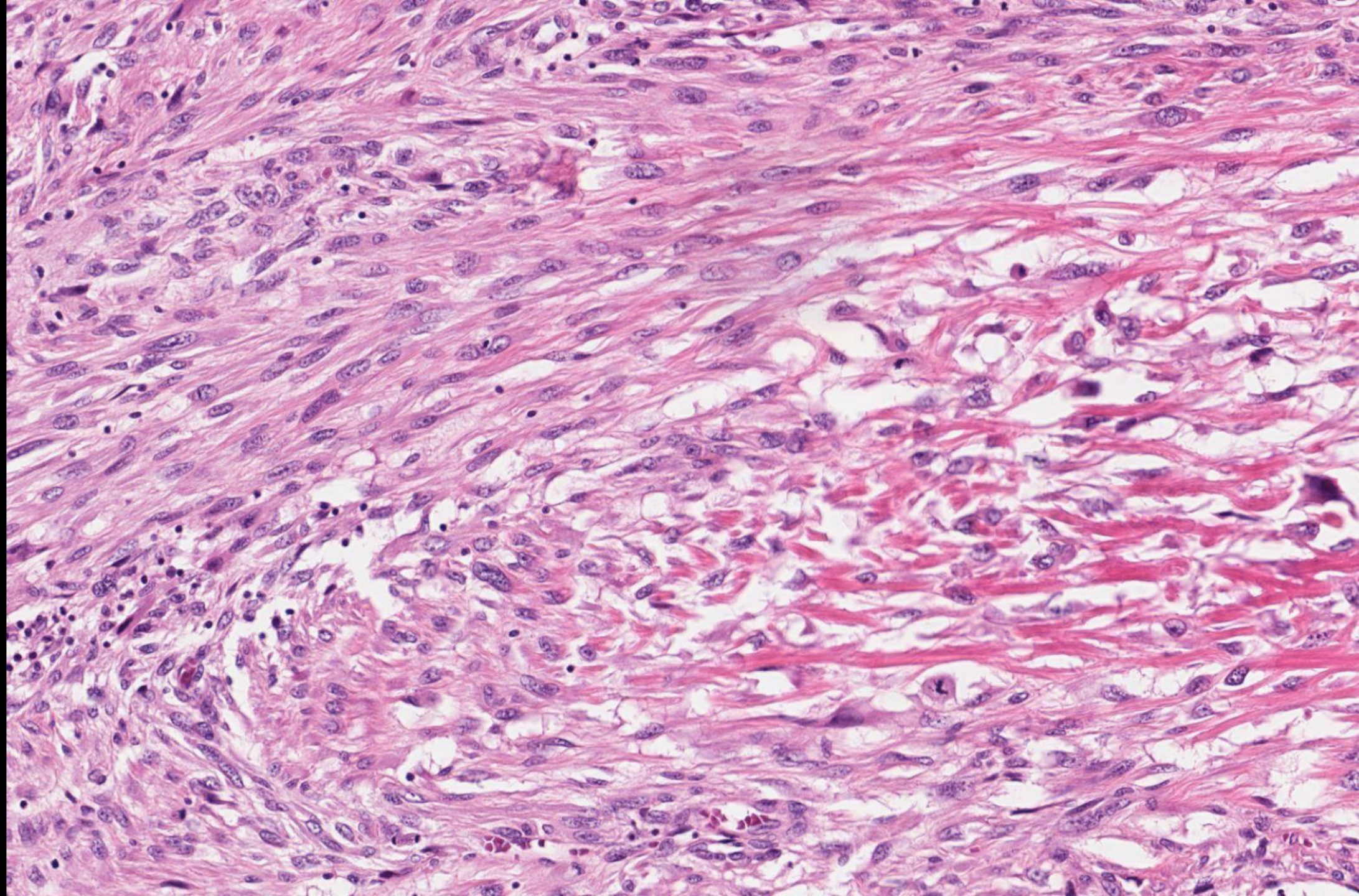
T1 COR C+











LOW-GRADE INTRAMEDULLARY OSTEOSARCOMA WITH FOCI OF DEDIFFERENTIATION

Dr. Narendra Gutta

**University of Arkansas for Medical Sciences
Little Rock, AR**

AIRPTM
**AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY**

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Honorable mention



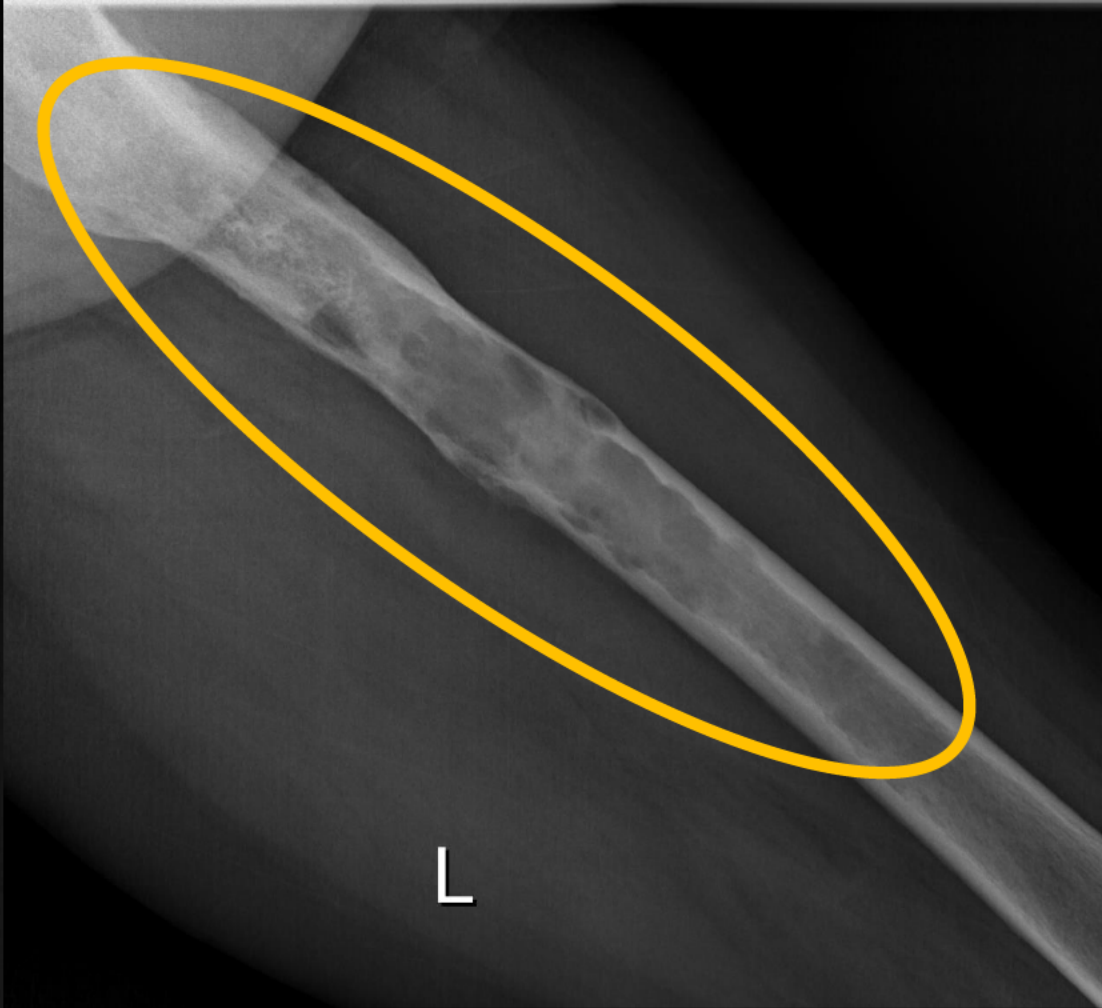
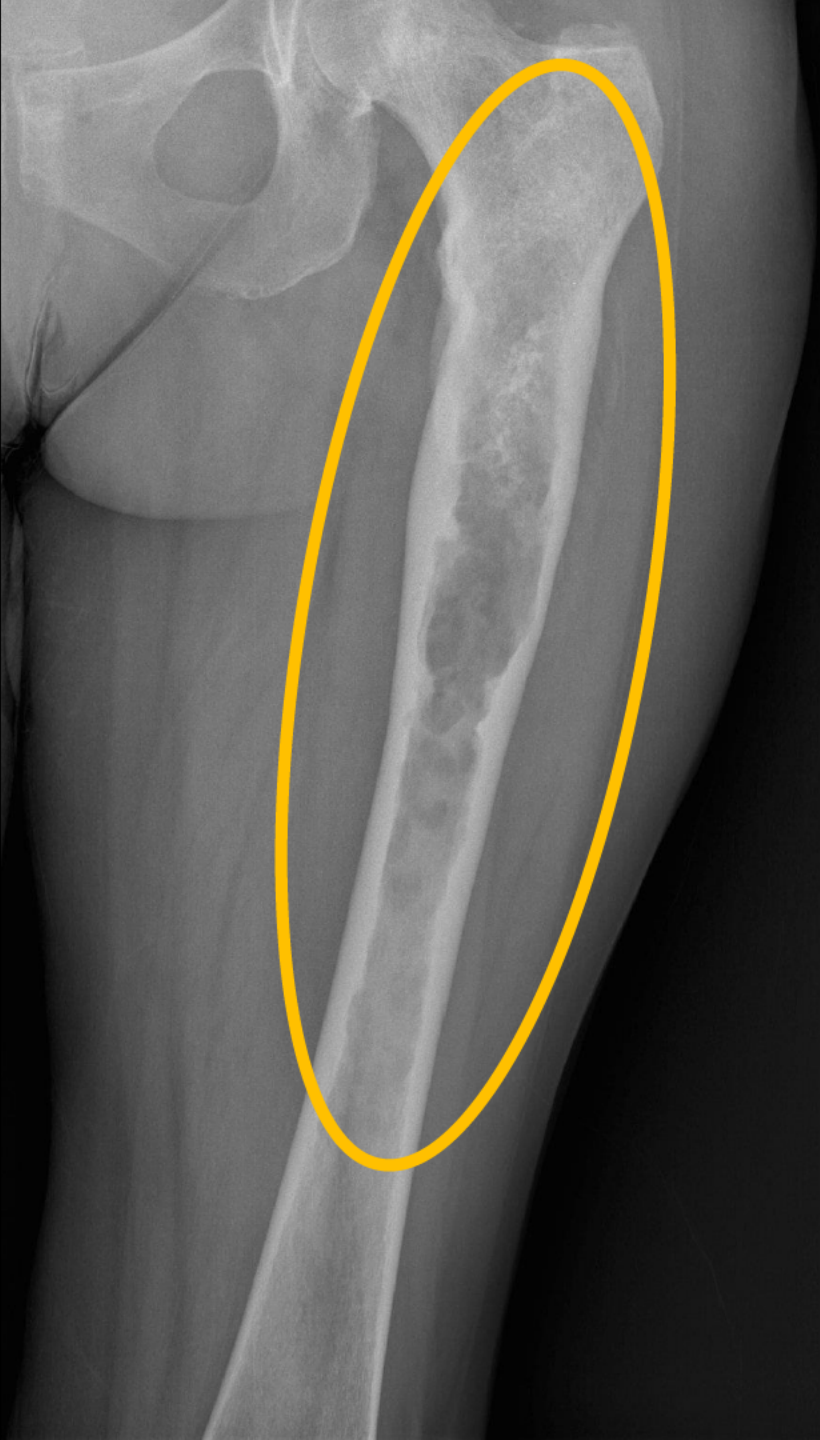
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

**51-year-old woman with pain in
her left thigh for several months**

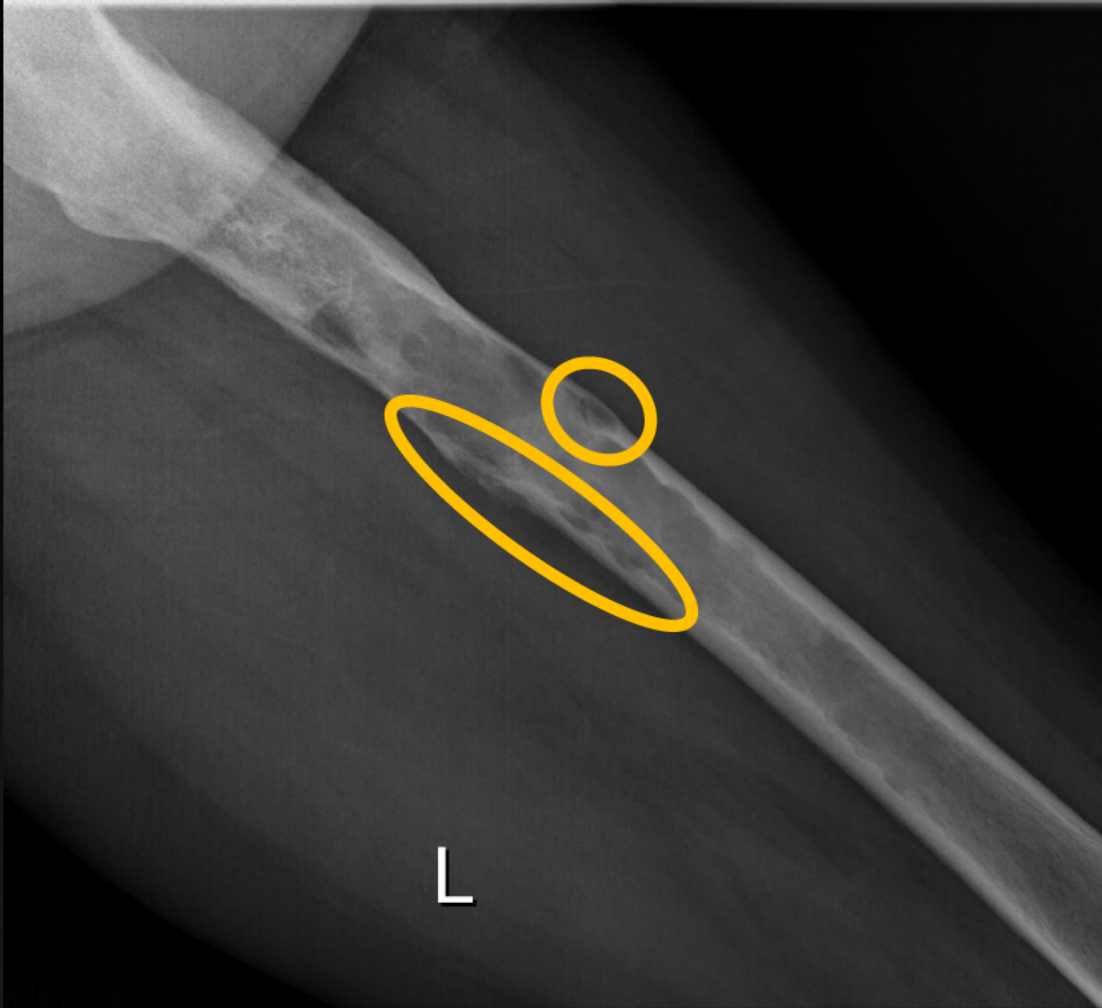


A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

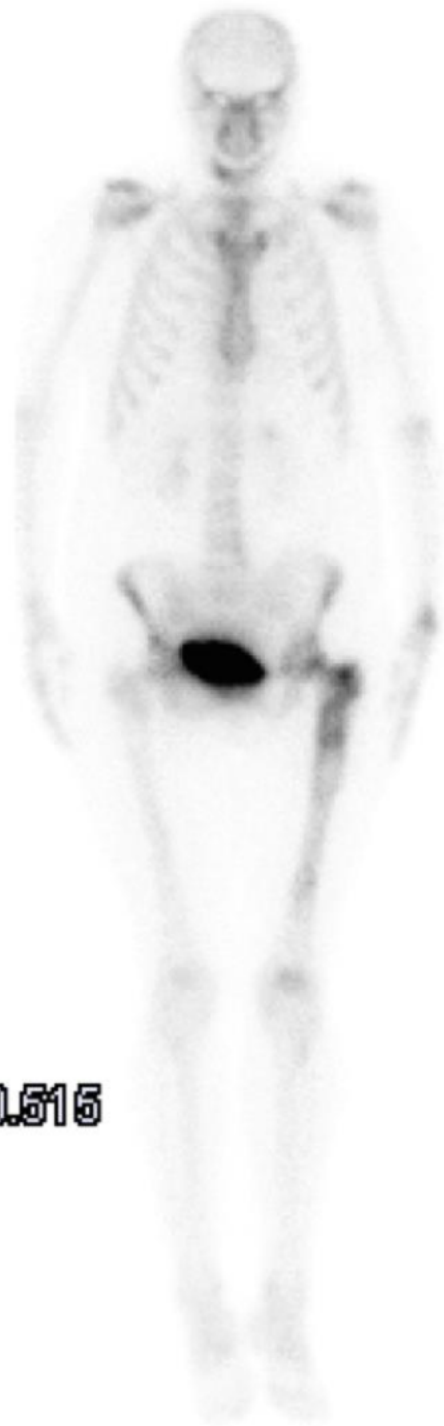




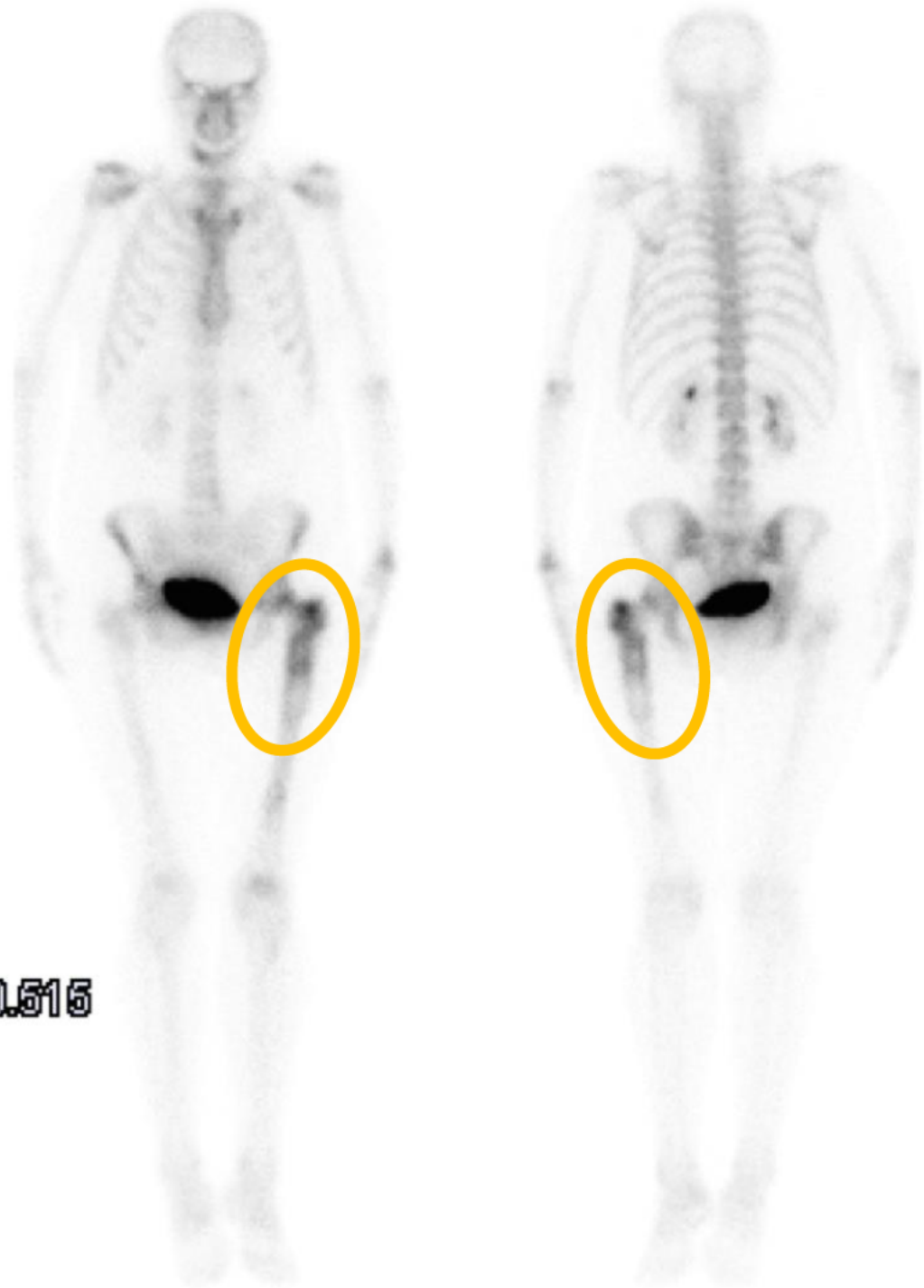




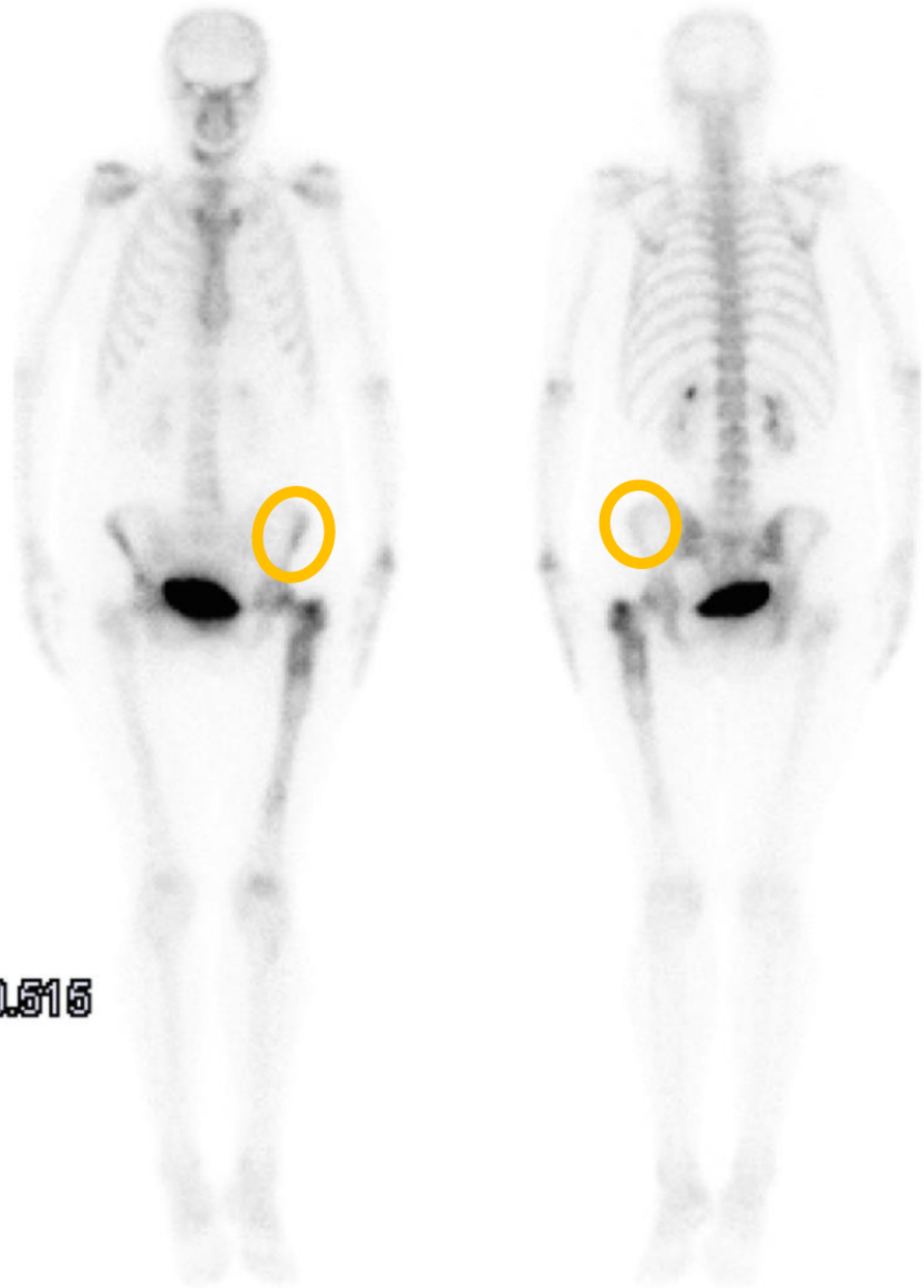
0.515



0.515

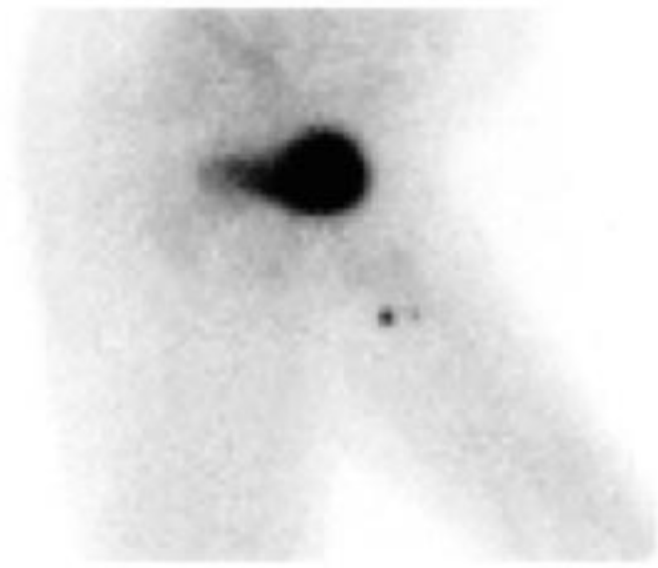


0.515

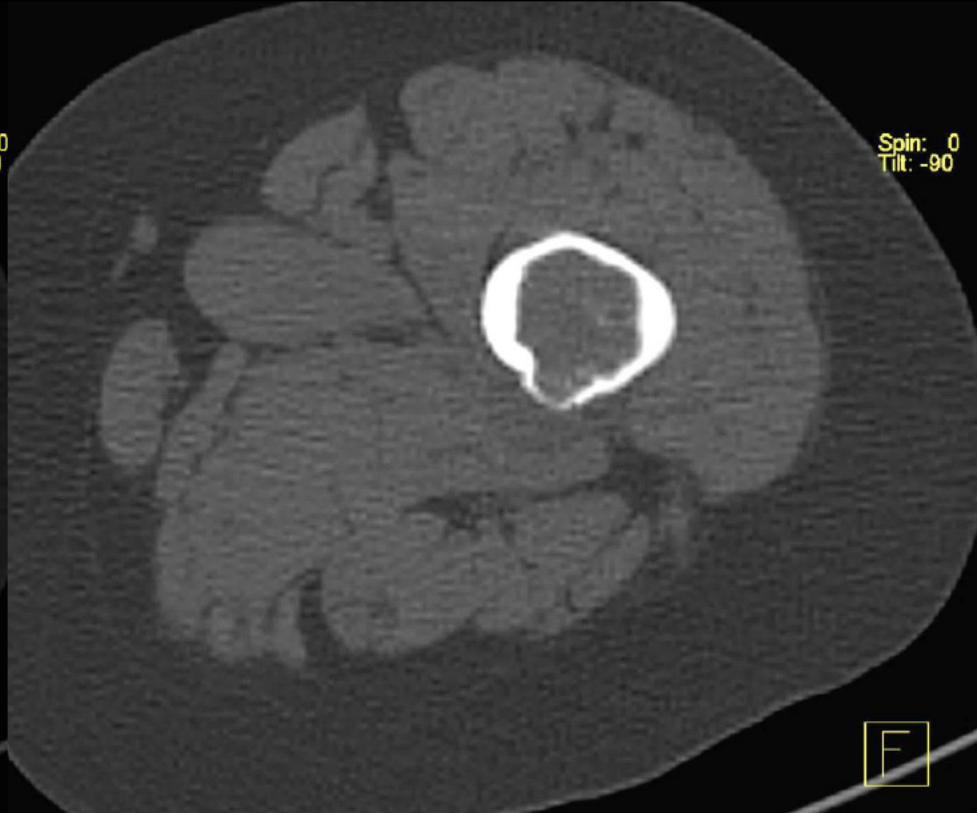
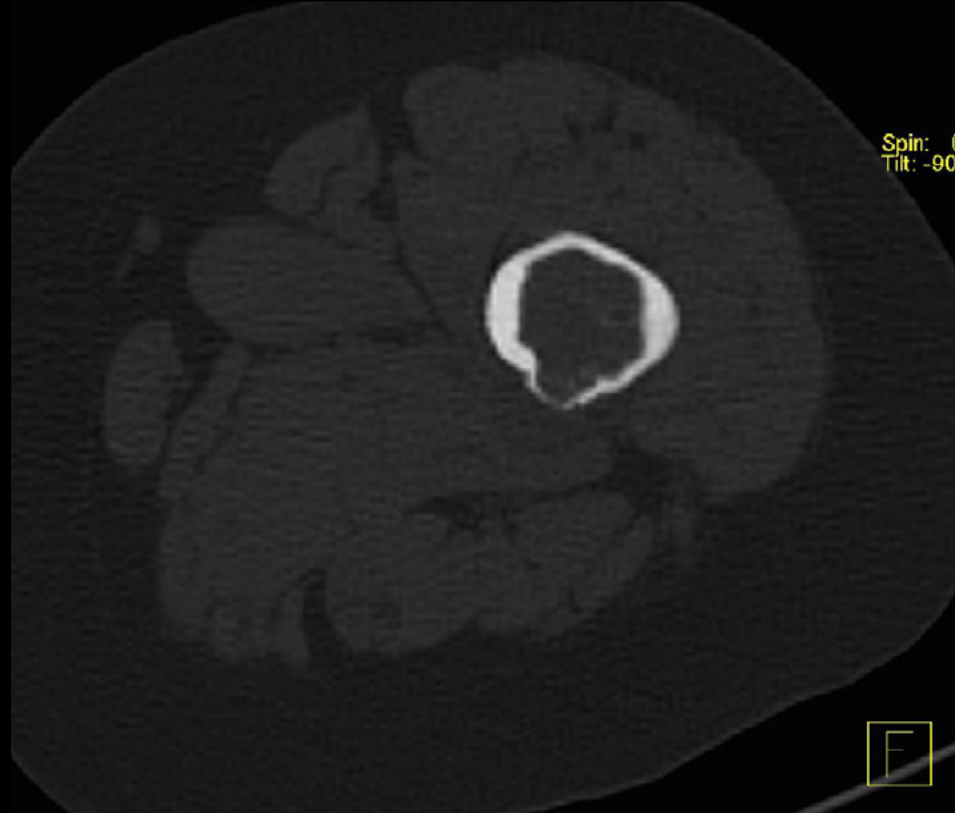


