

New York Chapter ACP

Annual Scientific Meeting

Poster Presentations

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Hilton Hotel Westchester 699 Westchester Avenue Rye Brook, NY 10573



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Annual Scientific Meeting

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Bicytopenia (Thrombocytopenia and Anemia)	
	ALS Symptoms in a 33 year old female
Pneumonia	
Secondary to Human Respiratory Syncytial Virus Pneumonia The human respiratory syncytial virus (RSV) is a major cause of lower respiratory infection especially in the elderly, infants and young children. RSV causes bronchiolitis, tracheobronchitis, and otitis media and in more severe cases can lead to pneumonia. The virus can also have extra-pulmonary manifestations like cardiovascular failure, arrhythmias, seizures, and hepatitis, and in rare cases it has been reported to be the cause of abnormal blood counts. Here we report a case of RSV induced bicytopenia. An 81-year-old male with a past medical history of dementia, hypertension, arthritis, and Stage 3 chronic kidney disease presented with chief complaint of dry cough of 3 days durations. Upon presentations he was found to be RSV positive with a bilateral pneumonia confirmed with imaging. Laboratory values were significant for hemoglobin and hematocrit of 7.9 and 23.6 and platelet count of 17,000, which shows a severe decrease from hospital admission a month prior with values of 11.6, 34.2 and 200,000. Further testing for other possible causes of acute thrombocytopenia and anemia such as heparin- induced thrombocytopenia (HIT) and hemolytic anemia were negative. Note that other sources of infection were also ruled out by viral and bacterial cultures and further laboratory tests. We hypothesize that the transient marrow viral suppression, which led to the bicytopenia, was the result of RSVs negative effect on the bone marrow progenitor cells or more specifically the megakaryocyte'erythroid progenitor cell (MEP). Bone marrow suppression secondary to RSV has been reported in very few other cases and confirmed using in vitro studies.	 ALS Symptoms in a 33 year old female Introduction: Amyotrophic Lateral Sclerosis (ALS) is a progressive neurodegenerative disorder that affects the motor neuron system. It is a clinical diagnosis without a widely accepted single diagnostic test. Worldwide, ALS affects white males aged greater than 60 more than any other group. The classic features of ALS involve upper and lower motor neurons and usually do not include symptoms or signs outside of the voluntary motor system. Case Presentation: A 33 year old female originally from Jamaica with no significant past medical history presented with dysphagia, dysarthria, and progressive weakness of the right hand. Approximately three months prior to admission, the patient reported experiencing slurred speech and difficulty swallowing solid foods. About one month later, she reported developing weakness in her right hand, having difficulty with grip and movement of the digits. In addition, the patient reported recently experiencing an intermittent pins and needles sensation in both lower extremities and around her eyelids. She had no known family history of any neurological disorders. Physical examination revealed posterior tongue atrophy and fasciculations as well as brisk patellar reflexes bilaterally. Sensation in the lower extremities was also noted to be decreased in a stocking-glove distribution bilaterally. CT scan of the head done on hospital admission revealed no intracranial mass or hemorrhage and an echocardiogram was also unremarkable. The patient was followed up by the neurological service and on the second day of admission, an MRI of the brain and spinal cord showed no evidence of infarction or white matter pathology but revealed a disc herniation at the C4-CS level. Next, EMG and nerve conduction studies showed relative sparing of sensory fibers and widespread denervation and fasciculation potentials in three limbs, thoracic paraspinal muscles and bulbar muscles. These findings confirmed the diagnosis of ALS a

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Unusual Suspect: Isolated Pauci-Immune Pulmonary	
Capillaritis	Hypervitaminosis D secondary to Poly-
Isolated pauci-immune pulmonary capillaritis (IPIPC) is a	supplementation: A Case Report
condition characterized by Diffuse alveolar Hemorrhage	
(DAH) with underlying pulmonary capillaritis but without	Vitamin D toxicity is a condition with serious
clinical or serologic findings of an associated underlying	complications and often one that is hard to diagnose
systemic disorder. The presentation and frequency of which	when the patient history is elusive. With the popular
the disease is encountered makes IPIPC a diagnostic	availability of over the counter supplements in North
challenge.	America, it is becoming increasingly easier for the
A 62 year old non'smoking female presented with cough, intermittent hemoptysis and progressive dyspnea of 4	general population to poly-supplement. In 2016, the
months duration. She had a history of End stage renal	Global Dietary Supplement market was valued at USD
disease, Hypertension, Diabetes mellitus and Mitral	132.8 billion and is projected to reach a market value
regurgitation. Respiratory system examination revealed	of USD 220.3 billion in 2012. North America accounted
diffuse rales and decreased breath sounds bilaterally. Other	for 28% of the supplement market alone in 2016 with
organ system examination did not reveal any abnormality.	the largest usage rate in population aging 50 and
Chest X-ray and CT thorax showed diffuse bilateral opacities.	above. Specifically, the most used supplements in any
She had a low resting oxygen saturation with fluctuating	population across the globe were Vitamins, which
hematocrit. Diagnostic evaluation included cryoglobulins,	accounted for 42% of the global market share last
antiphos-pholipid antibodies, rheumatoid factor, anticyclic	_
citrullinated peptide, and antiglomerular basement	year.
membrane; Anti-neutrophil cytoplasmic antibodies (ANCA);	
antinuclear antibodies cascade; celiac disease serology and	We herein present the case of a patient admitted with
fungal serologies all of which were negative. Urinalysis was	severe cryptogenic hypercalcemia and acute kidney
negative for proteinuria, hematuria or red blood cell casts.	injury. As he mistrusted of physicians over the years
Cultures were negative and she was unresponsive to empiric	due to past medical encounters, he concealed certain
antibiotics. C-reactive protien was consistently elevated.	details of his history. Over the course of his
Bronchoalveolar lavage revealed continuous bloody	hospitalization, a trustworthy relationship was
aspirates consistent with DAH . Kidney biopsy in recent past was negative for glomerulonephritis or vasculitis. Capillaritis	established and the patient revealed that he had been
is the most common cause of DAH but is often associated	ingesting especially high doses of Vitamin D to
with ANCA associated vaculitis , systemic autoimmune	improve his bone function.
disorders and Anti-glomeruler basement membrane anti-	
body disease. In view of presentation of diffuse alveolar	
hemorrhage in the absence of immune markers a diagnosis	
of Isolated pauci-immune Pulmonary capillaritis was	
considered and the patient was started on high dose	
methylprednisone with a good clinical and radiologic	
response. One month later there was continued	
improvement in the patient's condition.	
Isolated pauci-immune pulmonary capillaritis is a rare	
disorder of unknown etiology and unknown epidemiology. It	
is idiopathic inflammation limited to the microcirculation of	
the lungs. There are limited cases reported in the literature.	
If treated patients with IPIPC and DAH have a better	
prognosis than patients with systemic disease leading to	
DAH. IPIPC should be considered in patients with DAH even	
when no immune markers are detected to allow for early recognition. Early treatment is expected to increase survival	
and decrease morbidity and mortality with untreated or	
unrecognized IPIPC.	
annelognizeu IFIFC.	

Adrianna Gatt MS3	Danielle Guilfoil Medical Student
Samuel Joseph Malian, MS3, American University of	Good Samaritan Hospital Medical Center
the Caribbean, Nassau University Medical Center, East	
Meadow, NY	A CASE OF ACUTE ESOPHAGEAL NECROSIS IN
Chris Elsayad, MD FACP, Nassau University Medical	ALCOHOLISM
Center, East Meadow, NY	
Nassau University Medical Center	Acute esophageal necrosis (AEN), also known as black
	esophagus or necrotizing esophagitis is an extremely
Schmidt Syndrome: Diagnostic Considerations for	rare condition with a high mortality rate of 13-35%. It
	is prevalent in 0.2% of autopsies and 0.001%-0.2% of
Polyglandular Autoimmune Syndrome Type II	•
	endoscopies. The first documented diagnosis of AEN
Polyglandular Autoimmune Syndrome (PAS) has two major subtypes	took place in 1990, and only 88 patients have been
and can present with different combinations of Addison's	diagnosed with AEN since that time.
disease, Hashimotto's thyroiditis, Graves' disease, type I	
diabetes, pernicious anemia, vitiligo, alopecia, hypogonadism and	The condition is diagnosed by upper endoscopy with
more. Multiple subtypes and differing classification criteria can make early diagnosis difficult in patients that will require long term	
health maintenance and hormone replacement therapy. This	characteristic circumferential black mucosa of the
abstract aims to highlight an atypical presentation of PAS Type II,	distal esophagus, and histology of necrotic lesions of
compare it to other PAS subtypes, and discuss how early diagnosis	the mucosa and submucosa. Risk factors for AEN
and treatment could have potential beneficial patient outcome.	include advanced age, male sex, diabetes,
PAS Type I, commonly referred to as APCED, is the result of a defect	hypertension, coronary artery disease, alcoholism and
of the AIRE gene on chromosome 21, passed down in an autosomal	advanced malignancy. Pathogenesis of AEN is believed
recessive fashion. It typically presents in early childhood (3-5 yrs)	
with hypoparathyroidism, recurrent mucocandidiasis, and adrenal	to be due to a combination of ischemia to the distal
hyperplasia with a male to female ratio of 3:4.	esophagus from hemodynamic compromise, gastric
PAS Type II involves Addison's Disease in conjunction with	outlet obstruction causing reflux of acid with resulting
Primary Hypothyroidism (Schmidt Syndrome) and/or Type I Diabetes	chemical injury, and inadequate protective barriers of
(Carpenterâ€ [™] s Syndrome). PAS-II is associated with chromosome 6	the esophageal mucosa due to chronic illness. The
mutations, HLA-DR4 and/or HLA-DR3 haplotypes, and a polygenic	
autosomal dominant inheritance with variable expressivity. Most	following is a case of AEN in the presence of the
commonly, it first presents in middle-aged adults (30-40 years) with a female to male ratio of 3:1.	predisposing factor of acute lactic acidosis secondary
A 69 y.o. male presented to the medicine primary care clinic for a	to chronic alcoholism.
follow up on bloodwork. He has had a diagnosis of Schmidt	
Syndrome since 2015 upon immigration from El Salvador. His past	
medical history is notable for chronic adrenal insufficiency, primary	
hypothyroidism, dementia, GERD, pre-diabetes, and vitamin B12	
deficiency. The patient follows closely with neurology and	
endocrinology clinics. His current medications include:	
levothyroxine, cyanocobalamin, pantoprazole, donepezil,	
hydrocortisone, cholecalciferol, atorvastatin, and ASA 81mg.	
Our patient represents an atypical presentation of Schmidt	
syndrome, given his sex and late age of diagnosis. A Schmidt	
Syndrome diagnosis is mentioned briefly in the patient note, but no	
further endocrine testing has been done. Notably, the patient's medical record lacks a differential diagnosis including pernicious	
anemia. There is sufficient data suggesting a relation between PAS-	
Type II and immunogastritis. Immunogastritis includes ulcerations	
in the stomach leading to gastric mucosal atrophy, selective loss of	
parietal cells, and circulating parietal cell autoantibodies.	
Immunogastritis could cause pernicious anemia, and a vitamin B12	
deficiency can develop.	
Current diagnosis and treatment guidelines for Polyendocrine	
Autoimmune Syndrome recommend a symptomatic model for	
treatment and not a systematic approach to the disease.	
If physicians are expected to treat each of the patientâ€ [™] s effected	
organ systems separately, it proves more difficult to diagnose	
subtypes of PAS, especially in patients with atypical presentations.	
This delay in diagnosis also makes it extremely challenging to screen	
for additional pathologies that may be associated with any of the	
PAS Subtypes, similar to the speculative Pernicious Anemia as in the case of our patient.	

Vikaran Kadaba Joseph Hong OMS4 Mehak Kapoor OMS3, Jaya Sanapati MS4, Gagan Raju Zalmi Rahmany, Natalia Lattanzio, Niket Sonpal MD MD, Carlos Ceron MD, Liorge Orozco Dominguez MD, Brookdale Hospital Dovil Kulakauskiene MD. DIFFUSE LARGE B CELL LYMPHOMA MASQUERADING Nassau University Medical Center IN THE COLON AND LIVER AS A SOLID MASS "Not just a UTI: a rare case of emphysematous Introduction: Diffuse large B-cell lymphoma (DLBCL) is the cystitis" most common type of non-Hodgkin lymphoma (NHL) and typically presents in late adulthood as either an enlarging This case report examines an elderly, diabetic female who lymph node or extranodal mass in the GI tract, testis, CNS, presented with symptoms remarkable for one day of anuria breast or bone. DLBCL can present as a large mass, but a with suprapubic tenderness relieved by urine passage following abdominal palpation. She also endorsed week-long worsening mass in both the liver and colon is an extremely rare sharp, shooting right-sided flank pain and multiple episodes of occurrence and goes against Occamâ€[™]s razor. For this emesis; however, there was lack of urinary infection symptoms. reason, physicians need to remain vigilant and have a broad For our patient, emphysematous cystitis was confirmed by differential diagnosis for patients presenting with signs of a computed tomography imaging. Emphysematous cystitis is an malignant mass in the colon and liver and not assume it is uncommon and poorly defined finding indicated by the metastasis. presence of gas within the bladder mucosa, typically caused by Case Report: A 40-year-old male with past medical history gas-forming organisms such as Escherichia coli (58% of cases) or of colitis presented to the emergency department for 2-3 Klebsiella pneumoniae. Less common microbes involved in weeks of mild epigastric pain associated with nausea in the emphysematous cystitis include Proteus, Enterococcus, morning. He denied any fever, vomiting, jaundice, change in Pseudomonas, Clostridium, and Candida species. Our patient bowel movement or stool color but mentioned some was found to have urine culture positive for gram negative rod unintentional weight loss in the past month. On initial microbes. The pathogenesis of emphysematous cystitis, though examination, the patient had a low-grade fever and a large poorly understood, may involve the consideration of a favorable mass in his right upper quadrant of his abdomen that microenvironment in the setting of elevated tissue glucose, and elicited tenderness on palpation. Labs initially revealed a is thus seen most often in diabetic patients. In a study involving hemoglobin of 10.1, MCV of 71, ALP of 319, but normal 153 cases of emphysematous cystitis, it was found that 63.4% of levels of AST, ALT, CEA, AFP. Lab work for hepatitis and HIV patients were women and 66.7% were diabetic. Other notable also came back non-reactive. Imaging with CT revealed risk factors in addition to diabetes are urinary tract obstruction as well as decreased tissue perfusion. Neurogenic bladder, end hepatomegaly with a large heterogeneous mass and central stage renal failure, immunosuppression, urethral necrosis as well as wall thickening of the ascending colon catheterization, and vesicorectal fistulas are additional noted with pericolonic lymph nodes. An MRI was taken of the liver risk factors. With the fermentation of glucose performed by the with a working diagnosis of hepatocellular carcinoma which causative organisms, hydrogen and carbon dioxide gases demonstrated a mass completely occupying the right lobe of accumulate within the urinary tract. In non-diabetic patients, the liver. A colonoscopy revealed a friable mass obstructing elevated levels of tissue albumin or lactose can be fermented by 75% of the lumen of the ascending colon. Biopsies were causative microbes. There is also consideration of the role of taken of both masses to determine the primary malignancy bacterial endotoxin release, subsequently causing stasis from which revealed primary diffuse large B-cell lymphoma with a paralysis of the urinary tract. Patients frequently present with Ki-67 of 60-70%. The patient was started on chemotherapy nonspecific abdominal pain, while classic signs of acute cystitis therapy for 6 courses and is currently following up as an such as dysuria, urinary frequency, and urinary urgency are outpatient. uncommon. Our patient did not present with any of these Discussion: Primary colonic lymphoma accounts for less symptoms. In a review of 135 cases of emphysematous cystitis than 2% of non-Hodgkin Lymphoma and primary hepatic over the years of 1956'2006, 7% of cases were completely lymphoma accounts for even less making a simultaneous asymptomatic, incidental findings. Diagnosis is reliant on imaging, including plain films and computed tomography, with case with both a very rare occurrence. While often the later being more sensitive and definitive. In one study of 53 overlooked due to its rarity, it is important to keep cases, 94.4% of cases demonstrated air in the bladder wall itself, lymphoma in the differential for a suspicious mass in the while 3.7% of cases demonstrated air within the lumen of the colon or liver. While the presentation may appear like bladder. Due to recent increase in use of imaging studies hepatocellular carcinoma or colorectal carcinoma, correctly resulting from more awareness of UTI complications, the diagnosing the disease is important as the treatment differs. incidence of emphysematous cystitis reports have jumped, with Treatment strategies for DLBCL utilize chemotherapy while a majority of reported cases to date being found in the past 15 treatment options for colorectal carcinoma and years. Treatment involves focus on comorbidities, proper hepatocellular carcinoma may include resection or radiation. glycemic control in diabetics, and initial initiation of broad Having a high index of suspicion will promote a proper spectrum antibiotics followed by narrowing of antibiotic workup and correct diagnosis to limit progression of the

lymphoma.

regimen based on sensitivities.

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"A Shocking Bleed: suspected angiomyolipoma rupture complicated by hemolytic anemia"•

Our case describes a 53-year-old female who presented to the emergency department with hemorrhagic shock, experiencing right-sided flank pain radiating to the right lower quadrant. Computed tomography (CT) revealed right renal hematoma with active extravasation due to suspected angiomyolipoma (AML) rupture. Right renal artery segmental embolization was performed; blood transfusions followed for further stabilization. Endotracheal intubation was performed for volume overload subsequent to transfusions. Our patientâ€[™]s course was complicated by autoimmune hemolytic anemia, responsive to steroid therapy. AMLs are considered to be the most common benign neoplasms of the kidney, affecting over 10 million individuals globally. Genetic predisposition to renal AML is seen in patients with tuberous sclerosis complex and lymphangioleiomyomatosis. Recent data shows a total of 49%-60% of patients with TSC presented with renal AMLs. The majority of AML cases are considered to be triphasic or classic variant type, which features smooth muscle, adipocyte, and epithelioid cell differentiation. Classic variant AML manifests with abnormally thick vessel walls lacking well developed internal elastic lamina, predisposing to hemorrhage. Enlarging AMLs also have the ability to develop micro- and macroaneurysms that may consequently rupture. Most patients are initially asymptomatic and have normal renal function; however, among symptomatic patients, flank pain is most commonly seen, followed by gross hematuria, and spontaneous rupture. In a study of 129 patients with AML who underwent surgical intervention or angioembolization, average age at presentation was 50.6 years, with presentation involving flank pain, hematuria, spontaneous rupture, and fatigue. Within the same study, 75.2% of cases were incidental findings, and 77.5% of cases were female. In most cases, ultrasound can establish diagnosis of AML; however, CT or magnetic resonance imaging (MRI) is obtained in patients with suspected AML detected on ultrasound. If the diagnosis cannot be made with certainty via CT or MRI, needle-guided biopsy can confirm diagnosis. In 10% of cases, AML has been found to manifest with hypovolemic shock due to massive retroperitoneal hemorrhage. In the setting of "Lenk's triad― consisting of sudden or insidious onset of flank pain, palpable flank mass, and hypovolemic shock, Wunderlich Syndrome is suspected. Wunderlich syndrome is an exceedingly rare diagnosis, with neoplasm such as renal angiomyolipoma or renal cell carcinoma being the etiology in up to 60% of cases. Additional causative pathology of Wunderlich syndrome includes rupture of the renal artery, rupture of a arteriovenous malformation, cystic medial necrosis, polyarteritis nodosa, or cystic rupture. Treatment of angiomyolipomas vary with the degree of severity of the presentation as well as size and number of lesions. In the setting of acute life threatening hemorrhage, renal artery embolization is the preferred treatment, allowing for hemodynamic stabilization as well as the benefit of eliminating need for further invasive therapy.

Timothy Kim BA

Ernie L. Esquivel, MD, Josephine Cool, MD Weill Cornell Medical College Resorting to smear tactics to halt a platelet emergency in a patient with lupus flare

Case Presentation:

A 20-year-old woman with systemic lupus erythematosus (SLE) complicated by class V lupus nephritis was admitted for anemia and thrombocytopenia. Despite immunosuppressants and diuretics, she complained of anasarca over two weeks. Examination revealed abdominal distention and pitting lower extremity edema. Laboratory studies showed a hemoglobin of 6.9, platelets 90K, an elevated creatinine 3.79 (baseline 1.0). Decreased complement levels, positive direct Coombsâ€[™] test, elevated LDH and low serum haptoglobin were worrisome for autoimmune hemolytic anemia (AIHA) and lupus flare, prompting administration of dexamethasone. Although the creatinine improved the next day, platelets plummeted to 12K, haptoglobin to < 6, and LDH rose to 1106. Review of the peripheral blood smear demonstrated numerous schistocytes and profound thrombocytopenia. In the setting of acute renal failure and hemolytic anemia there was concern for thrombotic thrombocytopenic purpura (TTP). Upon transfer to the ICU, plasma exchange therapy (PLEX) was initiated and pulse dose steroids administered. Moderate deficiency in ADAMTS13 activity was measured, but an ADAMTS13 inhibitor assay was negative, raising the possibility of atypical hemolytic uremic syndrome (HUS). Renal biopsy showed active class IV lupus nephritis and one arteriolar thrombus without obvious thrombotic microangiopathy (TMA). The patient's hemoglobin, platelets, and renal function stabilized after 7 sessions of PLEX in combination with pulse steroids. Discussion

Diagnosing TMA in patients with SLE is difficult because of overlapping hematologic manifestations. AIHA and renal dysfunction are common in a lupus flare, and immune thrombocytopenia can be associated with AIHA (Evans syndrome). Differentiating between TMA and AIHA using Coombs testing is limited by evidence showing positive direct agglutination in SLE patients without active hemolysis (1). Thus, the peripheral smear is crucial since schistocytes due to microangiopathic hemolytic anemia would be seen in TMA and spherocytes in AIHA. Other signs of extravascular hemolysis, like splenomegaly and hyperbilirubinemia, may also be present in AIHA. Further distinguishing TMA due to TTP and atypical HUS in SLE is complicated. Indeed active lupus nephritis is associated with increased risk for developing TTP (2). However, lupus nephritis in the same patients may lead to uninhibited, continuous complement activation causing atypical HUS. Response to PLEX vs high dose immunosuppressants is generally used to identify TTP and atypical HUS, respectively, while a severe deficiency in ADAMTS13 activity (<5%) is diagnostic of TTP. However, in cases such as ours where both therapies were administered simultaneously and ADAMTS13 activity is only moderately deficient, the distinction is muddled. Laboratory testing for anti-complement antibodies mediating aHUS disease is possible but not widely available. In patients who fail to respond to PLEX, successful treatment of TMA with eculizumab may be indicative of an atypical HUS presentation. Reference

1. Clin Rheumatol 2017 Sep;36(9): 2141.

2: Lupus 2009; 18: 16.

Ashley Saint-Flleur Brookdale Hospital Medical Center MS3 Spirochete Stroke Neurosyphilis refers to infection of the central nervous Medical Center system by the spirochete, Treponema pallidum. Known as "The Great Imitator― due to its The Pepcid Pustulosis Problem - A Rare Side Effect frequent atypical presentation, which is often very similar to other diseases, syphilis should be considered in the evaluation of a young patient with cryptogenic stroke. We present a case of a male who presented with stroke like symptoms, but as the imitation game would have it, was truly suffering from neurosyphilis. A 40 year old male with no significant past medical history presented to the Emergency Department with acute onset of slurred speech, right sided facial droop, and right upper extremity paresis. While in the ED symptoms progressed to include right lower extremity weakness and the patient became unable to walk. On physical examination, the patient had decreased muscle strength of the right upper and lower extremity, more pronounced in the upper extremity. On neurological examination, he was oriented to person, place, and time. He visibly struggled to articulate, but comprehension was not limited. A clinical diagnosis of Dyasrthria-Clumsy Hand syndrome and a lacunar stroke was made. CT head without contrast was performed on admission and did not reveal any acute abnormality. Initial blood analyses were within normal limits. However, additional history revealed that last year the patient noticed a strange rash develop on his palms and soles, but because it didn't itch or hurt, he thought nothing of it. A syphilis workup ensued, and among CSF serological tests, RPR was reactive at 1/256 dilution and VDRL was positive. Treponemal Antibody was also reactive. Cranial MRI images showed recent infarct in the left corona radiata. The patient was diagnosed as Neurosyphilis and after consultation with the department of infectious diseases, intravenous penicillin G was started. The patient showed marked improvement in slurred speech after three days of improvement. treatment, while motor weakness gradually improved over the course of two weeks. This case illustrates the potential to misdiagnose

Neurosyphilis due to its overlap with other diseases. Although Neurosyphilis has been a rarely seen clinical entity within the last decade, it should be included on the differential in young patients with cryptogenic stroke. Recognition of this syndrome requires a high degree of clinical suspicion and, due to the marked improvement with antibiotics, it is critical to institute appropriate therapy and prevent neurological complications.

