BEST CASES OF THE AIRP

March 5 – March 30, 2012
Musculoskeletal Best Case
43-year-old male with two year history of left knee pain. His pain is now causing lifestyle modifications and he states that his knee “hardly bends at all.”
Maffucci Syndrome with Malignant Transformation to Chondrosarcoma

Kristopher Foreman, MD
Mayo Clinic
Jacksonville, Florida
Neuroradiology Best Case
Newborn baby boy delivered at gestational age of 34 weeks and 4 days through spontaneous vaginal delivery, appearing vigorous, pink, acrocyanotic, and microcephalic with a large sac at the occipital area measuring approximately 8 x 5 cm with no other dysmorphic features.
Encephalocele

Leena Alwafi, MBBS  
Saudi Arabia Diagnostic Radiology Residency Program  
Jeddah, Saudi Arabia
Genitourinary Best Case
33-year-old G1P0 with unremarkable pregnancy until a second trimester fetal screening ultrasound
Concomitant Placental Mesenchymal Dysplasia and Chorangioma

- **Differential diagnosis**
  - Hydatidiform mole
  - Choriocarcinoma

- **Associations**
  - Congenital adrenal hyperplasia
  - Mesenchymal hamartoma of the liver
  - Beckwith-Wiedemann

- **Complications**
  - IUGR
  - Fetal demise
  - Fetal anemia
Fetal Mesenchymal Hamartoma of the Liver
Concomitant Placental Mesenchymal Dysplasia and Chorangioma (with Fetal Mesenchymal Hamartoma of the Liver)

Betty Tuong, MD
University of British Columbia
Vancouver, Canada
Genitourinary Best Case 2
56-year-old woman with an incidental finding
Composite Adrenal Adenoma Consisting of Pigmented and Lipid Rich Portions

Luciana Matteoni de Athayde, MD
Hospital das Clínicas da Universidade de São Paulo
São Paulo, Brazil
PULMONARY AND MEDIASTINAL IMAGING
68-year-old Japanese female with solitary pulmonary nodule discovered on chest radiography. The nodule increased in size over 5 years.
Sclerosing Hemangioma
(Pneumocytoma)

Atsuko Fujikawa, MD
St. Marianna University School of Medicine
Kawasaki, Japan
Cardiovascular Imaging
68 year old male status post orthotopic liver transplantation presents post-op day 78 with new fever, no localizing complaints. Abdominal imaging shows incidental finding of intramyocardial fluid collection at the base of the heart.
T1-post gadolinium MR long axis (top left) shows single hypointense myocardial lesion with enhancing rim near LV apex.

T2-black blood short axis MR (lower left) shows isolated myocardial and epicardial lesion with hyperintense core which suggests cystic contents at left ventricular apex.
ONE WEEK LATER:

T1-weighted post gadolinium MR long axis (top left) and short axis (lower left) from later exam show multiple new fluid collections with enhancing margins.
Despite aggressive treatment with antifungals, this patient died a few months later with disseminated Aspergillus fumigatus infection.
Myocardial Abscesses from Aspergillus Infection

Samia Collot, MD
Rangueil Hospital of Toulouse
Toulouse, France
Pediatric Best Case
11-year-old girl with 6 weeks of pallor, fatigue, and decreased appetite.
Gastrointestinal Stromal Tumor

Maneesh Gupta, MD
University of Toronto
Toronto, Canada
Breast Best Case
84-year-old female fell on her right breast one month prior to presentation. The patient subsequently noticed draining from the breast which she thought was related to the trauma.

The patient then followed up in the breast clinic. Physical exam revealed a visible mass in the right breast predominantly involving the lower outer quadrant, with overlying skin ulceration and surrounding skin erythema.
Diagnostic Mammogram RT Breast
Ultrasound of Palpable Area
Squamous Carcinoma with Keratinization (Metaplastic Carcinoma)

Eva Ryckman, MD
Geisinger Medical Center
Danville, Pennsylvania
Gastrointestinal Best Case
63-year-old asymptomatic man underwent screening colonoscopy.
Colonic Mantle Cell Lymphoma

Pum Le Haen, MD
Haga-Ziekenhuis,
The Hague, Netherlands
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