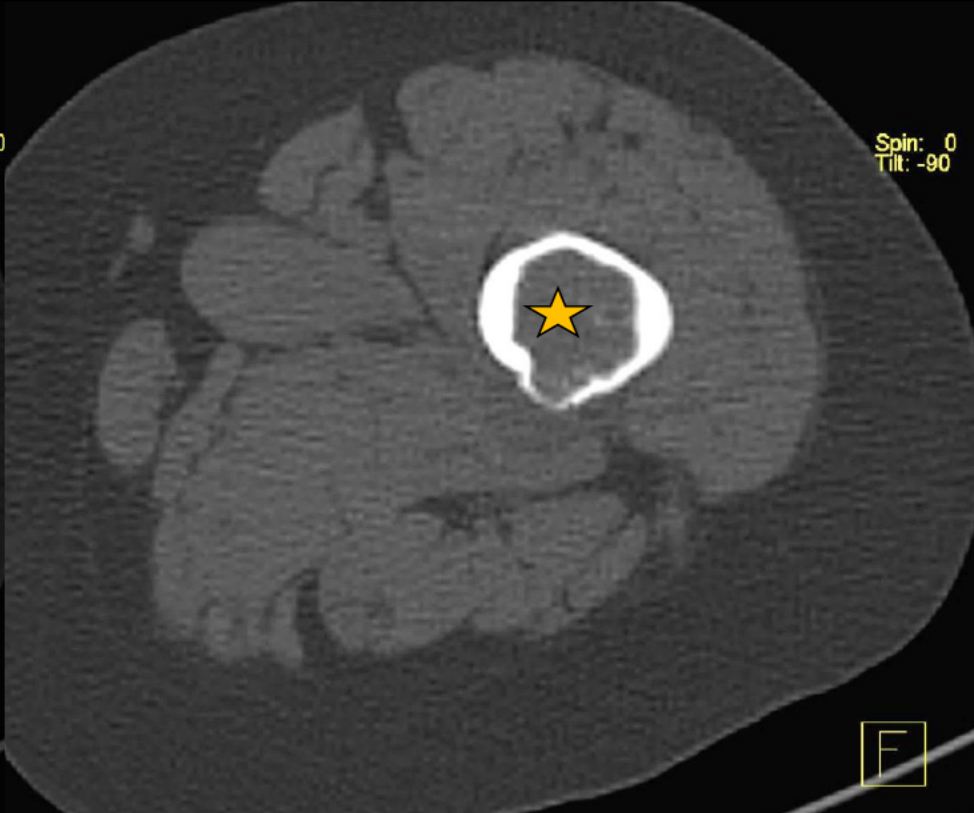
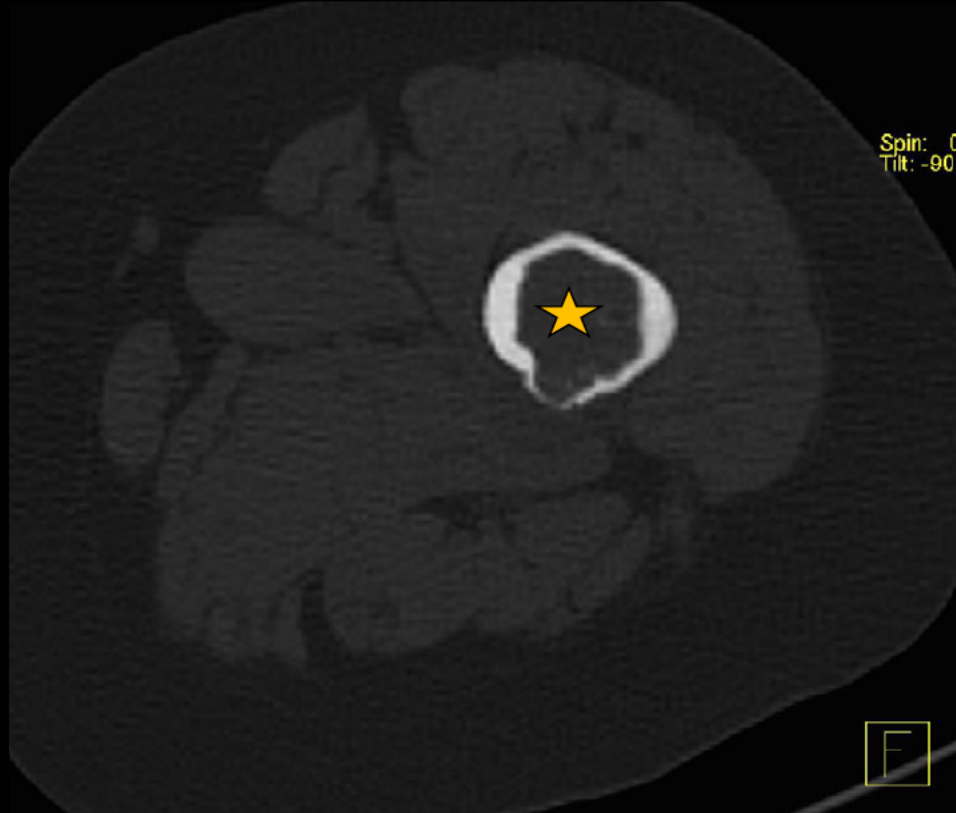


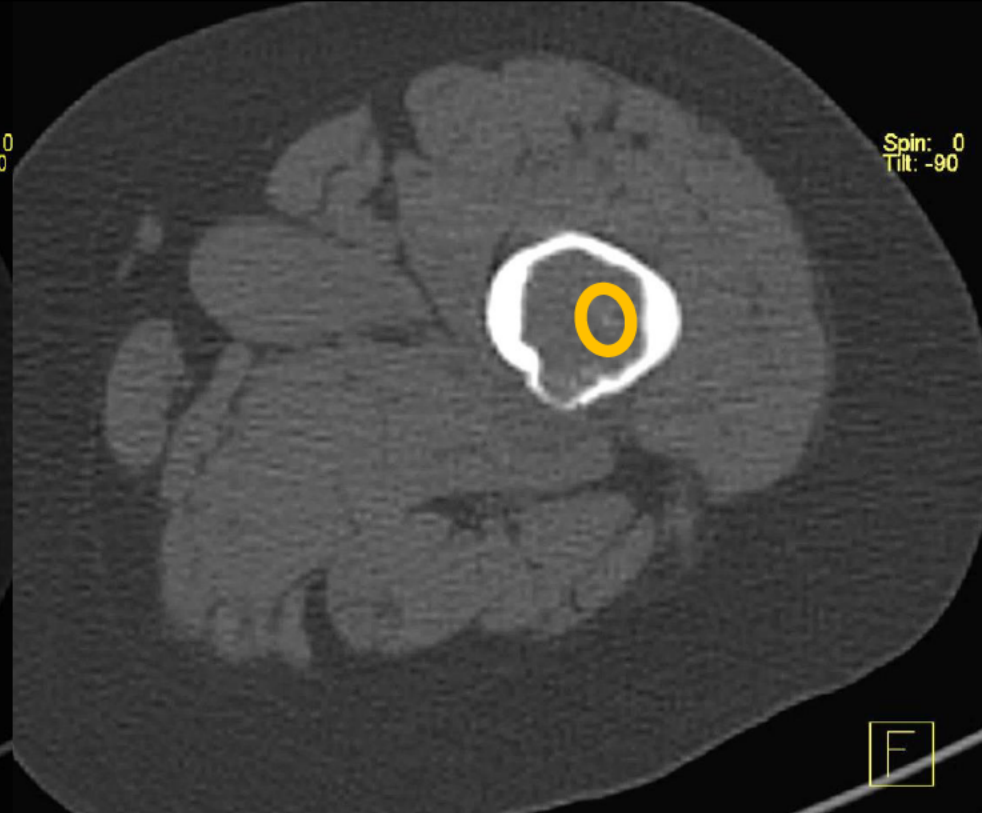
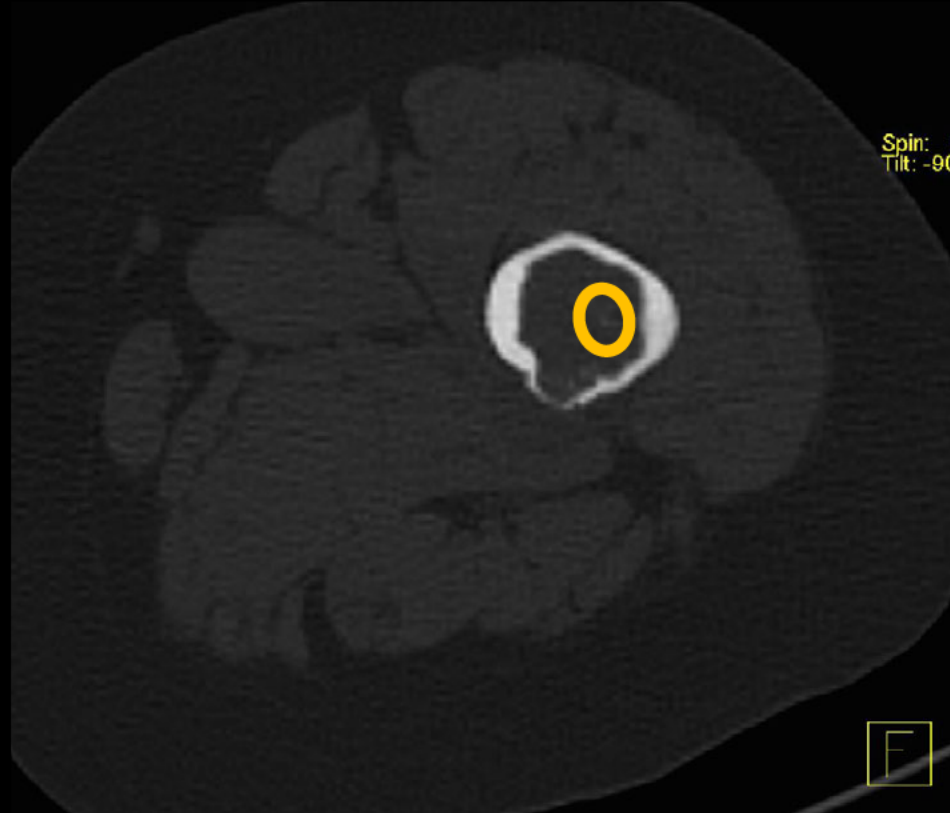
FEMUR LEI POOL

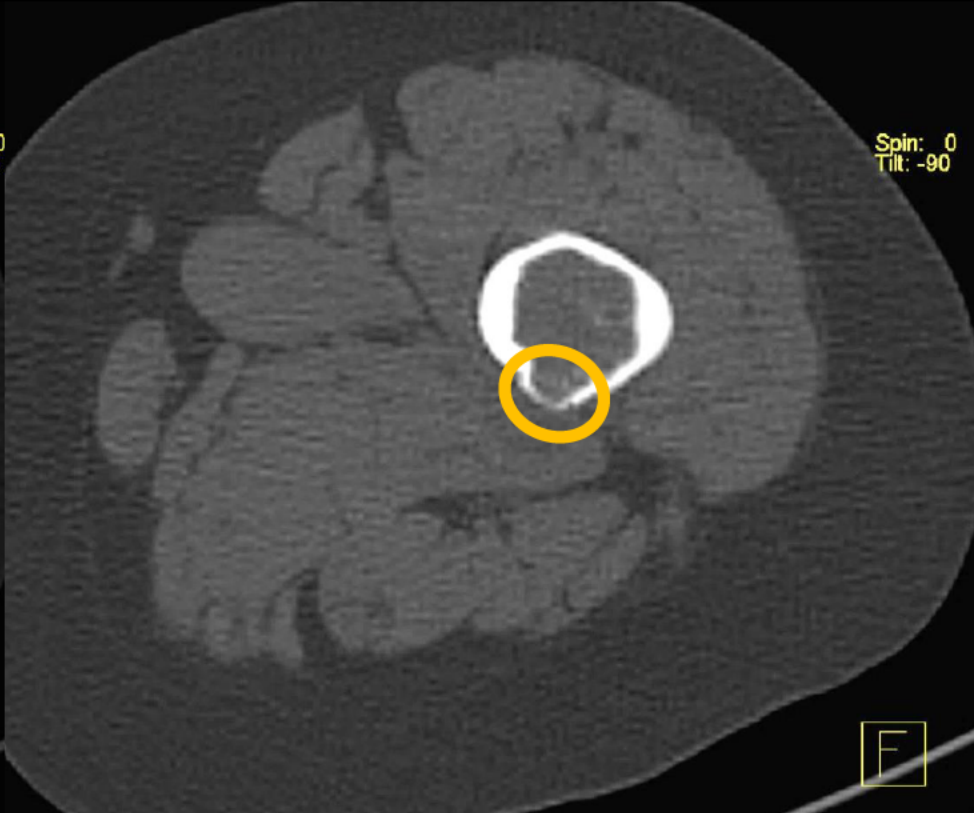
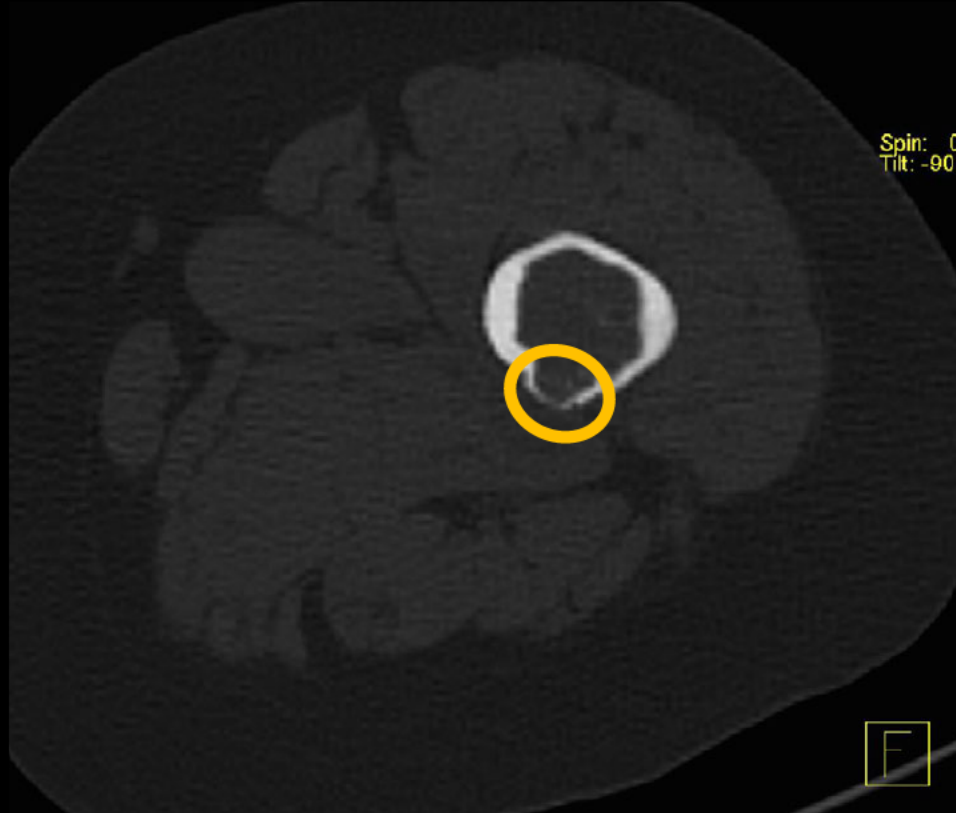


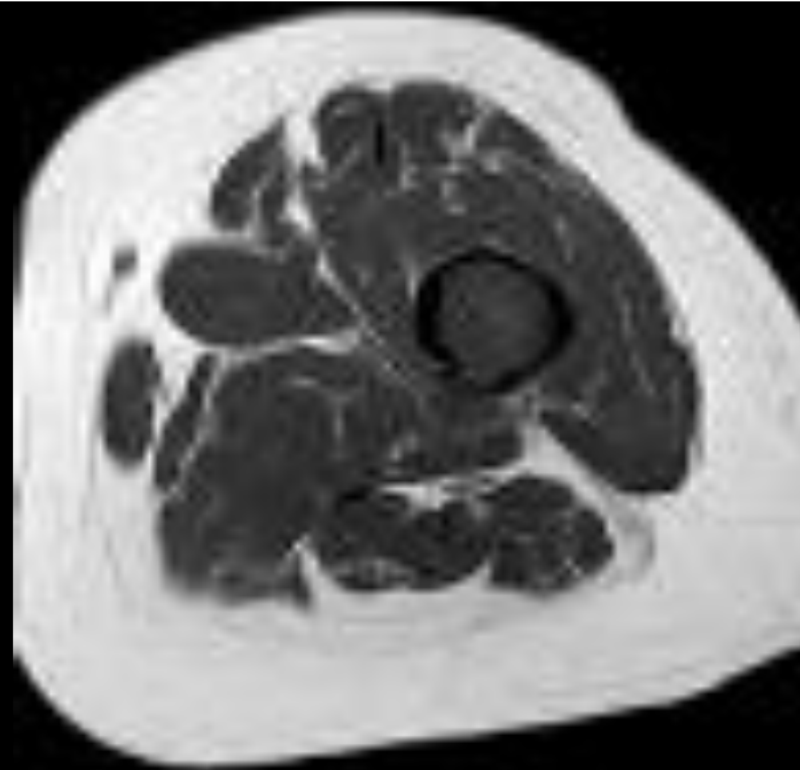
FEMUR LED POOL



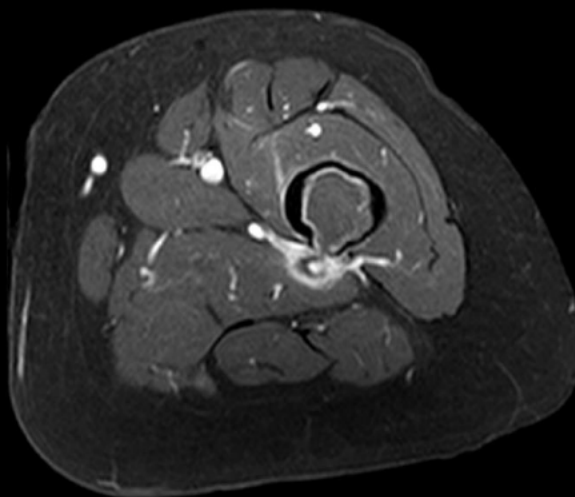
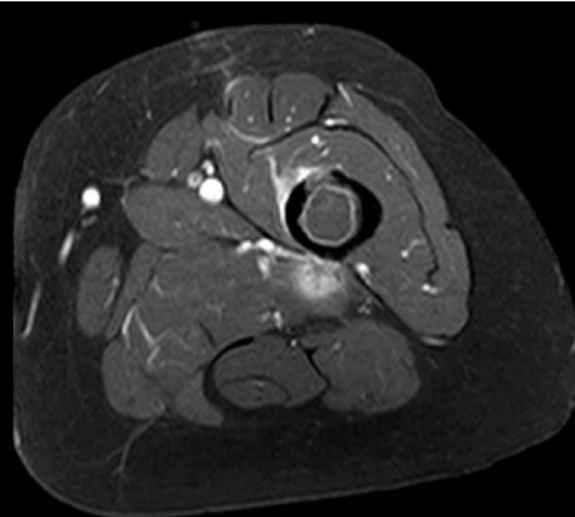




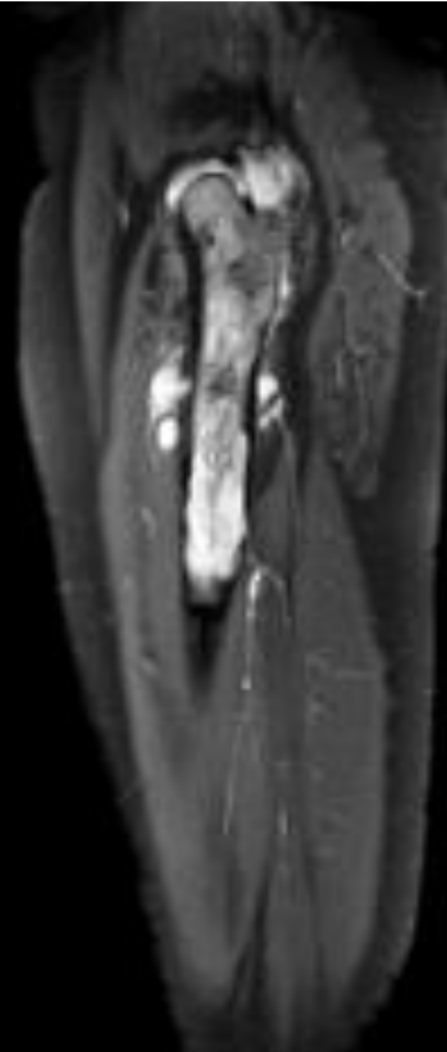




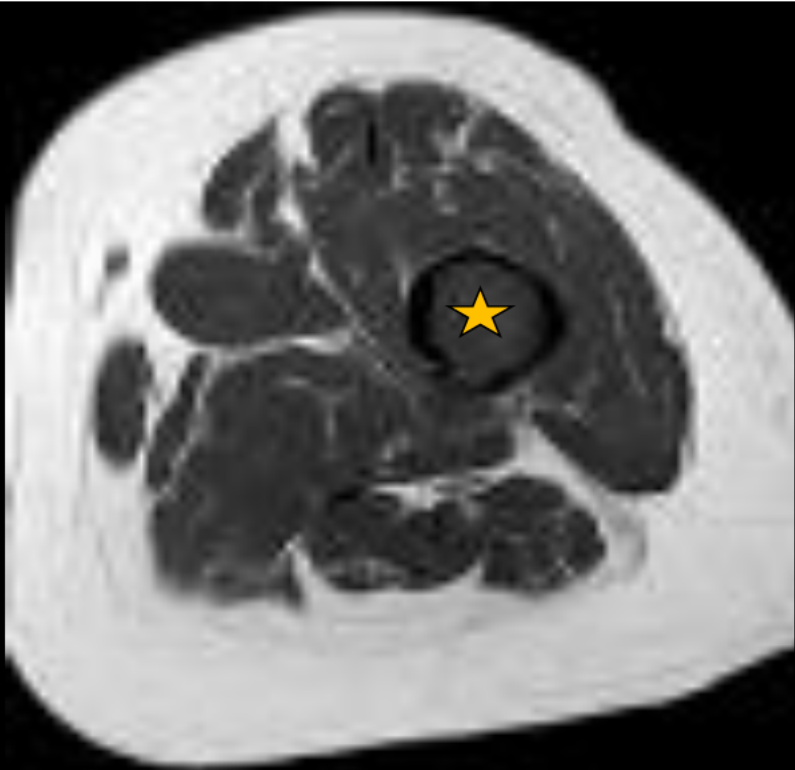
T1



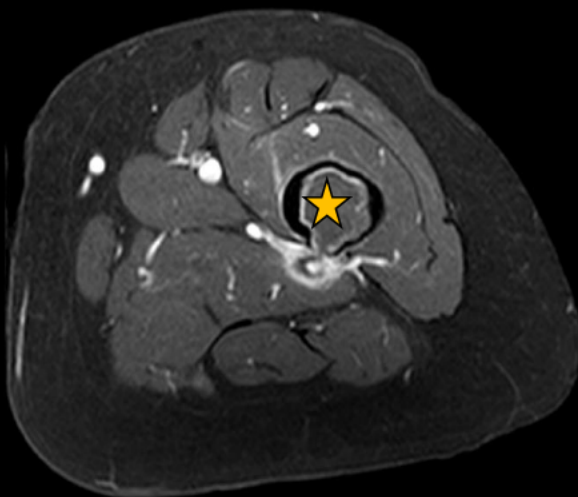
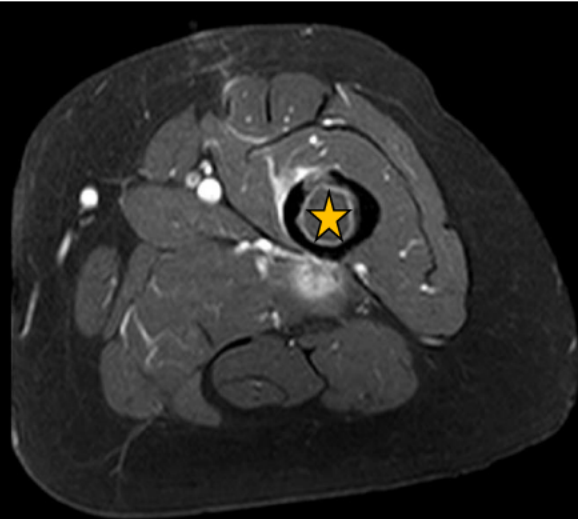
T1 FS C+