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Cutaneous adverse effects are a common manifestation that can occur from the use of medications, which can present with mild to life threatening outcomes. Acute Generalized Exanthematous Pustulosis (AGEP) is a dermatologic condition characterized by numerous non-follicular sterile pustules on a background of edematous erythema and is believed to be exacerbated by a drug reaction. It is estimated that the incidence of AGEP is one to five per million per year. The most common offending drugs are antibiotics, with antifungals and antimalarials also showing a strong association. However, we report a case of Pepcid (Famotidine) -induced AGEP. An 82 year-old African American female with a known medical history of HTN, GERD, eczema, and glaucoma was brought to the ER by her son after being found lethargic and difficult to arouse from sleep in her home. She had chief complaints of chills, fatigue, and dry skin with an accompanied rash. The performed Chest X-rays demonstrated significant pulmonary infiltrates leading to a diagnosis of Right Lower Lobe Community Acquired Pneumonia. The patient was subsequently hospitalized for treatment and was managed with Vancomycin and Rocephin. She was previously hospitalized two months prior to this current admission for diffuse dermatitis with exfoliation and was diagnosed with Eczema status post skin biopsy. Her condition was shown to be exacerbated when her dosage of Famotidine was increased for symptomatic treatment of GERD. She was since taken off famotidine, however her rash persisted and consistently developed over time, leading to her present condition. The skin rash was found on the trunk, extremities, face, and scalp sparing the palms, soles, and mucosal membranes of the mouth. There was marked neutrophilia with labs as high as (9.0 x 10³), slight eosinophilia, and decreased creatinine clearance that has since resolved. The patient has also been complaining of dry mouth with trouble swallowing, with no associated pain. The Anti-SSA and SSB came back negative ruling out Sjogren Syndrome as well as a negative skin biopsy ruling out bacterial infection. The patient is currently being treated with ammonium lactate lotion and prednisone. The pustules had disappeared by the 8th day of admission leaving dry skin and some scarring with continuing

This case is to bring attention to an uncommon skin manifestation caused by a drug that has not had many documented cases of causing AGEP. AGEP is theorized to be a T cell mediated neutrophilic inflammation. CD4+ T cells produce copious amounts of CXCL8 and GM-CSF which induce neutrophil chemotaxis and reduce neutrophil apoptosis, respectively, resulting in an accumulation of neutrophils in the tissue. Though rare, AGEP should be considered in patients that are developing cutaneous manifestations with Famotidine treatment. References: Chu, Chia-Yu. Acute Generalized Exanthematous Pustulosis (AGEP).― UpToDate,

www.uptodate.com/contents/acute-generalizedexanthematous-pustulosis-agep#H30350778.

Karl Zakhia

Kwame Le Blanc BS, Ikenna Ihim MD, Joshua Davidson MD,St. George's University School of Medicine Coney Island Hospital Department of Internal Medicine, Brooklyn, New York, Coney Island Hospital

CASE REPORT OF ATEZOLIZUMAB-INDUCED GRADE V PNEUMONITIS

Immune checkpoint inhibitor monoclonal antibodies (mAbs) that target programmed death 1 (PD-1) or programmed death ligand 1 (PD-L1), have recently been approved for treatment of non-small cell lung carcinoma (NSCLC) who have failed chemotherapy (1). However PD-1 and PD-L1 mAbs have been demonstrated to cause several immune-related adverse events (IRAEs), including pneumonitis (2). Studies have estimated 11% of patients treated with a PD-L1 inhibitor experience IRAEs, but only 2% experience any grade pneumonitis (3). Incidence of severe pneumonitis in patients with NSCLC treated with a PD-L1 inhibitor was estimated as 0.4% (4). Atezolizumab is a humanized mAb targeting PD-L1 that has been approved by the Food and Drug Administration for treatment of individuals with NSCLC who have previously been treated with platinum-based chemotherapy (5). In February, a 62-year-old woman, with history of stage IV lung adenocarcinoma presented to our hospital with dyspnea. She had previously completed courses of carboplatin/paclitaxel and crizotinib in 2016, and radiation therapy in 2017. In January 2018 she was started on Atezolizumab. Three days prior to admission, she developed a cough productive of whitish sputum with progressive shortness of breath. Initial evaluation revealed desaturation on room air, scattered rales, high leukocytosis, and Chest CT significant for diffuse multifocal airspace disease. She was initially treated for bacterial pneumonia but failed to improve with persistent leukocytosis. Atezolizumab induced pneumonitis was suspected and the patient was started on high dose corticosteroids. She continued to deteriorate, requiring increasing oxygen supplementation, so mycophenolate was added to the regimen. Bronchoscopy was not performed as the patient was do not intubate. Unfortunately, she expired and her diagnosis was evolved to Grade V pneumonitis.

Severe immunotherapy related pneumonitis is a rare, but increasingly important, clinical entity. Pneumonitis was the proximal cause of death in only one of 915 patients reviewed in two cancer institutions treated with immunotherapy (1).

Previously identified risk factors for immunotherapy induced pneumonitis include treatment with combination immunotherapy (1), use of a PD-1 inhibitor (3,4), and treatment naivety (4). Onset of immunotherapy related pneumonitis has been reported as early as 9 days after initiating treatment (1). Treatment of immunotherapy related pneumonitis, based on expert opinion, includes high dose corticosteroids with progression to advanced immunosuppressants for patients who are not improving including mycophenylate mofetil, cyclophosphamide, anti-TNF therapy, or IVIG (6). Several patterns of immunotherapy related pneumonitis have been described (1,7). Our patient showed evidence of both parenchymal and bronchovascular lung injury, but without the traction bronchiectasis or dependent distribution typically found in acute interstitial pneumonia (AIP), that most closely resembled a hypersensitivity pneumonitis pattern. As use of check point inhibitors is becoming routine, proper recognition and management of IRAEs including pneumonitis will be necessary for internists.



New York Chapter ACP

Annual Scientific Meeting

Medical Student Research

Amrita Balgobind

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ASSOCIATION BETWEEN PSORIASIS AND CROHN'S DISEASE: A POPULATION-BASED ANALYSIS IN THE UNITED STATES

Introduction:

Psoriasis is an immune mediated disease that has been shown to be associated with inflammatory bowel disease (IBD); however the link between psoriasis and IBD is currently unclear. Crohn's disease is a type of IBD characterized by chronic inflammation that develops due to an inappropriate immune response to commensal microorganisms in genetically predisposed individuals. The purpose of this study is to determine whether there is a higher prevalence of Crohn's disease in psoriasis patients when compared to non-psoriasis patients. Methods:

We performed a cross-sectional analysis using a multi-health system data analytics and research platform (IBM Explorys). Clinical, laboratory, claims, and billing data are standardized and curated according to a single set of controlled vocabularies to create longitudinal records for over 55 million unique patients across the United States. The study population was comprised of patients aged 18 years or older with an active status in the database within the past three years, and available race, gender, age, and BMI information. Patients' psoriasis and Crohn's disease status were identified using diagnosis codes, classified according to the SNOMED-CT ontology. Multivariable logistic regression was performed to compare the prevalence of Crohn's disease in patients with and without psoriasis, controlling for age, gender, race, obesity, and smoking status.

Results:

Overall prevalence of Crohn's disease was 1.6% (2,490/154,670) among psoriasis patients and 0.7% (85,110/12,152,530) among non-psoriasis patients. Prevalence was greatest among psoriasis patients who were women (1.9%), aged 18-44 years, white (1.7%), smokers (1.9%), and those with a BMI =30 (1.9%). After controlling for potential confounders, patients with psoriasis had 2.21 (95% CI 2.13-2.30) times the odds of having Crohn's disease compared to patients without psoriasis (p<.0001). Crohn's disease was more common in psoriasis patients across all demographic subgroups.

Conclusion:

We observed that patients with psoriasis have more than two times the odds of having Crohn's disease compared to those without psoriasis. The investigation of this topic may lead to the improvement of clinical care for patients by facilitating enhanced surveillance for and earlier detection of Crohn's disease in patients with psoriasis.

Zalmi Rahmany

Natalia Lattanzio, Vikaran Kadaba Brookdale Hospital

Auto Brewery Syndrome in a Diabetic Man

Introduction: Auto-Brewery Syndrome (ABS), also known as Gut Fermentation Syndrome, is a rare medical condition in which ethanol is endogenously produced and fermented by fungal overgrowth in the gut. Many bacteria and fungus species are known to ferment ethanol such as Escherichia, Salmonella, Candida. The causative organism for our patient is Saccharomyces cervisiae. Ethanol production, as well as taking metformin Metformin, can lead to lactic acidosis. Conventional methods to treating ABS are not always successful, especially if exacerbated by a comorbidity, therefore other empiric methods have been utilized. Case: A 46 year old male was having dinner with his wife when he developed symptoms of progressively worsening vomiting, diarrhea, and slurring of speech. He was rushed to the ED and given a diagnosis of acute pancreatitis secondary to alcohol intoxication, although he has not had a drink of alcohol for 20-years. He has a past medical history of diabetes and is compliant with his Metformin. The patient stated he had underwent a surgical procedure then a dental procedure the following week, and both times he was prescribed antibiotics. A colon biopsy was negative but fungal stool cultures grew Saccharamyces cervisiae. He was diagnosed with Auto Brewery Syndrome (ABS), and was given a 21-day regimen of Fluconazole and probiotics, consistent with conventional approaches to treating ABS. The patient returned 2 weeks later with worsening symptom and signs of lactic acidosis and elevated ethyl alcohol levels. He was admitted to the ICU for continuous monitoring, and the Infectious Disease team decided on an empiric approach of IV Micofungin. This treatment option had no supporting data due to the rarity of his condition alongside with his comorbidity. The patient's lactic acidosis resolved in the following days, as well as his ethyl alcohol levels stabilized, and the Micofungin successfully decreased fungal overgrowth.

Discussion: In patients with diabetes, one of the main-stem goals is to maintain a proper diet, lifestyle, and medications to avoid onset of lactic acidosis, also known as Non-ketotic diabetic acidosis. Lactic acidosis can be fatal and originates through inhibition of the Pyruvate Dehydrogenase Complex (PDH), a primary means of creating energy from glucose. Ethanol is an inhibitor of PDH. Biguinides such as Metformin, can also lead to lactic acidosis in a similar process. This patient with ABS was suffering from recurrent bouts of acute pancreatitis, and originally treated with conventional methods for ABS that were unsuccessful. An empiric method by the Infectious Disease team proved successful. We cannot rule out that his ABS could have been exacerbated by his diabetic medication. We know fermentation and Metformin use utilize similar pathways, and this alone could lead to break through studies in treatment options of ABS in patients with known comorbidities.

Elizabeth Vargas OMS3

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YOUR DOCTOR, THE NONCOMPLIANT PATIENT

Purpose:

To investigate the personal healthcare maintenance practices of internal medicine resident physicians.

Background:

Physicians regularly advise their patients on healthcare maintenance practices. However, studies attest to a multitude of barriers to patient adherence. Physician recommendations are given in the best interest of patient health and wellness. With a national increase in discussion of physician health and wellness, it comes to question if resident physicians personally carryout healthcare maintenance practices since physician burnout peaks during training years.; Studies indicate physicians with compromised health and or wellness are at increased risk of providing patients with substandard care. Physicians who personally practice healthy habits are more likely to be better preventionists. This study aims to elucidate whether resident physicians personally undergo routine healthcare maintenance practices.

Methods:

Internal medicine residents at two Brooklyn, NY hospitals were surveyed by paper or a digital link to a 15-question survey. The questions gathered participant demographics, habits regarding primary care practices and annual routine healthcare maintenance exams, and the reasoning behind not undergoing the exams, when applicable.

Results:

Overall, 47 responses were collected from residents ranging from post-graduate year-1 to 3 of training. & nbsp;Although 59.6% have a designated primary care provider (PCP), surprisingly most participants (53.6%) do not undergo an annual physical exam. This is due to 53.6% not having time for the visit, as well as 28.6% not having a designated PCP, 14.7% state the provider's hours do not fit their schedule, and 10.7% consider an annual physical exam unnecessary. Overall, three participants state they have a medical condition which requires frequent visits to a PCP or specialist. However, 100% further state they rarely attend the visits. Of the 17 female participants, a staggering 70.6% do not undergo an annual gynecologic exam. The majority of responses are either due to not having a women's healthcare provider (33.3%) or not having time (41.7%). There are 45 responses regarding dental cleaning and checkup, of which 55.6% of participants state they undergo one annually. Of those 20 responses which answered no, 19 further delineate this is mostly due to either not having a dentist (52.6%) or not having time (47.7%).

Conclusion:

Review of the data consistently divulges lack of time as a main reason for which internal medicine resident physicians are not undergoing routine healthcare maintenance practices. Further studies are imperative to determine if this finding is present across all medical departments and attending physicians. For both physician health and patient care, this implicates the need for a shift in the personal healthcare habits of physicians. Graduate medical education must take the first emergent step toward change by allowing residents to attend basic healthcare practices such as primary care, gynecologic, and dental visits/exams.

Carlton Watson

Jared Chen MD Satish Kadakia MD Chris Elsayad MD FACP Arturo Camacho MD PhD FAANS Nassau University Medical Center

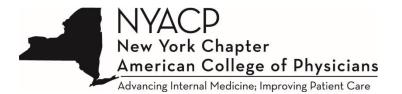
Outcomes and complications of endovascular mechanical thrombectomy in the treatment of posterior circulation occlusions: a systematic review.

Introduction: The utility of the newest techniques of stent retrievers and aspiration thrombectomy in the treatment for acute ischemic strokes (AIS) affecting the anterior circulation is well established. However, there is not much data on the utility of such techniques in treating posterior circulation occlusions. The 2018 American Heart Association/American Stroke Association release of the new guidelines for the management of anterior circulation occlusions makes it ever so important to analyze the data and determine the most effective management of the rarer occlusions affecting the posterior circulation. The aim of this systematic review was to analyze the recent literature regarding endovascular mechanical thrombectomy (EMT) for acute vertebro-basilar artery occlusions.

Methods: A literature review was performed to identify all studies of patients with acute posterior circulation occlusions who underwent EMT with stent retrievers, and/or aspiration that were published after January 1, 2015. Favorable outcomes were defined as modified Rankin Scale score 0-2. This indicated patients were either asymptomatic, or left with little to no disability while performing activities of daily living independently at 3-month follow-up. Successful reperfusion was defined as modified Thrombolysis In Cerebral Infarction (mTICI) score of 2b-3.

Results: Thirteen studies, comprising 588 EMT-treated patients with acute ischemic strokes affecting the posterior circulation, were included in this analysis. The median National Institute of Health Stroke Scale (NIHSS) from 10.5 to 34. Favorable outcomes at 3-month follow-up were observed in 43% of patients with posterior circulation occlusions who underwent EMT, with a mortality of 22%, which is higher in comparison to anterior circulation occlusions treated with endovascular mechanical thrombectomy. Successful reperfusion was achieved in 90% of cases.

Conclusions: A meta-analysis of the literature indicate there is great success with recanalization of posterior circulation occlusions with the use of mechanical thrombectomy resulting in close to a 50% favorable outcome. However, morbidity and disability rates leave open the need for more studies to determine the absolute benefit of posterior circulation thrombectomy using stent retrievers or direct aspiration.



New York Chapter ACP

Annual Scientific Meeting

Resident/Fellow Clinical Vignette

Zaid Al Jebaje, MD

John Elibol MD, Jonathan Peters, Ali AL-Amari MD Department of Medicine University at Buffalo-Catholic Health System, Buffalo, NY

A Rare Case of Spinal Gout Presenting in a Young Adult without Pain

Background:

Spinal gout is a relatively rare condition, with only 113 cases reported in the literature from 1950 to 2012. Yet with an observed doubling in the prevalence of gout in the US, this unlikely manifestation should be on the differential in patients with presumed spinal pathology. This case is especially interesting because unlike 75.8% of reported cases of spinal gout, this patient did not present with pain and a neurological deficit. Further, this 26 year-old patient fell well below the mean patient age of 60.3 years.

Case:

A 26 year-old male with a past medical history of gout and morbid obesity presented with a seven-day history of decreased sensation from the feet to the level of the nipples. He also noted incomplete voiding. Laboratory investigations showed an elevated serum uric acid level (10.4 mg/dL) as well as negative RPR and rheumatoid factor. MRI showed inflammatory changes on multiple spinal levels. Laminectomy was performed, with follow-up biopsy revealing multiple giant cells and monosodium urate (MSU) crystals. He was ultimately diagnosed with spinal gout. Patient's symptoms did not resolve immediately after surgery. Yet with the administration of IV glucocorticoids and a course of NSAIDs, he slowly regained sensation, leaving the hospital with complete resolution of symptoms. Discussion:

Gout is a deposition of MSU crystals in the bone, joint space, or skin, which presents with arthritic symptoms of pain and decreased range of motion. It generally manifests in the extremities, and can form tophi, which are simply collections of these crystals. Pain in the first metatarsal joint is often the initial symptom. Spinal gout is a much more rare type of gout, Yet a recent cross-sectional study showed CT changes consistent with axial gout in 35% of patients with chronic appendicular gout (n=48). It is thought to develop through a similar mechanism as peripheral gout, with the facet joint being the first site to develop MSU crystallization.

Conclusion:

-While gout is well known to affect the lower extremity joints, it can appear in unexpected places with unexpected symptoms. -A spinal MRI finding of multilevel inflammatory changes should trigger suspicion of spinal gout, especially in patients with a previous history or multiple risk factors.

-Spinal gout is a treatable manifestation of a chronic disease, best handled by a multidisciplinary team including both internists and surgeons.

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Hina Amin MBBS Hina Amin MBBS

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Stress cardiomyopathy in association with severe agitation in dementia

Introduction:

Takotsubo cardiomyopathy (CMP) is a reversible systolic dysfunction of the left ventricle (LV) that occurs in the absence of obstructive coronary artery disease or acute plaque change within the coronary vasculature. It has been postulated to result from catecholamine excess leading to transient coronary and/or microvascular spasm and myocardial stunning. Intense physical and emotional trauma, certain acute medical conditions, and acute neurologic states are common triggers of this syndrome in a susceptible population. However, stress CMP has been rarely reported in the absence of extraneous triggers in elderly patients with neurodegenerative disease undergoing an exacerbation.

Case report:

A 78-year-old female with a longstanding history of vascular dementia and no known CAD was brought to our hospital with worsening agitation and memory loss. She was also witnessed to have paranoid delusions and sleep disturbances characterized by difficulty falling and staying asleep. This subacute decline was not precipitated by any known specific emotional stressor or physical trauma. When she was brought to the hospital, the patient was alert, oriented, and verbal, however she was combative and agitated. Her initial set of labs were unremarkable. She was given haloperidol for sedation and later switched to Ziprasidone. On the second day of hospitalization, she became lethargic and disoriented while remaining hemodynamically stable, and otherwise free of cardiac and focal neurologic symptoms. Her EKG showed sinus tachycardia with a HR of 110/min, frequent PACs, diffuse T wave inversions in the anterolateral and inferior leads, isolated STE in V3, and poor R wave progression. Troponin T was elevated to 0.09 with CK/CKMB of 88/2.25. An echocardiogram was performed which showed LV ejection fraction around 20- 25% and regional wall motion abnormalities with apical ballooning. Chest x-ray showed moderate pulmonary edema. Cardiac catheterization was deferred in context of severe neurodegenerative disease and we initiated a diuretic for fluid overload later followed by a beta blocker in low dose. Serial EKGs demonstrated resolution of poor R wave progression and restoration of normal T wave morphology. Troponin T trended back to normal. Echocardiogram a week later showed improved LV ejection fraction to 50%. Chest x-ray demonstrated resolution of pulmonary edema. Patient improved clinically during this time. She continued to remain hemodynamically stable and was discharged after receiving treatment for comorbid conditions.

Discussion:

Stress CMP in patients with dementia suffering from agitation is a rare phenomenon. In the aforementioned case, we described the occurrence of this poorly understood syndrome in a postmenopausal female with dementia and agitation with psychotic features, in the absence of any emotional or physical triggers. Clinicians must be mindful of this association when catering to elderly population with dementia, as any acute decline can frequently be misinterpreted as worsening dementia.

Constitution Annhoad MAD	
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TUBE FEEDS IN, TUBE FEEDS OUT, A CASE OF	1. SUNY Downstate Medical Center, Brooklyn, NY
GASTROCOLOCUTANEOUS FISTULA	2. Kings County Hospital Center, Brooklyn, NY
	SUNY Downstate Medical Center
Learning Objectives:	A CASE OF OBSTRUCTIVE JAUNDICE HERALDING THE
1. Recognize the clinical presentation of	DIAGNOSIS OF NON-HODGKIN LYMPHOMA
gastrocolocutaneous fistula	Obstructive jaundice is usually a late manifestation in non-
2. Management of gastrocolocutaneous fistula	Hodgkin lymphoma (NHL) and is most commonly due to
Case:	extrahepatic biliary obstruction by the tumor. Less common
A 57 year-old ventilator and gastrostomy dependent male	causes include toxic hepatitis during treatment or direct hepatic
was noted during a prolonged hospital stay to have diarrhea	involvement. We present a patient with obstructive jaundice as
with the stools having the same color and consistency as his	the initial presentation of diffuse large b-cell lymphoma (DLBCL),
tube feeds. Stool studies including examination of stool	a rare finding that is associated with a high mortality. A 68-year-old African American man with vitiligo presented with
samples for WBCs and for ova and parasites were negative.	a 3-month history of weight loss with jaundice, pale stools and
Computed tomography (CT) abdomen with contrast	dark urine for 5 days. Review of systems otherwise negative and
revealed percutaneous gastrostomy tube passing through	denied medication use, smoking, alcohol use or a family history
the transverse colon with no evidence of connection to the	of cancer. Exam: icteric membranes and hepatomegaly. Labs:
stomach. A fistulogram confirmed the presence of the tube	total bilirubin of 27mg/dl, creatinine 1.87mg/dl, AST/ALT 95/130
in the colon. Feedings were held and a nasogastric tube was	U/L, ALP 496U/L & LDH 1070 U/L; HBsAg negative, HBsAb &
placed. The percutaneous endoscopic gastrostomy (PEG)	HBcAb positive, HBeAg & Ab negative, Hepatitis B virus (HBV)
tube had been present for an unknown period of time and	DNA negative, HepCAb negative. CT chest & abdomen showed a
details of the placement procedure were unavailable. During	11.9x9.8x10.9cm mass originating from the caudate lobe of the
surgery to remove the tube, it was found to be displaced into the colon with a fibrous tract connecting the stomach to	liver with mass effect on the inferior vena cava, intrahepatic biliary duct dilatation and retroperitoneal lymphadenopathy
the transverse colon. The tract between the stomach and	and pericardial lymphadenopathy, suspicious of metastatic
colon was divided and a new PEG tube was placed under	disease. Biopsy of the mass showed DLCBL, germinal-cell type,
direct vision. Feedings were resumed with resolution of	bcl2 and MYC negative. Bone marrow biopsy negative for
diarrhea.	lymphoma. Placement of a biliary stent did not relieve the
Discussion:	obstruction. He received debulking therapy with prednisone, 3
Gastrocolocutaneous fistula is a well described but rare	cycles of rituximab (R), gemcitabine and carboplatin. Tenofovir
complication of PEG tube placement with an incidence of	was added. His hospital course was complicated by renal failure
0.5%-3%. It occurs when a PEG tube penetrates the	requiring hemodialysis, tumor lysis syndrome and an upper
interposed colon between the abdominal wall and the	gastrointestinal bleed. Following stabilization, received 5 cycles of dose-adjusted R-CHOP (cyclophosphamide, doxorubicin,
stomach during the initial insertion with subsequent	vincristine and prednisone). The courses were complicated by
displacement of the tube into the colon due to traction or	recurrent C. difficile colitis and neutropenic fever. He declined
erosion over time. Patients typically present with diarrhea	prophylactic intrathecal chemotherapy. He has had resolution of
after tube feeds are started, with passage of undigested	jaundice but a decline in functional performance. Recent CT
feeds in stool and diarrhea stops on holding feeds. Common	showed only modest decrease in size of abdominal mass, 8.4 x
Etiologies of diarrhea in PEG tube patients like hyperosmolar	6.3cm to 7x 4.8cm. He continues to be monitored in the
feeding solution, infection, drugs and malabsorption must	hematology clinic.
be ruled out. For patients suspected to have PEG tube	DLBCL is the most common form of NHL, has a rapid rate of
displacement, endoscopy, CT abdomen and fistulogram can	growth and may present as B symptoms (fever, weight loss, night sweats) and/or obstructing or infiltrating masses.
reveal the tubes location. In most cases, the tube can be removed without surgery, and the residual tract to the skin	Obstructive jaundice related to NHL is a rare occurrence (1-2%
closes within several days. If a new feeding tube is required,	of cases) and the ideal treatment approach remains a challenge.
another can be placed surgically.	Whether the use of chemotherapy alone or biliary
Conclusion:	decompression prior to chemotherapy improves patient
Gastrocolocutaneous fistula is a rare but potentially fatal	outcome remains undetermined. The high associated mortality
complication of PEG tube placement, and can present with	associated may be related to age, elevated LDH, B symptoms
diarrhea containing tube feeds. A high index of suspicion can	and poor performance status at presentation. Another notable
help ensure prompt diagnosis and management.	contributor to poor outcome is HBV co-infection. This patient
	despite having resolved HBV infection is at risk for reactivation
	of HBV, with rates as high 70% following rituximab combined chemotherapy and a mortality rate close to 13% which further
	emphasizes the need to confirm viral status.

