Best Cases of the AIRP

July-August, 2021
Musculoskeletal Best Case
46-year-old male with history of ALL in 2000, status post chemoradiation therapy and bone marrow transplant in 2005 with 3 months of constant aching distal left thigh pain
OSTEONECROSIS WITH MALIGNANT TRANSFORMATION TO UNDIFFERENTIATED PLEOMORPHIC SARCOMA (UPS)

Dr. Caitlin Ilkanich
Cleveland Clinic
Cleveland, OH
Gastrointestinal Best Case
Clinical information

24-year-old female with 2 weeks of worsening abdominal pain.
Subperitoneal Lymphangiomma encasing Small Bowel

Dr. Ramin Hamidizadeh
Cumming School of Medicine
Calgary, Alberta
Neuroradiology Best Case
44 y/o M with progressive back pain, gait instability, and lower extremity weakness

focal dorsal indentation in upper thoracic spinal cord (i.e. “scalpel sign”)

differential diagnosis = ventral cord herniation (through dural defect) vs dorsal arachnoid cyst/web (from septum posticum)
Excision of Dorsal Arachnoid Web at T4-T5
Intraoperative Ultrasound: Before & After
Meningothelial Cells + Calcifications + Fibrosis
Dorsal Arachnoid Web

Dr. Jennifer Clark
Georgetown University
Washington, DC
Pulmonary and Mediastinal Best Case
Clinical information

41-year-old male with one month of dyspnea on exertion and non-productive cough.
H&E 20x: “Schiller Duval body”

H&E 200x: Extensive NECROSIS
H&E 400x: Poorly differentiated GERM CELLS

AFP immunohistochemical stain 400x: Positive uptake
Yolk Sac Tumor
(Post-pubertal Extragonal GCT)

Dr. Stephen Veideman
Christiana Care Hospital
Newark, Delaware
Pediatric Best Case
Clinical information

10-year-old male with history of constipation who presented with 1 week of hematuria.

Following a limited ultrasound revealing a bladder mass, an MRI of the pelvis was performed.
Tan pink gelatinous well circumscribed polypoid mass
Spindle cells within loose myxoid stroma

Infiltration of the smooth muscle of the bladder
Immunohistochemical Stains positive for ALK-1, SMA, Desmin, and Cytokeratin
Inflammatory Myofibroblastic Tumor of the Bladder

Alexandra Reis
Montefiore Medical Center
Bronx, NY
Breast Best Case
Clinical information

An 82-year-old woman noticed a lump in her left breast. She has long-standing history of rheumatoid arthritis treated with methotrexate and adalimumab.
Histology
Immunohistochemistry

CD45

MIB-1

CD3
Immunohistochemistry

BCL-6

BCL-2

CD79a
Rad-Path Correlation
Primary B-cell Lymphoma of the Breast

Jing Chen, MD
Penn State Hershey Medical Center
Hershey, PA
Genitourinary Best Case
Clinical information

A previously healthy 39-yo male who presented with clinical worsening on 10th day of Covid-19 symptoms, with no abdominal complaints.

A Chest CT was performed and a lesion in the right kidney was identified in the superior abdominal images.
CLEAR CELL PAPILLARY RENAL CELL CARCINOMA

Camila Silva Barbosa
Sírio Libanês Hospital
São Paulo-SP, Brazil