Musculoskeletal Imaging: Best Case
67 year old female with growing right leg mass
MRI

T1

T2 FS
MRI

T1FS  T1 FS + Gd
GROSS
GROSS
HISTOLOGY
Intramedullary Chondrosarcoma (grade 2)

Dr. Jerrod Hampton
Scott and White Diagnostic Radiology
Temple, Texas
Genitourinary Best Case
55 year old male with a history of benign prostatic hypertrophy who presents with acute urinary retention. Labs showed an elevated Cr of 17 and PSA of 9.8 and normal WBC of 11.8
Cystogram
MRI

T2

T1 Fat Sat Post Contrast
Cystadenoma

Michael Baad
University of Chicago Hospital
Chicago, IL
Neuroradiology Best Case
History

71-year-old man presented with 10-months of progressive asthenia, hyporexia, hypothymia, dizziness, horizontal diplopia, oscillopsia, and anomia.
Pontine glioma

Hernan Chaves
FLENI (Fundación para la Lucha contra las Enfermedades Neurológicas de la Infancia) Hospital
Buenos Aires, Argentina
Pulmonary and Mediastinal Imaging
History

35 year old female with a history of cystic fibrosis diagnosed at 18 months of life. Currently admitted for lung transplantation.
Simulated Radiograph
3D Airway
Left Lung – cystic bronchiectasis
Right Lung – cystic bronchiectasis
Right Lung

Cystic bronchiectasis
Airway wall thickening & inflammation

Inflammatory cells

Airway wall inflammation
Pulmonary and Mediastinal Imaging
Cardiovascular Best Case
64-year-old female with history of hypertension and gastroesophageal reflux disease, recent onset abdominal pain attributed to "colitis"
Left retroperitoneal mass (arrows) with remarkable peripheral enhancement.
Robotic-assisted laparoscopic surgery was performed to excise the lesion: an oblong mass comprised of soft, yellow-pink tissue.
H&E Stain photomicrograph shows mixed venous (venules = yellow arrow) and capillary (capillaries = white arrow) elements.
MIXED CAPILLARY VENOUS HEMANGIOMA of the Retroperitoneum

Scott Berl, MD
University of Kentucky Medical Center
Lexington, KY
History

26 year-old female G1 at 31 weeks gestation by LMP underwent ultrasound at high-risk OB clinic
Congenital High Airway Obstruction Sequence (CHAOS)

Todd Mapes, DO
The University of Oklahoma Health Sciences Center
Oklahoma City, OK
History

73 yo female with breast implant augmentation in 1993. Recently detected a lump in the inferior left breast.
Diagnostic Left Mammogram and US
Gross Specimen
Histology
Anaplastic Large Cell Lymphoma

Justin Sacks, MD
Baylor University Medical Center
Dallas, Texas
Gastrointestinal Best Case
History

39 year old Hispanic female presents with a 3 day history of worsening right upper quadrant pain and associated nausea and vomiting.

On physical exam, she has tenderness to palpation over the RUQ and epigastrium

Labs: Normal
Ultrasound
Ultrasound

Wall thickening

Gallstones
CT
Gross

Intraluminal mass
Histo
Gallbladder Adenocarcinoma

Thomas Bowden, M.D.
University of Nebraska Medical Center
Omaha, NE
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