Resident/ Fellow Clinical Vignette

Γ	Gaurav Bhardwaj MD	Lilian Bizzocchi MD
	Gaurav Bhardwaj, MD; Nirmal Guragain, MD; Shahistha	Bhavin Chokshi MD, Belinda Jim MD, Beverly Johnson MD
	Hameed, MD; Marilou Corpuz, MD	Jacobi Hospital medical center
	Montefiore Medical Center, University Hospital for Albert	
	Einstein College of Medicine, Bronx, NY	Lupus Nephritis and APOL-1 risk alleles related Collapsing
	GBS IN THE YOUNG: THINK EBV	FSGS causing Macrophage Activation Syndrome
	Introduction:	Background:
	Guillain Barre Syndrome (GBS) is an acute immune mediated	Genetic risk factors for glomerulopathies have recently been
	polyneuropathy following an infection that cross-reacts with	identified. Hemophagocytic lympho-histiocytosis (HLH) is a fatal
	peripheral nerve components because of molecular mimicry.	syndrome of excessive immune activation. Secondary HLH is also
	Epstein - Barr virus (EBV) infection has a 95% seroprevalence in	called Macrophage Activation Syndrome. The main underlying
	adults globally. Complications are infrequent and only 0.37% to	causes of secondary HLH has been autoimmune diseases, infections
	7.3% may present with neurologic complications such as	and malignancies (1). Our patient presented with macrophage
	meningoencephalitis and very rarely as GBS. Case report:	activation syndrome with acute kidney injury and was discovered to
	A 31-year-old woman with hypothyroidism presented with slowly	have collapsing focal segmental glomerulosclerosis (FSGS) with lupus nephritis and lupus podocytopathy.
	progressive lower extremity weakness of one-week duration	
	associated with paresthesia and urinary retention. No preceding	Case presentation:
	symptoms of fever, sore throat or diarrhea. On examination she had	A 28-year-old African American woman, employed in a hospital
	decreased strength in the lower extremities bilaterally, with	linen department, presented with recurrent febrile illness,
	reduced proprioception and vibration sensation and absent patellar	unintentional weight loss, dyspnea on excretion, arthritis,
	and ankle reflexes. She was admitted for possible GBS. Laboratory	hyperpigmentation of the ears and discoid rash with alopecia.
	results showed leukocytosis of 13000/microL with atypical lymphocytes, C-reactive protein 25mg/dl, aspartate	On admission she was noted to have pancytopenia, elevated
	aminotransferase of 51 U/L and alanine aminotransferase of 91 U/L.	transaminases, hyperferritinemia and hypertriglyceridemia. Further investigation revealed elevated ESR/CRP and positive ANA/Anti-
	Serum antibody titers for Cytomegalovirus, Campylobacter,	Sm/Anti-Ro with low C3 and normal C4 complement levels. CT
	Hepatitis B and C were negative. She had a positive EBV viral capsid	imaging revealed hepatosplenomegaly and patchy ground glass
	antigen IgM antibody. Lumbar puncture showed protein of 39	opacities in the lungs. Infectious and malignancy evaluations were
	mg/dl, WBC of 1 micro/L and negative serology for West Nile Virus,	negative. A bone marrow biopsy showed normal tri-lineage
	Lyme disease, Varicella Zoster, and Herpes Simplex Virus.	hematopoiesis.
	Immunological disease workup was unremarkable. Electromyogram	While hospitalized, the patient developed acute kidney injury,
	and nerve conduction studies revealed axonal variant of GBS known	proteinuria, and a urinary sediment showed dysmorphic red blood
	as Acute Motor Axonal Neuropathy. Patient received 2 cycles of	cells but no casts. A renal biopsy showed collapsing FSGS with
	intravenous immunoglobulin with continued monitoring for respiratory and hemodynamic instability. She clinically improved	mesangial proliferative changes and immune deposits with 90% foot
	and was discharged to inpatient rehabilitation unit.	process effacement. A diagnosis of Lupus Nephritis Class II causing secondary HLH was made. Due to her African American ancestry, we
	Discussion:	tested her for the apolipoprotein L1 (APOL-1) risk alleles which
	Our young immunocompetent patient had symptoms of GBS with	returned positive for G1/G2 compound heterozygous. The patient
	no preceding signs of infection, but had atypical lymphocytes and	was then started on Prednisone and Mycophenolate Mofetil with
	positive EBV IgM antibody titer, with electrophysiological confirmed	rapid clinical recovery and acute kidney injury.
	diagnosis of GBS.	
	Epstein-Barr virus, also known as human herpesvirus 4, is a	Conclusions:
	lymphotropic virus of the herpes family. EBV infections may present	Our patient fulfilled the criteria for SLE diagnosis according to
	as infectious mononucleosis (IM) with fever, leucopenia, and	Systemic Lupus International Collaborating Clinics (SLICC) criteria.
	pharyngitis. Complications include pneumonia, meningitis and encephalitis. 2-10% of patients diagnosed with GBS were found to	Her clinical presentation also fulfilled HLH-2004 criteria of HLH. Collapsing FSGS and podocytopathy are now increasingly reported
	have EBV. Early treatment in GBS often requires the clinician to	with lupus nephritis (2, 3), but association with clinical diagnosis of
	recognize and make a diagnosis based on history and physical	Macrophage activation syndrome in a same patient has not yet
	examination prior to additional testing. The classic presentation of	been described. Although collapsing FSGS carries overall poor
	GBS is symmetric ascending motor weakness. Testing includes	prognosis, treatment of its main underlying etiology with
	lumbar puncture and nerve conduction studies. The	immunosuppression led to rapid and complete recovery.
	alactrophysiologic findings of GPS include slowing of nanyo	I

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Conclusion:

electrophysiologic findings of GBS include slowing of nerve

The mortality from GBS still remains high (3-5%) despite the

Prompt and early clinical diagnosis with close hemodynamic

monitoring remains the mainstay of treatment in GBS. EBV should

treatment options and advanced supportive care.

conduction velocity, prolongation of F-wave latency and temporal

dispersion. Supportive care is the cornerstone in the management

of GBS. Treatment modalities such as plasmapheresis and gamma

globulin are used to reduce the body's attack of the nervous system.

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An Itch You Shouldn't Scratch: Management of Intractable	MID-LEFT VENTRICULAR BALLOONING VARIANT
Pruritis.	TAKOTSUBO SYNDROME INDUCED BY TREADMILL EXERCIS STRESS TESTING
Case Presentation:	
A 64 year-old woman with cutaneous T-cell lymphoma that progressed to Sezary Syndrome was admitted to the palliative care unit with intractable pruritis. The patient was initially managed with oral antihistamines, paroxetine, and topical doxepin. Without adequate relief, mirtazapine and naltrexone were added. A skin biopsy showed interface dermatitis with significant epidermal	Introduction Stress-induced cardiomyopathy, also known as Takotsubo cardiomyopathy, is classically characterized by a stress-induced transient left ventricular apical systolic dysfunction. Different patterns of myocardial involvement and several triggering-events have been reported. We describe a case of treadmill exercise stress
necrosis and detachment, and topical steroids with surrounding wet wraps were added. With optimized therapy, the patient was made comfortable before progressing to septic shock, and eventually	testing triggered variant of Takotsubo cardiomyopathy with mid-left ventricular hypokinesis. Case Description
death.	A 77-year-old female with hypertension, hyperlipidemia, and
Discussion: Severe pruritis is both distressing and difficult to manage. There are multiple etiologies of pruritis and it is important to understand the mechanism in each case to provide optimal treatment. Pruriceptive itch results from the activation of peripheral nerve fibers by inflammatory neuropeptides (ex: bug bites, inflammatory	hypothyroidism was referred to a cardiologist's office for a treadmi exercise test for new onset palpitations. She denied any chest pain or dyspnea. She had quit smoking 36 years ago, and had no family history of early cardiovascular diseases. She underwent a cardiac work-up years ago, including a stress test and echocardiography, which the patient reports were unremarkable. Pre-test vital signs
processes). Neuropathic itch results from of the afferent nerve	showed a blood pressure of 140/78, heart rate of 80, and a
pathway (ex: varicella zoster). Neurogenic itch results from central	respiratory rate of 14. Physical exam was unremarkable except for
nervous system activation, usually the result of a systemic toxin (ex:	2/6 systolic ejection murmur at the base. Electrocardiogram (EKG)
uremia, opioids). And psychogenic itch can exacerbate organic itch	at baseline showed normal sinus rhythm with a normal axis and
or be the origin itself. In generalized pruritis, the primary mode of therapy is systemic.	occasional pre-ventricular contractions (PVCs).
Antihistamines are first-line, but benefit has only been proven in the	The patient underwent exercise stress testing using the Bruce protocol and completed 3 minutes and stage 1 at 1.7 miles per hou
setting of urticaria and allergy, and in other settings sedation may	with a 10% grade. The test was terminated due to dyspnea and
be the mechanism of relief. SSRIs, TCAs, and mirtazapine impact	fatigue without chest pain. She reached a maximum heart rate of
levels of serotonin and histamine, which act as inflammatory	141 beats per minute which was 98% of predicted. She
neuropeptides, and can be beneficial in pruritis associated with	accomplished 4.5 metabolic equivalents of exertion. With exercise
malignancy, chronic kidney disease, and cholestasis. Naltrexone blocks mu-opioid receptors and suppresses itch by peripheral nerve	she had occasional atrial premature complexes and PVCs. At 4
transmission. Trials have shown effectiveness in cholestasis, urticaria, and opioid-induced pruritis. However, care must be taken	minutes of recovery she began having ST elevations in leads II, III, aVF, and V6 with reciprocal ST depressions in V2-V4. She also started noticing chest tightness.
as it causes acute withdrawal in patients receiving opioids.	The patient was given sublingual nitroglycerin, nitroglycerine paste
Topical therapy for generalized pruritis is not practical in the outpatient setting, but can provide relief in severe inpatient cases.	325 milligrams of aspirin, and three doses of 5 milligrams intravenous metoprolol tartrate. Repeat EKG showed ST elevations
Corticosteroids can provide relief, although are not generally used	in leads I, II, aVL, V5, and V6 with ST depressions in III, aVF, and V1
for the total body surface area and chronically. In severe cases (as	V3. Lab data revealed a troponin-I of 11.17 nanograms per millilite
above), covering a topical steroid in a wet wrap can help absorption and increase efficacy. Calcineurin inhibitors and capsaicin deplete	(ng/ml). Coronary angiography was performed within 2 hours of symptom onset and showed non-obstructive coronary artery
local neuropeptides, resulting in an initial burning sensation	disease. Left ventriculogram revealed severe mid-cavitary
followed by analgesia. Lidocaine inhibits nerve transmission, but	hypokinesis with basal and apical hyperkinesis with a left ventricul
systemic absorption limits its use for generalized pruritis. And topical antihistamines are useful for histamine-caused local itch (ex:	ejection fraction (LVEF) of 20%. The patient was started on medical management with standard
urticaria).	therapy for heart failure. The patient remained asymptomatic
Regardless of etiology, proper skin care (cool environment, moisturizing, physical barriers, and avoidance of irritation) can provide relief and stress reduction can reduce the contribution of	during the course of her hospitalization. Troponins trended down from a peak of 16.06ng/ml. An echocardiogram was repeated during an autostication following the provided between the second se
psychogenic itch.	an outpatient follow-up two weeks later which showed resolution wall motion abnormalities and a LVEF of 45-50%.
Unfortunately, refractory pruritis can be difficult to manage even	Conclusion
with multi-modal treatment and early involvement of a palliative	Takotsubo cardiomyopathy is classically characterized by transient
care service can benefit the patient physically and emotionally.	left ventricular apical ballooning in the presence of normal or non-
Conclusion:	obstructive coronary artery disease. This case demonstrates a rare
This case highlights the challenges faced for management of intractable pruritis. It is important to consider the etiology to provide the most effective care.	variant of Takotsubo cardiomyopathy triggered by treadmill exercite testing that involved the mid-left ventricle.

provide the most effective care.

Resident/ Fellow Clinical Vignette

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Acute MI(myocardial infarction) from embolization of thrombus from atrial fibrillation	Mumps myocarditis! Long time no see
	Introduction:
between atrial fibrihiditon and foil. One study suggested that AP increases the risk of MI by 2-fold during a median follow up of 4.5 years. Xantus trial suggesting MI (Myocardial Infarction) incidence of about 0.4 %. MI rate is also influenced by sex, with females being at higher risk of MI compared to men as shown in the REGARDS trial. The group of patients, with AF, treated with antiplatelets, the rate of MI ranged from 0.43%/year in the SIFA study to 1.3%/year in the CHARISMA(7). RE-LY trial observed a 0.53%/year rate of MI in patients treated with NOACs(Non- vitamins K oral anticoagulants). The proposed mechanism by which AF can cause MI in AF includes pro-thrombotic changes, direct coronary thromboembolism and supply-demand mismatch. The treatment of these patients presents a complex challenge. This likely explains the reason for the frequent association of oral anticoagulants with aspirin in the AF population, as evidenced by the recent trials with NOACs in which 29% to 41% of patients included have been treated with such a combination. Another treatment modality is with statins as they have been shown to reduce risk of MI in primary and secondary prevention trial. Scores such as the 2MACE (Major Adverse Cardiovascular events) has been particularly identifying AF patients with high risk of cardiac events.	were positive and mumps RNA by RT-PCR was detected. Conservative, supportive care was initiated for mumps management. Transthoracic echocardiogram (TTE) revealed a normal left ventricle and right ventricle size, wall thickness and function. A repeat EKG on day 4 showed reversal of T wave inversions seen on admission. Based on the clinical presentation and the EKG findings, a diagnosis of mumps myocarditis was made. He remained stable with decrease in parotid and scrotal swelling. One month follow-up stress echocardiography revealed no signs of ischemia and the patient reported no further palpitations or chest pressure. Discussion: Despite the effectiveness of MMR vaccine, mumps and its complication still can happen. Mumps myocarditis has not been reported in the U.S for over 3 decades. This could be related to under detection and emphasizes the importance of screening patients with mumps for potential cardiac complications. Although the clinical presentation of viral myocarditis can be non-specific, ST-T wave changes on EKG may be the initial red flag for further work up including TTE to assess heart function. If dilated cardiomyopathy is proven then cardiac MRI and endo- myocardial biopsy may be indicated to confirm the diagnosis.

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Application of the HOSPITAL Score as an Early Identifier of	Immunoglobulin A vasculitis in an adult with acquired
Potentially Avoidable Readmissions	immune deficiency syndrome
In 2009, 19.6% of the 11,855,702 Medicare beneficiaries who had been discharged from a hospital were readmitted within 30 days. These readmissions were associated with an additional healthcare cost of 17 billion dollars. The Center for Medicare and Medicaid Services (CMS) implemented the Hospital Readmissions Reduction Program (HRRP) in an effort to improve patient outcomes and decrease readmission rates2. The HOSPITAL score was developed in Boston, Massachusetts and subsequently validated in several hospitals across Europe to identify patients with an increased risk of readmissions within 30 days. Thus, it has the potential to improve discharge planning in other communities, such as East Harlem, New York. Methods: Type of study: Quality improvement prospective study. All patients discharged from the medical service of H+H/Metropolitan from July 1st 2016 to December 31st, 2016 were included in the study. The information was logged into a database, stripped of identifiers, and stratified by Hospital score (High risk for readmission > 7). Illicit substance use, behavioral health diagnosis, and discharge disposition were included for analysis. Comparisons were analyzed with ?2 tests and submitted to a logistic regression to exclude confounders. The protocol was approved by the Biomedical Research Alliance of New York Institutional Review Board.	Introduction: Immunoglobulin A (IgA) vasculitis affects small vessels of the skin, joints, bowel and kidney. Approximately 90% of cases occur in children. It is uncommon in adults and rare in patients with human immunodeficiency virus (HIV) infections. Case Presentation: A 36 year old healthy male presented with severe abdominal pain, intermittent bloody diarrhea, diffuse joint pain, and a petechial rash in the lower extremities. He had no fever, weight changes, emesis, or sick contacts, but had high risk sexual behavior. On admission, he tested positive for HIV-1; viral load was 225,123cpy/mL with a CD4 count of 158cells/uL. Serum VDRL was also positive. Hepatitis B and C serologies and gastrointestinal panel polymerase chain reaction were negative. Esophagogastroduodenoscopy showed inflamed gastric and small intestinal mucosa with biopsy negative for cytomegalovirus. He had symptomatic relief with a proton pump inhibitor and loperamide. One week later, the lower extremity rash evolved into ecchymoses and skin necrosis. Eythrocyte sedimentation rate and C- reactive protein were elevated, 45mm & 5.19mg/dL respectively, but there was no leukocytosis, and platelets and coagulation factors were normal. Serologies,
Results: A total of 1148 patients were enrolled. Of these, 115 patients were readmitted, some more than once. The average number of admissions in the prior years was 3.0 for the readmitted patients and 1.0 for the non-readmitted group. The most frequent HOSPITAL score for readmitted patients was calculated at 5, and for patients that were not readmitted 3. At the moment of discharge, 46% of patients were stratified to the high risk group; only 6% of readmitted patients had a HOSPITAL	including antinuclear antibody, anti- double stranded DNA, myeloperoxidase antibody (Ab), protease 3 Ab, rheumatoid factor, and complement levels were all normal. Skin biopsy and immunofluorescence revealed IgA- associated severe necrotizing leukocytoclastic vasculitis with subcutaneous extension. Dapsone, prednisone and pentoxifylline improved his rash. Discussion:
score less than 7. (p < 0.001). The use of a single illicit substance was associated to an increased risk of readmission (p < 0.05). Patients with a behavioral health diagnosis were more likely to be readmitted (61% vs. 42%, p < 0.001). Patients that had a dual diagnosis represented 38% of the readmitted group in contrast to 21% in the non-readmitted group (p < 0.001). The status of discharge to a location other than home had a significantly higher risk of readmission (p < 0.001). Conclusions:	This patient's initial presentation was considered to be an acute retroviral syndrome, which has overlapping symptoms with many other conditions. However, his new diagnosis of acquired immune deficiency syndrome (AIDS) predisposed him to less common opportunistic infections, and even vasculitis. Vasculitis in AIDS patients may be due to direct vessel damage, a dysregulated immune response or associated with specific opportunistic infections. Clinical diagnosis of IgA vasculitis was suspected due to the gastrointestinal symptoms, joint pain, and purpuric rash, and
In a population of limited resources in an urban setting, the greatest strength of the HOSPITAL score like in identification of patients who are at a low risk for readmission, rather than those at high risk. Substance abuse, behavioral health diagnosis, dual diagnosis and discharge disposition were ound to be independent predictors for readmission in these patients.	confirmed by biopsy. Adult IgA vasculitis is usually severe, with 30% having renal impairment, which was not present in our patient, and is rarely described in HIV disease. Conclusion: While IgA vasculitis in adults is rare, especially among the HIV population, this case illustrates the importance of physicians considering this diagnosis if the clinical picture

fits.

physicians considering this diagnosis if the clinical picture

Resident / Fellow Clinical Vignette

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Severe West Nile Virus Meningitis, an Unexpected	
Diagnosis	Incidental Finding of a Protruding Pleomorphic Sarcoma of
	the Superior Vena Cava Extending into the Right Atrium
We describe a case of a young adult male patient with no	
known immunocompromised state, diagnosed with West	INTRODUCTION
Nile Meningitis. The patient was treated in our health center	Primary cardiac tumors are rare, with an incidence of 0.0017 to
had experienced a severe meningitis, remarkably without	0.019% and out of these sarcomas comprises about 10 to 20%.
significant neuroinvasive sequelae.	Undifferentiated pleomorphic sarcomas are very rare and are
A 30 year old male with no significant medical history,	known to occupy mainly the left atrium. We are presenting an
presented to emergency department with complaints of	extremely rare case of an incidentally found pleomorphic
severe headache, subjective fever, neck pain, nausea and	sarcoma of the SVC extending into the right atrium.
vomiting for past 3 days. His social history was significant for	CASE A 68-year-old male with CKD, hypertension and COPD presente
alcohol use, cocaine use, immigrated from Dominican	to the ED with complaints of shortness of breath that began
Republic 8 years ago. He has a history of multiple insect	earlier that morning. He was noted to be lethargic in the ED,
bites, exposure to parrots and dogs. Initial vital signs;	had 3 episodes of generalized tonic-clonic seizures each lasting
temperature- 102.7, heart rate- 108 and normotensive.	<45 seconds, and was emergently intubated for airway
Physical examination revealed, febrile pt with mild cervical	protection in the setting of altered mental status. His physical
spine tenderness, with benign remainder of exam. Initial	examination was significant for a blood pressure of 91/56
labs showed normal WBC, normal platelets, mild	mmHg, heart rate of 104, clear lungs on auscultation, and
hyponatremia 128 and normal renal function. Chest x-ray	maroon-colored stool in the rectal vault. Initial laboratory tests
and CT head was unremarkable. Initial lumbar puncture was	revealed a hemoglobin of 3.2, leukocytosis, and lactic acidosis.
traumatic with many RBC and elevated protein. A repeat	Bedside endoscopy showed no active upper gastrointestinal
Lumbar puncture was performed showing elevated WBC of	bleeding but an arteriovenous malformation in the duodenal
26 with 53% neutrophils, normal protein and glucose	bulb was found and clipped. A transthoracic echocardiogram
concentrations. The patient was started on vancomycin,	revealed a large, pedunculated, mobile mass in the atrial cavity
ceftriaxone and doxycycline for presumed bacterial	that extended across the tricuspid valve into the right ventricle suspected to be a thrombus in transit. Subsequent
meningitis. On day 3 of the hospitalization, fever trended up	transesophageal echocardiogram confirmed it as a definite,
to 105, with severe photophobia, neck pain and headache,	large, highly mobile mass measure 15mm X 10mm in the
despite being on antibiotics. Acyclovir was added to regimen	superior right atrial cavity. He was started on a heparin drip and
and further imaging of spine to rule out possible abscess was	was taken to the OR for percutaneous removal of the thrombus
ordered. CT of entire spine was performed, without any	in transit. The suspected thrombus involved the SVC and the
abnormalities. Additionally, urinalysis, cultures from serum	right atrium and appeared to be chronic and very hard in
and CSF, cryptococcal antigen, syphilis antigen were all	texture. It was partially extracted via an aspiration
negative. By day 7 of hospitalization the patient had been	thrombectomy device and appeared to be a tumor. The
afebrile for more than 48hrs, with only complaint of severe	procedure was terminated since the patient worsened
neck pain. Antibiotics were discontinued, acyclovir was	hemodynamically requiring pressor support. Preliminary
continued for possible herpes encephalitis and doxycycline	pathology suggested a high-grade spindle cell neoplasm. The
was continued for possible tick borne diseases while	final pathology was a pleomorphic sarcoma with necrosis and
awaiting results of viral encephalitis panel sent to NYS DOH.	superimposed thrombus. Two days later, he developed
By day 12 of hospitalization, he was completely	pulseless ventricular tachycardia and pulseless electrical activit
asymptomatic and was discharged. One week post	after defibrillation. He expired shortly thereafter.
discharge, NYS DOH results returned, CSF was reactive for	DISCUSSION
WNV- IgM. Pt was informed about the result and was	The diagnosis of cardiac sarcomas is often missed due to its
asymptomatic.	rarity and the nonspecific signs and symptoms. They have a

Our case is unusual in symptomatology, presenting as severe meningitis, initially thought to be bacterial, but after results and literature review, concurs with CSF neutrophil predominance (found in 40% of WNV cases) and aseptic cultures. More rapid diagnostic tests for WNV would help in earlier diagnose the disease and reduce unnecessary use of precious medical supplies. Our focus should primarily be on prevention of infection through effective mosquito control. Currently, there are no approved human vaccines for WNV and more randomized controlled trials are needed. The diagnosis of cardiac sarcomas is often missed due to its rarity and the nonspecific signs and symptoms. They have a poor prognosis since they are usually at an advanced stage at the time of diagnosis. Mean survival for most cardiac sarcoma is 9-11 months. There are approximately 90 cases of primary cardiac pleomorphic sarcoma in the literature and majority of them involve the left atrium. Due to its rarity, there are only a few case reports available about its localization in other portions of the heart. To the best of our knowledge, no other cases of pleomorphic sarcoma involving both superior vena cava and right atrium have been reported in the literature.