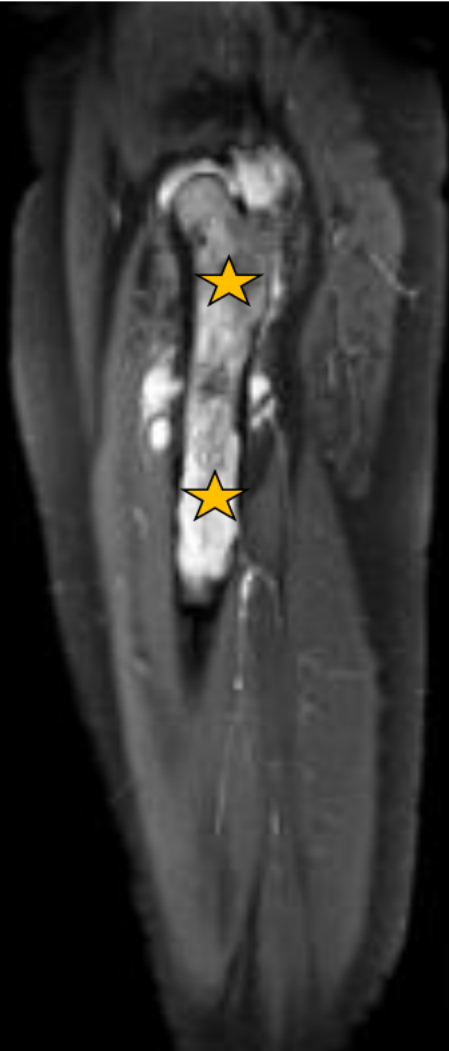
T2 FS



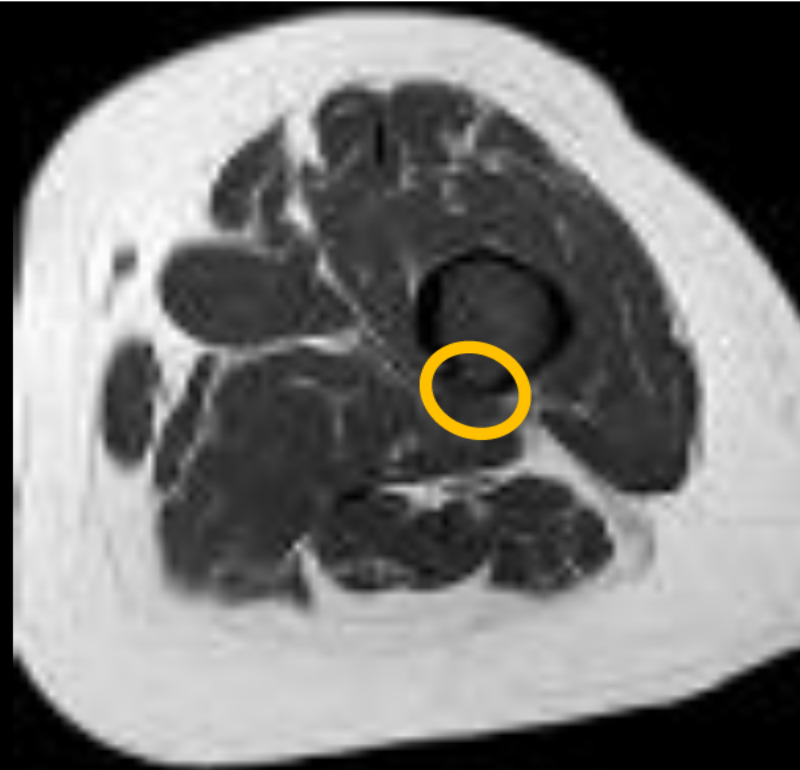
T1



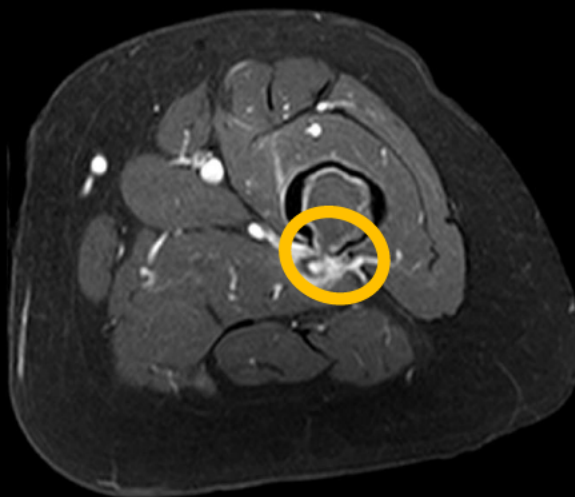
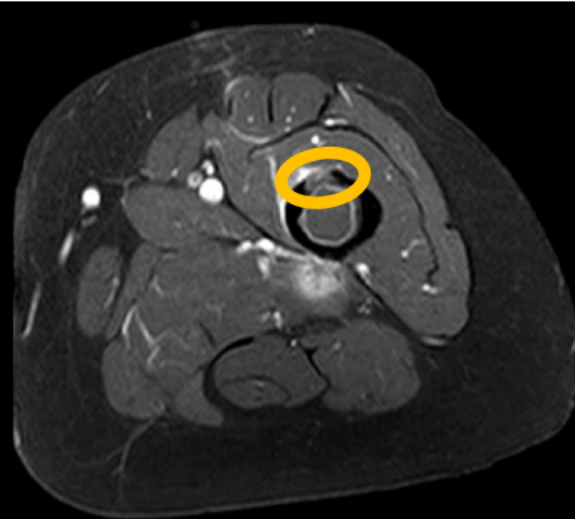
T1 FS C+



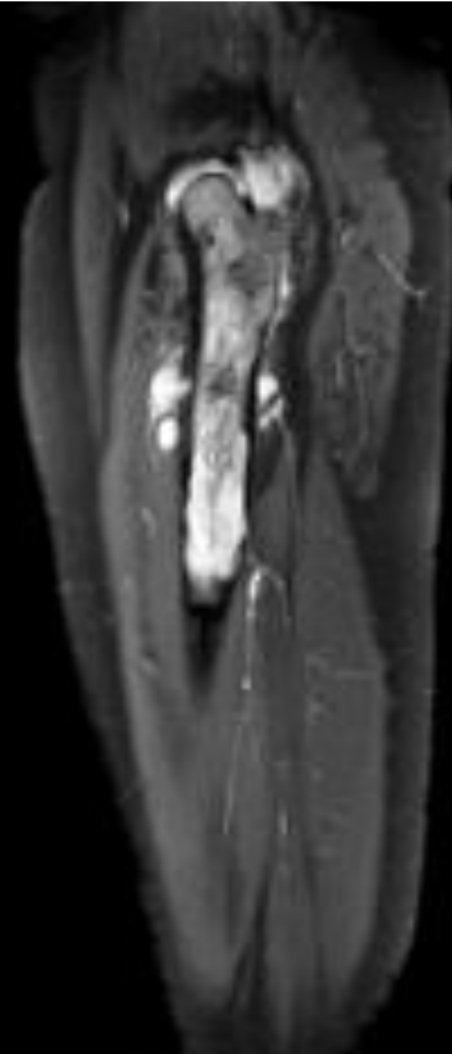
T2 FS



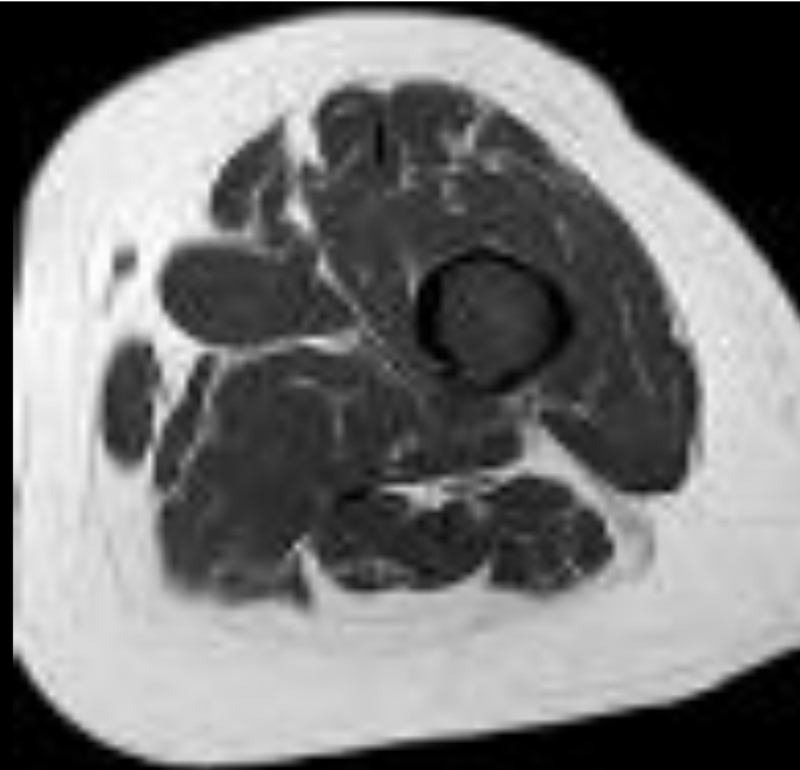
T1



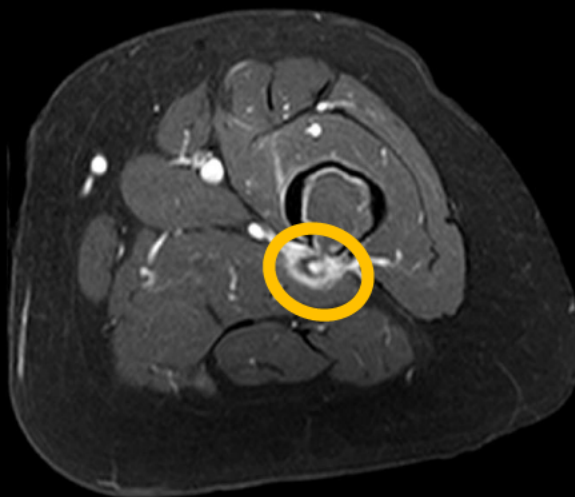
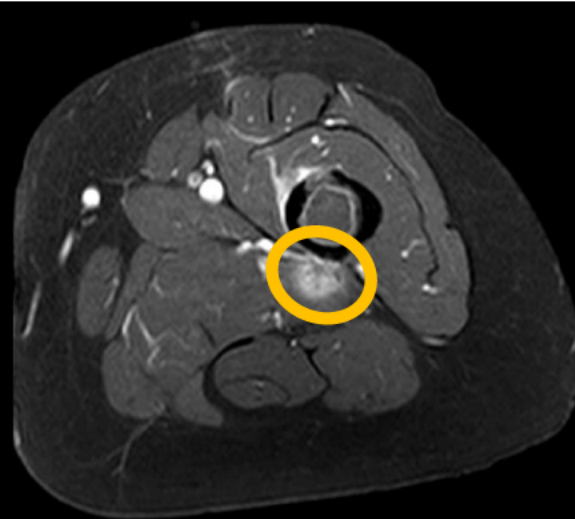
T1 FS C+



T2 FS



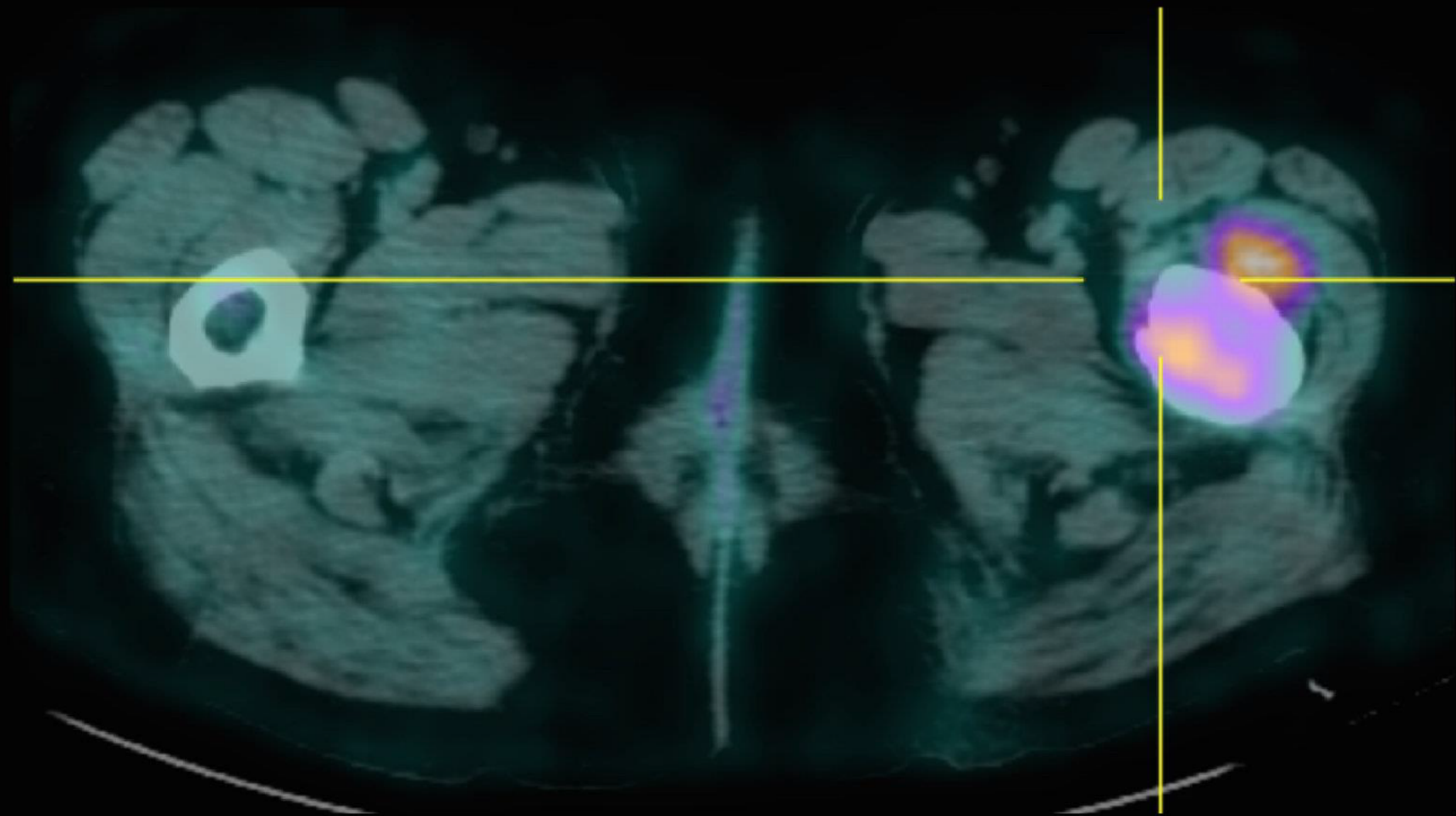
T1

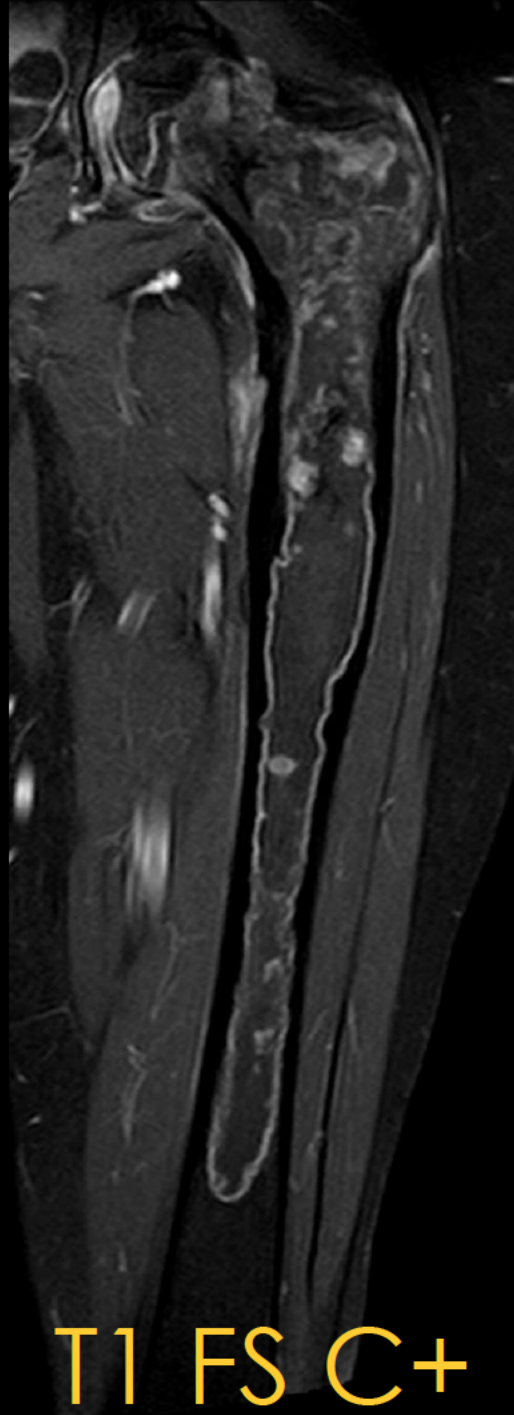


T1 FS C+



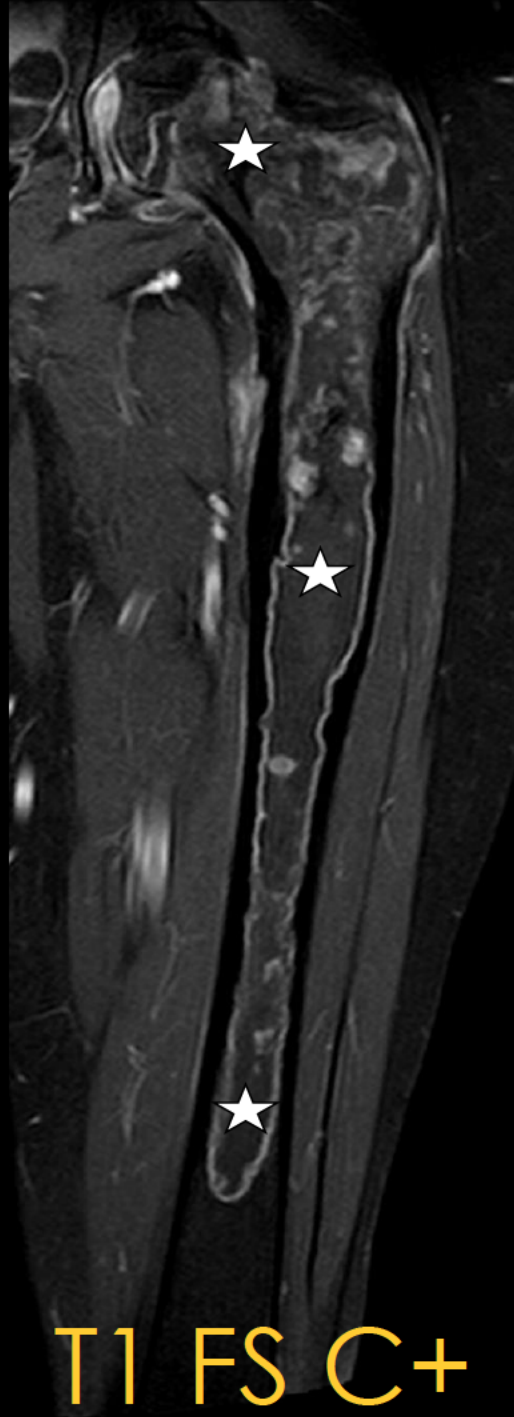
T2 FS

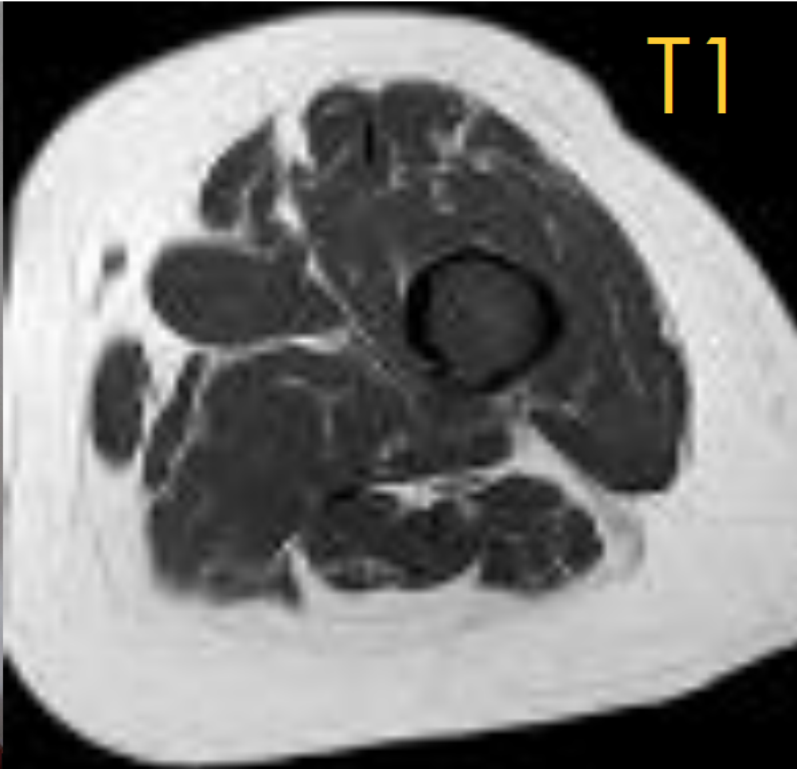




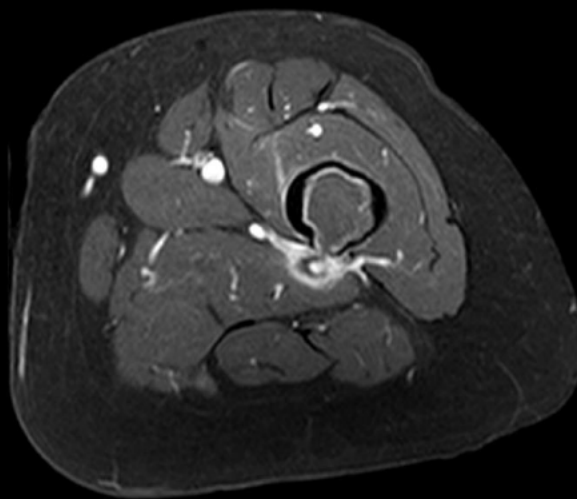
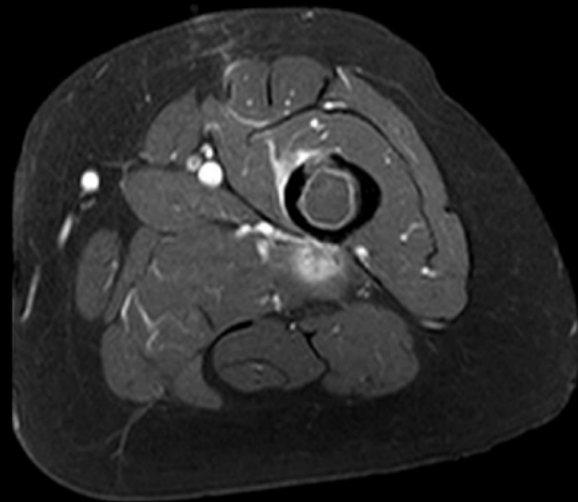
T1 FS C+



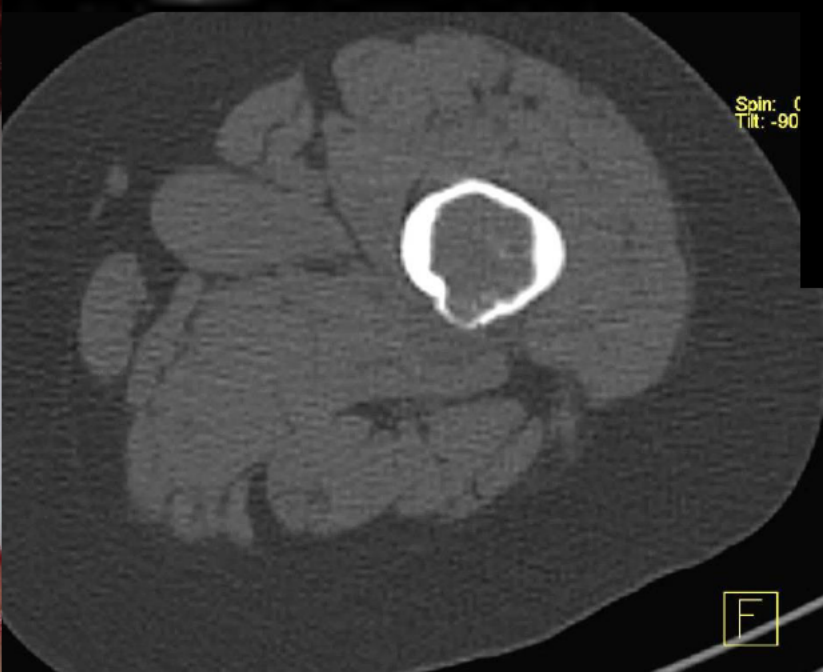




T1

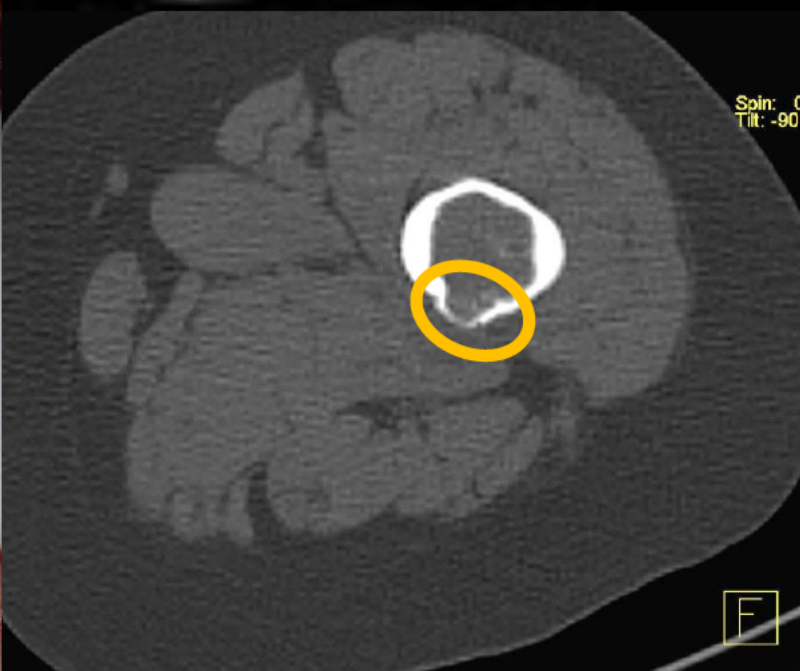
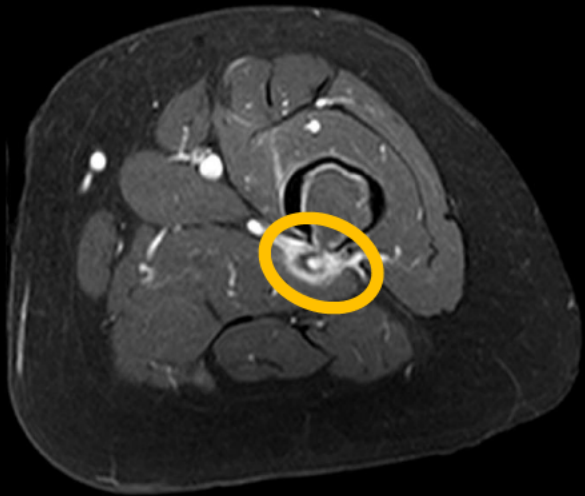
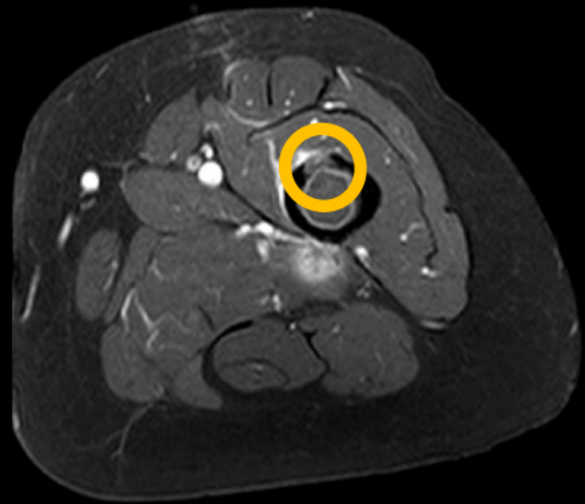
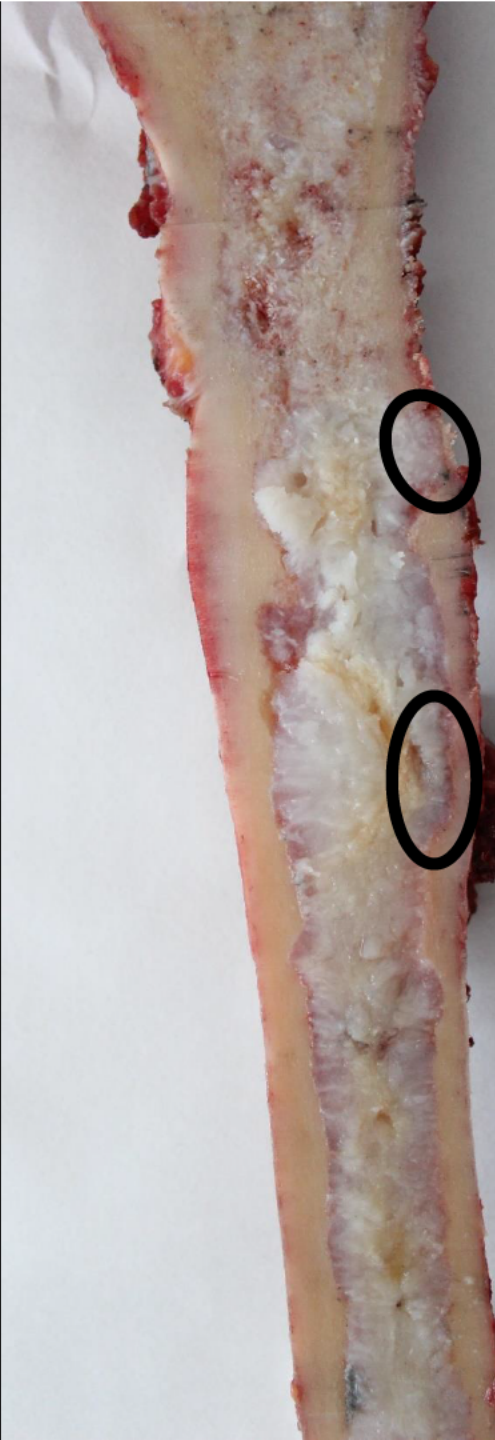


