Best Cases of the AIRP

March 2018
Musculoskeletal Best Case
34 year old male with persistent left hip pain since slipping and falling 4 months ago
Clear Cell Chondrosarcoma

Dr. Joel Lim
West Australian Radiology Training
Perth, Australia
Honorable mention
57 year old Asian male with an enlarging, palpable lump in the left upper arm
SCHWANNOMATOSIS
PLEXIFORM SCHWANNOMA

Dr. Sohaib Munir
Western University Radiology Residency Program
London, Ontario
Gastrointestinal Best Case
62-year-old woman presents with a history of black tarry stools and 10 lb weight loss over the past month.
Adenocarcinoma complicating a retrorectal cystic hamartoma

Ravi Vassa, MD
Northwestern Memorial Hospital
Chicago, Illinois
Neuroradiology Best Case
70-year-old female with lethargy and acute hypoxia in setting of known granulomatosis with polyangiitis treated with monoclonal antibody and steroid therapy
Cerebral Aspergillosis

Jacob Wallace, M.D.
Wesley Medical Center
Wichita, Kansas
Pulmonary and Mediastinal Best Case
35 year old female with a history of migraine headaches and incidental finding of a right-sided chest mass.
Pleural based mass
Initial incision

tumor
diaphragm
Initial incision

tumor
diaphragm
vascular pedicle
Gross vascular pedicle
Pleuropulmonary Desmoid Tumor

vascular pedicle
Pleuropulmonary Desmoid Tumor

Abraão Kupske, MD
Hospital Moinhos de Vento
Porto Alegre, Brazil
Cardiovascular Best Case
37 year old male with abdominal pain, bilateral pedal edema, and dyspnea. Laboratory assessment shows abnormal liver function.
Abdominal US: ill defined lesion in the left lobe of liver
CT (portal venous phase), axial & coronal reformats:
Heterogeneous mass in the intrahepatic and suprahepatic IVC & posterior left hepatic lobe. Liver parenchyma is congested secondary to hepatic venous outflow obstruction.
MRI: Tumor mass appears to arise from intrahepatic and/or suprahepatic portion of IVC.
Tumor mass (yellow arrows) resected along with left hepatic lobe. Lesion arises from IVC, just above liver and just below right atrium.
Nutmeg liver (right) shows evidence of Budd-Chiari syndrome
Histology shows rounded intravascular tumor adjacent congested liver parenchyma (higher power view on left).
Higher power view (right) shows the intravascular lesion is comprised of smooth muscle cells in tightly packed fascicular bundles (cells desmin-positive on immunohistochemistry).
Leiomyosarcoma of the IVC

Simon Clifford, MD
St. Vincent’s University Hospital
Dublin, Ireland
Pediatric Best Case
A 6-month-old girl with the diagnosis of cystic liver tumor on fetal ultrasound in an otherwise uncomplicated pregnancy.
Ciliated Foregut Cyst

Thomas Beck
Universitätsklinikum Tuebingen
Tuebingen, Germany
Breast Best Case
72 year-old female with progressive onset of spontaneous left breast ecchymosis and associated with breast mass.

Her past medical history is significant for a grade 1 luminal A stage T1N0 ductal invasive cancer of the left breast 5 years ago, treated with breast conserving surgery, sentinel node procedure, whole-breast radiotherapy and hormone therapy.
Breast MRI

STIR

T1

T1 fat sat

T1 post
Histology

CD 31

ERG
Angiosarcoma

Sebastien Moliere
Hôpital de Hautepierre
Strasbourg, France
Genitourinary Best Case
30-year-old healthy male with one year of testicular fullness. No additional clinical symptoms. Laboratory workup was unremarkable.
- **Differential Diagnosis**
  - **Prostate**
    - Adenocarcinoma
    - Solitary Fibrous Tumor
  - **Retroperitoneal**
    - Solitary Fibrous Tumor
    - Liposarcoma
    - Hemangioma
Adrenal Cortical Neoplasm arising from Ectopic Adrenal Tissue

Jamie Crist, MD
Mayo Clinic
Rochester, MN