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Primary Amyloidosis of the Gastrointestinal Tract -	PANCREATICO-HEPATIC ABSCESS COMPLICATED WITH
Challenging Presentation of a Rare Diagnosis	ACUTE NON-PURULENT CARDIAC TAMPONADE
Introduction	Introduction: Chronic pancreatitis has been associated with multiple
Amyloidosis of the gastrointestinal tract (GIT) without clinical	complications both systemically and locally, rarely development
involvement of other organs is extremely rare. We report a	of fistulae that tract to colon have been seen. It is a significant
unique case of primary (AL) Amyloidosis presenting with severe	risk factor for development of pyogenic liver abscess which can
GI bleeding and ultimately leading to patient demise in a short	rupture into cavities including peritoneal, pleural and less
period of time.	commonly pericardial cavity. We present a case of acute non-
	purulent cardiac tamponade in a patient with pyogenic
Case description	pancreatic and liver abscess.
A 68-year-old female with history of type 2 diabetes mellitus	Case:
and coronary artery disease presented with a 5-month history of diffuse abdominal pain, nausea, vomiting, and gradual weight	50 year old man with history of chronic pancreatitis was admitted with septic shock. On CT scan, a pancreatic abscess
loss of about 40 lbs. Serum and urine protein electrophoresis	with fistulous track from colon to pancreatic tail was found with
showed elevated monoclonal protein, IgG lambda type. Serum	hepatic abscess that required percutaneous drains and
free lambda chains were also elevated. Both bone marrow and	antibiotics. Colonoscopy and biopsies were negative for
abdominal fat pad biopsies were negative for amyloid	inflammatory bowel disease or GI malignancy suggesting
deposition. She underwent upper and lower endoscopy showing	pancreatitis as a cause of fistula. Hospital course was
ulcerative gastro-duodenitis with partial gastric outlet	complicated by acute pericardial effusion, bilateral empyema,
obstruction and hemorrhagic colitis. Biopsies from stomach and	portal and splenic vein thrombosis. Patient reported breathing
duodenum showed amyloid deposition. No other major organ systems seemed to be involved. Partial obstruction was	discomfort and chest fullness with significant physical exam for jugular venous distention, soft heart sounds, tachycardia and
managed with nasogastric tube placement and supportive care.	hypotension. EKG showed sinus tachycardia with low voltage.
Within a few days, she developed severe hematemesis. Repeat	Transthoracic echocardiogram showed hyperdynamic left
upper endoscopy showed several mucosal bleeding spots in	ventricle and diastolic compression of the right atrium and right
stomach with evolving submucosal hematomas. The mucosa	ventricle with pericardial effusion. It required pericardiocentesis
was extremely friable and bled on minimal contact. Bleeding	of 1.2 L haemorrhagic fluid without purulent component.
was eventually controlled with epinephrine injection and argon	Cytology mainly showed RBC's (765000/cumm) with few
plasma coagulation. She was started on total parenteral	mesothelial cells and negative for malignant cells. Relatively low
nutrition as gastrostomy or jejunostomy were ruled out given widespread GI involvement with amyloidosis and risk of severe	neutrophils (around 6000/cumm) with glucose level of 85 in fluid study are inconsistent with purulent pericarditis with no
bleeding. During the course of next few weeks, she continued to	organisms identified on gram stain, culture or on AFB stain.
have issues with GI bleeding requiring frequent blood	Antinuclear antibody, anti-double stranded DNA antibody,
transfusions. Input was sought from Hematology as well as	rheumatoid factor were negative with non-significant level of
Rheumatology and she was started on cyclophosphamide,	adenosine deaminase and negative quantiferon TB gold test.
bortezomib, and dexamethasone (CyBorD). Unfortunately, 2	After a prolonged hospital course and multiple complications,
weeks later she passed away from acute myocardial infarction	patient was discharged with resolution of pericardial effusion
in the face of worsening anemia and the need to withhold anti-	and abscesses. Discussion:
platelets.	Cardiac tamponade associated with pyogenic liver abscess has a
Discussion	high mortality rate of 60-90%. Most of the cardiac complications
Amyloidosis is usually considered a multi-organ disease. This is a	are related to rupture of liver abscess or fistulous tract between
rare presentation of Primary Amyloidosis limited to GIT with	liver and pericardium but here it developed without any of
negative bone marrow and abdominal fat pad biopsies for	these. From the hospital course, investigations and
amyloid deposition. Amyloidosis of GIT should be considered in	microbiological analysis, we hypothesize that the pancreatic
patients with multiple GI complaints which can not be explained	abscess resulted from a colon fistula, which later seeded to the
by more common causes, even in the absence of other organ	left lobe of the liver via portal circulation. Interestingly, the

cases.

acute development of cardiac tamponade could be idiopathic or

pericardium from liver abscess and empyema. Common causes

percutaneous interventional procedures, post MI, trauma, some

infections such as TB, autoimmune diseases and near 10% cases

secondary to local inflammatory reaction to the adjacent

are idiopathic. Less invasive drainage options with use of diagnostic studies have improved the mortality in locally and systemically complicated pyogenic pancreatic and liver abscess

of haemorrhagic pericardial effusion are malignancy,

bleeding is debatable.

system involvement. GI bleeding from amyloidosis is rare but

can be extremely challenging and even be potentially fatal in the absence of amyloid-targeted therapy. Nasogastric tube

placement and endoscopy in such patients can precipitate bleeding. The role of myelosuppressive chemotherapy in the

absence of bone marrow involvement and in the presence of GI

Resident/ Fellow Clinical Vignette

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Muscle Cramps in Multiple Myeloma- Paraneoplastic	MOYAMOYA: SYNDROME OR DISEASE
Sweet's Syndrome masquerading as Necrotizing Fascitiiis	
Introduction Sweet's syndrome (SS) is a paraneoplastic syndrome characterized by fever, multiple painful erythematous plaques, neutrophilia and a dense dermal neutrophilic infiltration. It is known to have an association with hematologic malignancies such as Acute Myelogenous Leukemia and Myelodysplastic disorders. We report an interesting and rare case of relapsing IgG Multiple Myeloma (MM), where paraneoplastic SS masquerading as necrotizing	Moyamoya syndrome is a cerebral vasculopathy characterized by progressive stenosis of the intracranial internal carotid arteries and their proximal branches due to an idiopathic process or secondary causes. Here we will discuss a case of young woman who presented with signs and symptoms of cerebrovascular accident (CVA) and was found having moyamoya vasculopathy in the settings of several risk factors and concomitant processes predisposing to vascular pathology.
fasciitis.	Case:
Case Report The patient was a 57 year old male with IgG lambda MM without remission after autologous HSCT. One month after transplantation, he developed erythematous right flank swelling, high fever, fatigue and anorexia. CT scan revealed inflammatory stranding of right medial gluteal musculature which was managed with IV antibiotics. IgG levels were elevated and maintenance treatment with bortezomib and dexamethasone was initiated. However four cycles later, he developed recurrent diffuse erythematous firm swelling, with pain over right thigh. MRI showed large soft tissue defect along anterior proximal right thigh notable for enhancement along superficial fascial planes and deep musculature suggestive of myofascitis. MM showed progression with IgG at 1544mg/dL. Muscle biopsy at that time showed necrotizing myofascitis. He was given treatment break of 2 months and administered antibiotics. His fasciitis resolved and bortezomib was reinitiated secondary to IgG of 2990 mg/dL. However, after 3 cycles, he presented again with a suprapubic indurated tender mass with inflammatory extension to the left medial thigh, night sweats and high fevers. ESR and CRP were elevated with low C4 levels. He underwent surgical debridement and pathology was remarkable for focal histiocytic	A 39-year-old woman presented with altered mental status, right sided facial droop, right arm and leg weakness. Her medical history was significant for ischemic CVA with residual left-sided weakness, poorly controlled diabetes mellitus type 1 complicated by neuropathy, bipolar disorder type 1, essential hypertension, hyperlipidemia, and sickle cell trait. She was an active smoker and cocaine user. Magnetic resonance imaging (MRI) revealed acute infarcts involving bilateral frontal lobes, left insular cortex, left frontal and parietal lobes, left centrum semiovale, left corona radiata, and left basal ganglia. Magnetic resonance angiogram (MRA) revealed no visualization of internal carotid arteries beyond the petrous segment, likely secondary to severe stenosis or occlusion, which was consistent with moyamoya vasculopathy. Further diagnostic studies were significant for homozygous mutation of MTHFR C677T gene with normal homocystine level and two monoclonal proteins in beta region on serum protein electrophoresis (SPEP). Diagnostic cervicocerebral angiogram was performed to evaluate patient for potential neurosurgical intervention. It was decided not to proceed with revascularization procedure (encephaloduroarteriosynangiosis) and patient was managed conservatively.
areas with dense neutrophilic infiltrates. He was started on tapering	Discussion
regimen of high dose prednisone and bortezomib was withheld leading to excellent response consistent with diagnosis of paraneoplastic SS. Discussion	Discussion: CVA in a young patient is uncommon and warrants extensive evaluation due to multiple potential etiologies. In this case, patient had altered arterial anatomy on MRA, which likely resulted in
SS is a type of acute neutrophilic dermatoses characterized by heavy dermal infiltrate of neutrophils and variable leukocytoclasis. It lacks cytogenetic specificity and may be secondary to elevated levels of endogenously produced granulocyte colony stimulating factor leading to increased recruitment of neutrophils explaining the fever and skin changes. Immunoglobulin secretory status of MM may play	obstruction and focal ischemic damage. However, the etiology of these changes remains unknown as multiple factors may have contributed, including genetic predisposition (homozygous MTHFR C677T mutation, sickle cell trait), acquired pathology (monoclonal gammopathy, likely atherosclerosis as a result of diabetes, hypertension and hyperlipidemia) and lifestyle (smoking, active

a role with prior case reports including ours demonstrating occurrence predominantly in IgG MM. Various drugs have also been implicated in its causation. Though clinical findings mimic autoimmune dermatological conditions like erythema nodusum, erythema multiforme and pyoderma gangrenous, our patient presented atypically with features of cellulitis and necrotizing fasciitis which were concerning given his immunocompromised status.

Conclusion

Salient features in our case included fever, anatomical and chronological multiplicities, antibiotic unresponsiveness, and aggravation after debridement with no proof of infectious disease made complex by an atypical presentation. Paraneoplastic syndromes in MM are rare and physicians should be aware of this complex entity for successful multidisciplinary management, and especially be able to explore alternative treatment regimens in MM.

single etiology. Learning objective:

CVA in young patient should include broad differential diagnosis and extensive work up in attempt to identify and address most likely etiology to develop effective secondary prevention strategy. Moyamoya vasculopathy is uncommon cause of CVA and may represent a primary disease or a net result of other pathophysiologic processes.

conditions patient was not tested for moyamoya specific genetic

follow up. Therefore, it remains unclear whether this patient would

mutations and primary disease was not excluded as she lost to

antiplatelet and lipid lowering therapy along with addressing of

modifiable risk factors (in case the disease was a result of their

combined effect) or from further work up and identification of a

benefit from standard secondary prevention strategy with

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Brain Under PRESsure: A Case of Posterior Reversible	Jesmajian MD
Encephalopathy Syndrome (PRES)	Montefiore New Rochelle Hospital
Posterior Reversible Encephalopathy Syndrome is characterized by a headache, seizures, encephalopathy, and/or visual disturbance due to vasogenic edema, caused by disruption of blood-brain barrier	TB-IRIS IN A HIV-NEGATIVE PATIENT PRESENTING AS SMALL BOWEL OBSTRUCTION
secondary to disordered cerebral autoregulation and endothelial dysfunction. Early recognition and management decisions are important to prevent long term neurological disability.	Introduction: Tuberculosis-associated immune reconstitution inflammatory syndrome (TB-IRIS) is associated with paradoxical worsening, recurrence, or development of TB lesions while on optimal
Case:	antituberculosis therapy (ATT). The frequency of TB-IRIS is
A 22 year-old man presented with sudden onset of blurry vision, right arm twitching, and severe headache from dialysis unit. He had systemic lupus erythematosus (SLE) with rapidly progressive class 4 and 5 lupus nephritis, which resulted in end-stage renal disease (ESRD) requiring hemodialysis and resistant hypertension. Patient was recently diagnosed with above and had been treated with oral	reportedly between 2% and 23% in HIV-uninfected patients. Risk factors for a paradoxical response include disseminated TB, young age, male gender, anemia, and lymphopenia. We present a case of TB with generalized lymphadenitis presenting with small bowel obstruction (SBO) after initiation of ATT.
steroids and monthly cyclophosphamide. His blood pressure was 240/140 mmHg on presentation, and he reported that he took his blood pressure medications that morning. He had no focal neurologic symptoms and was planned for admission to telemetry unit. However, during transportation to the floor, he developed generalized tonic-clonic seizures. Emergent computer tomography (CT) of the head revealed findings consistent with PRES. He was treated with nicardipine drip and anticonvulsants and was admitted to intensive care unit (ICU). His blood pressure was difficult to control and fluctuated significantly over the next 5 days, but he remained asymptomatic and eventually recovered.	Case Presentation: A 24-year-old HIV-negative male who emigrated from Guatemala six years ago initially presented with three weeks of painful left neck mass without constitutional symptoms. Examination revealed a large matted lymph node (LN) in the left neck and multiple small nontender LN in the right neck, left axilla, and left upper abdomen. CT scan revealed left cervical necrotic adenopathy, numerous bilateral necrotic cervical LN in the supraclavicular space, and extensive abdominopelvic lymphadenopathy. Mycobacterium tuberculosis (MTB) was isolated from cervical LN aspirate and subsequently confirmed by polymerase chain reaction (PCR) assay
Discussion	of sputum. Additionally, the patient had iron deficiency anemia,
Discussion: Acute elevation of blood pressure is a common reason to seek	lymphopenia, and monocytosis. He was started on rifampin,
medical attention. Early recognition of signs of end-organ damage is	isoniazid, ethambutol, and pyrazinamide (RIPE) therapy and
important for appropriate therapeutic decisions and triage.	discharged home without adverse reactions.
Important for appropriate therapeutic decisions and triage. Interestingly, moderate-to-severe hypertension is seen only in 70- 75% of patients presenting with features of PRES, while others remain relatively normotensive. In this case, our patient had	After 10 days on therapy, the patient presented with abdominal pain, nausea, and watery diarrhea. Vital signs were stable and examination was notable for diffusely tender abdomen and absent
significant fluctuations of blood pressure while in monitoring setting, which likely represented autonomic dysregulation. He also had many known risk factors for PRES, including autoimmune condition (SLE is most commonly associated), renal disease, and	bowel sounds. CT showed small bowel obstruction with severe nonspecific enteritis, moderate ascites, and diffuse intra-abdominal edema. The patient was placed on bowel rest and nasogastric suctioning. RIPE therapy was withheld. He was empirically treated
immunosuppressive therapy (cyclophosphamide was reported in several cases of PRES, but cyclosporine is most commonly reported). The combination of risk factors likely led to development of two	with ertapenem, with subsequent addition of IV rifampin and levofloxacin. His symptoms improved as SBO resolved on subsequent abdominal radiographs. RIPE therapy was resumed and
cardinal mechanisms of PRES - loss of vascular self-regulation and endothelial dysfunction with resultant cerebral ischemia and vasogenic edema.	patient was eventually discharged home. Discussion:
Patients with suspected PRES require emergent neuroimaging (CT or	While there is a consensus definition HIV-associated IRIS, such
MRI), prompt initiation of therapeutic interventions (antihypertensive medications in form of drip, anticonvulsants as needed), and disposition to ICU for monitoring.	diagnostic criteria do not exist yet for IRIS in HIV-negative patients. This may be due to a lower incidence of IRIS among HIV-uninfected TB patients (7-10% versus 28-36%) and a less well understood
Learning objectives: Features of PRES (headache, seizures and visual disturbance) should be recognized early in patients who present with hypertension.	pathogenesis in this subgroup. IRIS in HIV-negative patients usually involves the lymph nodes (68%) and lung (16%). While thoracic manifestations have been documented, SBO is infrequently
Risk factors for PRES include presence of autoimmune disease, hypertension, renal disease and treatment with immunosuppressive agents.	reported in the literature as a clinical presentation of TB-IRIS. Despite recent strides in understanding TB-IRIS, its occurrence and
Appropriate triage and therapeutic decisions should be made in timely manner.	mechanism are yet to be fully understood. It continues to be a significant clinical complication requiring collaborative management in patients on ATT. Lastly, clinicians should consider TB-IRIS in patients on ATT presenting with paradoxical worsening symptoms and clinical findings regardless of their HIV status.

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Occam's Razor vs Hickam's Dictum: A Case of a Singular	POSTPARTUM SPONTANEOUS CORONARY ARTERY DISSECTION
"Syndromic" Diagnosis Explained by Dual Simultaneous	IN A HEALTHY FEMALE
Malignancies	
	Background
Introduction:	Spontaneous coronary artery dissection (SCAD) is a rare, but
Scientific thought process has traditionally taught us to follow	potentially fatal condition, occurring more frequently in the
the principal of Occam's Razor, to gather all information,	post-partum setting. Although a coronary angiogram may seem
identify and then treat the most probable etiology in a patient's	like the right solution, it can lead to significant complications.
clinical presentation. However, the principal of Hickam's Dictum	Methods and Results
reminds us that a patient "can have has many diagnoses as he	A healthy 36 year old female without significant past medical
darn well pleases." We present a case which highlights the	history had an uncomplicated cesarean section delivery on
importance of keeping both these principals in mind.	4/27/17. Nine days postpartum, she presented with chest pain.
Case Presentation:	EKG showed inverted T waves in precordial leads and 1 mm ST-
A 64-year-old multiparous (G5P5) female, with pertinent history	segment depression in anterolateral leads. Transthoracic
of schizophrenia, presented to the emergency department of an	echocardiography showed ejection fraction of 55 % to 60 %.
urban hospital with weakness and multiple episodes of diarrhea	There was mild hypokinesis of the distal inferoseptal wall and
accompanied by foul smelling urinary incontinence over the	distal inferior wall. There was a peak troponin I of 24.5 ng/ml,
past 4 days. Physical exam revealed a tachycardic, hypotensive	peak CK-MB of 69 ng/ml, CRP of 66.5 mg/L and a normal ESR.
patient with abdominal tenderness to palpation in the	She was managed conservatively for 2 days with the suspected
epigastrium and right lower quadrant. Urine was brown and	diagnosis of postpartum myocarditis.
turbid when a catheter was placed. Labs showed significant	She was subsequently readmitted with an anterolateral STEMI
leukocytosis with left shift, severe anemia, and mildly elevated	on 5/14/17, approximately 2 weeks later, and this time
troponin. EKG showed sinus tachycardia. The patient was	underwent emergency left heart catheterization. She was found
admitted for urosepsis, started on IV antibiotics and then	to have spontaneous coronary artery dissections (SCAD) of the
responded well to a fluid challenge.	LAD and first diagonal with TIMI 0 flow in distal LAD and
Due to the abdominal pain, CT of the abdomen and pelvis were	diagonal branch. After stent deployment in proximal and mid
done, revealing severe right renal perinephric stranding and	LAD, there was a perforation in mid LAD requiring prolonged
hydronephrosis. Distally, hydroureter was noted with an abrupt	balloon inflations and placement of covered stents. There was
fluid cutoff just proximal to the urterovesicular junction with	TIMI 0 flow in LAD at end of procedure and normal flow in
space occupied by poorly defined nodular soft tissue.	diagonal branch with non-flow limiting residual dissection in
Malignancy was suspected, with both urologic and gynecologic	distal vessel. Peak CK-MB was 360 ng/ml.
possibilities.	Two weeks following the first catheterization, she returned for
Multiple indices of malignancy were noted. Malignant urothelial	elective reevaluation of her coronary anatomy. There was 100%
cells were identified in urine cytology. PAP smear was	mid-LAD occlusion without collaterals, proximal to the first
remarkable for squamous cell carcinoma. Transurethral	covered stent. PCI was unsuccessful in restoring normal flow. Her ejection fraction declined from 60% to 35%. In addition to
cystoscopy with biopsy confirmed the presence of both invasive	optimal medical therapy, she was counseled on cessation of
squamous cell carcinoma and invasive papillary urothelial	breastfeeding and avoidance of future pregnancies. At the one
carcinoma.	month visit, she was in Functional Capacity class I and compliant
Given the identification of dual invasive cancers, and in	with medication regimen. Repeat echocardiography at 6 weeks
accordance with the principles of autonomy, beneficence, and	after MI revealed EF of 25%. ICD placement was planned.
nonmaleficence, shared decision making with the patient and	Conclusion
her family resulted in a plan to not pursue invasive therapy, and	SCAD may be caused hormone-induced vasculopathy and
instead accommodate non-invasive management of her symptoms to assure adequate comfort.	hemodynamic changes during pregnancy, use of lactation
Discussion:	suppressants such as bromocriptine, and presence of
In this case, the signs, symptoms, and initial ancillary studies of	antiphospholipid antibodies. The preferred treatment is
our patient presented us with a singular syndromic diagnosis,	conservative, but percutaneous revascularization may be
narrowed down by Occam's razor, of urosepsis, Tissue	necessary when acute coronary ischemia is present. PCI has
pathology raised the question of the primary cause by	been associated with higher than 50% mortality, however 85%
identifying separate coexisting invasive malignancies; i.e.	survival rate with those that survive the acute phase. Therefore
Hickam's Dictum. This case illustrates that a thorough	when SCAD is suspected it may be crucial to immediately take
appreciation of the principals of both Occam's razor and	the patient for angiography however the risks and benefits must
Hickam's Dictum must always be kept in mind in order to	be weighed because the procedure itself can have severe
adequately address our patients' illnesses, however singular or	complications. The lack of coronary atherosclerosis and the
plural they may be.	vascular wall pathology predispose to peri-procedural
	complications, as seen in this case.

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COLONOSCOPY INDUCED SPLENIC INJURY	
	Acute Heart Failure and Hospitalization Can be Precipitated
Colon cancer is the second most prevalent cancer in the US.	by Influenza: A Preventable Cause
Colonoscopy is the most commonly used modality for colon	
cancer screening. The rate of complications is relatively low,	Introduction:
with hemorrhage and perforation being the most common.	Hospitalizations (and readmissions) for heart failure (HF) are heavily
Less frequent complications such as splenic injury are rare	scrutinized by payers for care as preventable events. Presented is an older adult who was hospitalized for acute HF following influenza A
and result in delayed diagnosis.	illness.
68 year old female with history of HTN, COPD, and	Case:
hypothyroidism presented to the emergency room with	An 88 year-old woman presented with dyspnea and cough for one
complaint of abdominal pain after undergoing a screening	week. Her medical history was notable for B-cell chronic
colonoscopy earlier that day. The procedure was performed	lymphocytic leukemia, currently on Ibrutinib and systolic HF
without complications. While at home, she developed sharp,	[baseline ejection fraction (EF) of 25%]. She was adherent to medications and diet. Examination revealed bibasilar crackles. She
pressure-like, non-radiating, pleuritic LUQ pain that was	tested positive for Influenza A; X ray revealed vascular congestion
4/10 in severity. She denied falls or sustaining abdominal trauma in the recent past.	and possible superimposed pneumonia. Echocardiogram revealed
On presentation the patient was hemodynamically stable	an EF of 25%. She had received the quadrivalent influenza vaccine
and had a hemoglobin of 13.7. CT scan of the abdomen	earlier in the influenza season. She de-saturated on the medical
revealed a splenic hematoma 2.5x2.5 cm. Later that day she	floor requiring ICU transfer. She was managed with oxygen, furosemide and oseltamivir. Patient improved and was transitioned
developed increasing left upper quadrant pain, blood	to acute rehabilitation prior to going home.
pressure of 99/59 and hemoglobin drop 13.0 to 9.9. She	Discussion:
underwent IR splenic artery embolization and received 1	Influenza causes public health burden through increased
unit of packed RBC. Post-procedure she remained stable and	hospitalization rates due to serious infection or complications such
was discharged on hospital day 5. On one month follow up	as pneumonia or HF. The inflammatory and immunologic response
the patient was still complaining of left sided abdominal	to influenza infection may trigger exacerbation of underlying cardiopulmonary disease. The efficacy (laboratory measured) and
discomfort, left shoulder pain, and mild left sided pleuritic	effectiveness (clinical outcomes) of anti-influenza vaccine decline
chest pain. Repeat imaging revealed hematoma expansion	with age, co-morbidities and immunosuppressed states. In
to 13.8x11.6cm. She was offered splenectomy via	particular, they lead to development of HF and acute, direct
laparotomy, as the organ was too large for laparoscopic	myocardial dysfunction. The value of high dose influenza vaccine in older adults may be more helpful, though definitive data is lacking.
procedure, but decided to forego the surgery.	Following influenza immunization most individuals develop both
The first case of colonoscopy induced splenic injury was	antibody titers and T-cell immune responses.
reported in 1974 by Wherry and Zehner. Since then over 100	A pure causative association between influenza infection and HF
case reports have been published across the world. Currently the documented incidence is ~0.001%, while true	development is elusive. Influenza may induce acute, direct
number is likely higher due to underrecognized nature of	myocardial dysfunction via inflammation and myocardial injury.
this unique complication. There are three mechanisms that	High metabolic demands of infection may also suppress myocardial function leading to new onset HF or acute decompensation of
are believed to be responsible for colonoscopy induced	chronic HF. Changes in cardiorenal function may also exaggerate
splenic injury: direct trauma by colonoscope during	fluid shifts and volume overload.
maneuvering through splenic flexure, traction on the	Influenza (and pneumococcal) vaccinations are recommended for
splenocolic ligament, and traction on adhesions between	patients with cardiovascular diseases. The mechanisms of
colon and spleen. Presenting patients frequently complain of	cardioprotection through vaccination may relate to elimination of infection and complications, but also via modification of
abdominal pain, show signs of hemodynamic instability, and	immunoinflammatory model of atherosclerosis.
decrease in hemoglobin. Initial evaluation, frequently with	Learning Points:
CT scan, is usually targeted at ruling out of perforation and	-Hospitalizations for heart failure are triggered by several causes,
hemorrhage. When identified splenic injury may be	including influenza infection.
managed either conservatively, with splenic artery	-Efforts to prevent influenza through vaccinations may prevent or modify the course of illness and improve outcomes, even after
embolization, or by splenectomy, depending on clinical	development of HF.
condition and institutional preferences. Majority of patients	-Although our elderly, immunosuppressed patient developed acute
achieve full recovery, but there are few, like our patient,	HF requiring hospitalization and critical care, the eventual outcome
who suffer prolonged discomfort and loss of quality of life.	was favorable, emphasizing the value of immunization.
	Reference:
	-Ciszewski A. Cardioprotective effect of influenza and pneumococcal vaccination in patients with cardiovascular disease. Vaccine.
	2018;36(2):202-6