T1 FS C+

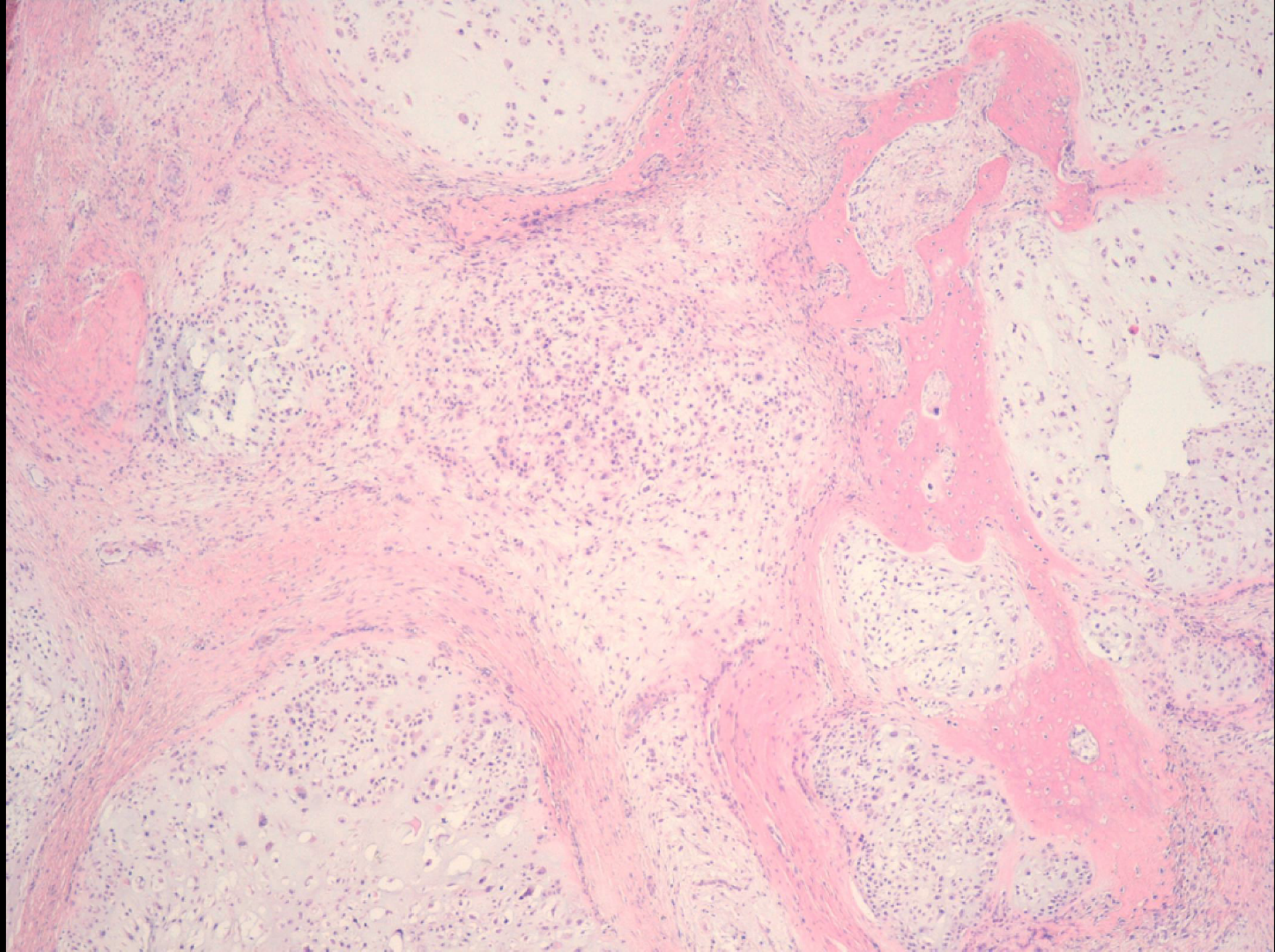


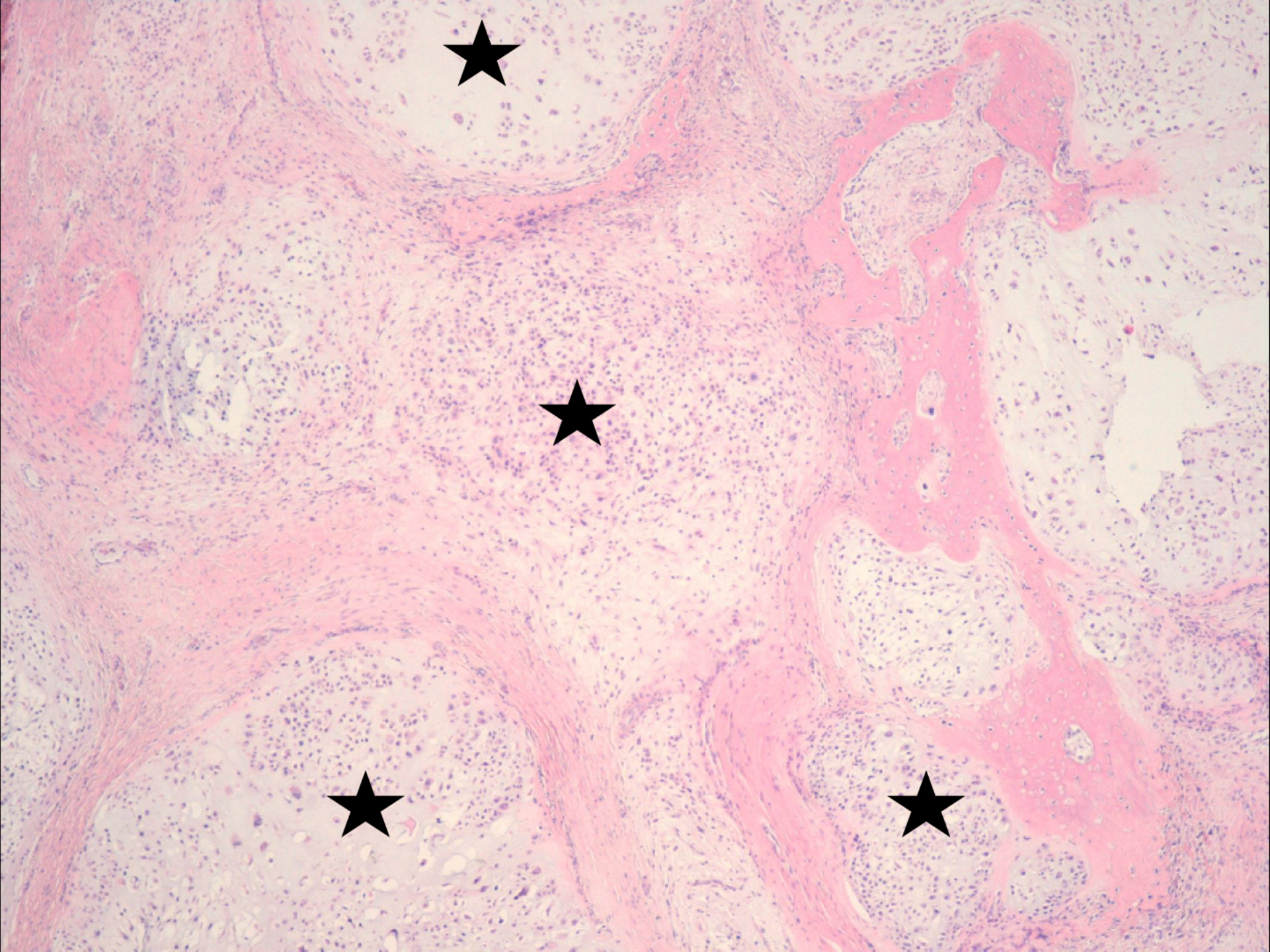
Spin: 0
Tilt: -90

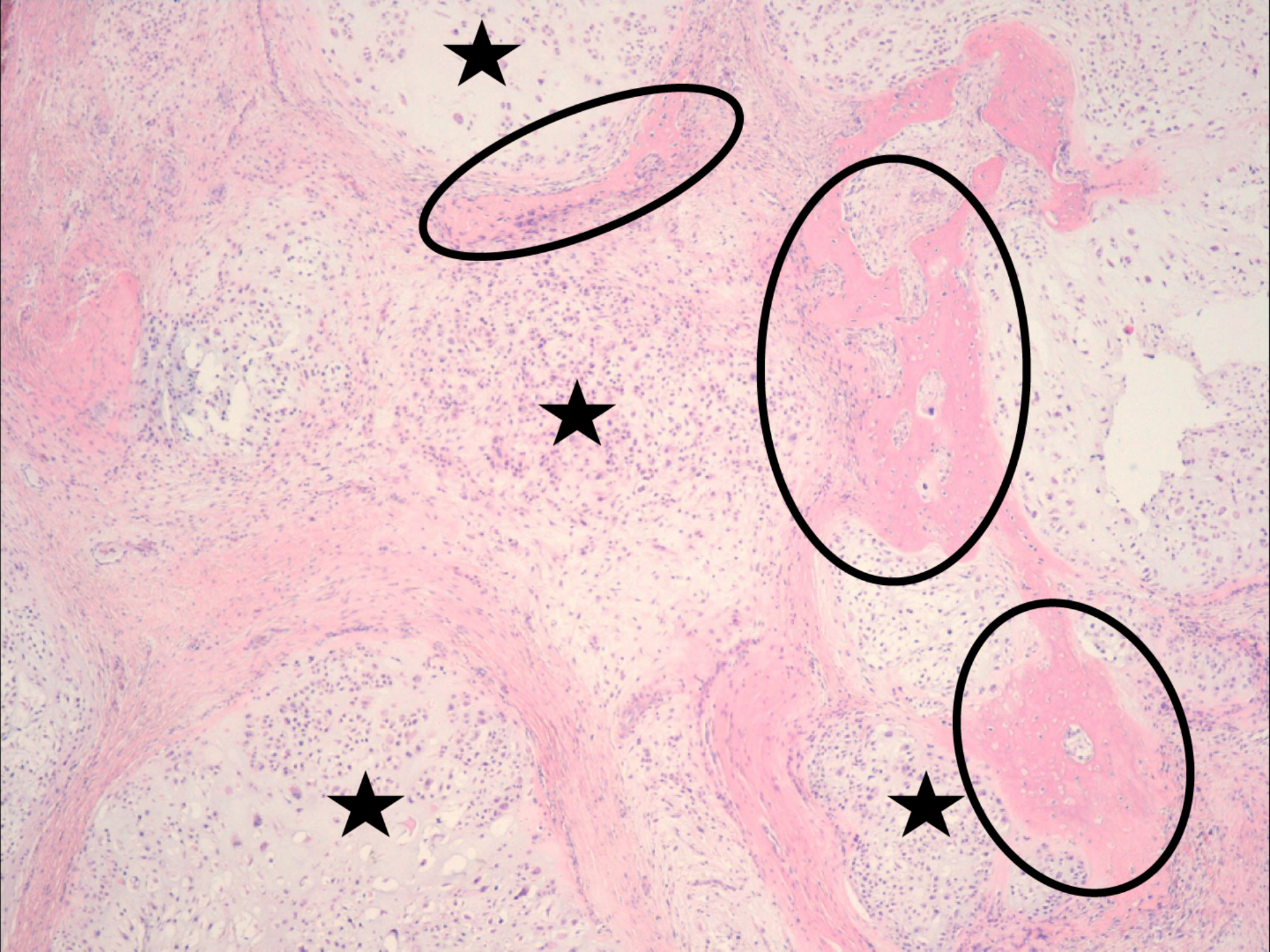
F

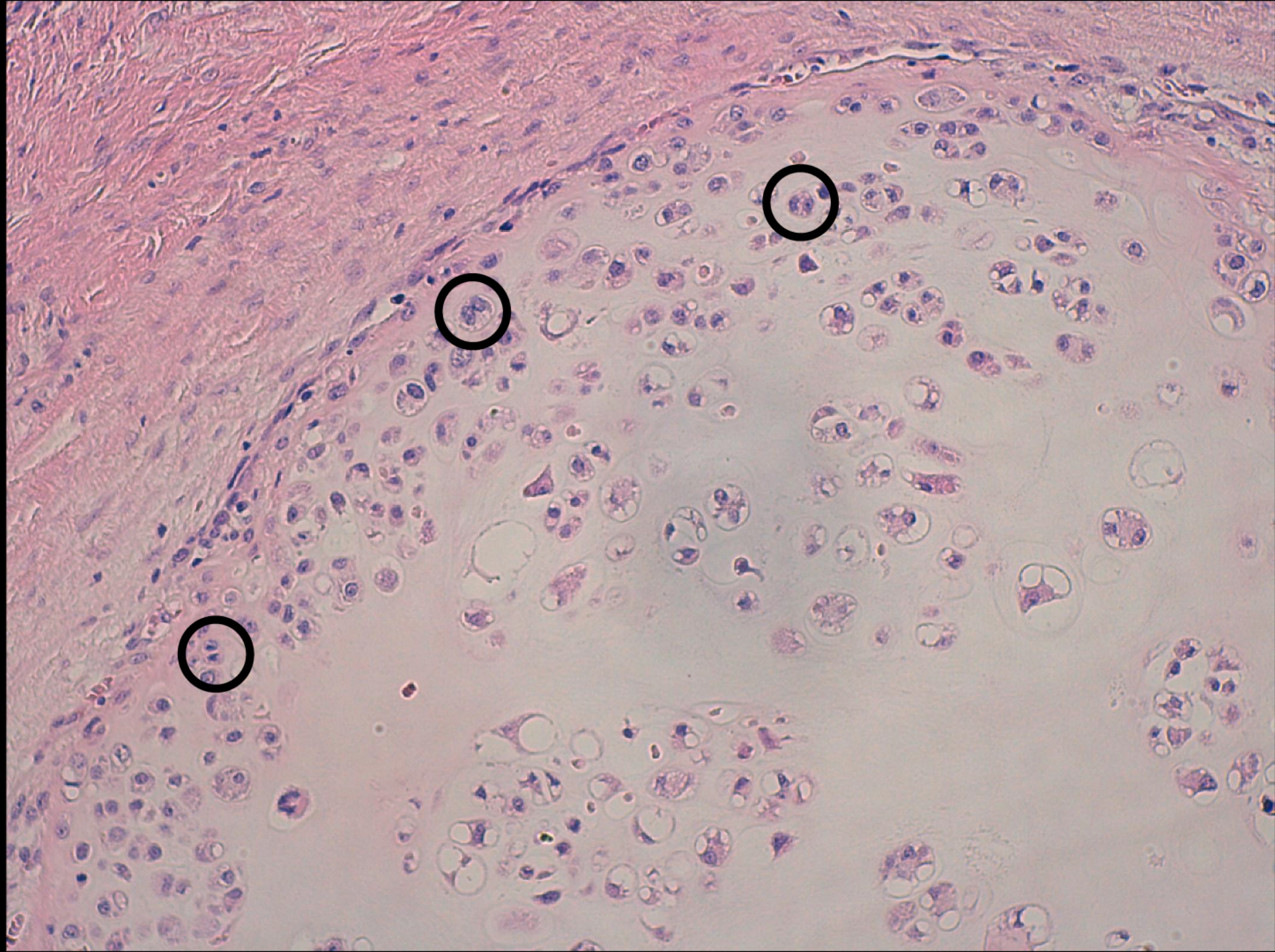


T1 FS C+









INTRAMEDULLARY CHONDROSARCOMA

Dr. Elena López Banet

**Hospital Clínico Universitario Virgen de la Arrixaca
Murcia, Spain**

AIRPTM

**AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY**

**A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY**

Gastrointestinal Best Case



AIRP™

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

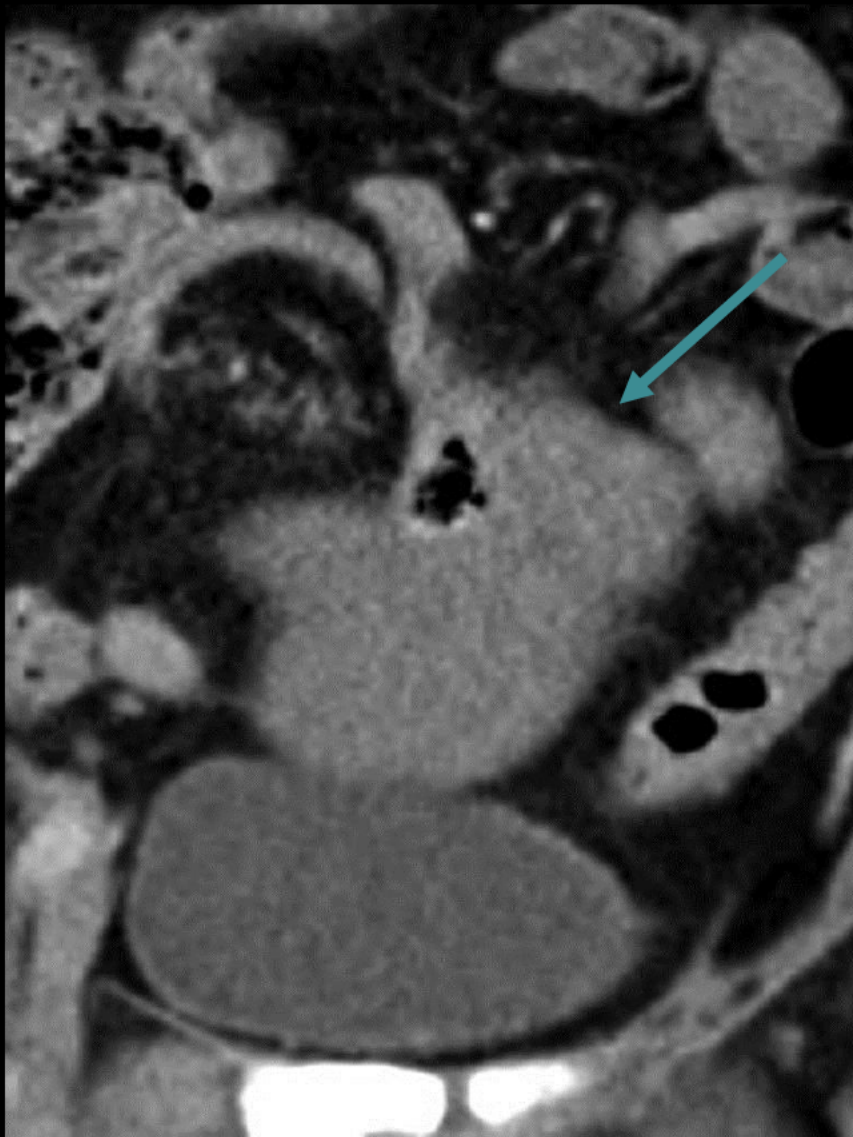
Clinical information

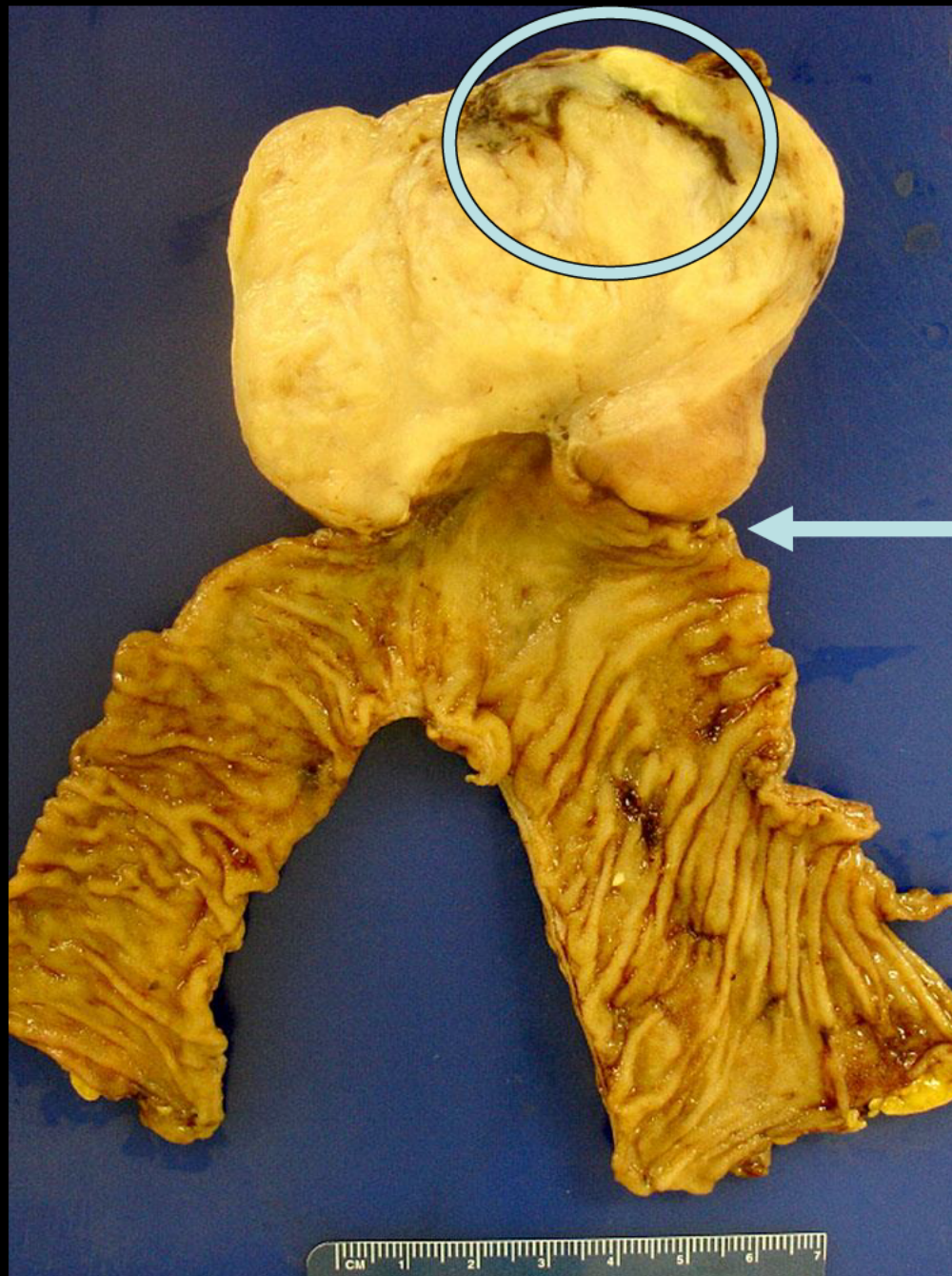
52 year old male presented to the ED with progressive vague abdominal pain, without fever, diarrhea, constipation or change in weight or appetite.

AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



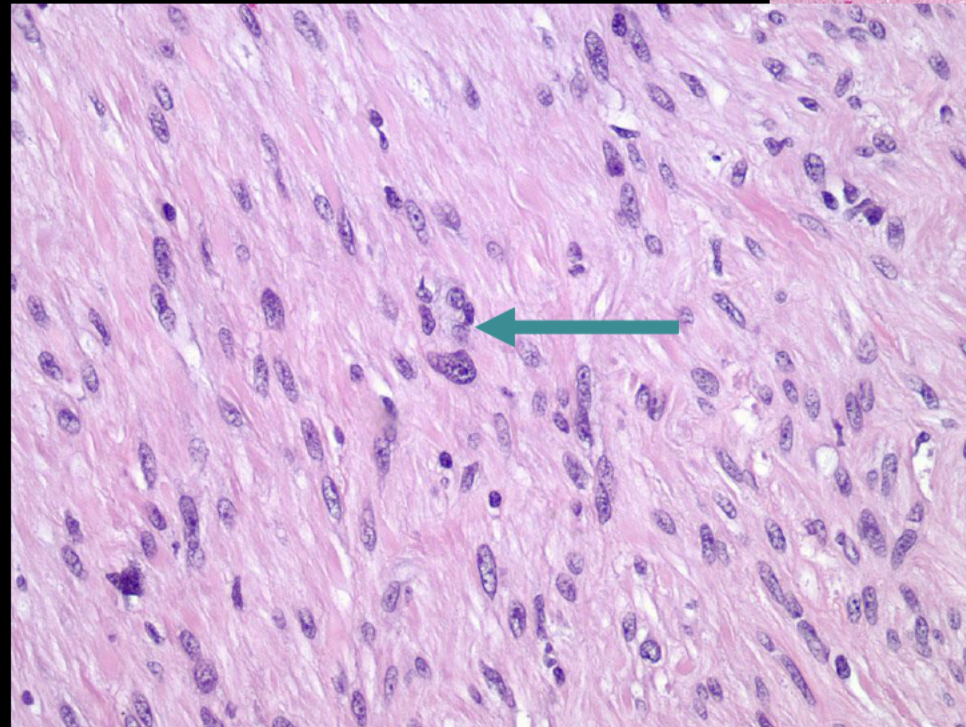
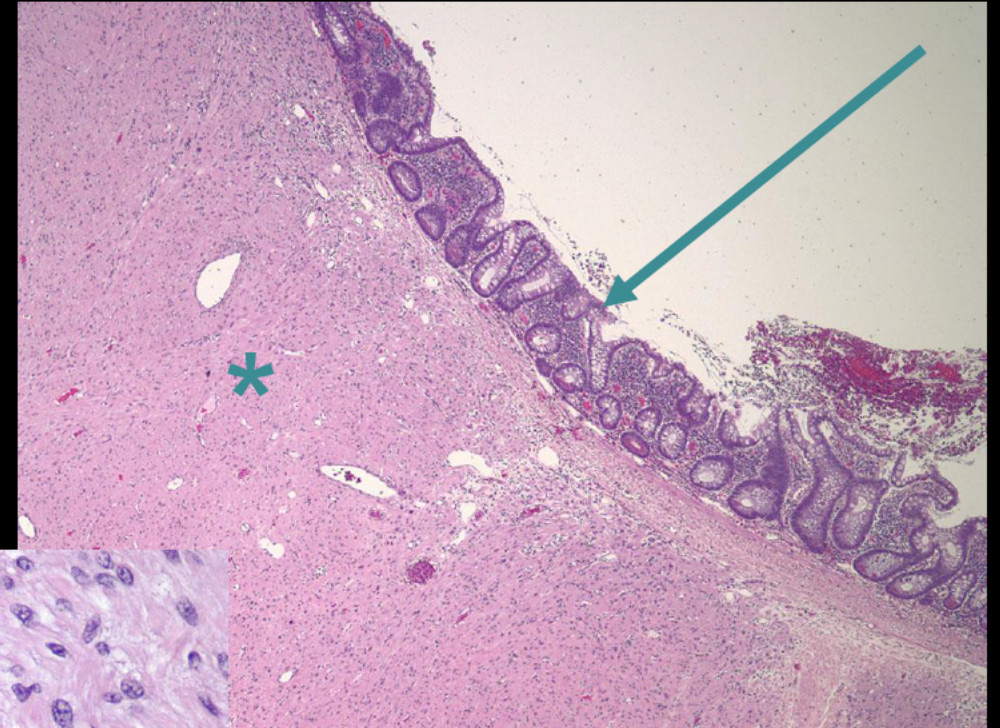


AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Immunohistochemistry:
(+) Desmin, smooth muscle actin
(-) C-KIT, DOG1, S100, B-catenin



Leiomyosarcoma of the small bowel

Sowmya Mahalingam, M.D.
Yale New Haven Hospital
New Haven, CT

AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Neuroradiology Best Case



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

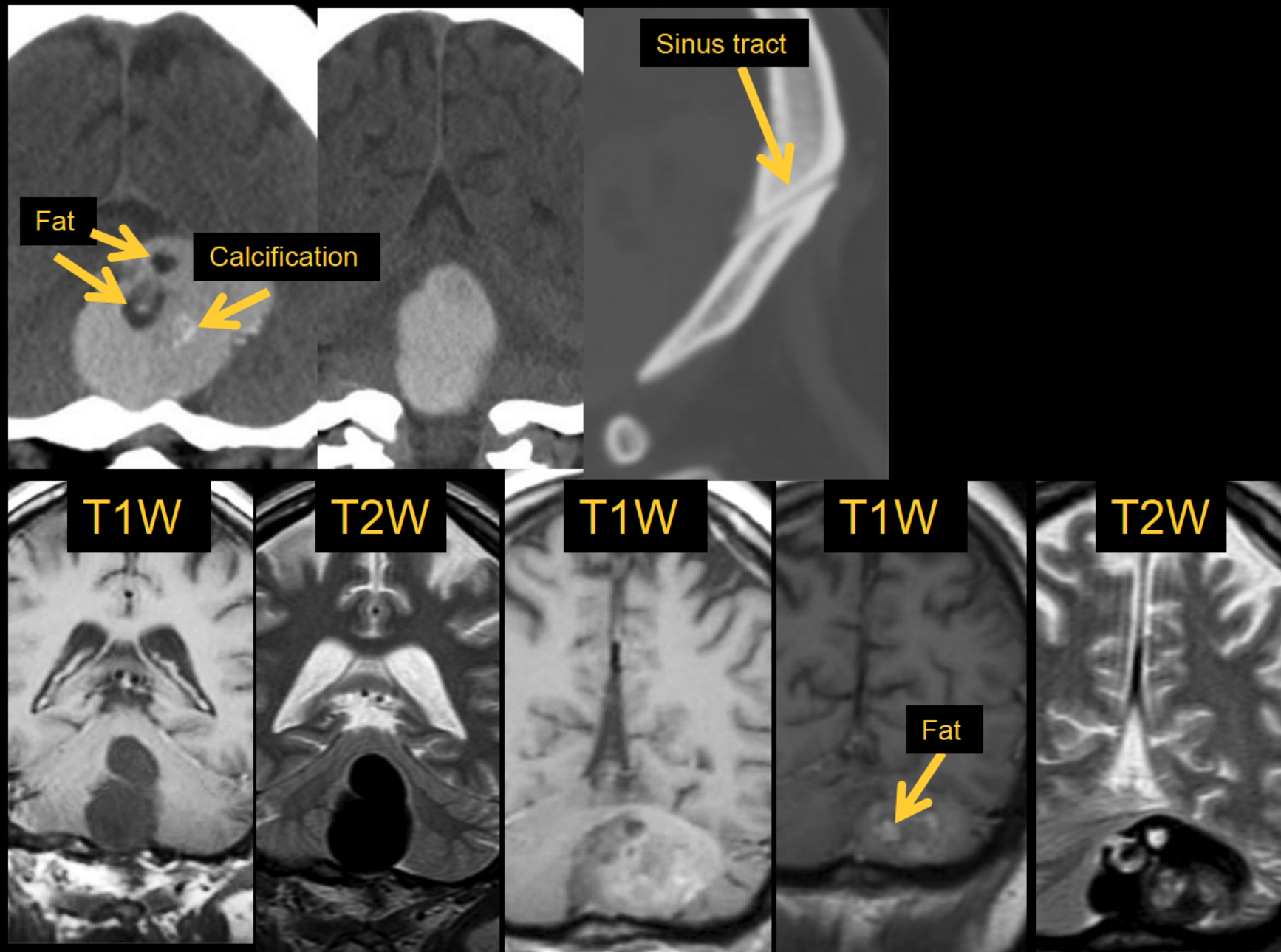
History

29-year-old female with type I diabetes and several months of nausea, vomiting, and decreased oral intake. Treated for diabetic gastroparesis. Persistent symptoms warranted neurologic evaluation.



**AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY**

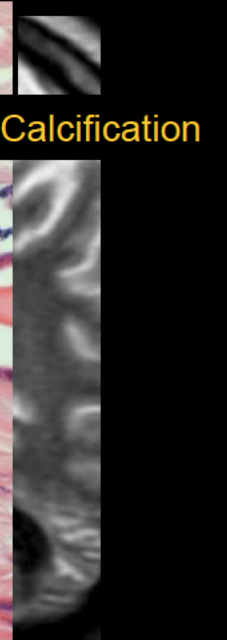
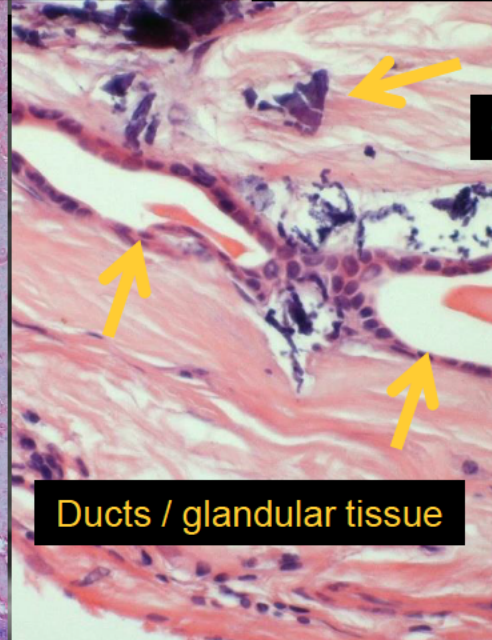
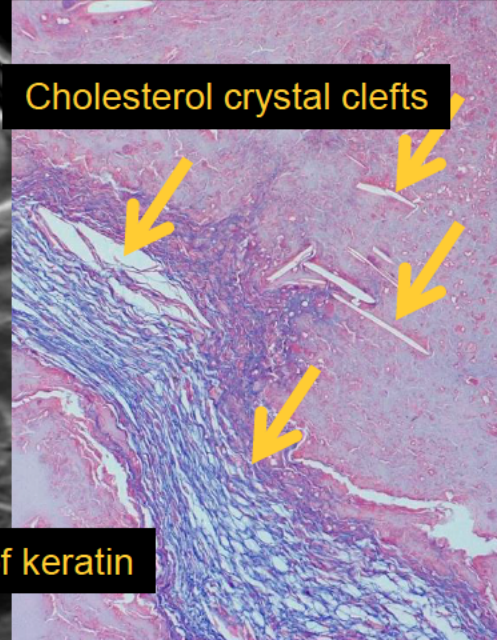
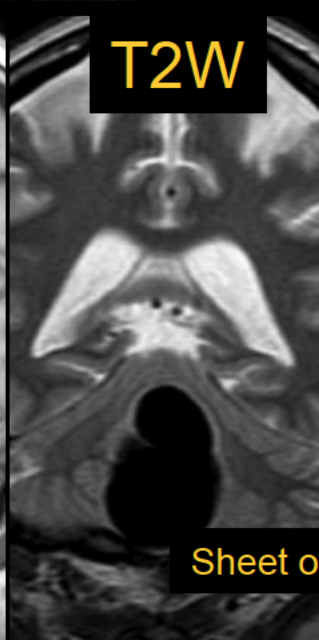
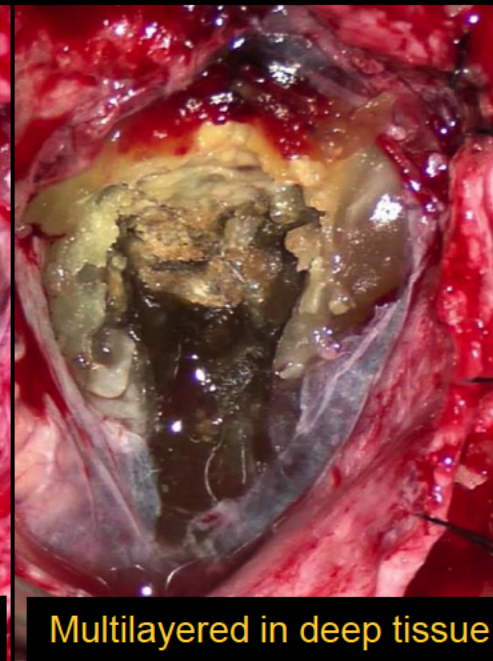
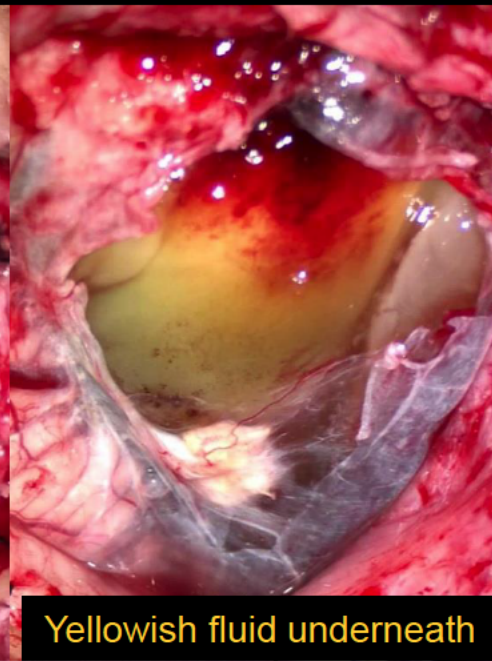
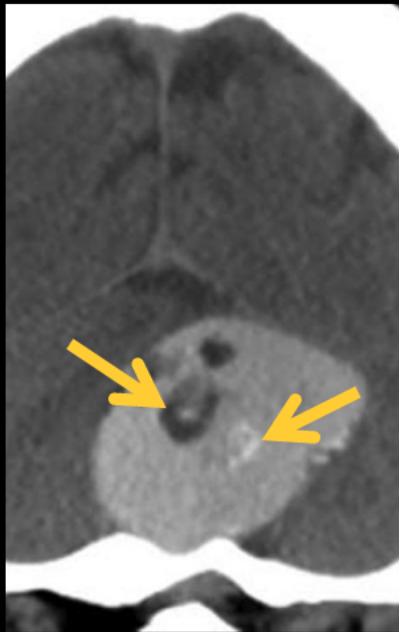
**A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY**



AIRP™

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



Dermoid

Kristen Launier, M.D.

Harbor UCLA Medical Center

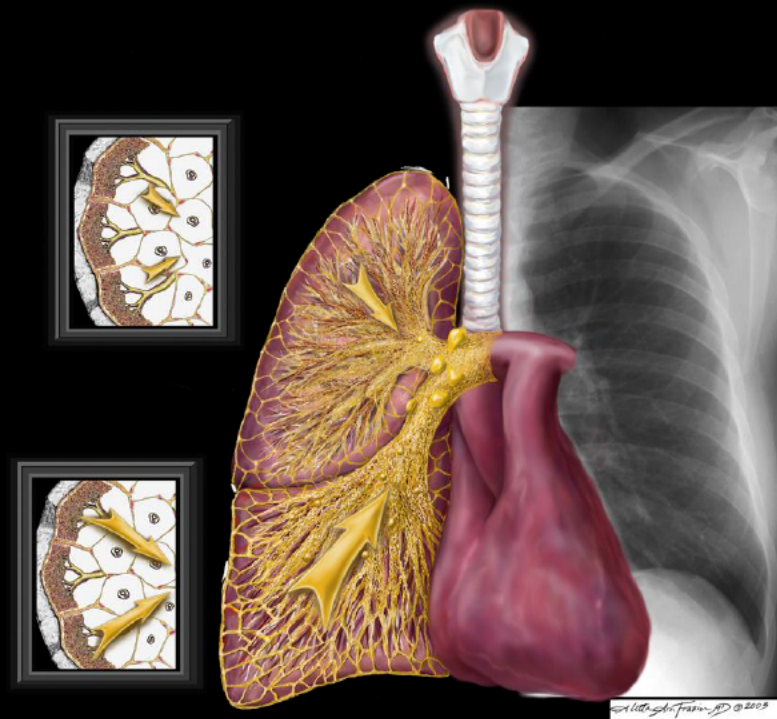
Torrance, CA

AIRPTM

**AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY**

**A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY**

Pulmonary and Mediastinal Best Case



AIRP™

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

History

53 year old female who carries a diagnosis of COPD with chronic cough and mild obstructive pattern on pulmonary functions. The patient has a history of breast cancer and was found to have a pulmonary nodule on follow up imaging

Multiple nodules



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Multiple nodules: MIP image



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Multiple nodules: MinIP image

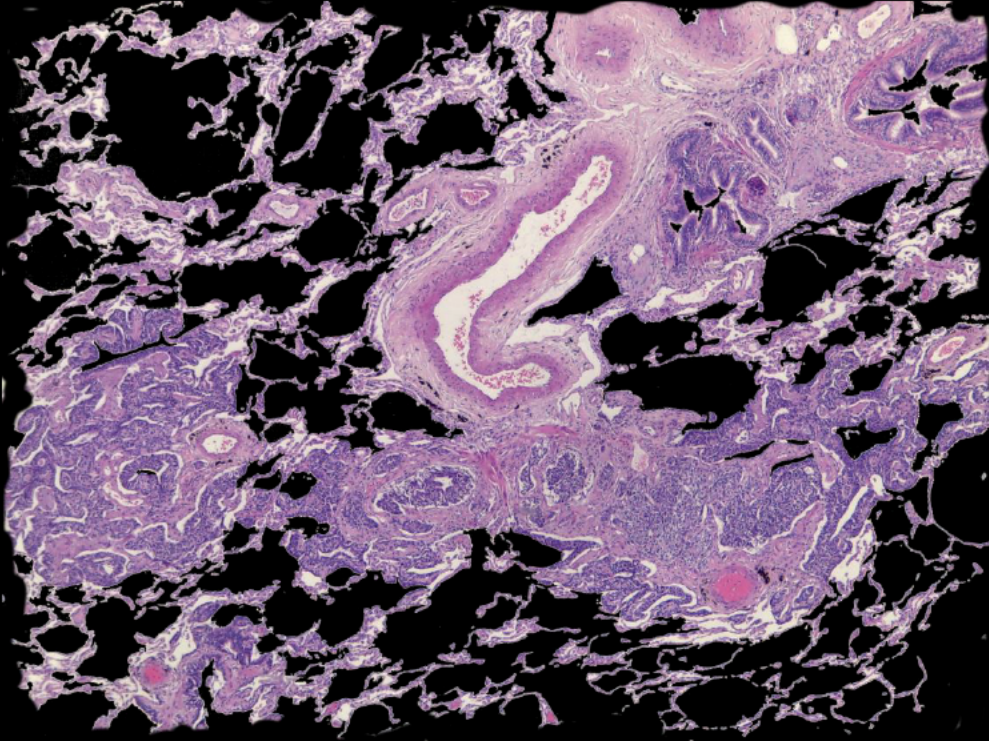


AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

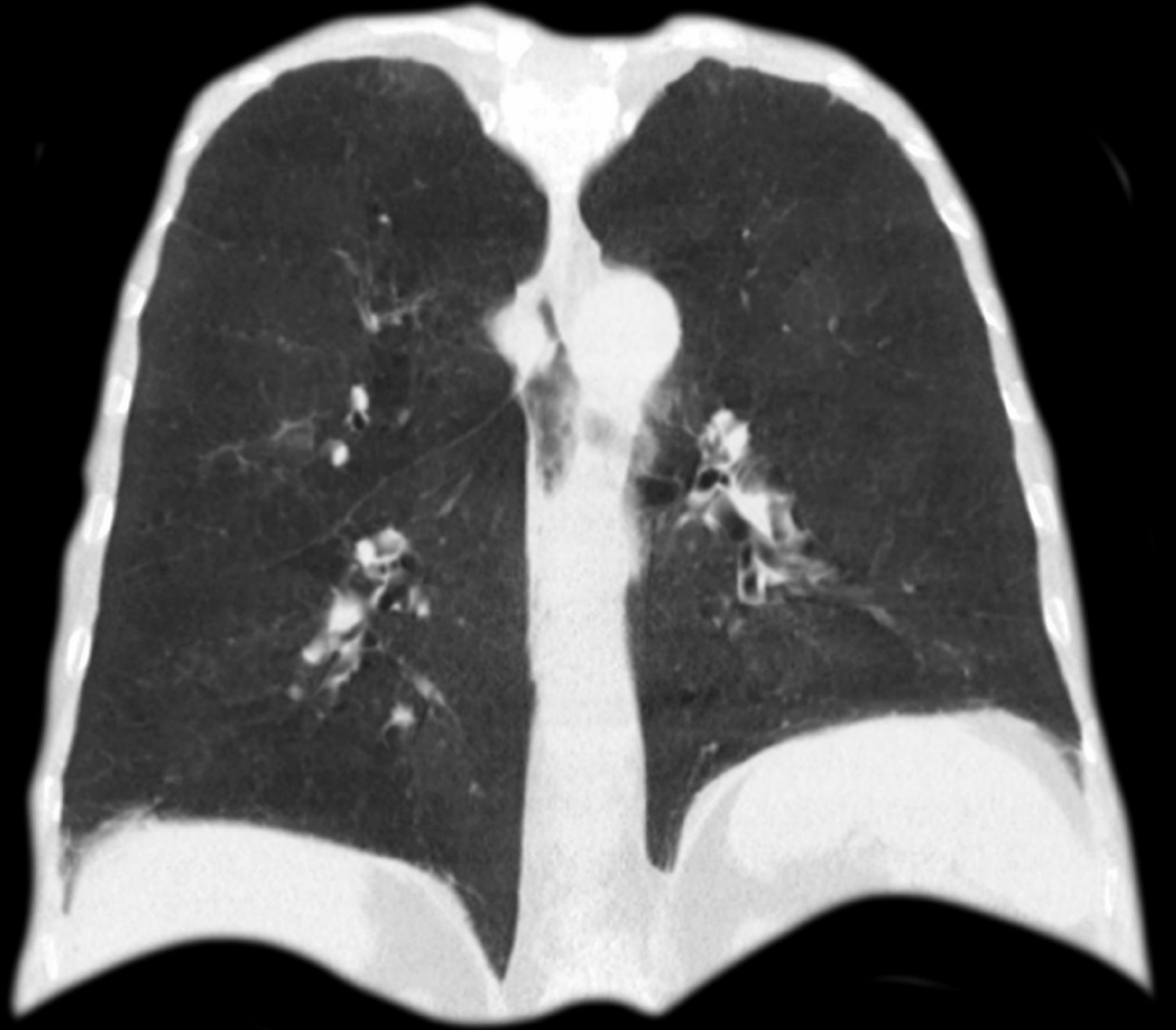
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Mosaic attenuation: airway narrowing from neuroendocrine cells

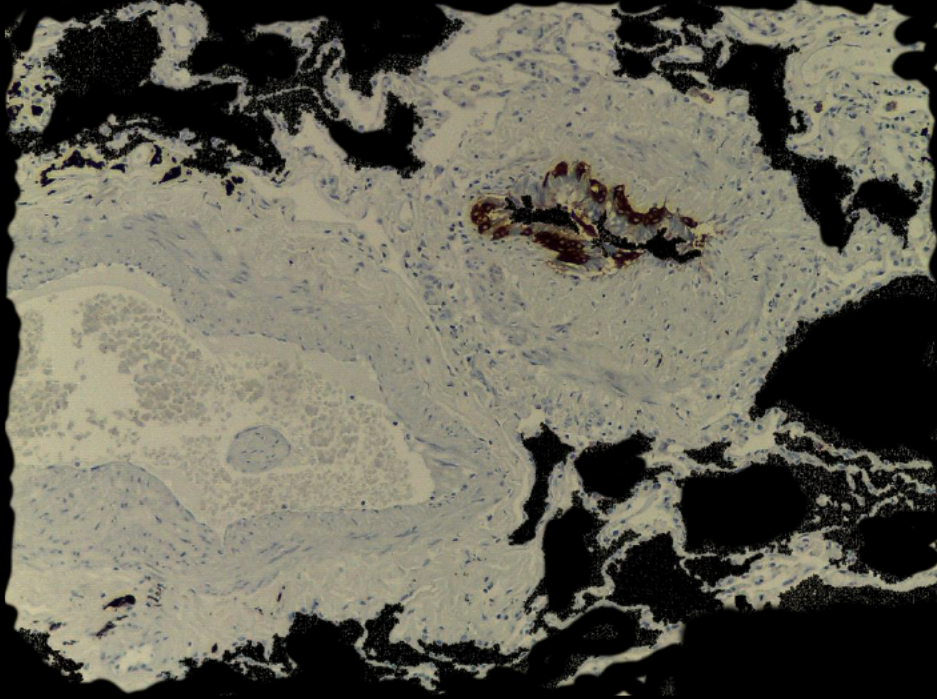


AIRPTM
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



Chromagranin A positive airway cells (neuroendocrine)



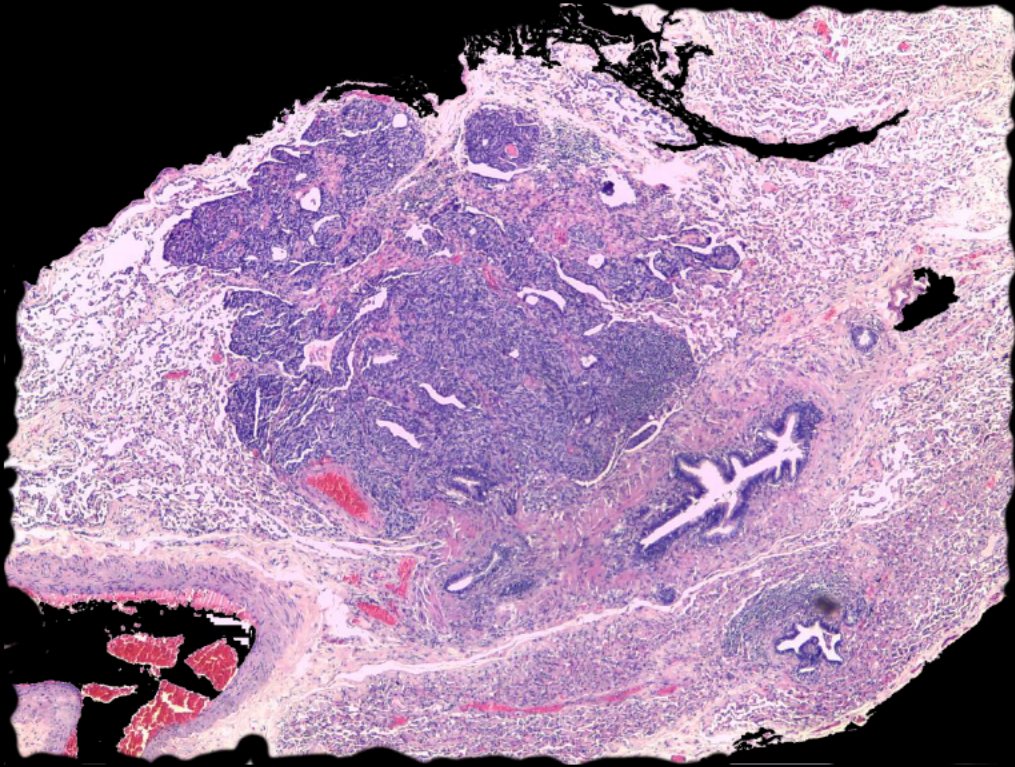
AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



Multiple nodules: neuroendocrine tumorlets

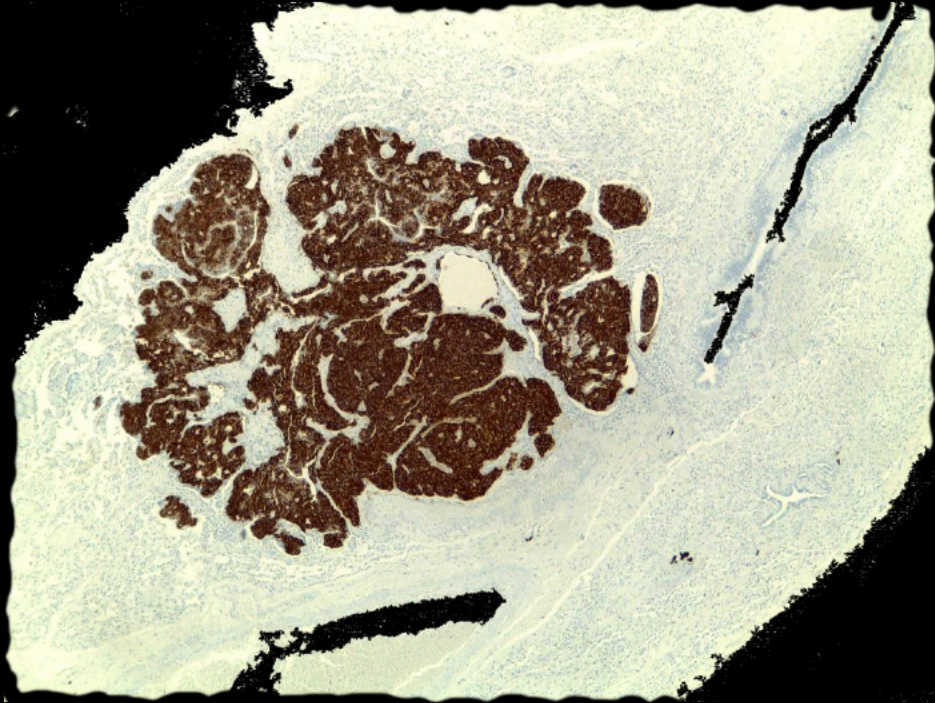


AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Multiple nodules: Chromagranin A positive



