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
Bladder Compression
Polyethylene Liner

Fluid Aspirate
Polyethylene Liner

Fluid Aspirate
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
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
Cavitary Nodule
Bronchopleural Fistula
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
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
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
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