Resident/ Fellow Clinical Vignette

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Program Director, e-mail: smarkowi@ehs.org	ATYPICAL PRESENTATION OF X-LINKED
Department of Medicine, St. John's Episcopal Hospital, Far	HYPOPHOSPHATEMIC RICKETS
Rockaway, NY	
St. John's Episcopal Hospital	Case Presentation: 36-year-old female with x-linked
	hypophosphatemic rickets without significant skeletal
Disappearance of Thyroid Nodules due to Subacute	deformities, but with severely significant calcification of her
Thyroiditis - A Case Report of a Rare Phenomenon	ascending stenotic mitral and tricuspid aortic valves (AV)
	requiring replacement of her mitral valve (MV) by age 26
Introduction:	and aortic valve (AV) by age 36, presenting for evaluation. At
Subacute thyroiditis (SAT) is a spontaneously remitting	age 26, because of her desire to have children, she received
inflammation of the thyroid gland. Typical presentation is an	a bioprosthetic MV with plan to receive mechanical AV and
anterior neck pain radiating to the jaw and ear, associated with	MV at a future date. At that time her mitral valve was
asthenia, hyperthyroidism, and low thyroid uptake at	severely stenotic (3.34m/s peak velocity and a gradient of
scintigraphy. Here, a patient with SAT presented with	16mmHg) and calcified on echo, her aortic valve was
multinodular goiter with subsequent complete self-resolution of	moderately calcified (2.81m/s peak velocity and a gradient
nodules within one year.	of 16mmHg). She was able to have children, but continued
	to have progressive exercise limitation and SOB. By age 36,
Case presentation:	her aortic valve was severely stenotic with a peak velocity of
A 45 year old woman with no history of thyroid disease,	4.4m/s and a gradient of 44mm Hg and severely restricted
presented to our clinic complaining of anterior neck pain	leaflet motion on echo. Echo showed that her bioprosthetic
radiating to the right ear for one week accompanied with	MV already had an increasing gradient and her mitral
generalized fatigue. There were no fever, chills, dysphagia,	chordae and papillary muscles were also calcified.
weight changes, nor recent URI. Physical exam was remarkable	Intraoperatively her MV showed visible signs of calcification,
for a very tender mild goiter, but no palpable masses, nor	parts of her ascending aorta were porcelain, her aortic valve
lymphadenopathy. Patient was clinically euthyroid with normal values of free T4 1and TSH. She was started on Ibuprofen 400	was severely stenotic, and her left atrial appendage was also
mg thrice a day and referred for thyroid sonogram and 24-hour	
radioactive iodine thyroid uptake.	heavily calcified. Surgery required significant calcium
Two weeks later, patient stayed clinically euthyroid, but with	debridement from the aortic and mitral annuli, and aortic endothelium prior to successful mechanical aortic and mitral
ongoing neck pain, a decrease in TSH level measured 0.358	
uIU/ml, and erythrocyte sedimentation rate (ESR) elevation up	valve placement.
to 50 mm/hr (normal range 0-32 mm/hr). Patient was	Discussion: Here we present a case of X-linked
recommended to take Advil 3200 mg daily.	hypophosphatemic rickets (XLHR), the most common
Sonogram revealed normal size thyroid gland (right lobe 4.3 cm,	hereditable form of rickets with a prevalence of 1 in 20,000.
left lobe 3.6 cm) with heterogenous parenchyma and overall	The abnormalities are due to a mutation in PHEX
increased blood flow. One hypoechoic solid nodule measuring	(phosphate-regulating gene with homology to
1.4 cm in the right lobe and two hypoechoic nodules measured	endopeptidases located on the X chromosome) that plays an
up to 1.1 cm and 0.4 cm in the left lobe were found.	important role in bone mineralization and renal phosphate
24-hour radioactive iodine uptake was severely diminished	retention. Management includes phosphate repletion to
(<1%) that was also consistent with SAT. Thyroid biopsy for a	combat renal losses and calcitriol administration to improve
new multinodular goiter was deferred for later, when	calcium absorption from the intestine to suppress PTH
inflammation subsides.	release and prevent secondary hyperparathyroidism. Even
Thyroiditis resolved in two months. Patient developed	with these treatments, reported sequellae include improper
hypothyroidism with TSH 28uIU/ml, and did well on Synthroid	bone formation and osteomalacia, short stature, lower-
50 mcg daily.	extremity bowing, pelvic distortion, cranial bone
Thyroid ultrasound was repeated after two months and showed significantly smaller size thyroid gland (right lobe 2.4 cm, left	abnormalities, Chiari malformations, defective dentin,
lobe 2.4 cm) with no nodules seen and normal parenchymal	sensorineural hearing loss and otosclerosis. The resultant
pattern and blood flow.	hypercalcemia presents as significant enthesopathy in
Discussion:	adults, affecting tendons, ligaments and joint capsules
We present a case of a patient with a multinodular goiter (3	throughout the body. However, no literature exists on the
nodules seen) who developed a significant case of painful SAT.	vascular effects of the chronic hypercalcemia of XLHR in
Upon resolution of the thyroiditis repeat sonogram showed	adults. The severity of the patient's vascular disease is
absence of all nodules. This unique disappearance of thyroid	unusual for XLHR and should prompt further investigation
	into this rare, but highly morbid disease phenotype.
nodules, presumably due to inflammation of the thyroid, is a	
nodules, presumably due to inflammation of the thyroid, is a very rare occurrence and has not been reported in the	

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CANNABIS HYPEREMESIS SYNDROME: CASE REPORT AND REVIEW OF PATHOGENEIS	Coronary Artery Disease In a Young, Healthy Female: Beneath the Surface
	Objectives
Case Presentation: 45-year-old man with recreational marijuana use and frequent	Objectives 1. To acknowledge the presence of coronary artery disease (CAD) ir
episodes of diffuse intractable abdominal pain associated with	low-risk populations
temporarily elevated white blood cell count, presenting for	2. To identify Polycythemia Vera (PCV) and other hematologic
esophagogastroduodenoscopy (EGD) to evaluate his nonspecific	diseases as predisposing and risk factors of CAD
presentation. The EGD showed moderate peptic duodenitis,	
small duodenal bulb ulcers, and mild gastritis. Immediately after	Case
the procedure the patient developed severe unremitting	A 34 year-old woman presented with 2-3 weeks of exertional chest
abdominal pains and retching. He insisted on immediate hot	pain and shortness of breath that were relieved with rest. She also reported decreased exercise tolerance. She had no significant past
shower use, which effectively resolved his symptoms. He then	medical history and no family history of cardiac disease. She
admitted to recreational marijuana use preceding development	reported occasional marijuana use. Her lipid profile was normal and
of his gastrointestinal symptoms.	hemoglobin A1C was 4.5%. Hemoglobin ranged from 14 to 16 g/dl,
Discussion: As cannabis is becoming more common, the medical community	and platelet count ranged from 500 to 600 k/ul. Serial troponins
is presented with increasing numbers of cases of a rare new	were negative. EKG revealed sinus bradycardia with some T-wave abnormalities. Exercise treadmill stress test revealed ischemia-
syndrome brought out by longstanding marijuana use. We	induced wall motion abnormalities in the anterior, lateral, and
present a case of cannabinoid hyperemesis syndrome (CHS) in a	septal regions. Cardiac catheterization revealed severe, two-vessel
45-year-old man, who was significantly older than 31, the	CAD, with 100% chronic stenosis of the proximal left anterior
typical age of onset. CHS is an important cause of recurrent	descending and ramus intermedius. Hematologic work-up revealed
abdominal pain and vomiting and should be suspected in	PCV in the presence of a JAK2 mutation, as well as heterozygosity
patients using marijuana. First described by JH Allen in 2004,	for plasminogen activator inhibitor :1 (PAI-1).
CHS is a paradoxical reaction to the normally antiemetic nature	Discussion
of tetrahydrocannabinol (THC) that resolves in 99% of cases.	CAD in our modern world remains a major cause of morbidity and
Patients usually have an average of 13 years of prior cannabis use. Workup is usually unremarkable, except for leukocytosis	mortality, and it is essential that physicians be able to identify and
and occasional gastroesophagitis and associated mucosal	diagnose it in a proper and timely fashion.
erosions on EGD.	Risk factors are often assessed during the initial approach to
Several theories have been proposed for the etiology of the	suspected CAD. The traditional and major risk factors include hypertension, diabetes mellitus, hyperlipidemia, family history of
syndrome. The hyperemesis is most likely caused by THC's	premature CAD, and smoking, while taking into consideration age
effects on cannabinoid receptors CB1 and CB2. CB1 receptors	and gender. These risk factors are used to stratify patients into low
are located mostly in the central and enteral nervous systems	risk, intermediate-risk, and high-risk groups. Guides such as the
where they have been implicated in pain, movement, stress	ACC/AHA ASCVD risk calculator can be used as predictors of
response, gastric motility, and in modulating the hypothalamus	cardiovascular events. Nevertheless, patients with low likelihood of
pituitary–adrenal axis. CB2 receptors may play an immunomodulary role in glial cells. Given the lipophilic	cardiovascular events can still develop heart disease. Therefore, it becomes necessary to investigate other causes or predisposing
properties of cannabis, its chronic use may potentially lead to	conditions leading to cardiovascular events. This includes work-up
elevated "toxic levels―, where the slowed GI motility effects	for thrombotic disorders, myeloproliferative disorders, and
override the antiemetic CNS properties of cannabis.	hypercoagulopathic states.
Additionally, stimulating the CB1 receptors in hypothalamus	
may directly cause central nausea. The unique relief of	In patients with PCV, for instance, it is suggested that patients with
symptoms with hot water bathing may be explained by a change	JAK2 mutations have a higher tendency for arterial thrombosis , including CAD. Cases have also been reported in patients with
in core body temperature via thermoregulatory center of the	essential thrombocythemia (ET) with JAK2 mutations. And while th
hypothalamus. Additional features may include a "cutaneous	use of hydroxyurea in PCV and ET and other platelet-lowering
steal syndrome― in which warm water baths divert blood	agents such as anagrelide in ET are believed to be beneficial, there
from splanchnic to cutaneous circulation and thereby reduce	have not been proven methods to predict or prevent the occurrent
hyperemesis in patients with CHS. Of note, not all chronic cannabis users develop CHS, a fact that could be explained by	of thrombotic events . Certain PAI-1 gene polymorphisms have als
genetic polymorphisms in cytochrome P450 responsible for	been hypothesized to be associated with a higher tendency for thrombosis and CAD, with cases reported in patients as young as 14
cannabinoid metabolism.	years-old requiring CABG.
Further research is needed to gain a better understanding of	In cases considered low-risk and where CAD is suspected, it is
	second sub-the second states and second states the second states and second states at second s

Further research is needed to gain a better understanding of
this once rare disease that is now becoming more common.In c
worProper recognition would significantly reduce collateral
healthcare costs and greatly improve quality of life in patients
suffering from CHS.of p

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COMMON CORONARY OSTIUM "" NOT SO COMMON

Coronary arteries originating from a single coronary ostium in the aorta are rare, occurring in less than 0.03% of the general population. We present an anomalous single right coronary ostia with a common origin for all 3 major coronary arteries the right coronary artery (RCA), left circumflex artery (LCX) and left anterior descending (LAD).

An 86-year-old male presented to the emergency department with complaints of hematemesis for 1 day. He had a past history of left internal carotid artery stenosis, hyperlipidemia, peripheral arterial disease and diverticulosis. CT abdomen and pelvis revealed a large fluid-filled paraesophageal hiatal hernia. He underwent urgent esophagogastroduodenoscopy which showed severe esophagitis and a large paraesophageal hernia without any active bleeding. He underwent laparoscopic Nissen fundoplication and percutaneous endoscopic gastrostomy tube placement. His post-operative course was complicated by new onset atrial fibrillation, and a transthoracic echocardiogram demonstrated left ventricular ejection fraction 65%, severe aortic valve stenosis with aortic valve area of 0.83 cm sq, aortic valve peak gradient 67.2 mmHg and mean aortic valve gradient 42 mmHg. The patient was planned for cardiac catheterization and transcatheter aortic valve replacement (TAVR). Pre-TAVR cardiac catheterization was performed, which revealed a single ostium from the right coronary cusp feeding all 3 coronary arteries. A 70% LAD stenotic lesion was noted, but no intervention was done at that time as it could globally compromise the blood supply to the heart. TAVR was however done; he tolerated the procedure well, and was discharged home the next day on aspirin and rivaroxaban. The coronary circulation arising from a single coronary ostium has little clinical significance, except for cases in which a coronary artery traverses between the pulmonary artery and aorta, which can cause sudden death at a young age due to extrinsic coronary arterial occlusion. The other clinical implications involve difficulty in visualizing the circulation angiographically and accidental damage to an aberrant artery during cardiac surgery. Such anomalies are usually not diagnosed during life because they present with sudden death or remain asymptomatic for life. Less than 30% adult patients present with symptoms of palpitation, exertional dyspnea, syncope and fatigue because of exit angulations from the aorta or extrinsic compression of the arteries. Various imaging studies such as echocardiography, coronary angiography, and magnetic resonance imaging have been used to diagnose the origin and course of anomalous coronary arteries. We report this case because of the uniqueness and rarity of this patient's congenital anomaly. This case demonstrates the need for angiography in establishing a diagnosis and treatment course. Special care should be taken when evaluating young individuals and athletes with chest pain resembling angina, since sudden death can occur with an anomalous origin of coronary arteries.

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It Can still be Paget's Disease of the Bone Despite the Unusual Presentation

Introduction

Paget's disease of the bone (PDB) is the second most common metabolic bone disorder, most prevalent in people of European descent. Bone involvement may be monostotic or polyostotic and results from increased bone turnover by deregulated osteoclastic and osteoblastic activity. PDB is often asymptomatic; however bone pain, especially at night, heralds disease. Biphosphonates remain the mainstay of therapy with many requiring only one lifetime treatment.

Case report

75 year old Nigerian female homemaker, recent U.S. immigrant, with insignificant medical history presented to hospital with a 2 week history of spitting blood in the morning prior to brushing her teeth. She denied cough, hemoptysis, dyspnea, bone pain, weight loss, recent illness or sick contacts. She had never sought medical attention but underwent testing prior to her travel, including a reportedly negative tuberculin skin test. No family history of malignancy. Physical examination was normal including dental inspection and breast examination. Labs: normal blood count; serum calcium 9.8 mg/dL; alkaline phosphatase (AP) 236 U/L (elevated); liver enzymes and vitamin D normal. Quantiferon gold test: indeterminate. Pulmonary embolism was ruled out by CT angiogram but incidentally revealed lytic and blastic lesions in the spine and sternum, suggesting malignancy or metabolic bone disease. Negative serum and urine protein electrophoresis excluded monoclonal gammopathy. Radionuclide body scan confirmed increased uptake in L2-L4 vertebrae, sacrum and pelvic bones suggestive of Paget's disease of the bone. Urine N-terminal telopeptide/creatinine is pending. After a single dose of intravenous pamidronate, the patient stopped seeing blood in the saliva

Discussion

Our case is unusual in many aspects. Cases of Paget's from Africa are rare. Considering the bone involvement, the AP elevation was expected to be higher; AP is normal in 10%. Perhaps early disease detection correlates with lower levels, although there was uptake by involved areas on bone scan. When tests favor metabolic bone disease (Paget's), a work up for malignancy was perhaps not indicated. Features such as high output heart failure, neurological compression syndromes, bone pain and hypercalcemia were conspicuously absent in our patient.

The rare, transient presentation of spitting blood without trauma, dental or pulmonary pathology may relate to the known increased bone vascularity in PDB. Unfortunately the source cannot be confirmed. Lessons Learnt

- Paget's disease of bone is often clinically missed in practice, with common clues being bone pain and markedly raised alkaline phosphatase.

- In their absence, our patient's unusual presentation of Paget's was a diagnostic dilemma.

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DYSPHAGIA AS A SOLE MANIFESTATION OF LATERAL	,
MEDULLARY SYNDROME	AN UNUSUAL CASE OF GALLBLADDER CANCER IN A YOUNG
	MALE
Introduction:	
Lateral medullary infarction is caused by a vascular event in	INTRODUCTION
the territory of the posterior inferior cerebellar artery	Gallbladder cancer is a rare and lethal disease, often diagnosed
(PICA). It can present with crossed hemi sensory loss,	at advance stages, known for being two to three times more
ipsilateral Horner syndrome, and cerebellar signs. However	common in women compared to men worldwide. It is usually
variability of the clinical manifestation should be kept in	associated with obesity, advanced age, biliary tract pathology
mind as it can often lead to missed or delayed diagnosis.	and certain bacterial infections. We present a case of a
	relatively young male diagnosed with gallbladder cancer,
CASE: A 74-year-old female with history of Hypertension,	without any of the known associated risk factors.
Hyperlipidemia presented to emergency room (ER) with	CASE PRESENTATION
sudden onset of difficulty swallowing and foreign body	A 41-year old Hispanic man with no past medical history,
sensation in her throat. She denied any weakness, sensory	presented with diffuse abdominal discomfort, fatigue,
symptoms, vision changes, headaches, abdominal pain,	generalized pruritus, scleral icterus, and unintentional five pound weight loss over one month. There was no history of
hematemesis or dizziness. On exam her vitals were 172/100,	fever, alcohol, tobacco or illicit drug use, family history of
pulse rate 80 beats per minute and oxygen saturation 95%	cancer, recent travels or exposure to any medications or heavy
on room air. She has significant pooling of secretions in the	metals. Vitals were within normal limits. Patient had a thin
oropharynx. Otherwise remainder of the examination was	body habitus (BMI 23.5). Physical exam was remarkable for
unremarkable. Due to sudden dysphagia and foreign body	scleral icterus, jaundice and mild right upper quadrant and
sensation, esophageal foreign body was suspected. A	epigastric tenderness. Laboratory investigations showed
Computerized tomography scan of soft tissue neck	microcytic anemia, significantly elevated AST (231 U/L), ALT
performed in ER, revealed incidental non opacification of	(187 U/L), GGT (723 U/L) and alkaline phosphatase (1082 U/L),
distal V3 and proximal V4 segment of the left vertebral	as well as direct hyperbilirubinemia. Abdominal ultrasound, CT
system with good collateral flow. Gastroenterology was	abdomen, and MRCP were performed, which showed signs
consulted for possible esophageal obstruction,	highly suggestive of gallbladder cancer with liver and biliary due
recommended a barium contrast study for further	involvement, with presence of portocaval adenopathies. CT
evaluation. Given possible thrombus in vertebral artery seen	guided liver biopsy confirmed presence of adenocarcinoma of
on the CT soft tissue neck and sudden onset of patient	the gallbladder. Stent deployment via ERCP and percutaneous
symptoms, brain stem stroke was suspected. A Magnetic	drainage for improvement of obstructive jaundice was not
Resonance Imaging of the brain performed, showed acute	attempted due to lack of ductal dilation and high risk of
infarction of left medulla oblongata within the territory of	complications including cholangitis. Incidental finding of bilateral pulmonary embolism on CT was addressed by
the posterior inferior cerebellar artery (PICA), consistent	implementing immediate anticoagulation therapy. Palliative
with lateral medullary infarction (Wallenberg Syndrome).	care was provided for generalized pruritus. Patient was
Patient was managed conservatively, started on aspirin and	eventually discharged with follow up with gastroenterology and
statins. A percutaneous endoscopic gastrostomy (PEG) tube	oncology practices.
was placed for feeding and discharged to rehabilitation	DISCUSSION
facility.	Demographic factors worldwide in the incidence of gallbladder
	cancer, a rare entity in the western world, are skewed towards
Discussion:	female gender, obesity, advanced age (average age is 72),
Stroke symptoms without typical features can easily be	certain bacterial infections (Salmonella, Helicobacter) and
missed. The lateral medullary (Wallenberg) syndrome arises	underlying biliary tract pathologies such as cholelithiasis,
due to compromise of the Posterior inferior cerebellar artery	porcelain gallbladder, pancreaticobiliary maljunction anomalies
(PICA) resulting in infarction of the lateral medulla.	and chronic inflammatory processes such as primary sclerosing
Complete syndrome is characterized by is contralateral	cholangitis. We present the case of a relatively young male with
sensory deficits that affect the body and ipsilateral deficits	primary gallbladder adenocarcinoma, without any of the risk
of the face and Cranial nerves. However variability of the	factors aforementioned, however sharing the known feature of
	diagnosis at a later stage of this disease process.

diagnosis at a later stage of this disease process. CONCLUSION

Even though rare, gallbladder cancer can occur in young male patients with low index of suspicion

presentation is the rule, depending on the area of medulla

oblongata involved. Given the importance of the early

treatment, accurate interpretation of clinical signs and

symptoms is very critical to establish the diagnosis in

improving outcomes for stroke patients.

Resident/ Fellow Clinical Vignette

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A Rare Case of Gastric Plasmacytoma	
	Zika Shock syndrome-A Fatal Case Of Zika Virus in an
INTRODUCTION. Plasma cell neoplasms can be divided into four	Immunocompetent Man
pathology types: multiple myeloma, plasma cell leukemias,	
solitary plasmacytoma of the bone and extramedullary	Introduction:
plasmacytoma. Extramedullary plasmacytoma (EMP) is very	The widespread outbreaks of Zika virus (ZIKV), a flavivirus closely
uncommon, approximately 2-5% of all plasma cell neoplasms.	related to Dengue and Chikungunya, have been well documented.
Gastrointestinal (GI) involvement occurs in only 5% of patients	Causes of grave concern during this time were due to the
with EMP. Occurrence of different types of plasma cell	association of Zika virus in pregnant women with subsequent birth
neoplasms present at once has not been well described. We	defects, as well as an association with GBS. However, in general, this
report the case of a middle aged Caucasian man, previously	virus presents as a mild and self-limiting illness with symptoms that
diagnosed with solitary sacral plasmacytoma, presenting with	include fever, maculopapular rash, polyarthralgia and bilateral conjunctivitis below, we report a rare case in which Zika virus led to
concomitant finding of polypoid gastric plasmacytoma.	fulminant septic shock and death in an otherwise healthy man.
CASE PRESENTATION. A 56-year-old male, with history of	rummant septic shock and death in an otherwise fleating man.
anemia of chronic disease, peptic ulcer disease and solitary right	Case Presentation:
sacral plasmacytoma, presented with generalized weakness and	A 73-year-old non-smoker Ecuadorian male with history of
low Hb (5.4g/dL). Physical exam showed pallor and mild	hypertension and hyperlipidemia presented to our service with 1
tachycardia. There were no signs of active GI bleed but stool	week of fever, myalgia, rhinorrhea along with productive cough,
guaiac was positive. Laboratory investigations showed elevated	nausea and two episodes of non-bloody emesis. He denied
alkaline phosphatase (266 U/L) with normal liver and renal	headache, visual changes, and shortness of breath, abdominal pain,
function. Transfusion of packed red blood cells was performed	joint pains or rashes. Pt had returned from Ecuador 4 days prior,
until restoration of Hb to baseline (Hb 8-9g/dL).	where his symptoms had begun. He denied specific exposure to
Esophagogastroduodenoscopy findings included multiple 1-	mosquitos but did report others in his town complaining of similar
1.5cm polypoid lesions in lesser curvature of stomach and hiatal	symptoms. On presentation, he was febrile to 102F, tachycardic and
hernia, without any evidence of bleeding. Histological	tachypneic but had an otherwise non-focal exam. Initial laboratory investigation showed mild leukocytosis and
examination showed diffuse plasma cell infiltrate of lamina	thrombocytopenia without any other abnormalities. Chest X-ray
propria with large atypical giant cells and immature forms,	showed interstitial infiltrates bilaterally and arterial blood gas
suggestive of plasma cell neoplasm involving gastric mucosa.	showed interstitial minimutes blacefully and arcenta blood gas showed hypoxemia with a paO2 of 60% on room air. His peripheral
Bone marrow biopsy showed plasma cell myeloma; however, at	smears were negative for malaria and other parasites. He was given
the time of diagnosis of solitary sacral plasmacytoma a year	empiric antibiotics with Ceftriaxone and Doxycycline for atypical

prior, bone marrow biopsy was negative for myeloma. Recurrent drops in Hb were attributed to hemophagocytic syndrome. The patient was eventually stabilized and discharged with surveillance by Hematology and Gastroenterology practices.

DISCUSSION. About 80% of EMP occurs in the upper respiratory tract, with only 5% of cases being of GI origin, most commonly affecting the small bowel, stomach, colon and esophagus respectively. EMP is predominantly described in Japanese females of 56 years median age. Although multiple site EMP has been sufficiently reported, the combination of different types of plasma cell neoplasms present at once (excluding the possibility of EMP progression to multiple myeloma in advance stages) has not been well described. In our case, diagnosis of two different types of plasma cell neoplasms was made on a middle aged Caucasian man, providing unique characteristics from diagnostic and epidemiologic standpoints when compared to the current available data.

CONCLUSION. Further identification and reporting of cases of such unique nature are necessary to better understand the incidence of combined plasma cell neoplasms, particularly with GI involvement, and its continuously changing demographic distribution.

d empiric antibiotics with Ceftriaxone and Doxycycline for atypical pneumonia.

Over the next 24 hours, he continued to deteriorate, progressing to respiratory failure and septic shock. Blood cultures and urinalysis were unrevealing. Testing was pursued for a broad array of infectious etiologies, including Influenza, RSV, Legionella, Dengue, Chikungunya, Zika, Q fever, Brucella and Leptospira. The patient continued to worsen, and his antibiotics were escalated to Cefepime, Vancomycin and Metronidazole with doxycycline. Within the next 48 hours, he progressed to multi-organ failure with refractory shock and severe thrombocytopenia with DIC. Work up revealed a positive Zika virus PCR from both serum and urine. Serology for Dengue Virus was positive for IgG but negative for IgM. No other infectious etiology or causes of shock were identified.

Discussion:

ZIKV associated fulminant disease has been reported rarely. Prior cases have been seen in association with ZIKV re- infection or coinfection with other flaviviruses. It has been reported that prior exposure to a different flavirvirus infection may cause an exaggerated host immune response to Zika virus leading to cytokine storm and shock. It is known that cases of repeated infections with different DENV serotypes results in fulminant infection, however, if this phenomenon applies to ZIKV infection still needs further study and may have implications for future outbreaks and vaccine development.