AIRPTM
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

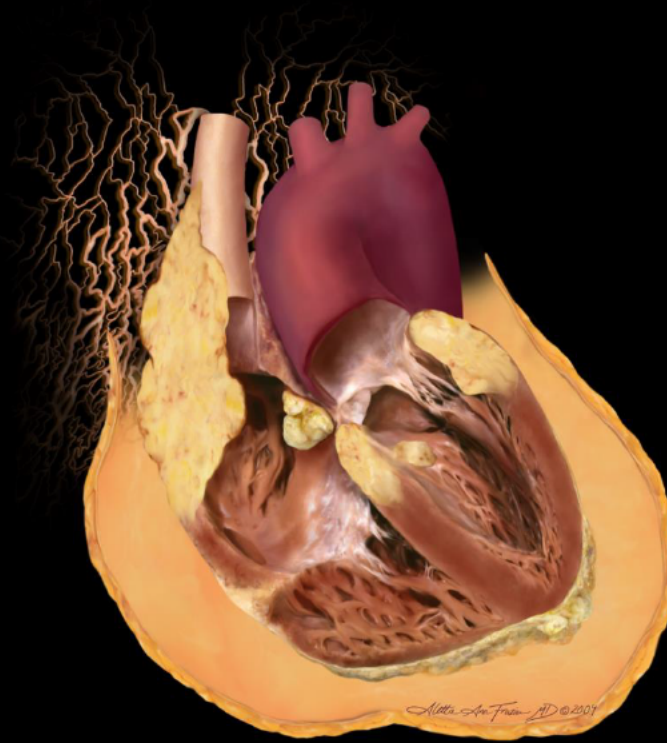
Diffuse Idiopathic Neuroendocrine Cell Hyperplasia DIPNECH

**Márcio Rodrigues, MD
Centro Hospitalar S. Joao
Porto, Portugal**



A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Cardiovascular Best Case

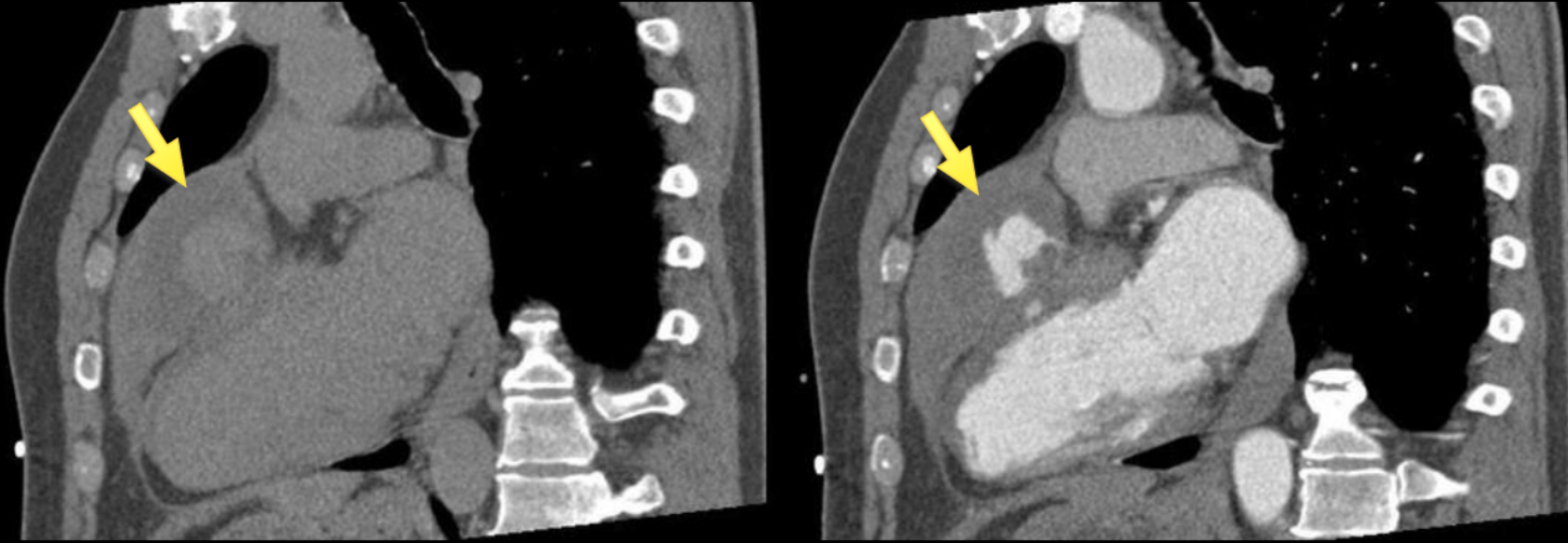


AIRP™

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

**51 year old male with anginal chest pain.
EKG showed anterior infarction pattern
in LAD (left anterior descending
coronary aneurysm) territory.**



Cardiac CTA: oblique sagittal reformats (pre- and post-contrast) show a large abnormal contrast collection, possibly a coronary aneurysm or thick-walled cavity (yellow arrows) located at the anterior/superior aspect of the heart.

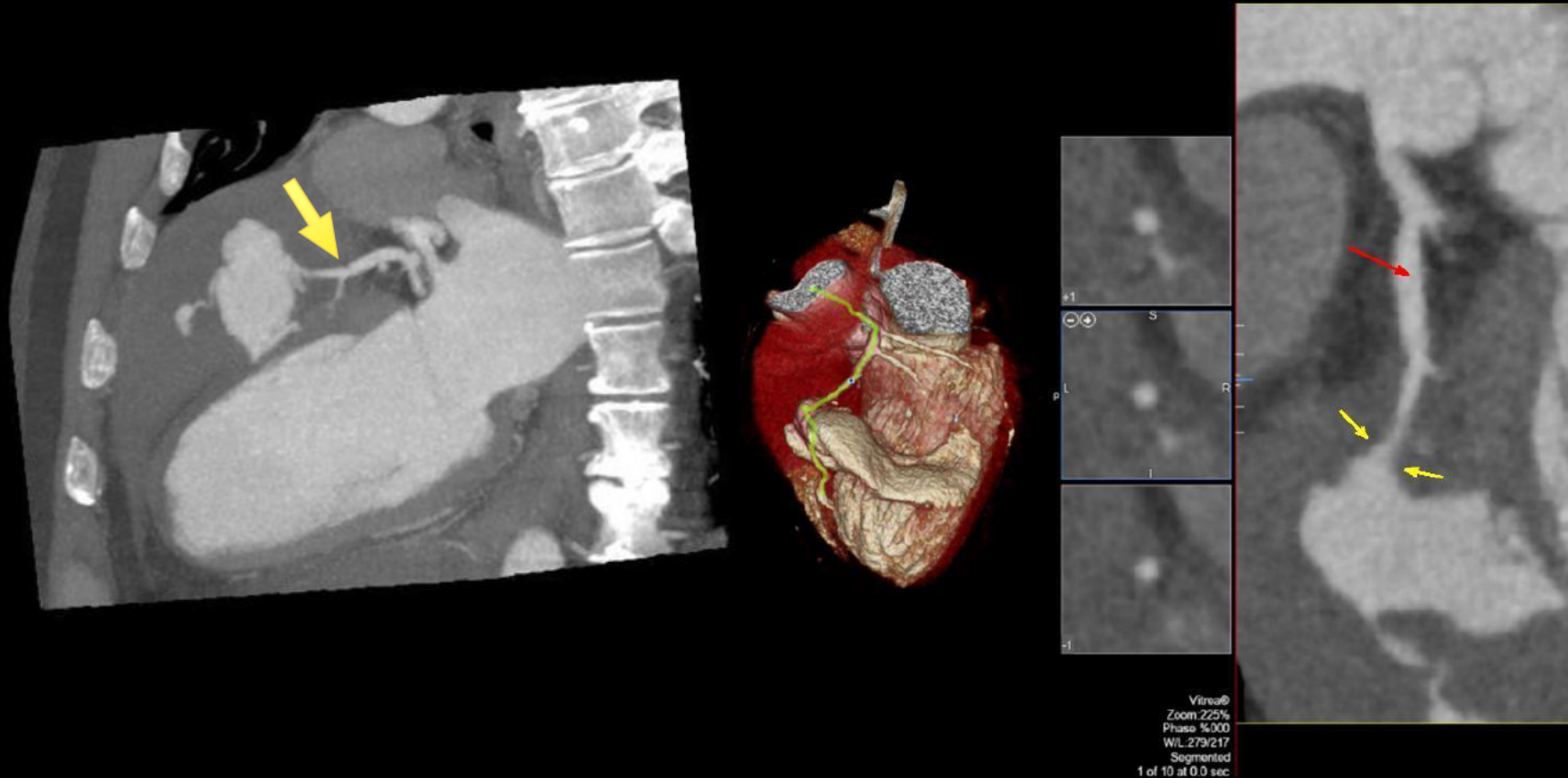


Cardiac CTA: oblique coronal reformat image shows a fistulous connection (red circle) between the left ventricle and contrast collection.

AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



Cardiac CTA: oblique MPR and straightened curved MPR with transverse slices further reveals the LAD (left anterior descending artery) also communicates with this large contrast collection along anterior cardiac surface.

AIRP™

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

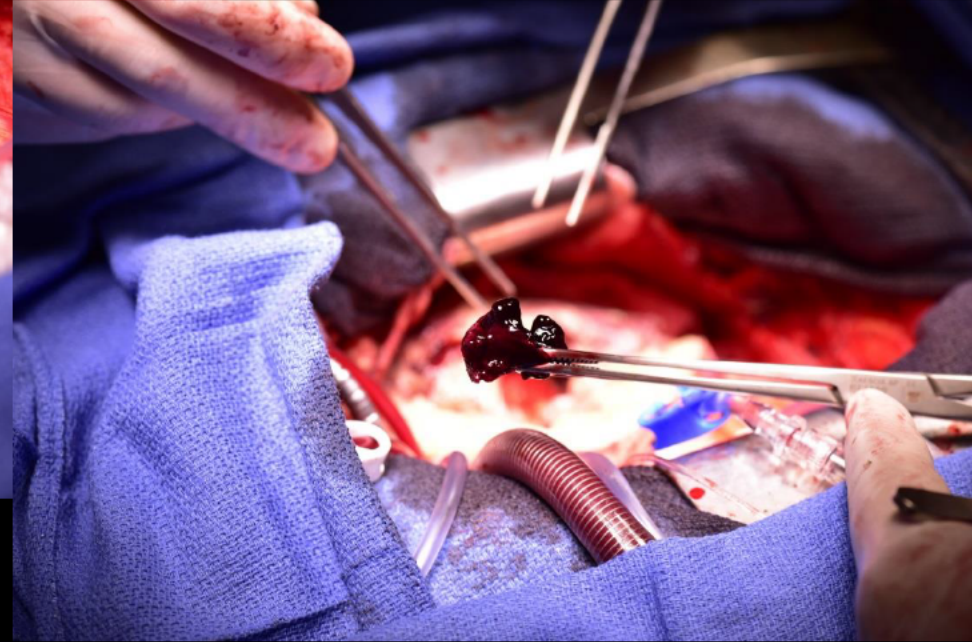
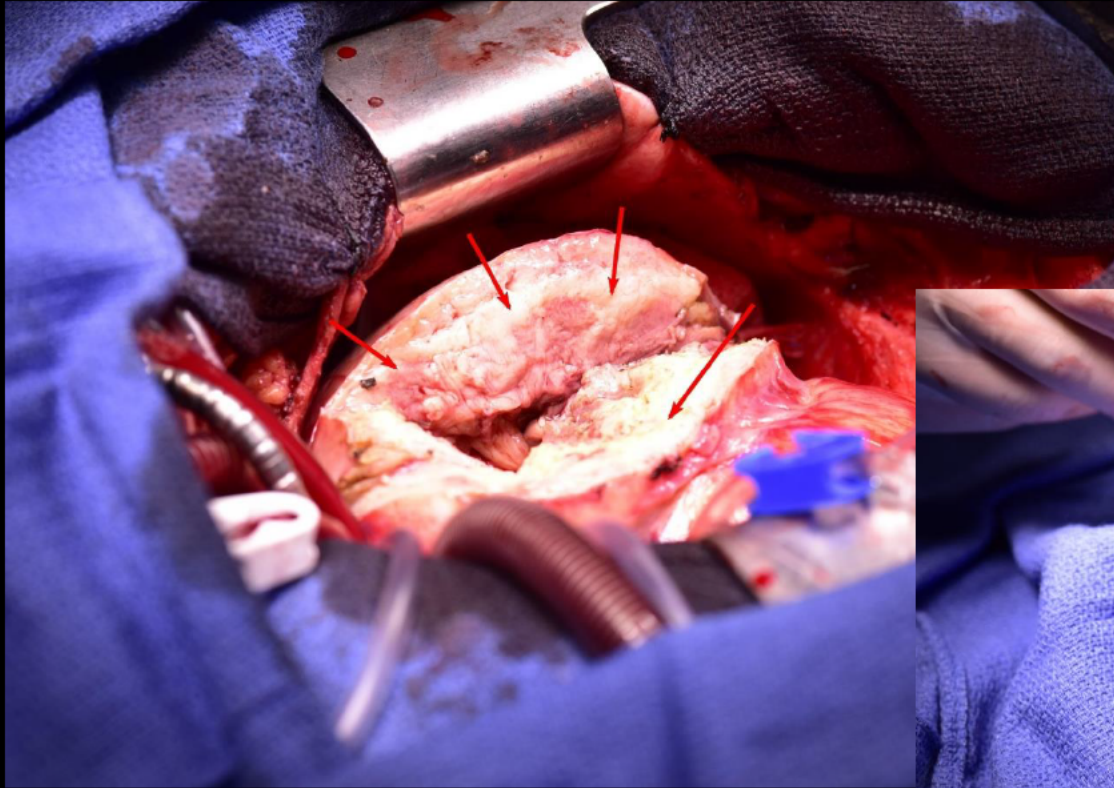


**Nuclear medicine FDG-PET/CT imaging shows
FDG uptake within the thick margins of the
fluid collection, an atypical finding in coronary
artery aneurysm.**

AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

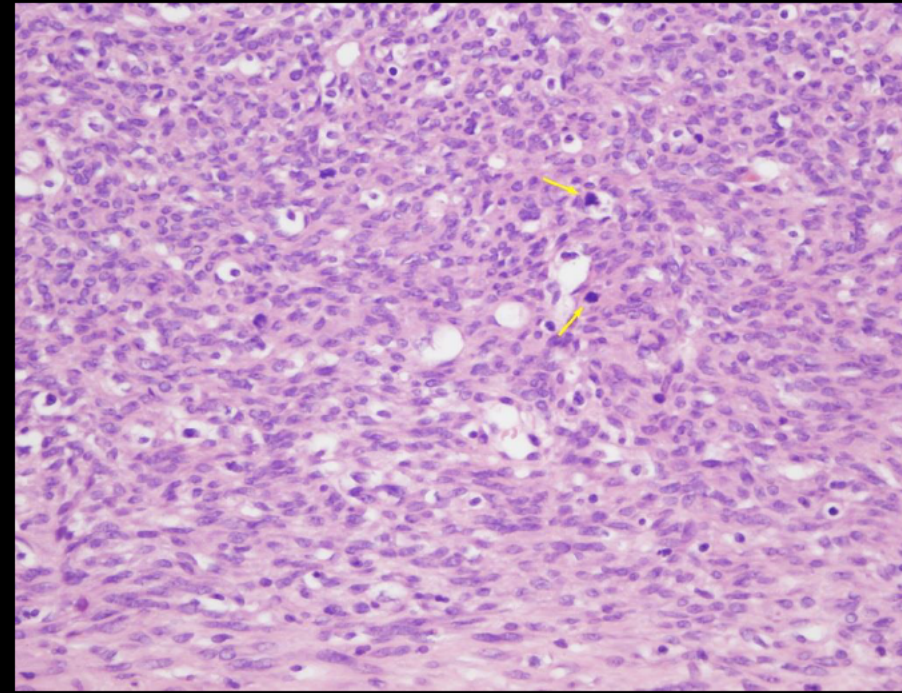
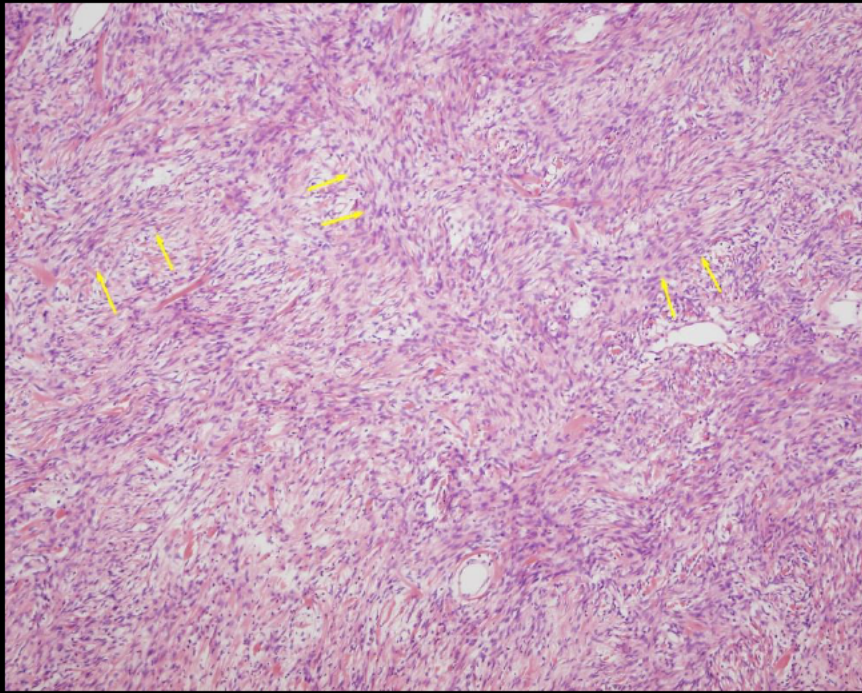
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Intraoperative photos show whitish tissue (red arrows) related to the myocardium that marginates the LAD aneurysm. Thrombotic material was also found within the aneurysm.



HISTOPATHOLOGY

LEFT: Low power – fascicular pattern of cells (arrows)

RIGHT: High power – sarcomatous tumor cells with high mitotic index (arrows)

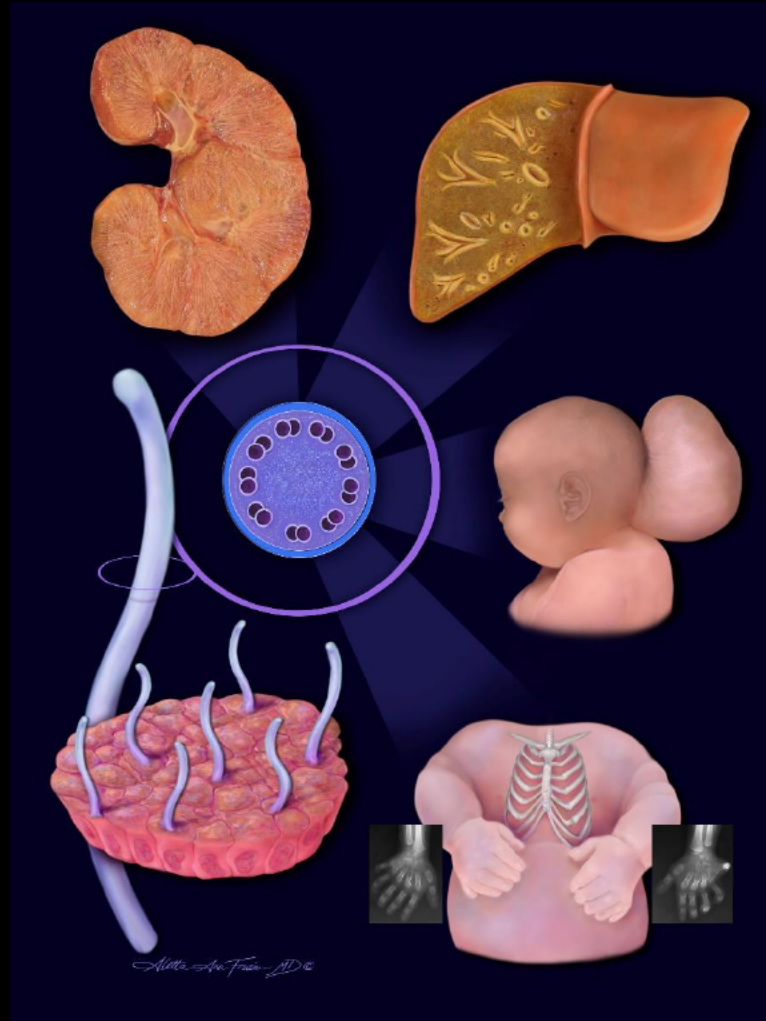
Left Ventricular Sarcoma, complicated by LAD aneurysm and LV fistulization

**Joaquin Moran Marsili, MD
Hospital Universitario La Paz
Madrid, Spain**



A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Pediatric Best Case



AIRP™

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

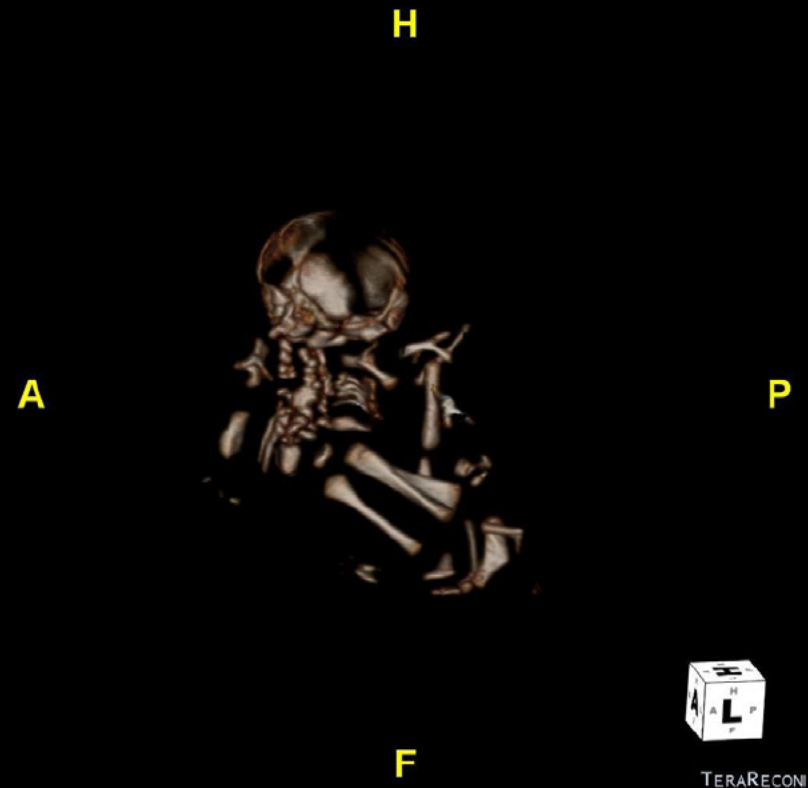
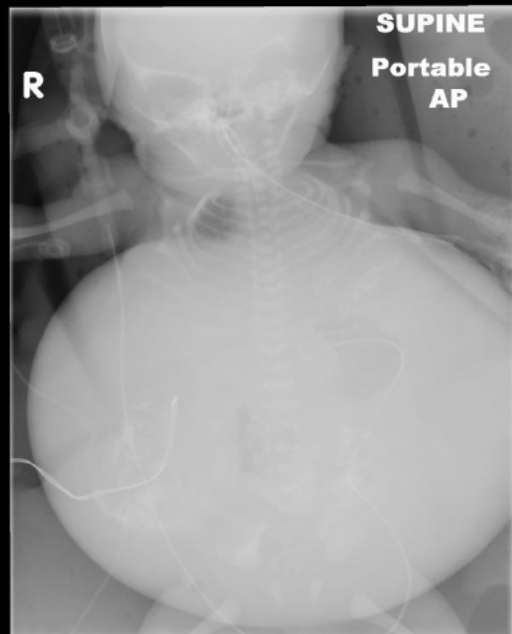
History

31 year-old female at 26w1d gestation with a complex prenatal history who presented to her obstetrician because of upper and lower extremity edema, facial swelling, and oliguria. She was admitted with edema, hypertension, and proteinuria concerning for Mirror Syndrome. The baby was delivered via cesarean section due to the development of severe vision changes. The female neonate was intubated due to respiratory distress.



