Best Cases of the AIRP

October – November 2021
Musculoskeletal Best Case
68-year-old male experiencing 3-months of a soft tissue mass about the right hip associated with knee and back pain
Dedifferentiated Chondrosarcoma

Dr. Dylan Noblett
University of California, Davis
Sacramento, California
Gastrointestinal Best Case
Clinical information

61-year-old male with severe pain in his right groin over the last 3 days.
Neuroradiology Best Case
85 y/o M with a sudden right anacusis and balance problems that had been evolving for several months.

? abnormal dural thickening → brain MRI without and with contrast
abnormal dural thickening → T2 hypointense and enhancing → ? inflammatory or neoplastic
hypermetabolic on FDG-PET → ? inflammatory or neoplastic
lymphoplasmacytic infiltrate

collagen & fibrosis
immunohistochemistry for IgG (left) and IgG4 (right) = plasma cells
Microscopic Description

The section shows 3 fragments of dura mater with a diffuse, pleomorphic inflammatory infiltrate composed mainly of plasma cells, lymphocytes and monocytes. Focal areas of necrosis with polymorphs and nuclear debris are present. The vessels appear normal. CD 163 is positive in many cells (histiocytes), CD 138 confirms the presence of many plasma cells that appear clustered, CD 20 is positive in only a few cells, CD3 confirms the presence of many small lymphocytes, CD 1A is negative. CD 34 identifies all small vessels that appear normal. There are no real granulomas. About 50% of the IgG positive cells are positive for IgG4. There is no restriction for Kappa and Lambda light chains (ISH), but a predominance for Kappa is noted. FITE is negative.
IgG4-related disease (IgG4-RD)

Dr. Marie Duquet-Armand
Hôpital du Sacré-Cœur de Montréal
Montréal, Canada
Pulmonary and Mediastinal
Best Case
Clinical information

51-year-old man with chest pain and shortness of breath.
Thymic Carcinoma

Dr. Kyuwon Lee
Beth Israel Deaconess Medical Center
Boston, MA
Cardiovascular Best Case
Clinical information

26 year old man with acute bilateral leg pain and motor-sensory loss.
Cardiac Myxoma

Dr. Roberto Monge
The University of Texas Health Science Center at San Antonio
San Antonio, Texas
Pediatric Best Case
12 year old boy who presents with fever, night sweats, weight loss, cough and decreased exercise tolerance.
Collapsed thick walled cyst with adjacent daughter cysts
Scolex within the cyst

Laminated membrane

H&E Stain
Echinococcal Cyst

Dr. Mark Earle
Hospital for Sick Children
University of Toronto Residency Program
Clinical information

23-year-old healthy female with right breast pain for about one year.

Initial US suggestive of mastitis. Treated with antibiotics with persistence of symptoms.
Rad-Path Correlation
Primary Angiosarcoma

Dr. Chen Haim Cohen
Tel Aviv Medical Center
Tel Aviv, Israel
Genitourinary Best Case
37-year-old G3P1011 Jehovah’s Witness at 19w6d with a past history of vacuum assisted vaginal delivery with retained placenta requiring dilation and curettage presented to ED with sudden onset severe abdominal pain, nausea, and vomiting.
Ruptured Placenta Percreta

Dr. Landon Melchior
Norwalk Hospital
Norwalk, CT
Many thanks to all of you for submitting such great cases!

From the staff of the
American Institute for Radiologic Pathology