Resident /Fellow Clinical Vignette

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	Mesalamine-induced myopericarditis : Rare but fatal
When Home Remedy Goes Wrong: Bilateral Ischemic	complication of a chronically used medication
Stroke Due to Baking Soda Intoxication.	Introduction:
	Inflammatory bowel disease (IBD) rarely involves the heart,
Baking Soda is a widely available household product sometimes used as a home remedy for different purposes, but abuse & overdose can cause serious metabolic & neurological complications. A 70-year-old woman with diabetes, hypertension, anxiety, and	although case reports have reported IBD-associated endocarditis and subendocardial abscesses. However, autoimmune pericarditis and myopericarditis can be seen as rare side effects of medications used to treat IBD. We present an interesting case of Mesalamine induced myopericarditis here. Case:
depression, presented with altered mental status. She was	A 28 year-old male active smoker with Ulcerative Colitis (UC)
reportedly taking Baking Soda for detoxification & one packet of	diagnosed two months prior was admitted for pleuritic chest pain,
160-oz Arm& Hamme r& #174; baking soda was found in her room. A week prior, she was admitted for dizziness & had echocardiography, Computerized tomography(CT) scan of the	fever of 101°F, and shortness of breath for three days. His physical examination was negative for pericardial rub or heart murmur. Patient was recently started on Mesalamine (both oral and
head, carotid Doppler, and ECG: all normal. Saturation was 70% at 3L nasal cannula, with respiratory rate of 18, HR 104. Other	enemas) and prednisone for the last two months to treat UC. Initial
vitals were normal. She was unresponsive. She was intubated	chest radiograph revealed cardiomegaly with pulmonary vascular congestion. EKG revealed sinus tachycardia with diffuse ST segment
and admitted to the ICU. Labs showed serum sodium: 169,	elevation. Initial laboratory findings were significant for elevated
potassium: 2.8; chloride 99, CO2: 59 mEq/L; BUN: 30, creatinine	Troponin T of 0.13 ng/ml (0.00 :0.10 ng/ml), Creatine kinase (CK) 38
0.81l; arterial blood gas: pH 7.66; pCO2 63.9 mm Hg; base	U/L (20 :200 U/L), Alanine transaminase (ALT) 117 U/L (8 :61 U/L),
excess: -29.6 mEq/L; Urine pH 8.5. Fractional excretion of	and C-reactive protein (CRP) 10.4 mg/dL (0.0 :0.8 mg/dL). Echocardiography revealed mild diffuse left ventricular hypokinesis,
sodium (FENa): 5.4. CT of the head was normal at presentation. She was treated with intravenous normal saline solution and	mildly decreased ejection fraction (EF), and moderate pericardial
potassium. She developed generalized tonic-clonic seizures	effusion with mild right ventricular diastolic collapse. Acute
which was controlled with lorazepam. Metabolic & electrolyte	myopericarditis was diagnosed. Mesalamine was immediately
abnormalities were corrected; but after 72 hours, she showed	discontinued, prednisone continued, and colchicine started. Work up for other etiologies of myocarditis including antinuclear
no neurological improvement, and follow-up CT scan showed	antibodies, rheumatoid factor, HIV, hepatitis B and C, and C3 and C4
interval development of acute bilateral medial cerebral artery	complement levels were unremarkable. Mesalamine was not
distribution infarcts. The patient progressively deteriorated over 11 days, and the family decided on ventilator liberation and	restarted on discharge. At cardiology follow up, he had complete
comfort care. She died after three days.	resolution of his symptoms and restoration of EF to baseline. Discussion:
Healthy adults can tolerate up to 1700 mEq of baking soda per	Mesalamine-induced myopericarditis is a rare but serious
day, resulting in very rapid renal excretion with minimal	complication of Mesalamine. In most reported cases, it occurs early
increase in the serum bicarbonate concentration. Excretion of	following initiation of Mesalamine, but it can also develop after
sodium bicarbonate may be impaired if there is renal	several months/years of treatment. The exact mechanism of
insufficiency, hypokalemia, hypochloremia, or volume	Mesalamine's cardiotoxic effects is not known. Mesalamine is known to cause hypersensitivity reactions such as hypersensitivity
contraction. The toxic effect of baking soda is due to hypernatremia &	pneumonitis, angioedema, skin rashes, and hyper-eosinophilia.
metabolic alkalosis (MA) from the bicarbonate ions, with up to	Hypersensitivity reaction is thought to be the potential mechanism
80% mortality reported if pH is >7.65.	responsible for myopericarditis, though there may also be direct
Neuronal excitability in MA can present as seizure and tetany.	toxic effects of the drug on myocardial cells. Improvement of symptoms following discontinuation of Mesalamine supports
Severe MA can also cause cerebral vasoconstriction, decreased	hypersensitivity reaction as the responsible pathophysiological
cerebral blood flow, and tissue hypoxia, leading to ischemic	mechanism. A previous case report of Mesalamine-associated
cerebral injuries. Also, MA leads to left shift of the oxygen	myocarditis found eosinophilic infiltration of myocardium
dissociation curve, resulting in tissue hypoxia. Hypernatremia may result in rapid shrinkage of the brain, with consequent	suggesting hypersensitivity reaction. Mesalamine is a common
vascular injury and Intracranial hemorrhage.	medication used to treat IBD. Physicians should be aware of the possibility of Mesalamine-induced myopericarditis in patients who
Therapy should be aimed at early correction of electrolyte	present with chest pain and shortness of breath while taking
abnormalities & volume resuscitation with chloride & potassium	Mesalamine.
containing IV solutions.	References:
In patients with very severe alkalemia therapy with ammonium	1)Stelts S, Taylor MH, Nappi J, Van Bakel AB. Mesalamine-associated hypersensitivity myocarditis in ulcerative colitis. Annals of
chloride or dilute HCI may be considered. Tissue hypoxia can be	Pharmacotherapy. 2008;42(6):904â€"905
corrected by administering high flow oxygen. Assisted ventilation with correction of the PCO2 to normal should be	2)Fleming K1, Ashcroft A1, Alexakis C1, Tzias D1, Groves C1, Poullis
avoided, as this will acutely raise the arterial pH & may lead to	A1. Proposed case of mesalazine-induced cardiomyopathy in severe
deepening coma, seizures and tetany.	ulcerative colitis. World J Gastroenterol. 2015 Mar 21;21(11):3376- 9. doi: 10.3748/wjg.v21.i11.3376.

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Wolff-Parkinson-White Syndrome: Unmasking during pregnancy and possible fatal complications

Introduction:

The incidence of Wolff-Parkinson-White (WPW) syndrome in the general population is very low, ranging from 0.01-3%, but associated tachyarrhythmias are common, ranging 10-30% in young adults with WPW. WPW syndrome results from an accessory pathway that directly connects the atria and ventricles, bypassing the AV node. In young adults, WPW syndrome can go undiagnosed until they are exposed to physiological stressors, including pregnancy, that can induce symptoms. Identification of WPW syndrome is important given the risk of fatal tachyarrhythmias and sudden cardiac death (SCD).

Case:

A 26 year-old G4P1021 pregnant woman at 25 weeks with no significant past medical history presented with chest tightness and discomfort followed by palpitations and shortness of breath, leading to pre-syncope. She reported five similar episodes during the current pregnancy and no such episodes in the past. The obstetrics team found no pregnancy-related cause of pre-syncope. Her physical examination and routine laboratory tests were unremarkable. Electrocardiogram revealed short PR interval, Delta wave, and a wide QRS complex, consistent with WPW syndrome. She was admitted to Telemetry for monitoring. Transthoracic echocardiogram was unremarkable. Telemetry was uneventful except for few episodes of sinus tachycardia. Patient remained asymptomatic throughout her stay. She was offered Beta blockers after consultation with Cardiology, but refused. She was educated about the complications of WPW and its warning signs, and was discharged with outpatient follow up as high-risk pregnancy with OBGYN and Cardiology. Her pregnancy remained uncomplicated. Discussion:

The majority of patients with WPW syndrome remain asymptomatic throughout their lives. Pregnancy may facilitate the onset of tachyarrhythmias in previously asymptomatic patients with WPW syndrome. The direct cardiac electrophysiological effects of pregnancy-related hormones and hormonal surges, changes in autonomic tone, hemodynamic changes, underlying arrhythmias, underlying cardiac structural abnormalities, and electrolyte changes can all increase the risk of arrhythmias during pregnancy, and especially during labor and delivery. Hemodynamic changes due to paroxysmal supraventricular and ventricular tachycardia may affect the fetus. Management of arrhythmias in pregnant women is similar to that in non-pregnant patients, but special consideration must be given to avoid adverse fetal effects. There are case reports of WPW in pregnancy causing recurrent tachyarrhythmias refractory to medical treatment requiring multiple sessions of cardioversion and even fatal arrhythmias. Physicians can avoid such complications by paying attention to baseline electrophysiological findings in pregnant women.

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3. Gowda RM1, Khan IA, Mehta NJ, Vasavada BC. Cardiacarrhythmias in pregnancy: clinical and therapeutic considerations. Int J Cardiol. 2003 Apr;88(2-

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REVENGE OF THE IMMUNE SYSTEM: A CASE OF IMMUNE RECONSTITUTION INFLAMMATORY SYNDROME. Introduction:

Immune reconstitution is an uneventful process for most patients treated with antiretroviral therapy (ART). Rarely this rebooting of the immune system can trigger an immune reconstitution inflammatory syndrome (IRIS) which may present as a sudden worsening of a known infection or the unmasking of an opportunistic infection. Here we present a young male who had an unexpected etiology for cervical lymphadenopathy.

Case Presentation:

A 24 year old male, diagnosed with human immunodeficiency virus (HIV) 10 weeks ago, presented with a left neck swelling and a fever of 103 Fahrenheit degrees for one week. He had been on ART for 8 weeks with improvement in the CD4 cell count. He denied any sick contacts, but had traveled to the Dominican Republic 3 months prior. Given his history of HIV he was worked up for viral, bacterial, fungal and malignant causes. Empiric treatment was started with ceftriaxone, doxycycline, sulfamethoxazole and trimethoprim and fluconazole. His HIV medications ritonavir, darunavir, emtricitabine and tenofovir were continued. He tested negative for group A streptococcus, Influenza, Syphilis, Toxoplasmosis, Epstein Barr virus, Cryptococcus and Histoplasma and acid-fast bacilli. Imaging of the neck showed multilevel cervical lymphadenopathy on the left extending to the left supraclavicular space. Biopsy showed acute necrotizing lymphadenitis with poorly formed granulomas positive for acid fast bacilli. Deoxyribonucleic acid probe showed mycobacterium avium complex (MAC) infection. Our patient met the criteria for IRIS since he had an atypical presentation of MAC, an increasing CD4 and a decrease in viral load by 4 log 10 copies/mL after initiation of ART. Discussion:

Clinicians are likely to encounter IRIS, although it may be a difficult diagnosis to make requiring distinction from a range of differentials including treatment failure and new opportunistic infections. The incidence of non-tuberculosis mycobacterial IRIS is 3.5 percent among patients with a baseline CD4 cell count of less than 100 cells/µl. MACassociated IRIS develops in severely immunosuppressed individuals, who have a good response to ART. Unlike the diffuse febrile wasting illness associated with MAC in advanced AIDS, MAC-IRIS has more localized disease, most commonly presenting with suppurative, painful lymphadenitis. MAC-IRIS may also result in devastating sequelae including aggressive CNS infection and death if not recognized in time. To prevent such outcomes and facilitate appropriate care MAC-IRIS must be in the differential for all HIV patients on ART presenting with a sudden worsening of disease.

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Incidental Right Middle Lobe Syndrome Due to Edematous	Faizan Ali Faizee (Dow Medical College)
Endobronchial Tuberculosis	Sisters of Charity Hospital
Introduction Right middle lobe syndrome (RMLS) is chronic or recurrent	Elotuzumab in Combination with Lenalidomide and
collapse of the right middle lobe. RMLS secondary to	Dexamethasone for Treatment-Resistant Immunoglobulin
endobronchial tuberculosis (EBTB) is clinically uncommon.	Light Chain Amyloidosis with Multiple Myeloma
Aside from the cited rarity of this presentation, there are also	later duration.
diagnostic difficulties including images mimicking malignancy	Introduction: Immunoglobulin light chain (AL) amyloidosis, previously referred to
and negative AFB stains 83% of the time. We present an	as primary amyloidosis, is a rare disorder characterized by misfolded
interesting case of an elderly female visiting from Honduras who	protein deposition from free immunoglobulin light chain fragments.
was found to have a right middle lobe collapse secondary to a	Due to the rarity of the disorder, we do not have well-designed
questionable lung mass incidentally noted on CT abdomen.	clinical trials to show us the efficacy of the newer therapeutic
Case	agents for this particular amyloid disorder. This case-report reviews
76 year old nonsmoking female visiting from Honduras with no	a patient's response to elotuzumab- a monoclonal antibody used for
known past medical history originally presented to the ED	Multiple Myeloma (MM) treatment- in halting the disease
complaining of abdominal pain. Review of systems was positive	progression of treatment-resistant AL amyloidosis with MM.
for chronic productive cough with white sputum. It was not	Case Drecontation
associated with dyspnea, fevers, appetite changes, night sweats,	Case Presentation: A 62-year-old Caucasian woman initially presented to the MM and
hemoptysis, or weight loss. Patient appeared malnourished with	Blood and Marrow Transplant clinic with an asymptomatic right
kyphoscoliosis. Wheezing was appreciated in the right middle	mandibular lesion discovered during a routine dental visit. A biopsy
lobe zone with no signs of clubbing. CT abdomen incidentally	demonstrated a positive Congo red stain of amyloid-like material
revealed a right middle lobe collapse with a questionable	with focal clonal kappa light chains and clonal plasma cell
associated mass. CT thorax was positive for emphysematous	proliferation consistent with plasmacytoma. Bone marrow biopsy
changes, bronchiectasis, and persistent occlusion of right middle	revealed 5% kappa staining plasma cells. A computed tomography
lobe bronchus with an associated collapse. Bronchoscopic	(CT) scan of the mandible which revealed lytic lesions in bony
examination revealed notable narrowing of the right middle	structures of the head and neck. Chemistry panel demonstrated a
lobe with no visible endobronchial lesions; however, the	total protein of 5.2 g/dL, albumin 2.4 g/dL, IgA serum 243 mg/dL, IgG serum 328 mg/dL, and IgM serum 20 mg/dL. A 24 hour urine
mucosa was hyperemeic, edematous, and non-ulcerating with	demonstrated nephrotic range proteinuria (14 g of albumin in her
mucopurulent secretions. Endobronchial histology was negative	24-hours) and a serum creatinine of 5.9 mg/dL. She was diagnosed
for granulomatous inflammation and AFB stains were negative. The mycobacterial tuberculosis culture was positive leading to a	with amyloidosis and MM. Various ineffective treatment attempts
diagnosis of edematous EBTB. She was started on a four drug	were met with failure, including thalidomide, bortezomib,
regimen for active TB and was followed in the clinic monthly	cyclophosphamide, carfilzomib, and autologous peripheral blood
until the regimen was complete. Subsequent diagnostic imaging	stem cell transplantation. The similarities between MM and AL
showed resolution of the collapse.	amyloidosis led us to consider a trial of triple-therapy: elotuzumab,
Discussion	lenalidomide, and dexamethasone. The outcomes of the
The edematous type of EBTB is the most common form to cause	combination therapy on serum and urine protein studies were analyzed. A significant reduction in kappa FLC along with a
RMLS. The anatomically narrow RML bronchus increases its	remarkable decline in the free light chain ratio (k FLC/? FLC) was
susceptibility to collapse in the event there is localized edema	observed after starting the therapy. Serum protein electrophoresis
within the airway. There are many difficulties with diagnosing	revealed unquantifiable M-spike; Urine protein electrophoresis
EBTB. On chest xray, EBTB is usually not evident and the CT	showed neither M-spike nor monoclonal free light chains.
findings commonly mimic malignancy. During bronchoscopy,	Moreover, the patient's renal function continued to improve
endobronchial lesions may not be visible in the edematous form	evident by a steady decline in serum creatinine and total 24-hour
because the edema leads to narrowing thus obscuring the	urine protein. The patient is to continue on the current regimen triple drug therapy for total of 18 cycles till now and revisit clinic
visibility. AFB stains only yield a positive result 17% of the time.	every six months for reassessment.
Most commonly, the histology is granulomatous; however,	
uniquely in this case normal histology was found.	Discussion
Conclusion	The development of new agents for multiple myeloma provides us
Our case discusses an elderly female who was incidentally found to have RMLS due to edematous type EBTB in the setting of a	with a potential treatment option for systemic amyloidosis due to
negative AFB stain and absent endobronchial lesions on	the similarities of the two conditions. Elotuzumab, a SLAM7
bronchoscopy with normal histology. The edematous and	inhibitor, displayed a commendatory hematologic and organ
hyperemic airway mucosa combined with positive BAL	response in a patient with kappa free light chain amyloidosis when
mycobacterium tuberculosis cultures led to the proper	used in combination with lenalidomide and dexamethasone. This case report provides us with an insight into the possibility of utilizing
diagnosis. In conclusion, cases of RMLS where TB is suspected,	this novel agent for the treatment of treatment-resistant

this novel agent for the treatment of treatment-resistant

amyloidosis with MM.

tuberculosis cultures

diagnosis. In conclusion, cases of RMLS where TB is suspected,

we recommend a BAL should to obtain mycobacterium

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NON-EPILEPTIFORM SEIZURES "" A RARE PRESENTATION	College of Medicine
OF PHEOCHROMOCYTOMA	
	REVERSIBLE PARALYSIS: A CASE OF THYROTOXIC PERIODIC
A 53-year-old woman with known multiple sclerosis and	PARALYSIS
hypothyroidism presented to the hospital after 3 witnessed	Case Presentation
"seizures― preceded by the sudden onset of headache,	Hypokalemic periodic paralysis is a rare neuromuscular disorder
sweating, abdominal pain, and multiple bowel movements.	characterized by episodes of painless muscle weakness. The
Further history revealed the patient had been having these	condition can be hereditary, usually autosomal dominant in
symptoms intermittently for 8 months with one prior episode of	inheritance, or acquired, related to thyrotoxicosis. Thyrotoxic
seizure-like activity. The patient was scheduled to visit a	periodic paralysis (TPP) is rarely seen in the United States, but is a
neurologist but had not done so.	well-known complication of uncontrolled hyperthyroidism in Asian populations. We report a unique case of hypokalemic periodic
	paralysis in a previously euthyroid Filipino male who subsequently
Initial work up revealed a slightly elevated WBC at 13.9, lactate	presented with muscle paralysis in the setting of autoimmune
2.69, TSH 29.5, and free T4 1.19. Ingestion work up (salicylates,	thyroiditis.
acetaminophen, and alcohol) was negative. CT head and MRI brain were unremarkable. Video EEG monitoring captured one	Discussion
episode of tonic-clonic convulsions without corresponding	A 32-year-old Filipino male presented with acute generalized muscle
seizure activity consistent with non-epileptiform seizures.	weakness and non-exertional palpitations approximately 6 hours
Due to an inequality of blood pressures in both arms on	after consuming a substantial amount of alcohol. His weakness progressed to the extent that he was unable to ambulate. He
admission (SBP 160 right arm, SBP 200 left arm) the patient	reported seven prior instances of generalized muscle weakness
underwent a CT angiogram of the chest, abdomen, and pelvis,	since age 19, occurring in the setting of alcohol use or physical
which was negative for dissection but showed a 2.6 cm x 2.4 cm	exertion. The episodes were transient, resolving with potassium
right adrenal mass with a central low-attenuation area. Free	supplementation that was prescribed following a diagnosis of
plasma normetanephrine was then found to be elevated to 3.25	hypokalemia of unknown etiology. Prior workup revealed normal
nmol/L (reference range 0.00 - 0.89 nmol/L) and metanephrine	thyroid function. He elucidated a family history of hypothyroidism in
0.33 nmol/L.	his maternal aunt. He had a history of alcohol abuse but denied use
	of prescription medication or drugs. Examination revealed a lean male, with a diffusely enlarged non-tender thyroid gland, with no
Outpatient MRI showed features concerning for	bruit. Cardiopulmonary exam was significant for tachycardia and an
pheochromocytoma. She was placed on doxazosin and	outflow tract murmur. His initial examination showed two out of
metoprolol for alpha and beta blockade for one month prior to	five strength in proximal muscle groups of bilateral lower
intervention and underwent successful robotic adrenalectomy	extremities, brisk 3+ patellar reflexes and preserved strength in both
with pathology confirming pheochromocytoma. At three month follow-up, the patient has not had recurrence of any of her	upper extremities.
symptoms including seizure-like activity.	Laboratory studies revealed hypokalemia to 2.3mEq/L. Additional
Discussion	workup showed a TSH <0.005, elevated free T4 and T3 to 4.07 and
The classic symptoms of pheochromocytoma include	225.2 respectively and positive thyroid peroxidase antibodies. Thyroid stimulating immunoglobulins were 2.9(reference range
headaches, tachycardia, and sweating due to the release of	<=1.3). He was treated with intravenous potassium in addition to
catecholamines secreted from tumor chromaffin cells located in	methimazole and atenolol for thyrotoxicosis. His symptoms resolved
the adrenal glands. Neurologic symptoms other than headaches	with subsequent improvement in muscle strength. The patient was
have been reported widely including anxiety, tremulousness,	followed in the Endocrinology clinic. Repeat testing showed a
and dizziness. Our review of the literature found only one other	decrease in free T4 to 2.46 and a potassium of 4.0mEq/L.
reported case of new onset seizures as the primary presentation	Methimazole dose was further increased and he has had no
of a pheochromocytoma. Proposed mechanisms in this prior	recurrence in symptoms to date. Conclusions
case were catecholamine surge and hypertensive	Although there is a higher incidence of hyperthyroidism in females,
encephalopathy. However, our patient was never significantly	more than 95% of TPP occurs in males. The diagnosis should be
hypertensive during her admission. To our knowledge this is the	considered in all cases of hypokalemic paralysis as preceding clinical
first presentation of pheochromocytoma as non-epileptiform	features of hyperthyroidism may be subtle or non-existent. Thyroid
seizures	

seizures.

Conclusions

This case represents a rare but important manifestation of pheochromocytoma :non-epileptiform seizures. Without the finding of the adrenal incidentaloma on scans performed in the emergency department it is possible that her symptoms would have been overlooked. It is imperative to raise awareness of this atypical presentation, especially as once a pheochromocytoma is removed, there is usually complete resolution of the possibly debilitating and potentially fatal manifestations of the tumor. function should be evaluated to prompt an early diagnosis and

treatment. We report a case of hypokalemic periodic paralysis

Interestingly the patient had prior episodes of muscle weakness in

the setting of normal thyroid function, suggesting an underlying

etiology of familial periodic paralysis. Episodic paralysis will remit

with definitive treatment of hyperthyroidism and recurrence is

associated with newly diagnosed autoimmune thyroiditis.

prevented once a euthyroid state is maintained.

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There is more to fatigue than what meets the eye: A case	SUNY upstate medical university
of hypophysitis as a complication of immune check-point	
inhibitors therapy in a patient with uveal melanoma	A Negative Stress Echocardiography in the Setting of Acute Myocardial Infarction : A dilemma
Background:	
Immune check-point inhibitors like CTLA-4 (Cytotoxic T-	Introduction:
lymphocyte antigen-4) and PD-L1 (programmed death	The diagnosis of myocardial infarction has traditionally been
receptor ligand-1) have changed the landscape for the	relied upon the combination of chest pain, ECG manifestations,
treatment of melanoma. By virtue of their specific targets	elevations of cardiac biomarkers . Exercise stress testing is
and mechanisms of action, they can cause autoimmune and	recommended as the screening to assess the probability and
immune related adverse effects (irAEs) involving the skin,	extent of coronary artery disease after establishment of
gastrointestinal tract, liver and the endocrine system. The	probable diagnosis. Its diagnostic power is maximal when the pretest probability of coronary artery disease is intermediate.
endocrine adverse events reported include hypothyroidism,	Case :
hyperthyroidism, hypophysitis, primary adrenal insufficiency	A 46 year old male presented to the hospital complaining of
and diabetes. Fatigue is a common presenting featuring of	constant, dull, non-radiating retrosternal chest pain for 8 hours.
both hyophysitis and the side effect of the immue check	His pain was present at rest, not aggravated by exertion. He had
point inhibitors that is frequently overlooked. We present a	30-pack-year smoking history and family history was significant
case of hypophysitis due to a complication of these check-	for diabetes. Physical exam was normal with normal vital signs.
point inhibitors that was misdiagnosed as a side effect of the	Urine drug screening was negative. Electrocardiogram (ECG)
chemotherapy regimen.	showed global ST-segment elevation suggestive of early
Case:	repolarization or pericarditis .Echocardiography showed left
A 62-year-old male with history of left eye uveal melanoma	ventricular hypertrophy, normal diastolic function and normal
who had undergone radium plaque therapy 2 years ago was	ejection fraction with no regional wall motion abnormalities.
diagnosed with multiple liver metastasis 3 months prior to	Cardiac biomarkers checked on admission were normal but
admission. He was treated with a combination immune	after 4 hours showed troponin T of 0.07 ng/ml (normal <0.1
checkpoint inhibitors of nivolumab and ipilimumab in a	ng/ml), and upper normal CK and CK-MB. As the patient was intermediate pre-test probability for coronary artery disease,
clinical study in MD Anderson (Texas). He presented to our	stress echocardiography was ordered .During the study , even
hospital with extreme fatigue that had him bedridden for 1	though ECG continued to show diffuse ST-segment elevation
week. Given that he was on immune check-point inhibitors,	with no new changes , stress ECHO was negative with normal
his endocrine labs were checked. His random cortisol was:1	regional wall motion and diastolic function. After the Stress
mcg/dl, TSH :0.04 IU/ml, testosterone - 10.4, prolactin :0.3,	ECHO, a second set of cardiac biomarkers, 6 hours following the
LH :0.4, FSH :1.1, ACTH - <5. His lab work was consistent	last one, showed elevated troponin T, CK and CKMB at 0.43
hypophysitis. His MRI brain was unrevealing. He was treated	ng/ml, 1040 U/L and 68.3 ng/ml respectively. Repeat ECG
with intravenous fluids and IV hydrocortisone 50 mg every 8	showed new T wave inversion and pathological q waves in the
hours. His symptoms improved significantly in 2 days; his	inferior leads . The cardiac biomarkers peaked 18 hours later,
fatigue was much better and his steroids were transitioned	with troponin T at 1.27 ng/ml, CK at 1716 U/L, and CKMB at
to oral hydrocortisone and he was discharged.	144.2 ng/ml. A diagnosis of non ST-elevation myocardial
Discussion: It is important to be aware of the significant and	infarction (MI) was confirmed with cardiac catheterization

Discussion: It is important to be aware of the significant and which showed 100% occlusion of the left posterio-lateral branch life threatening side effects of the new cancer therapy :immune check-point inhibitors given their increasing use. of the left circumflex artery that was treated with a drug eluting stent The combination of ipilimumab (CTLA-4 inhibitor) and nivolumab (PDL-4 inhibitor) have 6.4% incidence of hypophysitis with grade 3 or higher severity requiring a hospital admission. These patients usually present with common complaints like fatigue that can be easily ignored as a part of the cancer spectrum undergoing treatment. These patients could have a very low cortisol resulting in lifethreatening adrenal insufficiency and crisis. One must maintain a high degree of suspicion for possible endocrine dysfunction with a low threshold for measuring hormone levels and immediate treatment to avoid fatal and life threatening complications.