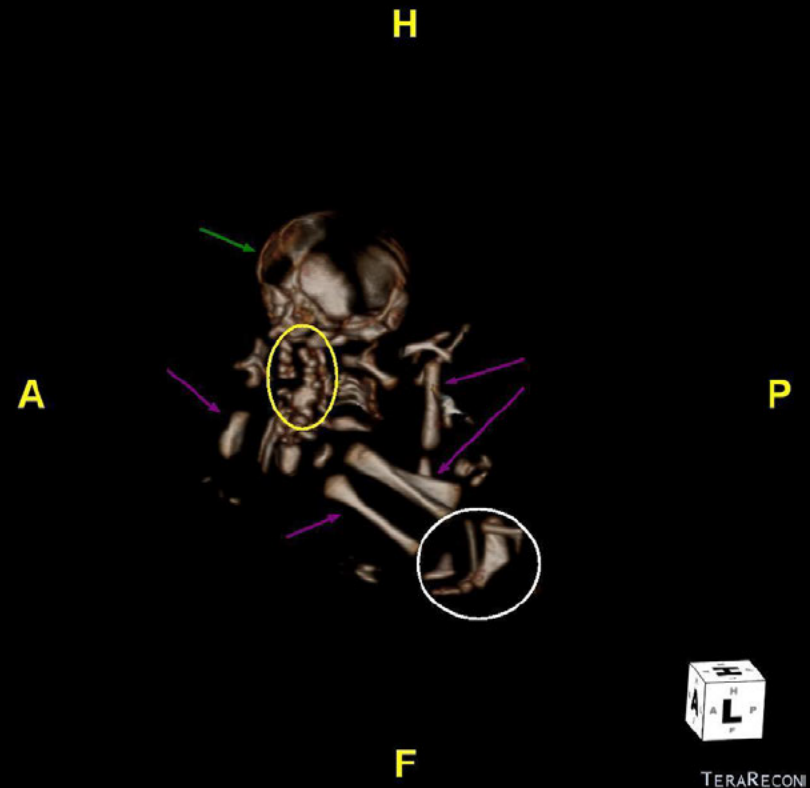
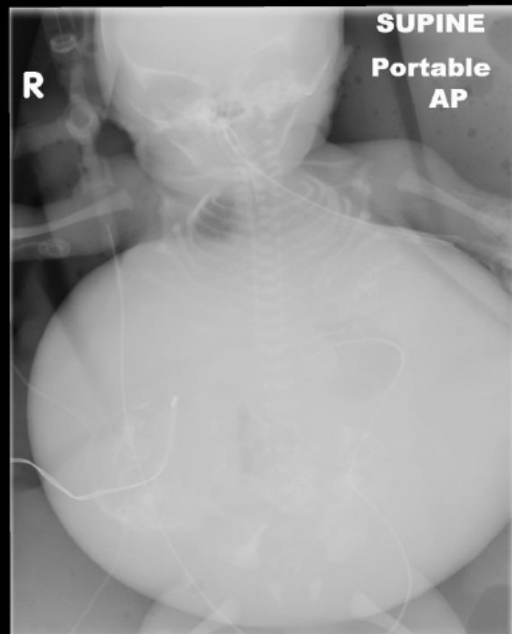
**AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY**

**A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY**



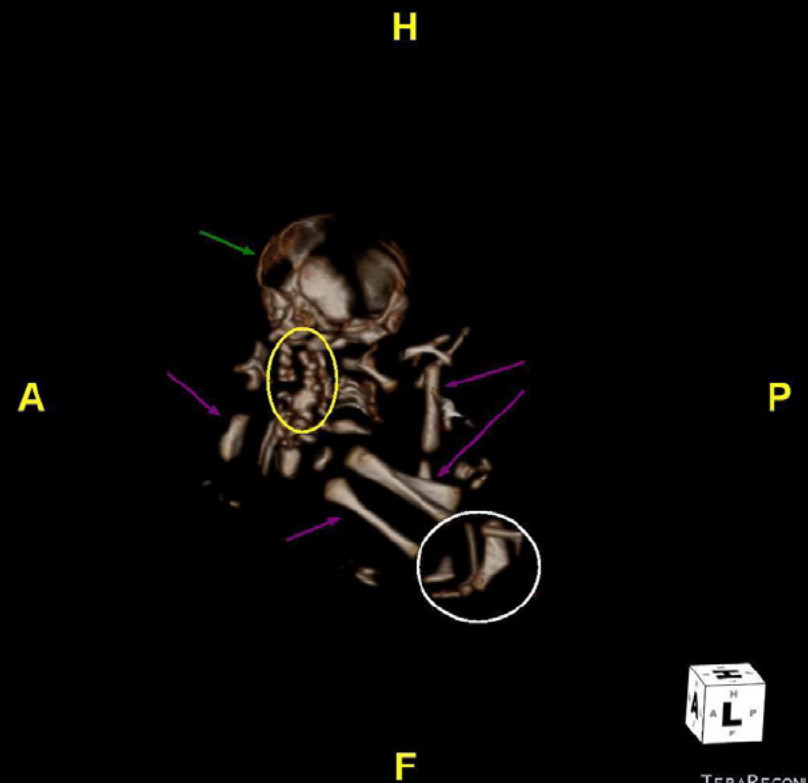
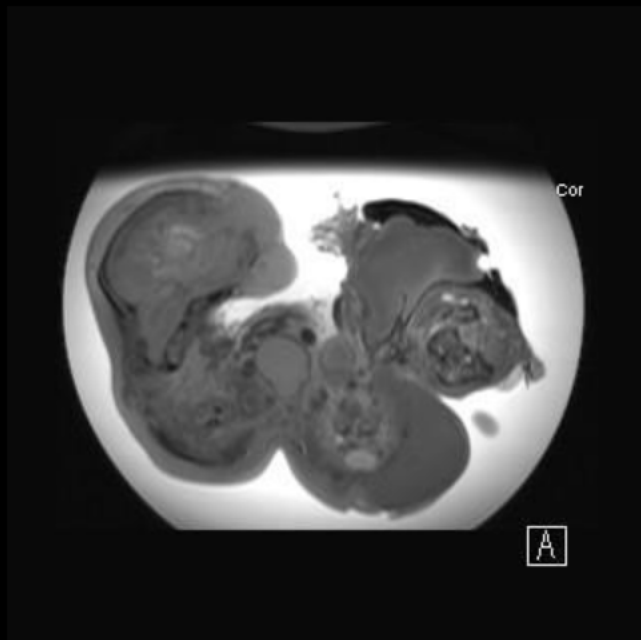
AIRPTM
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



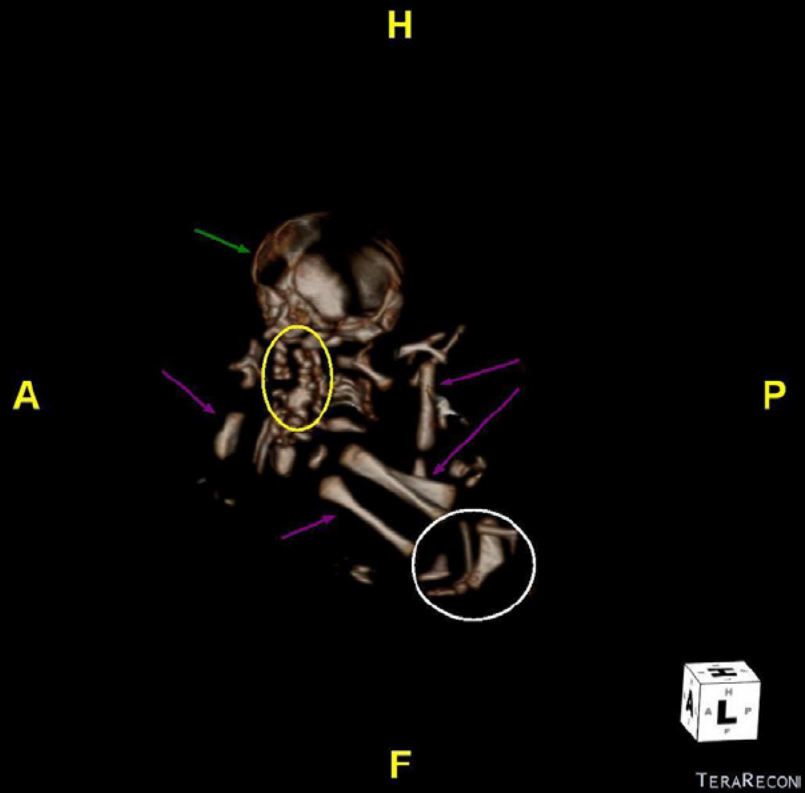
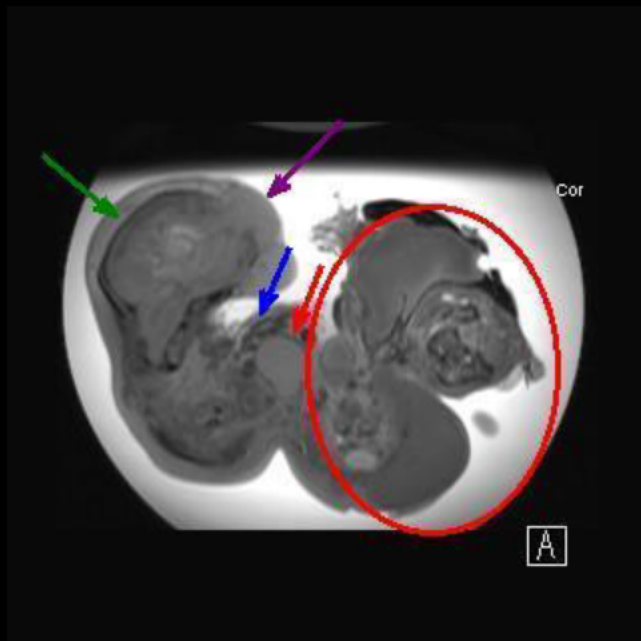
AIRPTM
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



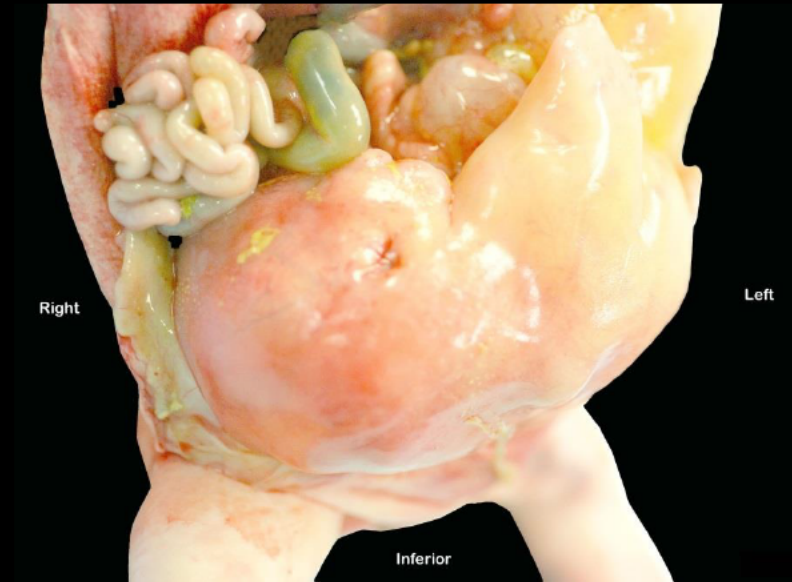
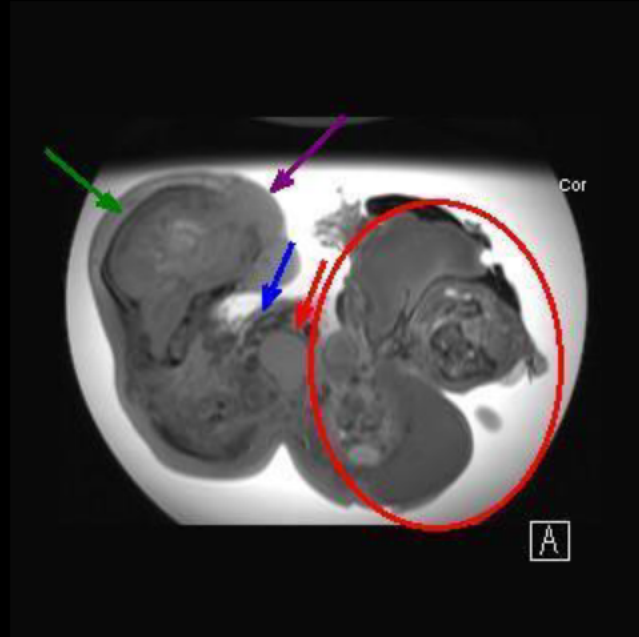
AIRPTM
 AMERICAN INSTITUTE FOR
 RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
 AMERICAN COLLEGE OF RADIOLOGY



AIRPTM
 AMERICAN INSTITUTE FOR
 RADIOLOGIC PATHOLOGY

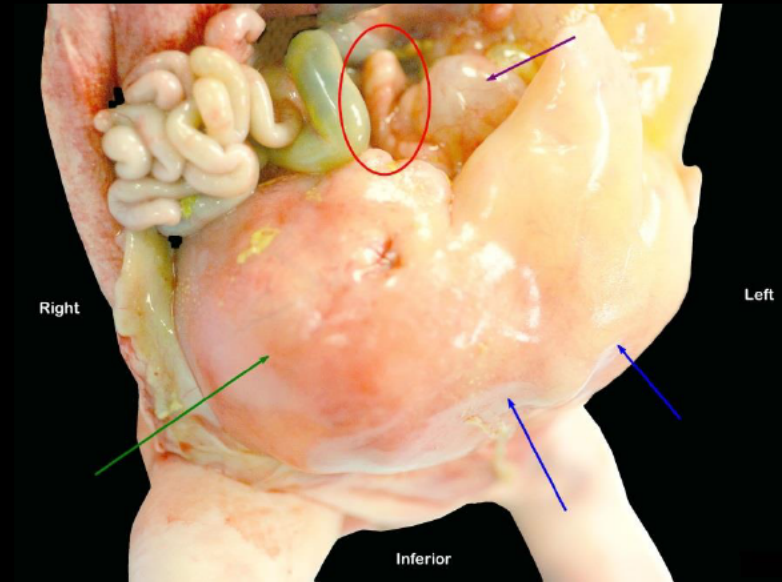
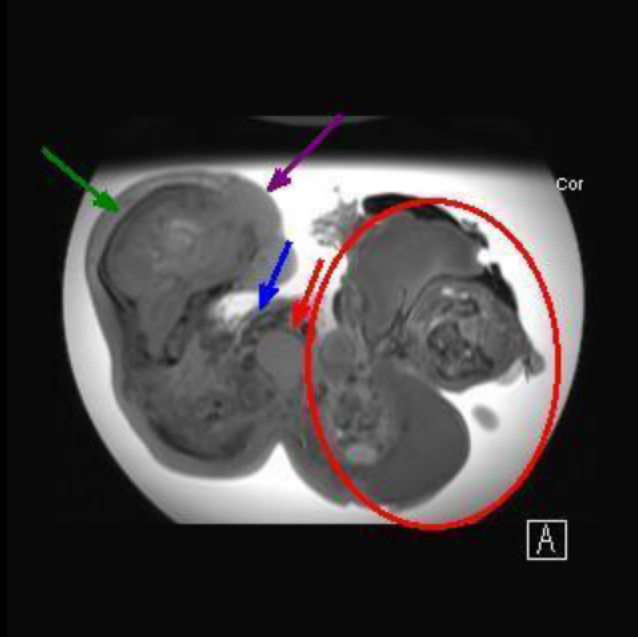
A PROGRAM OF THE
 AMERICAN COLLEGE OF RADIOLOGY



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

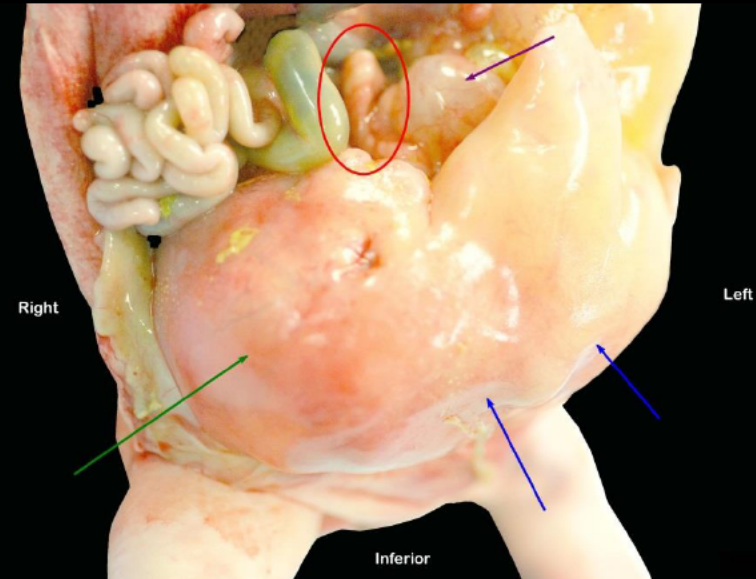
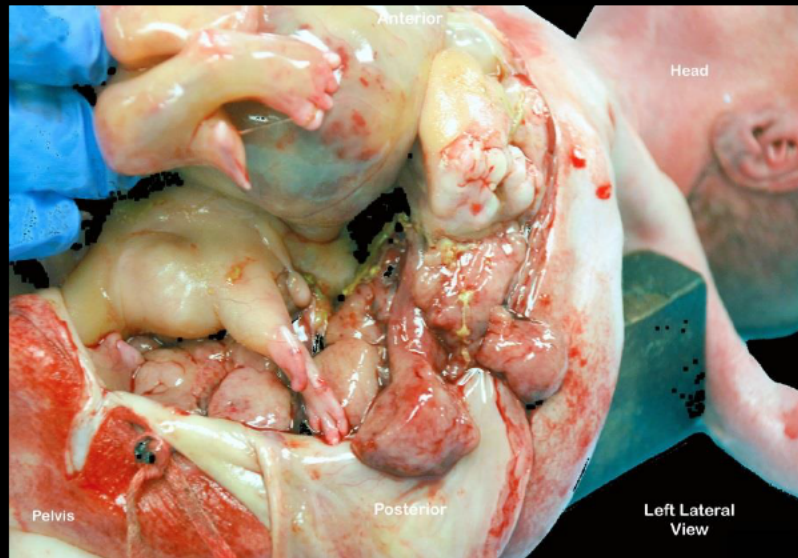
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM

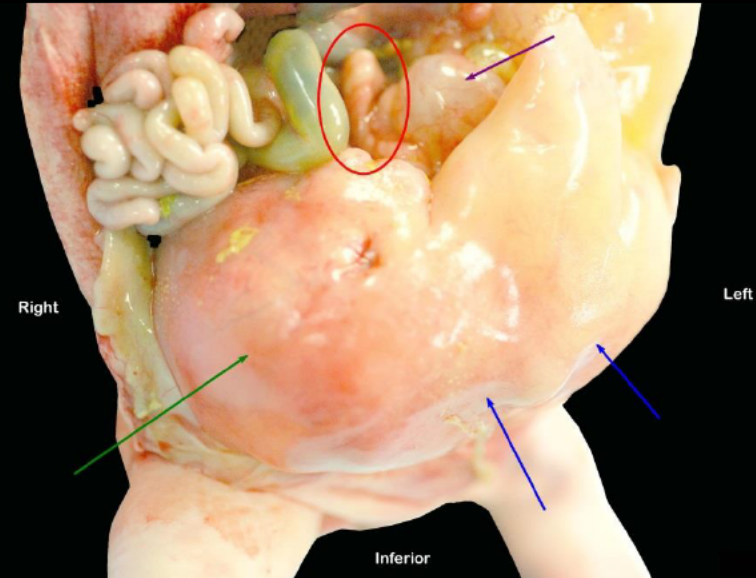
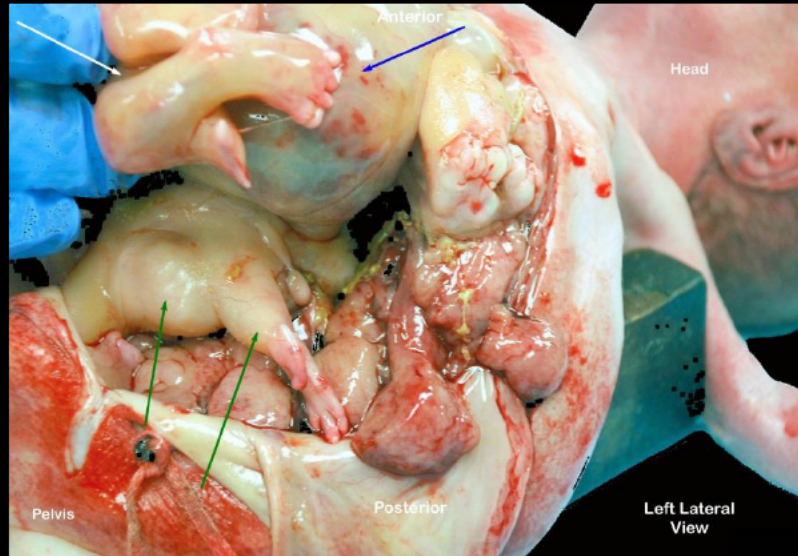
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

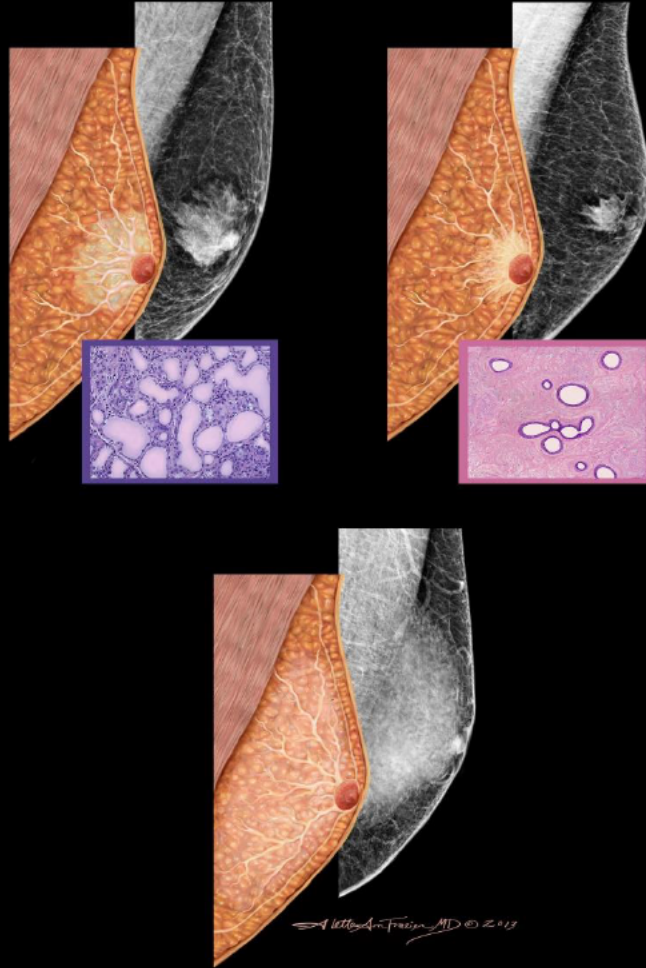
Fetus-in-fetu and Fetiform Teratoma

Monica Reddy, MD
University of North Carolina
Chapel Hill, NC



A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Breast Best Case



AIRP™

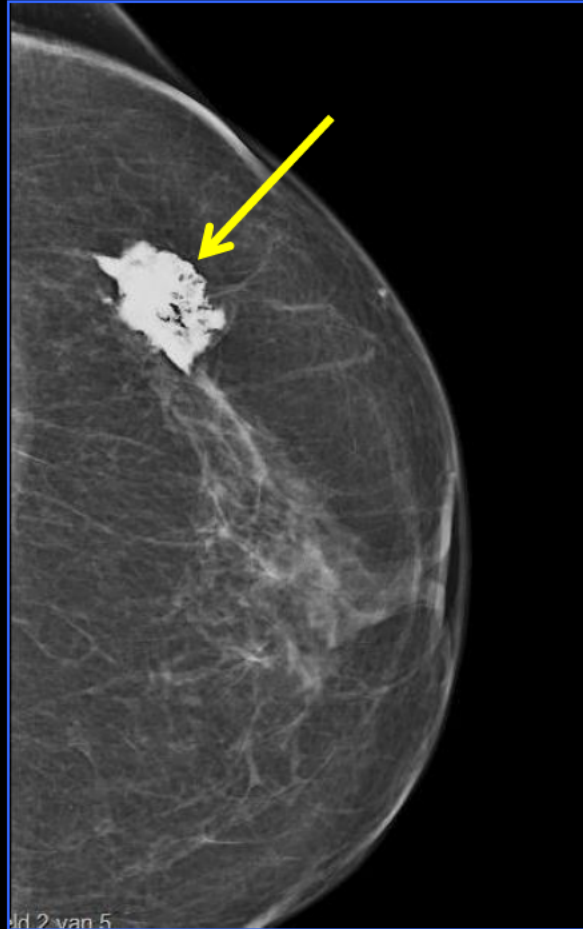
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Clinical Information

67 yo female noted a lump in her left breast that was firm and mobile.

Diagnostic Left Mammogram

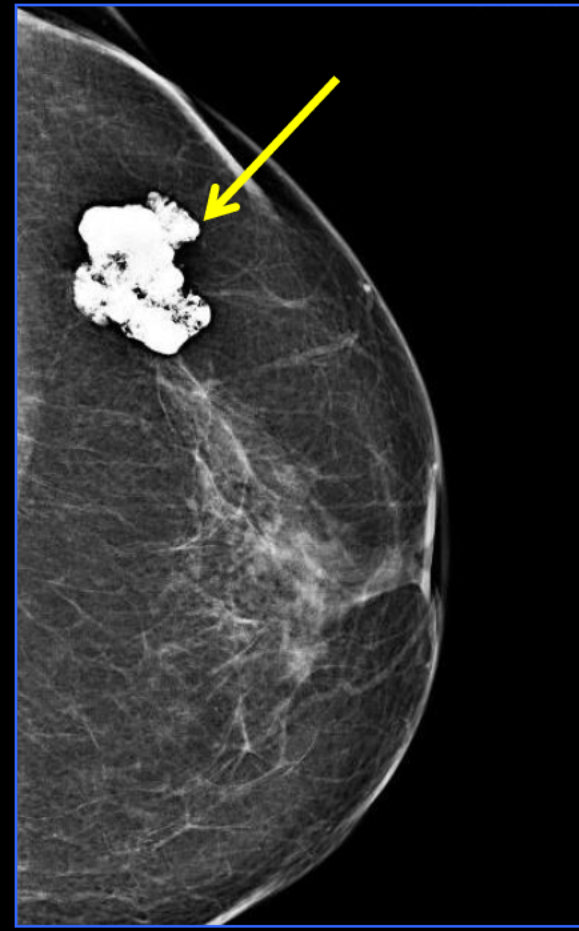
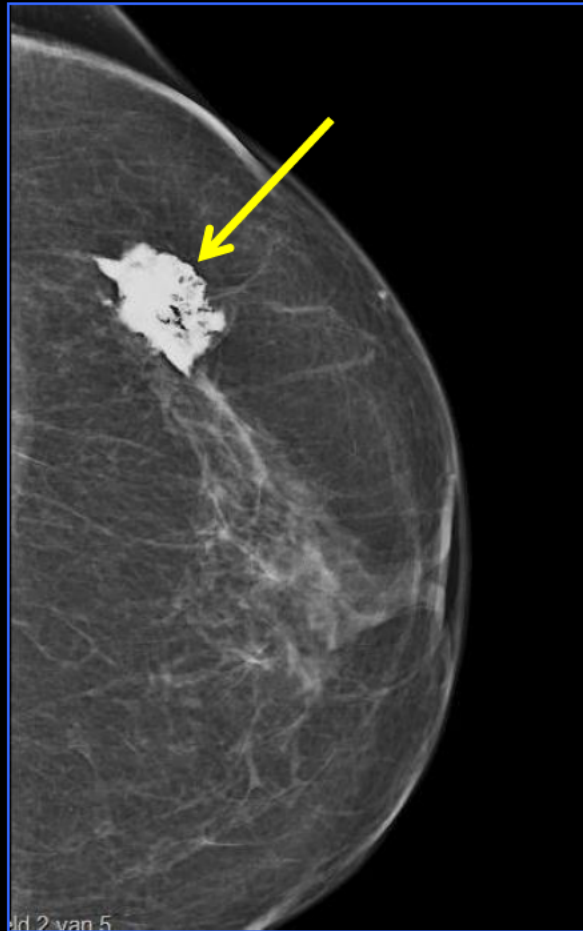


AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Repeat Mammogram 6 mo Later

