Best Cases of the AIRP

July-August, 2020
Musculoskeletal Best Case
54-year-old male with left thigh pain; history at age 10 of left femur fracture treated with osteosynthesis
POLYOSTOTIC LESIONS

BENIGN

- LANGERHANS CELL HISTIOCYTOSIS (LCH)
- ENCHONDROMATOSIS
- FIBROUS DYSPLASIA
- HEREDITARY MULTIPLE EXOSTOSES (HME)
- OSTEOXYELITIS
- PAGET DISEASE
- NEUROFIBROMATOSIS (TYPE 1)
- ANGIOMATOUS LESIONS
POLYOSTOTIC FIBROUS DYSPLASIA TO FIBROSARCOMA

Dr. Anne Gallot-Lavallée
CHUV, Lausanne, Switzerland
Gastrointestinal Best Case
Clinical information

64-year-old white female with progressive fatigue. ROS revealed melena x 1mo, intermittent epigastric pain, and unintentional weight loss of 50lbs.
Solitary Fibrous Tumor arising from Duodenum

Sarah Khan, MD
Robert Wood Johnson - St. Barnabas Medical Center
Livingston, NJ
Neuroradiology Best Case
Clinical Information

9-year-old female born healthy with painless neck mass. Otherwise asymptomatic.
Foregut Duplication Cyst

Charles Nhan, M.D.
McGill University
Montreal, Quebec, Canada
Pulmonary and Mediastinal Best Case
Clinical information

46-year-old male with shortness of breath. Additional clinical history of migraines, morbid obesity.
CXR: right lower lobe rounded opacity
CT (right): right lower lobe rounded mass, with small endobronchial component
CTs (above): branching low density areas distal to mass, compatible with post-obstructive mucoid impaction
Endobronchial component of tumor, with locally expanded airways

Macrolobulated soft tissue mass represents the larger intraparenchymal component

Mucoid material in dilated airways, distal to endobronchial portion of the mass
H&E stain: neuroendocrine pattern with monotonous uniform cells, stippled chromatin, no necrosis, few mitotic figures (<2 per HPF)

Synaptophysin special stain: positive tumor staining (brown) for neuroendocrine etiology
Typical Carcinoid Tumor, Right Lower Lobe

Michael Legacy
Beaumont Hospital
Farmington Hills, Michigan
Cardiovascular Best Case
Clinical information

46-year-old woman with chest pain and hemorrhagic pericardial effusion.
Cardiac Angiosarcoma

Guillaume Hamon
Pontchaillou University Hospital Center
Rennes, France
Pediatric Best Case
Clinical information

14 month-old-girl with who presented with delayed growth and repeated respiratory infections in the first year of life.

Abdominal ultrasound was performed.
Nephroblastoma/Wilm’s Tumor

Diana Veiga Canuto, MD
Hospital Universitari i Politècnic La Fe
València, Spain

http://www.hospital-lafe.com/
Breast Best Case
Clinical information

22-year-old woman with enlarging mass in the left breast, over 1 year. No family history of breast cancer. No past medical problems.
Primary Angiosarcoma of the Breast

Denny Lara Nuñez
Instituto Nacional de Ciencias Médicas y Nutrición
Salvador Zubirán
Mexico City, Mexico
Genitourinary Best Case
Clinical information

66-year-old male with no significant past medical history presented with increasing abdominal girth despite reported weight loss.
Myelolipoma

Kirang Patel
University of Missouri at Kansas City
Kansas City, Missouri

American Institute for Radiologic Pathology