Conclusion :

Exercise stress testing is most widely used , inexpensive, easy to perform screening method to assess the probability of coronary artery disease in patients with intermediate pre-test probability. Despite the wide use, it has its own shortcomings. Stress echocardiogram images can be suboptimal in quality in 10–15% of the patients, is operator dependent and might lack reproducibility. A false negative result can occur with lateral wall involvement secondary to left circumflex artery stenosis as was in our case . Therefore its very important to keep these caveats in mind when interpreting these results

Resident/ Fellow Clinical Vignette

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	A Heart-to-Heart Connection: Platypnea-Orthodeoxia in the
KLEBSIELLA PNEUMONIAE: A RARE CAUSE OF	setting of Severe Kyphosis Leading to Transient Shunting
OSTEOMYELITIS IN ADULTS	through a PFO
INTRODUCTION	An 87-year-old woman with severe kyphosis presented to the
Osteomyelitis is a progressive infection involving various bone	emergency room after an episode of unwitnessed syncope. Her
components. The common organisms implicated are Staphylococcus aureus, Streptococci, Escherichia coli and anaerobes.	review of systems was notable for a month of increased dyspnea on
There have been cases of organisms like Klebsiella pneumoniae(Kp),	exertion without orthopnea, paroxysmal nocturnal dyspnea, weight gain, or lower extremity swelling. Initial vital signs and physical
being rarer causes of osteomyelitis, being initially overlooked. We	exam were unremarkable. Chest X-ray showed no evidence of
report a case of Kp causing osteomyelitis and sepsis.	pulmonary congestion or consolidation. Laboratory studies were
CASE	notable for elevated troponin I biomarker to 0.4. Electrocardiogram
A 64 year old male from a correctional facility was transferred for	showed normal sinus rhythm without evidence of ischemia or any
liver failure management. On admission, he reported mild (4/10), diffuse, dull-aching abdominal pain. Past medical history was	acute pathology. The patient was admitted to the medicine service
significant for liver cirrhosis secondary to alcoholism & hepatitis C	for further work-up and remained on pulse oximetry/telemetry monitoring. Subsequent non-contrast head computed tomography,
virus (HCV) and remote intravenous heroin use.	carotid artery duplex, and video electroencephalography revealed
On exam, he was oriented, afebrile (99.3F), pulse 113/min, blood	no acute findings. The patient had several intermittent episodes of
pressure 103/71, respirations 18/min, saturating 96% on room air.	hypoxia with desaturation to low-70s captured on pulse oximetry.
Scleral icterus was noted. Respiratory and cardiovascular systems	Episodes of hypoxemia were confirmed by arterial blood gas.
were unremarkable. Abdomen was mildly distended, with minimal	Hypoxia typically occurred when patient was sitting upright,
free fluid and no guarding, rigidity or tenderness. Tender, non- erythematous, non-pitting edema was noted over left foot up to	persisted with 100% oxygen supplementation, and subsequently abated with recumbent positioning. A transthoracic echocardiogram
mid-leg, without skin lesions. On questioning, he recalled blunt leg	with intravenous injection of agitated saline was performed; the
trauma 8 days prior.	echocardiogram showed a patent foramen ovale (PFO) within an
Labs revealed leukocyte count 14,700/mm3, sedimentation rate	atrial septal aneurysm, and the early appearance of a large amount
20mm/h, C-reactive protein 16mg/dl; aspartate transaminase	of bubbles in the left atrium consistent with right-to-left intra-
161U/I, alanine transaminase 99U/I, total bilirubin 15mg/dl, direct	cardiac shunting. Her syncopal episode was attributed to severe
bilirubin 10.7mg/dl. HIV antibody was negative. HCV antibody was positive, with viral titers 184,000IU/ml.	hypoxia from intracardiac shunting in the setting of platypnea- orthodeoxia (PO) worsened by severe kyphosis. The patient was
6 hours after admission, he had worsening tachycardia and	offered a catheter-based PFO closure.
hypotension, with arterial lactate 4.3mmol/l. Cultures were drawn,	
he received intravenous fluids & antimicrobials. Blood cultures grew	PFOs are the remnant of normal fetal circulation and can be found
Kp within 8 hours, urine cultures were negative.	in 25%-30% of adults. The majority of PFOs are asymptomatic due to
Ultrasound-guided paracentesis yielded 120ml yellow hazy fluid, with leukocyte count 358/mm3 (66% polymorphs) and no bacterial	the higher pressures in the left atrium and normal pulmonary artery
growth. Echocardiography and CT scan of chest/abdomen/pelvis	pressures which prevent right-to-left shunting. PFO are associated with a variety of disease entities including: stroke, migraine
were unremarkable. Left leg MRI revealed 2nd metatarsal intra-	headaches, high-altitude pulmonary edema, and platypnea-
osseous abscess, marrow edema within cuneiforms & 2nd-4th	orthodeoxia. Platypnea-orthodeoxia is characterized by the
metatarsals and subcutaneous edema of leg. On the basis of clinical	development of hypoxia in the upright position (e.g. sitting,
& radiologic findings and absence of other infection sources, Kp-	standing) due to right-to-left shunting and improvement when
osteomyelitis was diagnosed. Joint aspiration was not deemed possible by Orthopedic Surgery.	recumbent. PO can occur in the setting of interatrial cardiac defects,
He was switched to Ceftazidime, with swelling resolving in 3 days of	pulmonary arteriovenous malformations, cirrhosis, or aortic aneurysms.
starting antibiotics. He was discharged with plans for 6 weeks of	
antibiotics and follow-up in Infectious Disease clinic.	Right-to-left shunting through a PFO despite normal intracardiac
DISCUSSION	and intrapulmonary pressures is explained by preferential streaming
Kp is the second most common cause of Gram-negative bacteremia.	and the flow phenomenon. With aging a prominent eustachian
It infects immunocompromised adults with diabetes mellitus, alcoholism, malignancy or hepato-biliary disease. Kp-osteomyelitis is	valve becomes redirected towards the PFO and thus the blood flow
reported in less than 100 cases :mainly pediatric and sickle cell	arising from the inferior vena cava is angled towards the atrial septum and directly into the left atrium. Furthermore, severe
disease patients, with few adult cases. Moreover, osteomyelitis due	kyphosis has been known to alter intrathoracic structural
to novel-Kp strains have been reported :Carbapenem-resistant Kp;	relationships facilitating shunting when upright due to stretching of
as well as hypervirulent-Kp affecting younger immunocompetent	the PFO. In summary, this case demonstrates the rarity of
hosts, causing concomitant liver abscesses & meningitis.	platypnea-orthodeoxia syndrome due to intracardiac right-to-left
There are no pathognomonic imaging findings in Kp-osteomyelitis. Lesions may be metastatic; multifocal; with rapid evolution,	shunting despite the high prevalence of PFO. A high index of
widespread destruction & exuberant periosteal reaction.	suspicion should be maintained in treating elderly patients with hypoxia since PFO closure can prevent adverse outcomes from
Kp is a rare, under-recognized cause of osteomyelitis in immune-	chronic hypoxia.
suppressed adults. Given its pathogenic nature and antibiotic	
resistance risk, early identification is critical to treatment.	

Janish Kothari MD **Edward Kogan MD** Jennifer Riggs, Xingchen Mai, Louis Miller Anil Rathi, MD, Rachit Marwaha, MD New York University School of Medicine Mukund Das, MD, New York Presbyterian Brooklyn Methodist Hospital Intravenous Leiomyomatosis: An Unlikely Source of **Pulmonary Emboli** A Rare Presentation of Cardiac Involvement in Primary Lung Malignancy A 56 year-old woman with a history of intravenous Introduction: leiomyomatosis (IVL) following remote total abdominal Metastatic cardiac disease is more common than primary hysterectomy and bilateral salpingo-oophorectomy (TAH-BSO) cardiac tumors. Malignancies can invade the heart via multiple with known pulmonary nodules and intracardiac masses routes. We report a case of a 59-year-old male who presents presented with two days of tachypnea, dyspnea, pleuritic chest with acute neurologic abnormalities which after multimodality pain, and hemoptysis. She denied recent surgeries, longimaging was likely attributed to cerebral embolic phenomenon distance travel or oral contraceptive use. secondary to primary lung cancer that disseminated through the pulmonary vein, into the left atrium, through the mitral valve She had previously presented to an outside hospital with several months of fever, abdominal pain and weight loss. She was found and into the left ventricle. Our research indicates that extension to have IVL on abdominal imaging and a subsequent to the left atrium via the pulmonary vein is rare for a primary transthoracic echocardiogram (TTE) performed for cardiac lung malignancy. clearance prior to TAH-BSO noted Eustachian and tricuspid valve Case Description: masses that were confirmed on cardiac MRI. Our patient was a 59-year-old-male, chronic smoker with a On presentation, she was tachypneic with otherwise medical history of left sided thoracotomy 30 years ago for unremarkable vital signs. Labs were notable for three negative pleural effusions who was undergoing evaluation of a hilar mass troponins. A chest radiograph showed stable pulmonary seen on outpatient chest x-ray after complaining of a chronic nodules and a CT-PE noted unchanged pulmonary nodules and a cough. He presented with complaints of weakness and right lower lobe segmental PE. persistent headaches. Physical exam was unremarkable except for prominent left sided facial droop. MRI of the brain revealed She was started intravenous heparin and her symptoms resolved within 24 hours. Given her known intracardiac masses, numerous acute infarcts. During the hospital stay, patient embolization was suspected, however a repeat TTE underwent further workup for the lung mass including CT chest demonstrated a "stable tricuspid mass-like lesion with which showed a 5.3cm mass in the superior segment of the independent motion moving to-and-fro between the RV and right lower lobe with right hilar adenopathy extending into the RA, but noted no change in the size of her intracardiac lesions. right pulmonary vein, through the left atrium and extending Further evaluation for thrombosis was notable for negative through the mitral valve into the left ventricle. Transthoracic lower extremity Doppler ultrasound, Factor V Leiden, echocardiogram (TTE) revealed preserved ejection fraction, left prothrombin gene mutation, and anticardiolipin antibodies. She atrium with a large, irregular, echogenic, mobile mass in the was subsequently started on letrozole therapy to suppress the atrial cavity, occupying the entire atrium with part of the mass growth of her existing intracardiac masses and was discharged going through the mitral valve during diastole. Patient on six months of apixaban and planned for a repeat TTE in 3 underwent endobronchial ultrasound bronchoscopy, with months to monitor their size. pathology positive for non-small cell carcinoma. Patient also had multiple episodes of atrial fibrillation, and was subsequently While over a third of patients with IVL present with dyspnea, started on a heparin drip. Hospital course was complicated by pulmonary embolism (PE) is a rare complication which typically acute visual loss, and he was found to have bilateral occipital results from direct obstruction of the pulmonary artery and intraparenchymal hemorrhages likely due to hemorrhagic requires surgical intervention. Multiple guidelines recommend conversion. Subsequently, all anticoagulation were that patients with unprovoked segmental PE and benign

discontinued. Due to extensive disease burden, family and patient decided to pursue conservative management and opted for comfort care.

Discussion:

Post-mortem autopsies suggest that 36% of cardiac metastases are caused by bronchogenic carcinoma. Cardiac involvement may arise from lymphatic spread, hematogenous metastases, direct invasion from the mediastinum or intracavitary invasion through either the inferior vena cava or the pulmonary veins. Our research indicates that primary pulmonary metastasis to the heart is not all that uncommon, however the route of direct invasion via extension along the pulmonary vein is uncommon and only a handful of cases have been reported. Metastatic involvement can lead to arrhythmias (such as A.Fib in our patient), EKG changes, sudden death from myocardial infarctions, cardiac tamponade, congestive heart failure from outlet obstruction and even embolic phenomenon as in our case.

malignancy receive 3-6 months of anticoagulation, however

there is a dearth of literature on IVL management without

however none of them presented with PE. In these cases,

of recurrent PE due to embolization or thrombus formation

This case highlights the importance of assessing the available

published data. In this case, we elected a relatively long course

recurrent PE from embolization or thrombus formation on the

evidence to treat rare complications of diseases that do not

of anticoagulation for PE in IVL due to the increased risk of

necessarily fit into standard guidelines and have limited

from local intracardiac masses.

intracardiac masses.

surgical intervention. In two of the largest case series of IVL,

anticoagulation was given for 3-12 months following resection,

clinicians must balance the risks of anticoagulation with the risk

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Spontaneous Spinal Hematoma Mimicking an Acute Stroke:	Parapneumonic effusion versus Primary Effusion
A Rare Case Associated with Dual Antiplatelet Therapy with	Lymphoma (PEL): a diagnostic challenge
Ticagrelor	INTRODUCTION:
	Parapneumonic effusions (PPE) are reported in 20-40% of patients
INTRODUCTION:	with pneumonia and are a cause of increased morbidity and
Life-threatening bleeding complications remain a serious	mortality. They are managed with drainage, antibiotics and occasionally fibrinolytic agents. We present an atypical presentation
although infrequent complication of dual antiplatelet therapy	of Primary effusion lymphoma (PEL), initially diagnosed as
(DAPT). In rare cases, bleeding can manifest as a spontaneous	Parapneumonic effusion.
spinal epidural hematoma (SSEH) that may mimic a diagnosis of	CASE:
stroke. This case highlights the occurrence of SSEH as a	76 year-old lifelong non-smoker man with history of chronic
consequence of antiplatelet therapy that manifested with	bronchitis presented to his pulmonologist with exertional dyspnea
stroke like symptoms.	for 1 month. Chest x-ray showed significant left and minimal right sided pleural effusions, with concern for underlying infection. He
CASE:	was prescribed a 5-day course of Azithromycin.
A 68-year-old female with hypertension (HTN) and coronary	He was re-evaluated a week later for persistent dyspnea and
artery disease receiving Ticagrelor and Aspirin after	outpatient thoracentesis was performed. Fluid studies showed
percutaneous coronary intervention with stent placement on	exudative process (with elevated LDH 6920U/I), so, he was admitted
2015, presented with a 5-hour history of left sided neck and back pain. She had no prior trauma or history of bleeding	inpatient. CT Chest revealed simple bilateral pleural effusions (small right and
abnormalities. On examination, she had a blood pressure of	moderate-large left), with compressive left lower lobe atelectasis
187/80 mmHg. There was tenderness on the left trapezius and	and normal lung parenchyma, and no mediastinal
deltoid muscle with no signs of neurologic deficits. On hospital	lymphadenopathy. Tube thoracentesis was performed and 300cc of
day 1 she developed left sided facial deviation, left upper	serosanguineous fluid was drained. He was started on intravenous
extremity sensory loss and flaccid left upper and lower	Unasyn.
extremity paresis without sphincter loss. Given the suspicion of	Repeat pleural fluid studies confirmed exudative characteristics. Fluid cytology revealed approximately 5% atypical large lymphoid
a cerebrovascular stroke, she was given a dose of Clopidogrel	cells. Flow cytometry showed cells expressed CD19, CD20, CD22,
300mg. Emergency head computed tomography scan and brain	surface kappa light chain, MUM1 and dim CD5 and were negative
magnetic resonance imaging (MRI) showed no evidence of an	for CD10, Tdt, surface lambda light chain, cyclin D1 and HHV-8.
acute infarct however MRI of the cervical cord showed an	These results suggested a diagnosis of a non-germinal center large
epidural mass extending from C3 to C6 vertebra with severe	B-cell lymphoma, possibly PEL. PET scan was negative for
cervical canal impingement and cord compression. She urgently underwent laminectomy of C3 to C6 vertebra with evacuation of	organomegaly or FDG-avid lesions. Bone marrow biopsy was negative for lymphomatous involvement.
hematoma. There was a full recovery of initial neurologic	Repeat Chest CT revealed suspicion for a loculated pleural effusion,
deficits post-operatively.	so he received intrapleural tissue plasminogen activator and
	deoxyribonuclease therapy. He was successfully transitioned to oral
DISCUSSION:	Augmentin and chest tube removed prior to discharge. He
SSEH is a rare life- threatening neurologic emergency with an	completed 10 days antibiotic coarse, with plan for outpatient
incidence estimated to be 0.1 in 100,000 per year and remains	Oncology and Pulmonology follow-up. On more than 2-months
idiopathic in 40-60% of cases. Secondary causes such as	outpatient follow-up no complications are seen. The final diagnosis is thought to be PEL, which will be managed with watchful waiting.
hematologic disorders, antiplatelet and anticoagulant	DISCUSSION:
medications, and HTN have been documented however	Pleural space infection affects approximately 60,000 individuals in
incidences are unknown due to its rarity. Typical neurologic	the USA annually and has approximately 15% mortality. Timely
deficits of SSEH are quadriparesis and paraparesis however it	diagnosis ensures management by multiple methods, such as
can be sometimes misleading such as in our case. Therefore, clinical evaluation of acute hemiparesis should not be limited to	thoracentesis, tube drainage, antibiotics and even possibly
a cerebrovascular event. We believe that DAPT was the risk	thoracoscopy. However, due to the abnormal cytology findings, our differential diagnosis extended to include PEL.
factor for this patient and the initial presentation of hemiparesis	PEL is a rare aggressive Non-Hodgkin's lymphoma, recently classified
with central neurologic symptoms was falsely attributed to	by WHO as mature B-cell neoplasm. It is seen to arise primarily in
ischemic stroke. Hypertension and the additional use of	the body cavities (pleural, pericardial and peritoneal), without
Clopidogrel also could have played an additive role to this	identifiable tumor masses. It has poorer prognosis, even with
progression. Upon thorough literature review, we believe that	treatment. Its diagnosis is supported by atypical cells with evidence
this is the first case of DAPT with Ticagrelor causing SSEH.	of HHV-8 infection. In our patient, no identifiable tumor masses
Despite the relative safety of this newer but more potent	were noted and atypical cells were observed. Rarely, PEL has been reported in HHV-8 negative patients.
antiplatelet medication, there is better need for caution when	CONCLUSIONS:
prescribing DAPT. Clinical suspicion for bleeding and potentially	PEL should be kept in differentials in patients with Parapneumonic
life-threatening events like SSEH is important.	effusion and abnormal cytology.

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	SUBACUTE COMBINED DEGENERATION AS A
Needling the Diagnosis of Eosinophilic Myocarditis	MANIFESTATION OF NITROUS OXIDE ABUSE: A CASE
	REPORT
Eosinophilic myocarditis (EM) is a rare, potentially fatal	
disease if undiagnosed and untreated. It is rarely recognized	Introduction
clinically and is often first discovered at postmortem	Subacute combined degeneration (SCD) is caused by
examination. EM is seen in 0.5% of unselected autopsy	degeneration and demyelination of the posterior and lateral
series, and in more than 20% of explanted hearts from heart	columns of the spinal cord due to deficiencies in vitamin B12
transplant recipients. Apart from drug related	leading to weakness and peripheral sensory. We present an
hypersensitivity, other causes include parasitic infestations	atypical cause that exemplifies the symptoms and management
and idiopathic hypereosinophilic syndrome. We present a	of SCD.
case of EM diagnosed with a myocardial biopsy.	Patient Summary
A 43-year-old woman with history of uterine fibroids and	The patient was a 21-year-old male without significant past medical history who presented with numbness and involuntary
iron deficiency anemia secondary to menorrhagia presented	movements of the hands and feet of one month duration. It
with worsening dyspnea and chest pain on exertion for 2	began with lower extremity discoordination, weakness and later
days. On examination the heart rate was 90 beats a minute	progressed to numbness of the hand and was seen making
and blood pressure 90/55 mmHg. Heart sounds were	involuntary-chorea like movements that was suppressible.
distant. Laboratory investigations revealed severe microcytic	Patient reported heavy nitrous oxide (N2O) usage for six
anemia with Hb of 3.7g/dL, eosinophilia of 16% and absolute	months, going through several canisters weekly. Patient was
eosinophil count of 2000/mm^3. Troponin was 5.59 ng/ml.	afebrile, heart rate of 70bpm, BP of 126/89, 99% on room air.
ECG showed normal sinus rhythm with non-specific ST-T	On exam patient was alert and oriented to person place and
changes, borderline low voltage complexes, and electrical	time, with intact cranial nerves. However, he had decreased
alternans. Chest X ray showed mildly enlarged cardio-	sensation in a stocking glove distribution with deficits in fine
mediastinal silhouette. Patient was treated as type 2 MI	finger movement and distal proprioception as well as truncal
from severe anemia and was transfused with 3 units of	ataxia. Lab work was significant for vitamin B12 371pg/ml (211-
packed red blood cells. On day 2 of admission, despite	945), folate 14.0 ng/ml (7.3-20), homocysteine >49.4 umol/L
improvement of anemia (Hb 6.8g/dL) the patient continued	(2.5-15) and methylmalonic acid 855nmol/L (87-318). MRI of the
to be dyspneic with chest pain Troponin further increased to	brain was unremarkable. MRI Cervical and Thoracic spine was
9.79 ng/ml. Serial ECGs showed no new changes.	significant for multiple levels of T2 hyperintense signal within
Echocardiogram showed a moderate pericardial effusion	the posterior columns. (Fig 1) Vitamin B12 was supplemented, after which his symptoms
with right atrial collapse during diastole. The patient was	improved and he was discharged. He was contacted a week
transferred to a tertiary facility for signs of tamponade. Right	later and reported no further N2O usage, being compliant with
cardiac catheterization with right ventricular biopsy showed	medications and continued improvement of symptoms.
significant infiltration of myocardium with eosinophils,	Discussion
consistent with eosinophilic myocarditis. Cardiac MRI	SCD is caused by a lesion of the posterior columns, which carries
showed a moderate pericardial effusion, left ventricular	afferent neurons that transmit sensory information, such as
dilation with mild asymmetric hypertrophy of myocardium	touch and proprioception, resulting in loss of coordination,
and an ejection fraction (EF) of 48% without evidence of late	weakness, ataxia, as well as sensory defects. The mechanism of
gadolinium enhancement. Work ups for autoimmune and	B12 deficiency leading to demyelination is unclear, but likely
infectious diseases (viral and parasitic) were negative. The	related to fatty acid metabolism.
patient was started on intravenous corticosteroids with	The mechanism of N2O mediated vitamin B12 deficiency is due
rapid reduction of peripheral eosinophils, and was	to inactivation of B12, by oxidizing Cobalt from 2+ to 3+ leading
discharged on oral steroids. A repeat echocardiogram 1	to a qualitative deficiency. As N2O does not cause a quantitative
month later showed resolving pericardial effusion with	deficiency, it is possible to see symptoms in patients with
improved LVEF to 55%.	normal values of Vitamin B12; however homocysteine levels
This is an unusual case of EM with pericardial effusion, its	would be elevated. Lesions of the dorsal column are seen as high signal lesions on T2 weighted MRI. The treatment is
presentation being complicated by severe iron deficiency	5 5
anemia. Her dyspnea, chest pain and elevated troponin were	cessation of N2O and Vitamin B12 supplementation as the supplemented B12 will not have been inactivated by N2O.
initially attributed to severe anemia. An alternative diagnosis	Conclusion
was sought when symptoms and labs failed to improve with	N2O causes a functional deficiency of vitamin B12 leading to
blood transfusion. Tissue biopsy was crucial in diagnosis of	demyelination of the posterior columns. Physicians should be
EM. Although frequently the etiology of EM is unclear,	aware, as up to 6% of 16-24 year olds have abused N2O and
nationts with EM rospond wall to glucocarticaids with poar	

demyelination of the posterior columns. Physicians should be aware, as up to 6% of 16-24 year olds have abused N2O and prompt supplementation of B12 will help prevent further degeneration and may lead to some restoration of function.

patients with EM respond well to glucocorticoids with near

complete recovery of ventricular function.