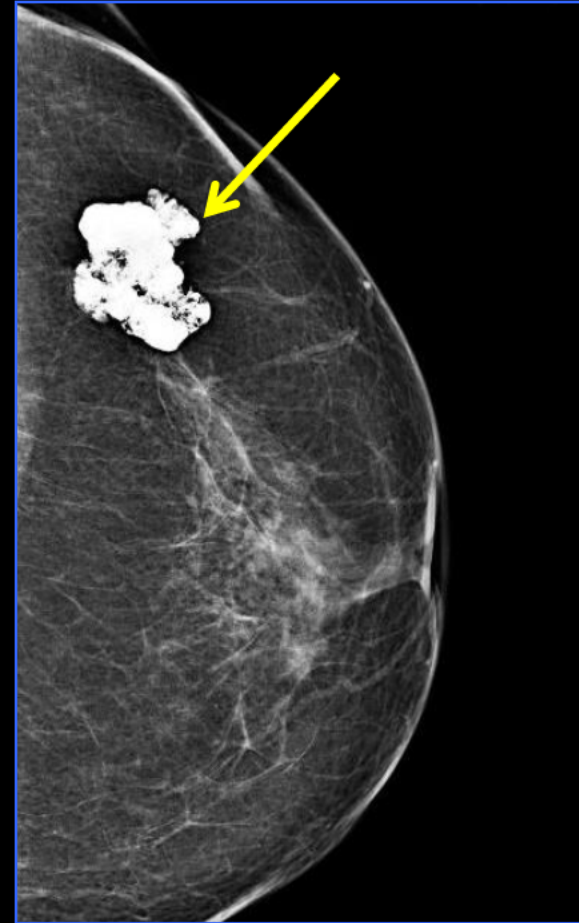


AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

US of Left breast mass

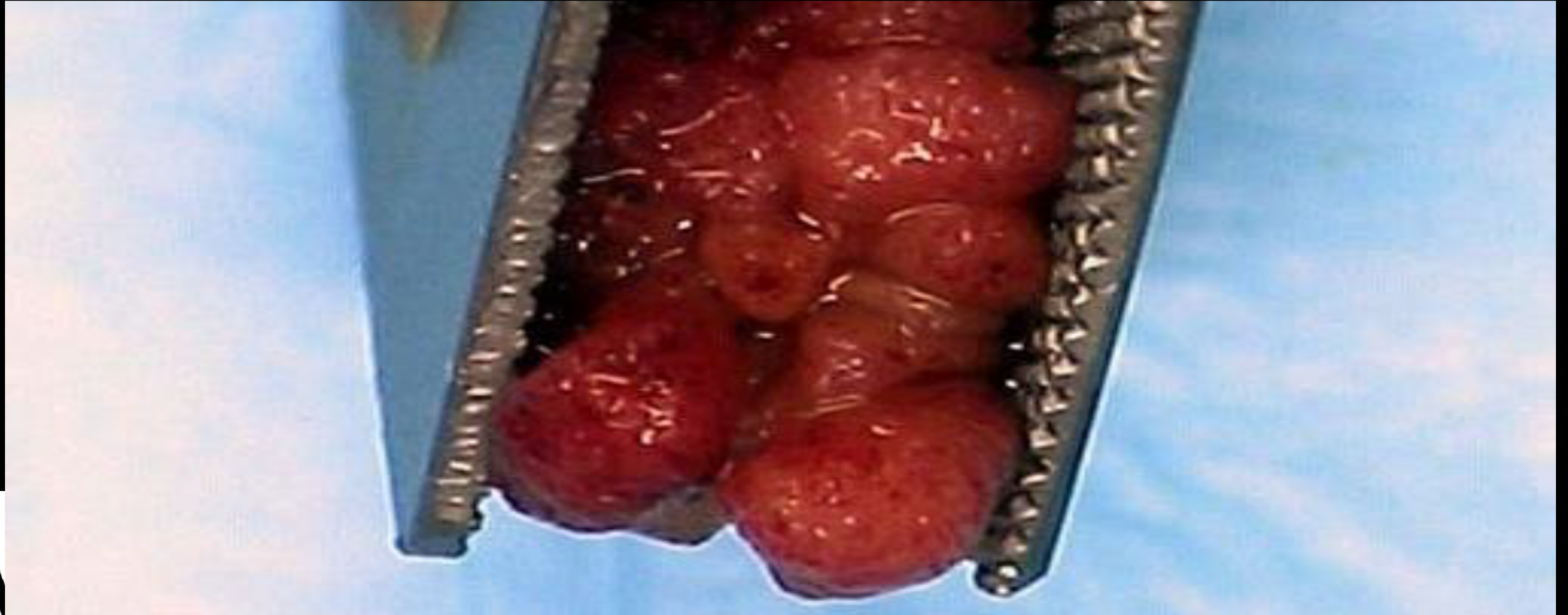


AIRP

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Lumpectomy Specimen

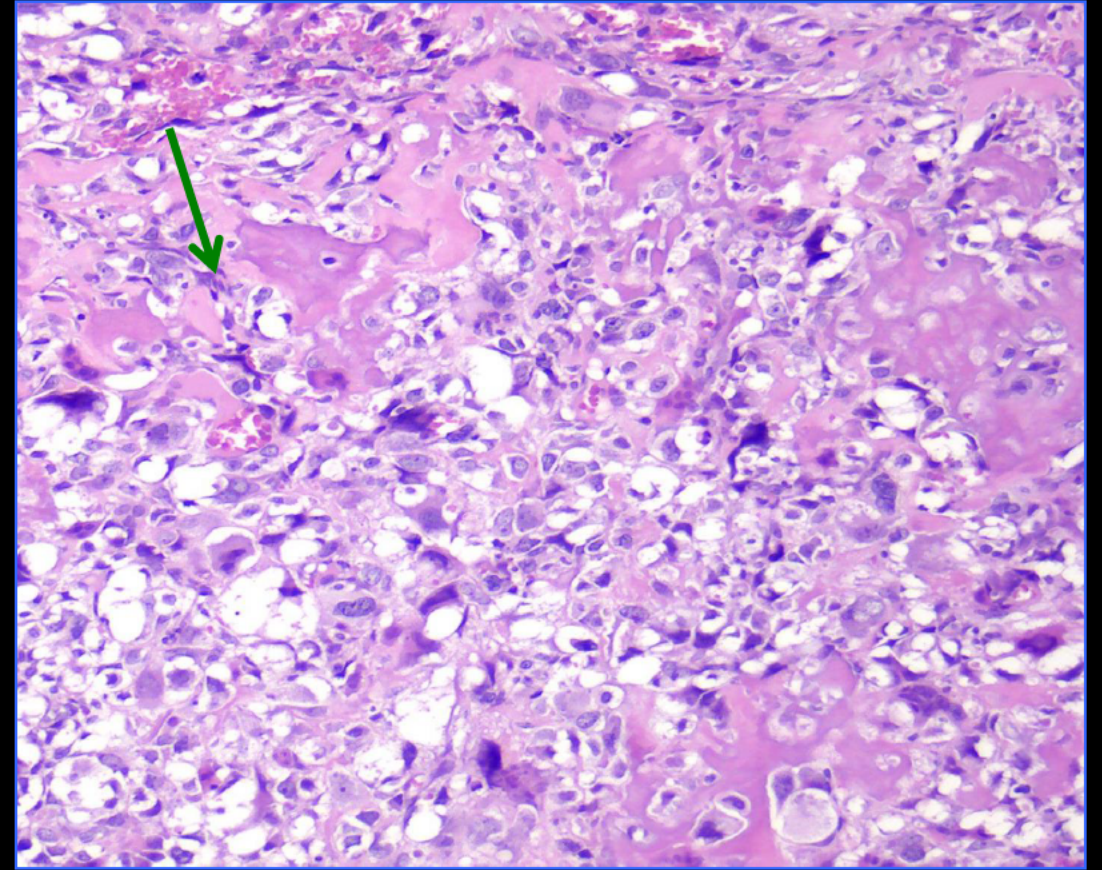
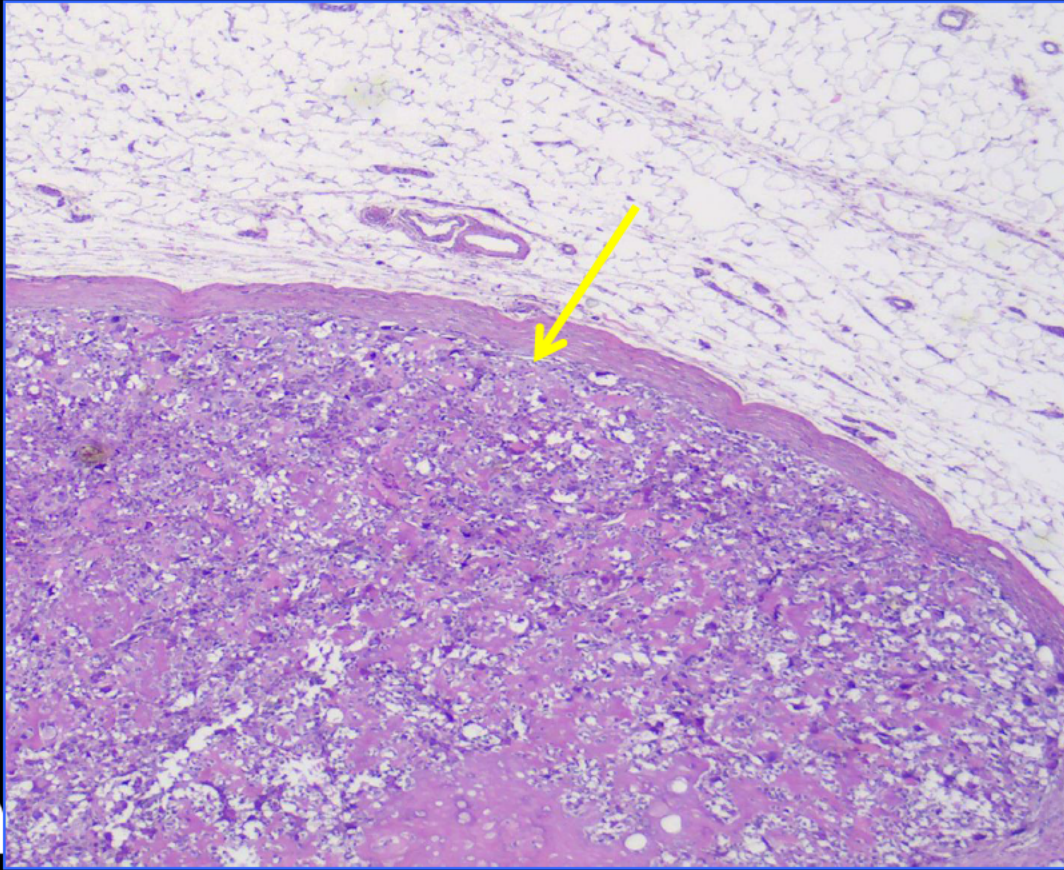


A

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Histology



A

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Primary Osteosarcoma of the Breast

Ilona Dekkers, M.D.

Leiden University Medical Center

Leiden, Netherlands



AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Genitourinary Best Case



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

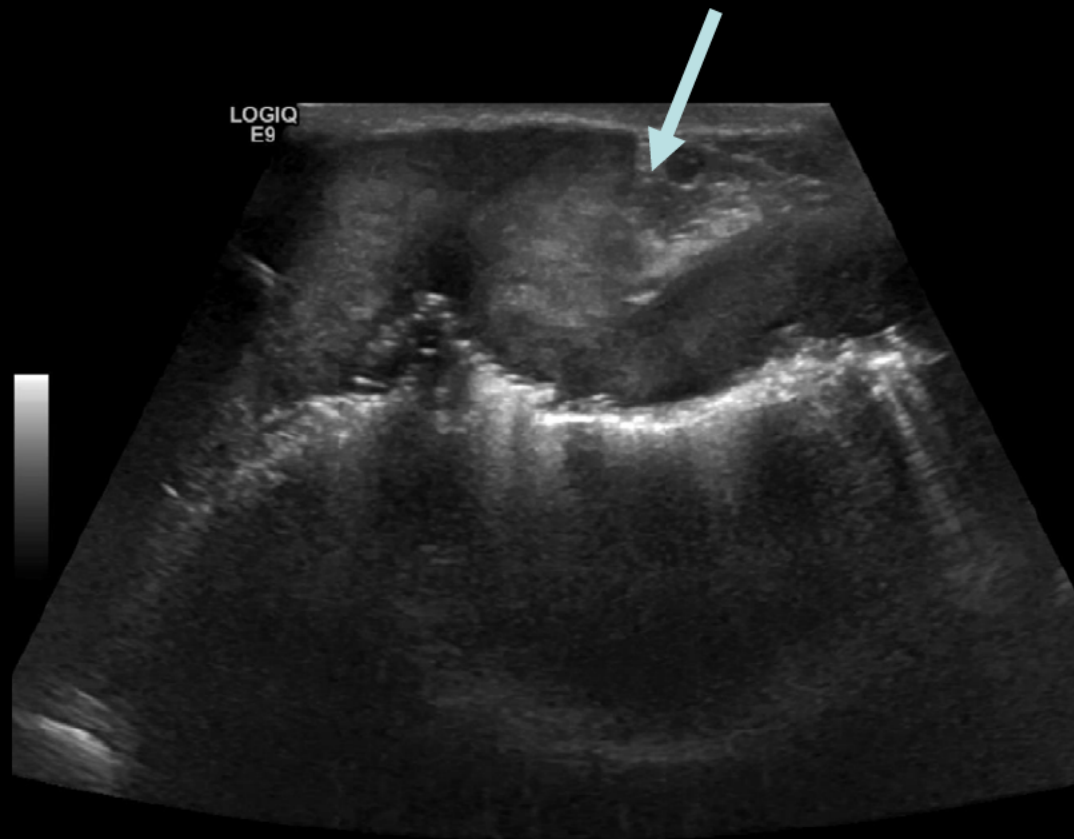
Clinical Information

60-year-old male presented with 15kg unintentional weight loss in the past four months. The physical examination revealed a visible, non-tender and non-mobile infra-umbilical mass. No significant past medical or family history. Minimally elevated WBC count.



AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

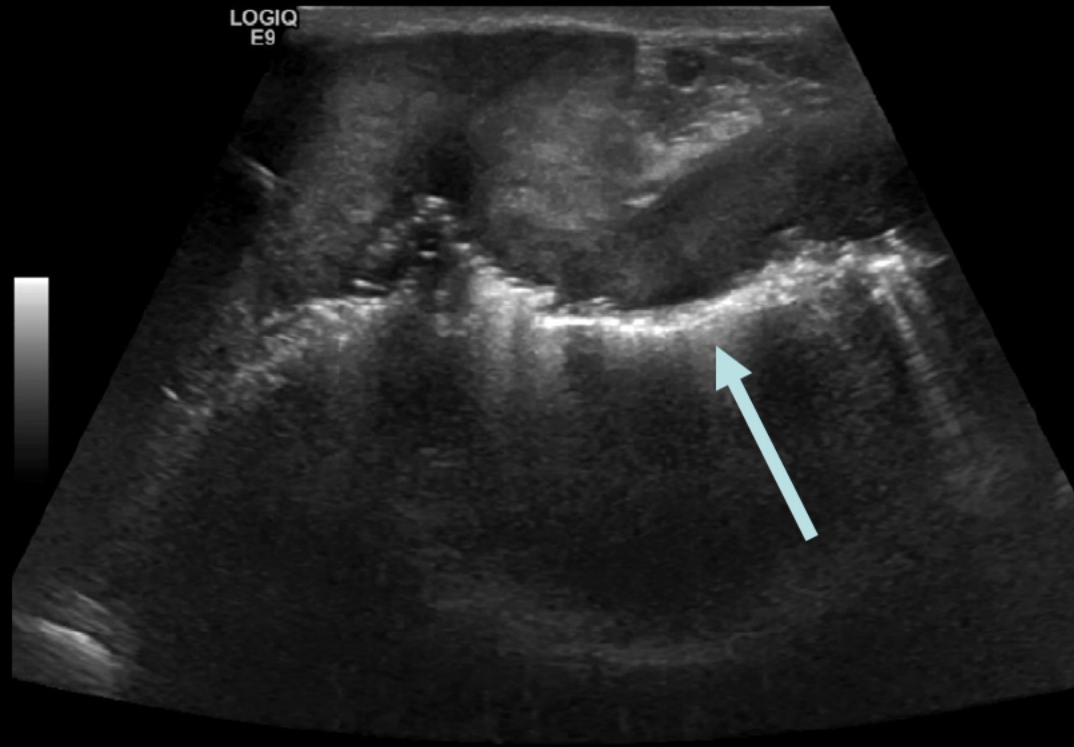
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

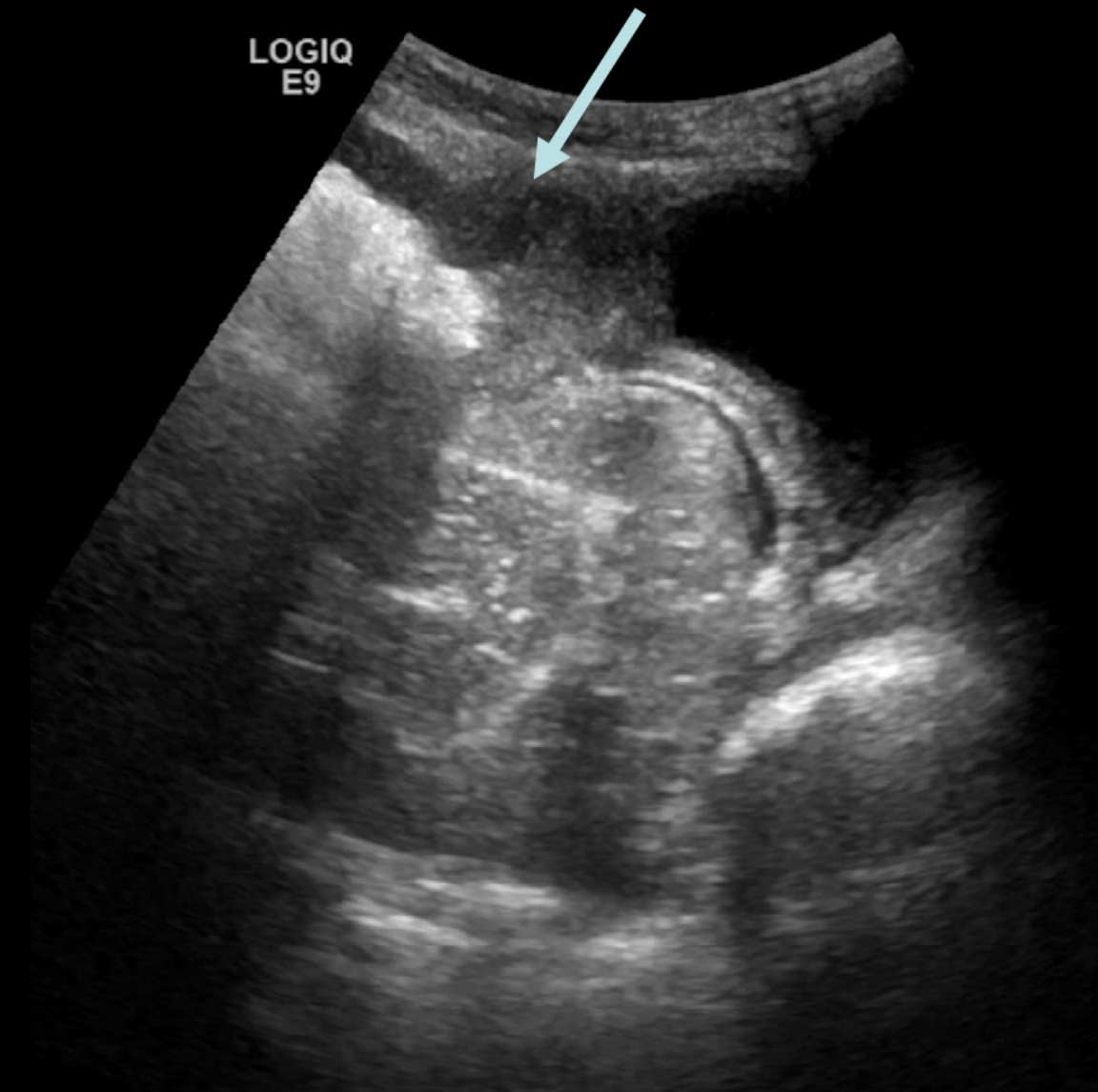
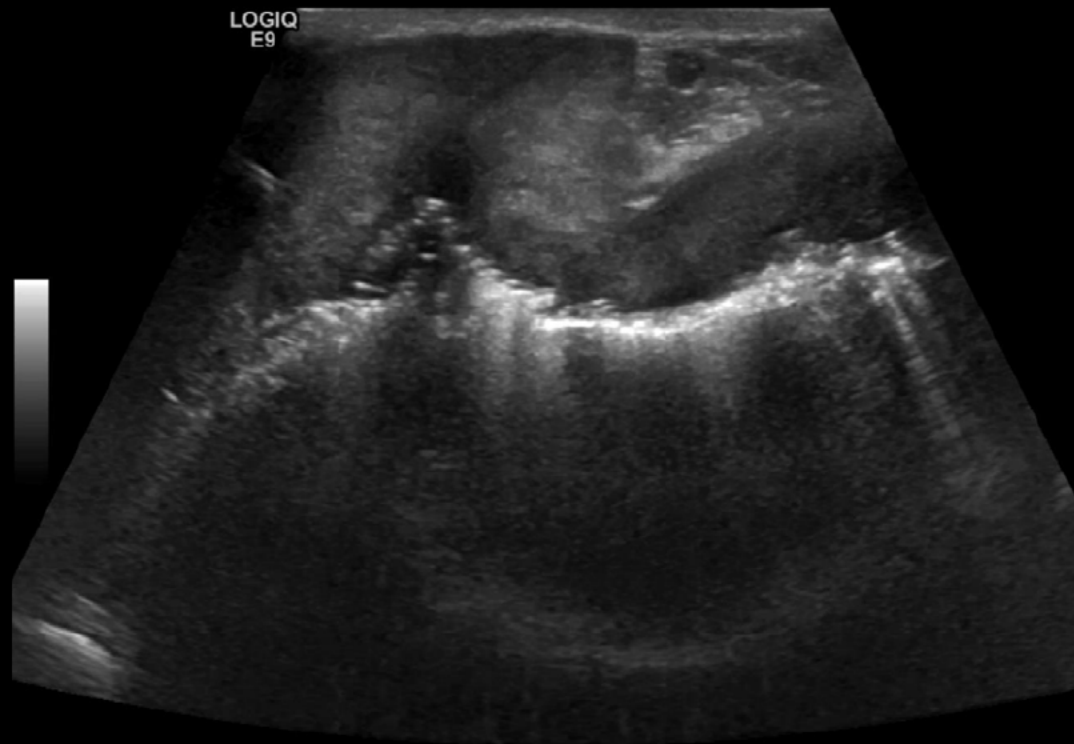
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

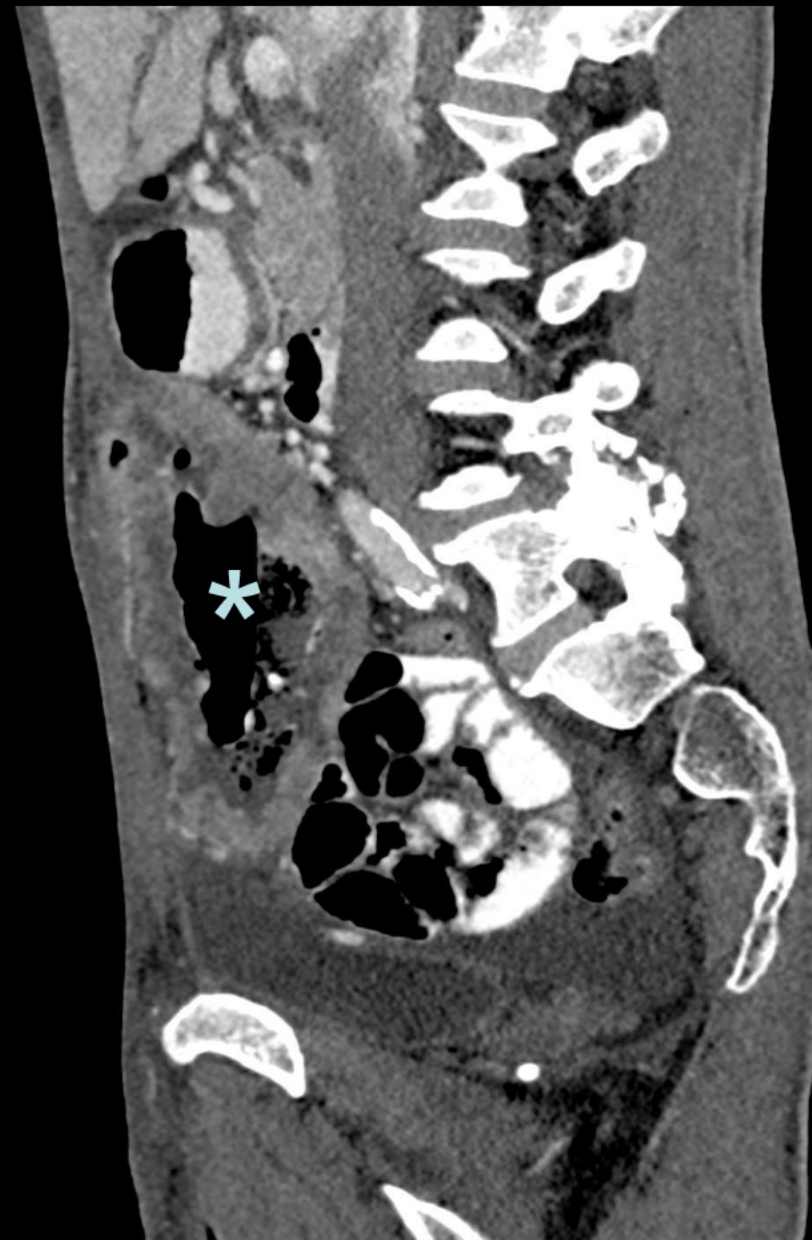
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM
AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

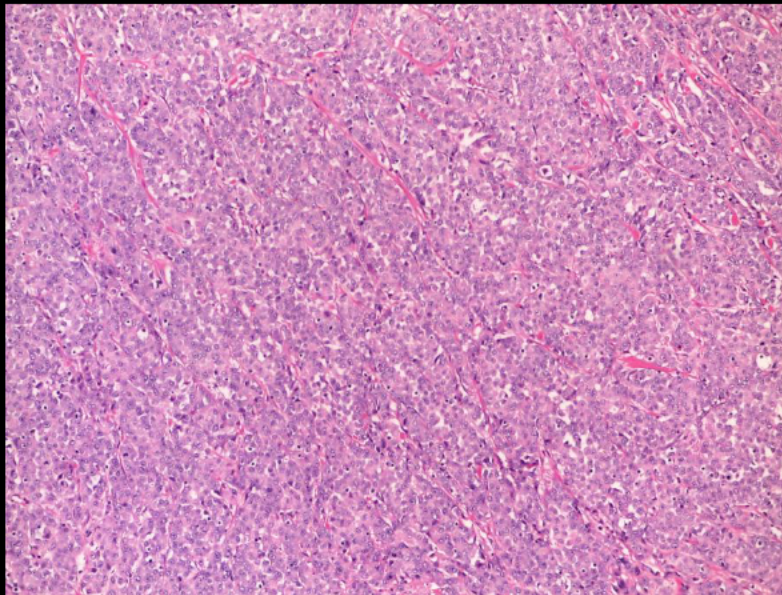
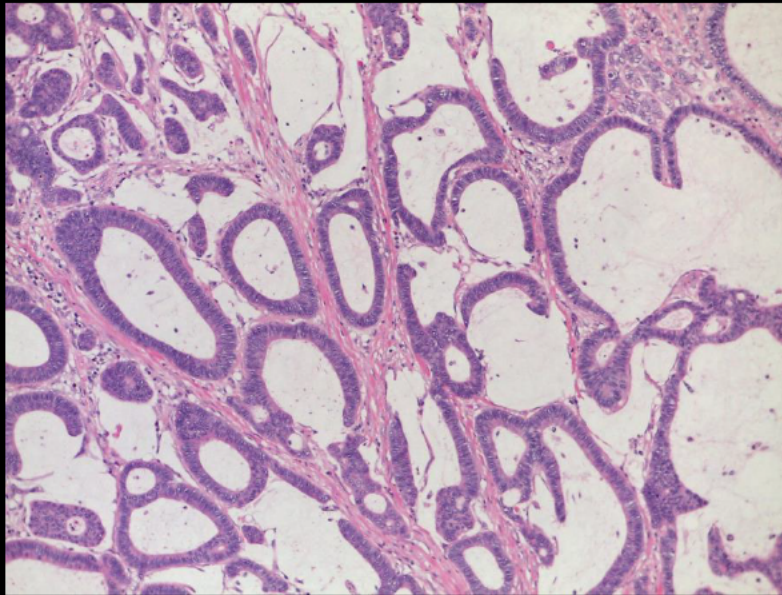
A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY



AIRPTM

AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY

Urachal Adenocarcinoma

Willian Schmitt

Internato Complementar de Radiologia

Lisbon, Portugal



AMERICAN INSTITUTE FOR
RADIOLOGIC PATHOLOGY

A PROGRAM OF THE
AMERICAN COLLEGE OF RADIOLOGY