Musculoskeletal Best Case
67 year old female with history of lipoma resection from the right upper back now complains of bilateral, slow-growing, upper back/shoulder masses causing pain upon motion.
Axial T1
Axial T1 post
STIR
Cor T1
BILATERAL ELASTOFIBROMAS

Dr. Patrick Roth
Jackson Memorial Hospital
Miami, FL
Honorable Mention
MSK
A 56 year old male with history of multiple fractures complains of right hip pain and gait disturbance associated with weight loss. On exam, a large mass is noted anterior to the right tibia, with progressive growth in the past 6 months.
OSTEOMALACIA/RICKETS

- Deficiency (dietary, sunlight, elderly)
- Hereditary (vitamin D dependent - autosomal recessive; X linked hypophosphatemia)
- Neonatal (premature < 28 weeks low calcium)
- Toxicity (anticonvulsants, aluminum, ifosfamide)
- Kidney (chronic renal insufficiency or tubular)
- Liver (biliary or hepatocellular)
- GI tract (malabsorption - loss vit D/calcium)
- Oncogenic (hypophosphatemic mesenchymal tumor)
Phosphaturic Mesenchymal Tumor

Dr. Daniel Vargas
Universidad de Cartagena
Bogota, Colombia
Gastrointestinal Best Case
Clinical information

50-year-old woman presents with early satiety and postprandial fullness, with recent unexplained 40 lb (18kg) weight loss over the past 6 months.
Intact mucosa

Submucosa

Muscularis mucosa

Serosa
Diffuse Mucinous Gastric Adenocarcinoma

Gustavo Barraza
Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán
Mexico City, Mexico
HONORABLE MENTION
Clinical information

27-year-old woman with history of epigastric pain for 3 days, now presents with worsening in the past 12 hours. The patient also reported nausea and vomiting.

PE: (+) epigastric / periumbilical tenderness, (-) Blumberg’s sign, multiple pigmented lesions on the lips, oral mucosa and palm of hands.
Peutz-Jeghers syndrome with hamartomatous polyps causing multifocal intussusception

Danieli Marini
Irmandade Da Santa Casa De Misericórdia De São Paulo
São Paolo, Brazil
Neuroradiology Best Case
Clinical Information

10-year-old male with tender left neck mass below the ear and small preauricular pit
Ruptured Parotid Dermoid
(with suspected First Branchial Cleft Cyst)

Christopher Centonze, M.D.
University of Michigan
Ann Arbor, Michigan
Pulmonary and Mediastinal
Best Case
Clinical Information

35 year old with weight loss, tachycardia, nocturnal sweating and heat intolerance
Neck mass extending into the mediastinum: ultrasound
Neck mass extending into the mediastinum: CT
Neck mass extending into the mediastinum: CT
No evidence of vascular invasion: MR
No evidence of vascular invasion: MR
Surgical removal
Surgical removal
Mediastinal Ectopic Thyroid

Cristian Araneda, MD
Cardiovascular Best Case
43 year old female with several months of abdominal pain, right upper quadrant.
H&E stain (100x) shows bundles of spindle cells intersecting at right angles.
Immuno stain (100x) shows actin positivity
Immuno stain (400x) shows desmin positivity
Leiomyosarcoma of the IVC

Alvaro Siedi, MD
Hospital Britanico de Buenos Aires
Buenos Aires, Argentina
Pediatric Best Case
Clinical Information

5 year old girl born at term without complications presenting 3 months of signs of precocious puberty.
Juvenile Granulosa Cell Tumor

Jennifer Gillman, MD
Hospital of the University of Pennsylvania
Philadelphia, PA
Breast Best Case
50-yo female with a palpable left breast mass. The patient first noticed the mass approximately 1 year prior to presentation, which gradually increased in size.

On physical examination, the left breast was visibly larger than the right. There was a firm, mobile, subareolar mass measuring 7-8 cm in diameter within the left breast which was mildly tender to palpation.
Mammogram
Breast US

AREA OF Palpable lump
Left Breast 1:00 4 CMFN Rad
Gross
Sectioned Gross
Histology
DCIS within an Intracystic Papilloma

Jordan Smith
University of Missouri
Kansas City, Missouri
Genitourinary Best Case
Clinical Information

21 year old female being evaluated as a renal donor
Oblique T2
Oblique T2
Serous Borderline Ovarian Tumor

Ryan Aronberg
University of Michigan
Ann Arbor, MI