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THE PROLONGED PREDNISONE TAPER RESULTING IN	
CRYPTOCOCCAL MENINGITIS	Longitudinally Extensive Acute Transverse Myelitis "~ATM'
	following Tdap vaccination
INTRODUCTION: Cryptococcus neoformans is ubiquitous	
encapsulated yeast that can infect if spores from contaminated soil	Introduction:
are inhaled. Host defense against this pathogen is from T-Cell	Acute Transverse Myelitis is a rare acquired neuro-immune
mediated immunity, explaining high incidence in	spinal cord disorder that can present with rapid onset of
immunocompromised patients. This population includes solid organ	weakness, sensory alterations, and bowel or bladder
transplant recipients and patients infected with human	dysfunction. It can be an isolated entity or a manifestation of
immunodeficiency virus (HIV). We describe a patient who had been	other neuroinflammatory conditions. ATM is described as
immunocompentent, until he took prolonged course of prednisone,	Longitudinally extensive when it involves 3 or more levels.
then developed disseminated Cryptococcus. CASE Presentation:	Case Report:
A 51-year-old male and correctional facility resident with medical	40 year-old male with no past medical history who presented
history of untreated hepatitis C, depression, hypothyroid,	with bilateral lower extremity weakness, unbalanced gait,
hypertension presented with encephalopathy. He had been	numbness starting at the level of the waist and difficulty
undergoing an outpatient workup for demyelinating disorder	urinating starting on the day of admission.
causing progressive vision loss, sensory neural hearing loss, and	He received tetanus vaccine 9 days prior to presentation.
urinary retention requiring chronic foley catheter. This included	Patient was mildly febrile at 38. Examination revealed a sensory
testing for cyroglobulinemia, vasculitis, HIV, syphilis, herpes simplex,	level starting at the level T8, Motor power was 5/5 in both
mitochondrial disorders, plasma cell dyscrasias, solid tumors, and	lower extremities with bilateral hyperreflexia and clonus that
paraneoplastic causes, which were all negative. Immunological	was more pronounced on the right side
testing showed normal distribution of immunoglobulins. Patient's	Sensory and motor functions were intact in the upper
condition was steroid responsive therefore; prednisone 60mg was	extremities and all cranial nerves were intact.
prescribed for three months, then tapered to 50mg for 1 month	CT scan of the head was negative.
with appropriate prophylaxis (trimethoprim-sulfamethoxazole). At	MRI of the spine showed signal abnormality throughout the
the time of admission, he was taking 40 mg prednisone daily. On admission, patient's temperature 100.5° F and	cervical and upper thoracic cord with faint enhancement.
heart rate 152, otherwise vitals were normal. Complete history was	CSF showed slightly elevated CSF protein with no oligoclonal
limited as patient was uncooperative however, per records, he had	bands preset. VDRL, Enterovirus by PCR, Toxoplasma IgG, West
insidious decline in functional status. On exam he was agitated,	Nile Virus Abs, HSV 1&2 DNA PCR and Cryptococcal Ag were all negative.
moving all limbs, and had bilateral dilated pupils.	-
Comprehensive metabolic panel was significant for alanine	Patient was started on methylprednisone 500 mg IV BID. By his 3rd day of admission, all his symptoms resolved but he
aminotransferase 87 U/L, aspartate aminotransferase 74 U/L and	continued to show mild residual hyperreflexia and clonus on
lactic acidosis of 3.3 mmol/L causing anion gap 22. Complete blood	neurological examination. On outpatient follow up, he reported
count was unremarkable. Computed tomography of head showed	inability to ejaculate as his last remaining deficit.
no acute infarct or hemorrhage and chest radiograph was normal.	Discussion:
Urinalysis revealed pyuria therefore patient was started on	Our patient met diagnostic criteria for ATM as per the
piperacillin-tazobactam and intravenous normal saline at 150 ml/hr.	Transverse Myelitis Consortium Working Group '2'
Patient was continued on antibiotic therapy for one week and his	The absence of Multiple sclerosis like lesions on the Brain MRI,
hemodynamics improved however encephalopathy remained. On day 9, patient underwent MRI showing restricted diffusion within	the absence of oligoclonal bands in the CSF and CSF pleocytosis
ventricles suggesting presence of pus/proteinaceous content. This	all made this diagnosis highly unlikely.
prompted lumbar puncture (LP) showing an opening pressure of	He also failed to meet the diagnostic criteria of Neuromyelitis
11cm H20 with hemorrhagic then turbid fluid. Cryptococcus	optica which is very well known to cause Longitudinally
neoformans polymerase chain reaction was positive on	extensive ATM, The negative serology results coupled with the
cerebrospinal fluid. Patient was started on amphotericin B,	negative culture results on the CSF excluded the possibility of an
flucytosine and prednisone was tapered off.	infectious cause.
DISCUSSION:	ATM is a rare condition, with an incidence of about 1-8 per
Cryptococcus meningitis in non-HIV infected patients, without organ	million per year '3' and it is even rarer to be reported after
transplantation but still with compromised immunity present with	vaccination. It has been reported that ATM can occur after
diagnostic and therapeutic challenges. A delayed diagnosis can be	administration of several types of vaccines including, Hepatitis
fatal, as was in our patient. Today's clinicians may have a low	B, Tdap, oral polio, Japanese encephalitis, cholera, typhoid,
threshold to pursue opportunistic meningitides in patients with	rabies, and seasonal influenza virus vaccines '4 - 5'
solid organ transplant or HIV, however the same precautions should be explored in patients with chronic glucocorticoid use and	In a recent literature review, 37 cases of ATM following
unexplained encephalopathy. A better understanding of important	administration of various vaccines were reportd. '6'
differences including immune status, opening LP pressures and	This case and similar cases may raise the question of whether
epidemiological manifestations could lead to earlier detection and	discussing the very small risk of such complications is the right
prevention of disseminated Cryptococcus.	thing to do, especially in the time of a rising anti-vaccination
	movement

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OPTING TO DIE FOR FEAR OF BEING ISOLATED	Superwarfarin poisoning: A Case Study
Introduction: Malaria remains common worldwide, causing high rates of death especially among children in endemic areas. In the United States it commonly causes illness in those returning from areas with high rates of malaria. Delay	Background This case presents an uncommon cause of painless bleeding, elevated INR and normal LFTs in a patient. Super warfarin poisoning should be considered as one of the differentials when
in diagnosis and treatment greatly increases the mortality, especially disease caused by Plasmodium falciparum. Our case describes a delay in diagnosis and treatment secondary to false beliefs about quarantine and teaches ways to tackle	patients present with this lab profile in the absence of any past history of coagulopathy, or use of anticoagulant therapy. Case Patient was a 68 year old male who came from home with chief complaint of epistaxis, melena, and cola colored urine for 5
situations like this. Case Presentation Case preseantion: A 56 year old diabetic male presented to his internist with one week of cough, chest pain, fever and	days. Home medications included aspirin, metformin, and azithromycin. Relevant past medical history include hypertension and type II diabetes mellitus. Patient denied any
generalized body weakness where he was given Azithromycin as case of pneumonia. When his symptoms worsened and began to include nausea with vomiting, he	familial history of coagulation disorders. Denied smoking, alcohol or illicit drug use. Initial labs Hb 10.5, PT > 120, PTT > 240, INR > 10, LDH 662. Vital signs were within normal limits. Physical exam showed gross
came to our emergency department for further care. Examination: Acutely sick looking, T 102F, BP 115/65 mmhg, PR 100/ Min, RR 16/ min, SaO2 100%, slight ocular icterus, Clear chest; Hepatosplenomegaly.Laboratory results: Normal	bleeding from the right nostril. CT scans of the head, chest, abdomen and pelvis showed bilateral pneumonia. Patient was admitted to MICU and Hematology was consulted and coagulation panel was sent. They also recommended
WBC and HB, platelets 68,000/ul; HCO3 20 Meq/Lit; AST 118 u/l, ALT 25 U/L, bilirubin 4.3 mg/dl; cultures are pending. Chest X-Ray normal, He was given intravenous moxifloxacin and admitted to the medical service. On the second day of	administration of high dose vitamin K1 and transfusion of fresh frozen plasma (FFP). Patient was transfused 4 units FFP but Hb was stable so no RBCs were transfused. Melena and epistaxis resolved. Coagulation workup resulted and is shown in table 1.
and admitted to the medical service. On the second day of admission, the intern was called for ongoing fevers to 104 F. The astute intern suspected malaria and reviewed recent travel and exposure history. The patient denied any travel	Further history obtained from patient, he told medical team that he just had a new baby with his girlfriend but he was having issues with his current wife who was cooking all his meals.
history and refused further blood tests. Through diligence, the intern convinced the patient to provide blood and did a peripheral film examination that revealed ring forms of	Poison control center was notified and patient's blood was positive for brodifacoum. Due to cost of medication and for compliance, patient continued to have treatment at the transfusion unit with daily high dose IV vitamin K1. Repeat INR
Plasmodium falciparum making up a 13% parasitemia. He was placed on quinine and doxycycline IV. The patient's family reported his recent travel to Nigeria. The patient denied travel history for fear of being isolated and	at 3 months normalized to 1.3 and the treatment stopped. Discussion Brodifacoum also known as super warfarin is a 4-
quarantined. He responded well to treatment and discharged to complete courses of quinine and doxycycline. Discussion	hydroxycoumarin vitamin K antagonist. Because it is lipophilic it has an extremely slow half-life which some studies have shown to between 16-36 days in humans but in rats have been shown to be 20-130 days
This case illustrates the need for a high index of suspicion for malaria in any patient with an acute febrile illness, especially with evidence of hemolysis. Our patient denied any history	Greater than 90% of rodenticides in the United States consist of superwarfarin with brodifacoum accounting for the majority of this. In adults, the usual route of superwarfarin toxicity is usually
of recent travel to areas with endemic malaria due to his misconception about quarantine. The patient had a fear of being quarantined as case of highly infectious disease	oral by accidental, intentional (suicidal vs homicidal), or accidental (inhalation or by direct skin contact). Presentation usually varies from mild to severe. These clinical features could
because he just returned back from West African country where Ebola epidemic is ongoing. This made diagnosing malaria much more difficult. Clinicians must be aware of the	include epistaxis, menorrhagia, hemoperitoneum and even subarachnoid hemorrhage. Definitive diagnosis is made with LC- MassSpec. Phytomenadione (K1) is more effective at reversing anticoagulation than other menadione (K3). Super warfarin
public perception of quarantine to care for certain populations. The increase in human travel and the current	poisoning should be considered in the differentials for patients with upenpained bleeding with elevated congulation profiles

with unexplained bleeding with elevated coagulation profiles,

both aPTT and PT-INR in the absence of any relevant history of

bleeding disorder.

populations. The increase in human travel and the current political climate both contribute to this problem. While malaria is common, the recent case of Ebola in the United States should increase concern about other diseases in returning travelers.

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Intussusception as the first manifestation of HIV-AIDS	Internal Medicine at Queens Hospital Center
Introduction	Fahr's Disease, A Differential to Be Considered for Various
Intestinal intussusception is defined as the telescoping of a	Neuropsychiatric Presentations; An Unusual Case Report
segment of the gastrointestinal tract within the lumen of the	Introduction
adjacent segment and presents with mechanical bowel	Fahr disease is a neurodegenerative disorder affecting cerebral
obstruction (BO). Intussusception is rare in adults, accounting	microvessels presenting with diverse neuropsychiatric
for only 1 to 5 percent of BO. Here we describe a young man	manifestations [1]. Besides having a genetic etiology, it is associated
who presented with intussusception secondary to a primary B-	with metabolic derangements, infections, and other conditions [2].
cell Lymphoma of the lleum on the background of a yet	Population genomic analysis reveals that this is not as rare as
undiagnosed underlying Acquired Immunodeficiency Syndrome	originally thought, it has been underestimated and underdiagnosed (minimal estimated prevalence of variants of known genes is 4.5 p.
(AIDS).	10,000) [3]. Disease onset is usually in the fourth to fifth decade [4].
Case Presentation	Here an unusual case of fahr disease with early onset in 2nd decade
A 31 year old Nigerian man with no known medical history was	of life and pure psychiatric symptoms.
admitted to our hospital with persistent nausea, vomiting and	Case Presentation
crampy abdominal pain of 5 days duration. He also complained	20 year old female with no known past medical history was
of abdominal distention with constipation. On physical	admitted for acute onset abnormal behavior and paranoid delusions
examination, he was afebrile and had mild oral thrush. Abdomen was distended, tender to palpation and breath	for the past 2 weeks. There was no history of psychiatric disorders,
sounds were decreased on the right side. Computed	alcohol, tobacco, or illicit substance use.
tomographic scan of chest, abdomen and pelvis with contrast	Vital signs were normal. Physical exam was significant for young
showed small bowel obstruction secondary to an ileocolic	uncooperative female with brisk reflexes and unsteady gait. Laboratory examination showed HB 9.7, MCV 66, Calcium 5.9, Alb
intussusception, a 2.4cmx2.3cm hypodense mass in the left lobe	5.3, Phosphorus 5.8, PTH 11.3 and vitamin D 25 hydroxy 11.8 with
of the liver and an 8cmx5.6cm lung mass in the right middle	negative toxicology was found remarkable in labs. CT head showed
lobe. Patient underwent urgent exploratory laparotomy with	prominent basal ganglia calcifications with additional scattered
right hemicolectomy including the terminal Ileum and biopsy of	calcifications in the periventricular area (Figure 1). Calcium and
the liver mass. Post-operative period was complicated by low	vitamin D supplementation was started with gradual resolution of
grade fevers unresponsive to antibiotics. Urine and blood	symptoms. Follow up in clinic revealed no recurrence of symptoms.
cultures, RPR and TB-quantiferon were all negative. His labs	Discussion
showed persistent neutropenia prompting HIV testing which	Isolated psychiatric symptoms is rarely seen in patients with Fahr
came back positive for HIV-1 infection. His CD4 count was	disease. Bilateral basal ganglia calcifications are usually present. Symptoms include progressive neuropsychiatric findings including
87cells/mcl. Histology of the terminal ileum and liver mass	dementia, delirium, confusion, hallucinations, psychosis, mood
biopsy was consistent with Diffuse Large B-Cell Lymphoma.	disorders, panic attacks, irritability and aggression. Somatic
Patient was started on HAART and Bactrim prophylaxis.	symptoms such as Parkinson like movement disorder, seizure,
Oncologist recommended chemotherapy as outpatient. He was	headache, stroke, syncope and tremor might also be present [2,4,5].
subsequently discharged.	The association of calcium dysregulation, signaling and disturbed
Discussion	homeostasis and psychiatric disorders like schizophrenia and bipolar
Intussusception is a common cause of BO in children as	disorder was hypothesized [6]. Also, several disorders involving the
compared to adults. Intussusception develops typically due to a	basal ganglia like Parkinson's disease and Wilson's disease present
pathologic lead point within the bowel, secondary to the	with neuropsychiatric symptoms in addition to movement disorders [7].
presence of intra- or extra-luminal lesions (inflammatory	Fahr disease should be considered in the differential diagnosis of
lesions, Meckel's diverticulum, postoperative adhesions, lipoma, polyps, lymphoma and metastases). The lead point is pulled	new onset neuropsychiatric symptoms like mood disorders,
forward by normal peristalsis, telescoping or prolapsing the	cognitive disorder and hallucinations[8]. On the other hand, the
affected segment of bowel (intussusceptum) into another	differential diagnosis for basal ganglia calcification is broad including
segment of bowel (intussuscipiens).	neoplasms, infections, vascular etiologies, congenital syndromes,
An increased incidence of intussusception has been reported in AIDS	and metabolic causes. Brain calcifications particularly in patients
patients and is likely attributable to the high incidence of infectious	below 30 years old needs to be carefully evaluated for underlying
and neoplastic conditions of the bowel in these patients, such as	etiologies [9].
lymphoid hyperplasia, Kaposi's sarcoma, non-Hodgkin's lymphoma	Currently, symptomatic treatment is the only option available for Fahr disease patients, but treatment of associated conditions like
and cytomegalovirus (CMV) colitis. AIDS patients presenting with	hypoparathyroidism has been shown to improve neuropsychiatric
intussusception have been described in the literature, but only two	symptoms [10].
cases have been described where intussusception secondary to a	Conclusions
gastrointestinal AIDS defining malignancy led to the diagnosis of AIDS. Our patient's neutropenia and oral thrush pointed towards an	Fahr disease is a neurodegenerative disorder presenting with a wide
immunosuppressive state and we emphasize the importance of	array of neuropsychiatric symptoms. Further investigation of
considering HIV testing in eligible young patients with	organic etiologies is recommended in patients presenting with
intussusception.	neuropsychiatric symptoms and patients with evidence of cerebral
,	calcification.

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A NON-SMOKER WITH SMOKE IN THE HEART	Penetrating aortic ulcer "" surgical or medical management.
Moyamoya disease (MMD) is a rare, progressive steno-occlusive disease of the intracranial carotid arteries characterized by intimal dysplasia of the distal internal carotid and proximal cerebral arteries. An extensive basal telangiectatic collateral circulation develops which has the angiographic appearance of a puff of smoke (Japanese –moyamoya). This is primarily a cerebrovascular disease and is mostly seen in young Japanese patients. We report a case of severe stenosis in the distal left circumflex artery in a non-Japanese patient with previously diagnosed MMD.	Introduction A penetrating aortic ulcer (PAU) is a rare condition that most commonly develops in the descending aorta. It occurs when an atherosclerotic plaque penetrates the intima and progresses into the media. In the early stages, lesions are often asymptomatic. With progression, it leads to intramural hemorrhage (IMH) within the media, putting patients at risk for aortic dissection or rupture. We describe two patients with PAU, managed differently; based on associated comorbidities. Case Presentation
A 33-year-old Caucasian female with history of MMD and 2 CVAs presented with chest pain for 2 days. She did not give any history of headaches, blurry vision, palpitations, diaphoresis, loss of consciousness, abdominal pain, or orthopnea. Her only medication at home was aspirin. The patient had no history of hypertension, diabetes mellitus, or tobacco use. There was no family history of early atherosclerotic coronary artery disease (CAD). Physical examination revealed a slim female in minimal distress. Her BP was 129/84mmHg and heart rate 108 beats per minute. Lungs were clear to auscultation and she had a normal cardiovascular examination except tachycardia. She had no carotid or femoral bruits and lower extremity pulses were	An 83-year-old female, with history of hypertension, presented with worsening left sided back pain for several days. She denied chest pain, shortness of breath, dizziness, pain or numbness in extremities. On examination, she was hemodynamically stable, with normal heart rate and rhythm, and without any murmur. BP was 142/93. No difference in blood pressure was noted between the upper extremities. Chest was clear to auscultation. Contrast CT chest and abdomen showed a PAU measuring 3.3 cm with IMH, at the distal aortic arch. Transthoracic echocardiogram (TTE) showed left ventricular hyperkinesia with an ejection fraction of 75%. She was admitted to the intensive care unit and successfully underwent a thoracic endovascular aortic repair.
palpable. Neurologic examination revealed decreased touch sensation and diminished deep tendon reflexes on the left side. EKG revealed tachycardia with T wave inversions in leads III and slight ST depression in lead II. Acute CVA was ruled out with an MRI. Cardiac troponins were minimally elevated with peak of 0.12 ng/mL. An initial diagnosis of NSTEMI was made, and the patient loaded with aspirin and clopidogrel. A heparin infusion drip was also started and patient was monitored on telemetry till cardiac catheterization on the following day. Coronary angiography revealed single vessel CAD in the distal left circumflex artery, with 80% stenosis. Left ventricular filling pressures and ejection fraction were normal. A drug eluting stent was successfully placed in the distal left circumflex artery. The patient was discharged home on dual antiplatelet therapy, statin, beta blocker and ACE inhibitor.	The second case was a 56-year old obese male who presented to the ER with syncope. He had a history of recurrent cerebrovascular accidents without residual deficits, and pulmonary embolism 3 years ago. He was positive for lupus anticoagulant and anticardiolipin antibody, and was on warfarin. He was tachycardic with BP 142/97. Heart and lung sounds were unremarkable. Neurological examination was non-focal. CT angiography of chest showed no evidence of pulmonary embolism but was significant for a 4cm aneurysmal dilatation of the ascending thoracic aorta and a small PAU in the distal aortic arch. No aortic dissection or evidence of rupture was seen. TTE showed an ejection fraction of 50% with evidence of left ventricular diastolic dysfunction. Cardiology and cardiothoracic surgery recommended against surgical intervention, and patient was advised conservative management with outpatient follow up.
Although an association of MMD and renovascular disease is described, reports of CAD in MMD are rare and to the best of our knowledge, this is the first reported case in the Caucasian population. MMD is thought to affect the coronary arteries from fibrous intimal thickening, or a microvascular coronary perfusion disorder. Histopathology of these coronary lesions show a homogenous, soft intimal proliferation with minimum	Discussion Typically, PAUs are seen in older male patients with a history of hypertension, coronary artery disease as well as COPD. An ulcerated atherosclerotic aorta is usually a nidus for intramural hematoma formation. PAUs are considered higher risk if found in the ascending aorta or aortic arch compared to the descending aorta. Initially asymptomatic patients with

descending aorta. Initially asymptomatic patients with incidental PAU are followed with sequential imaging, and may be managed conservatively with blood pressure control. Patients with IMH due to a PAU at any portion of the aorta however often have a progressive declining clinical course, and are best managed surgically. However, the optimum management of PAU remains debatable with unclear best practices.

lipid deposition and without substantial inflammatory cell

involvement should be considered as one of the causes of

MMD about possible cardiac symptoms so that they seek

immediate medical attention if these symptoms occur.

infiltration. In young Caucasian patients with MMD, coronary

ischemic heart disease. It is imperative to educate patients with

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Drug induced liver injury (DILI) caused by Ciprofloxacin

Introduction: Ciprofloxacin is a broad spectrum fluoroquinolone antibiotic widely used for various infections. It has relatively low occurrence of adverse side effects. Hepatotoxicity is especially rare and relatively few cases have been reported thus far. DILI secondary to Ciprofloxacin can range from asymptomatic elevation in liver enzymes to severe and fatal liver failure. Case description: We present a 35 year old homeless male with history of intravenous (IV) heroin use and chronic untreated hepatitis C infection (Viral Load 37857IU/mL) who developed elevation of liver enzymes after 2 days of treatment with IV Ciprofloxacin prescribed for pre-septal orbital cellulitis. On admission his liver function tests were within normal range, however, on the second hospital day liver enzymes started rising with the peak levels on the 6th hospital day with aspartate-aminotransferase (AST) 926U/L, alanineaminotransferase (ALT) 896U/L, alkaline-phosphatase (ALP) 317U/L, total bilirubin 2.6mg/dl, direct bilirubin 2.0mg/dl. By excluding other potential causes of acute liver injury (infectious, autoimmune and other medications) and by demonstrating improvement and normalization of liver enzymes following cessation of Ciprofloxacin, we confidently conclude that Ciprofloxacin, indeed, was offending agent. Discussion: Idiosyncratic DILI is an uncommon adverse drug reaction with protean manifestation, from asymptomatic elevation in transaminase, jaundice and cholestasis to acute liver failure and even death. Antimicrobials remain the most common drugs implicated as causative agents of DILI along with herbal preparations. While Ciprofloxacin is widely used it is not frequently implicated as hepatotoxin. Calculation of R-ratio is used to differentiate between different patterns of the injury. Rratio = [ALT value/ALT upper-limit-of-normal]/[ALP value/ALP upper-limit-of-normal]. R-ratios of >5 are consistent with hepatocellular pattern of injury, <2 cholestatic, and if R-ratio is between 2 and 5 the pattern of injury is considered to be mixed. The diagnosis of DILI is challenging since there are no

pathognomonic clinical features or laboratory tests specific to this diagnosis. However, some characteristic features of DILI, including an appropriate latency period between drug ingestion and liver injury, and often characteristic biochemical pattern of liver test abnormalities. The Roussel-Uclaf Causality Assessment Method (RUCAM) is an objective tool that can help diagnose DILI. Due to significant morbidity and mortality, DILI remains an important reason for drug withdrawal from the market. Our patient developed DILI with hepatocellular injury pattern, Rratio was 8. The prognosis of each type is greatly dependent on which pattern of injury has occurred, and although bilirubin is not incorporated into the R value, it remains a central prognostic marker in calculating the Model for End-Stage Liver Disease score.

Conclusion: Albeit rare, Ciprofloxacin can cause DILI. Increased awareness about this association and having a high clinical suspicion will contribute to an early recognition and timely discontinuation of medication which in turn will improve mortality.

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GBS VARIANT MASQUERADING AS BOTULISM INTRODUCTION

Acute and subacute onset of weakness involving the extraocular, oropharyngeal, neck and chest wall muscles can present as a diagnostic dilemma to clinicians. Multiple possible etiologies of these symptoms such as Botulism, Myasthenia Gravis and Guillain-Barre Syndrome can require markedly different modes of treatment.

CASE DESCRIPTION

A 76 year old male with a history of mechanical dysphagia secondary to esophageal stricture presented at an outside hospital with worsening dysphagia, gait dysfunction, poor oral intake and syncope. He was intubated for stridor and hypoxia at presentation and transferred to our hospital MICU for higher level of care. A nasopharyngolaryngoscopy revealed bilateral vocal cord paralysis, prompting a concern for an acute neuromuscular junction process like Myasthenia or Botulism. After stabilization on a ventilator, the patient underwent a tracheostomy on day 3 of admission and was transitioned to a tracheostomy collar. His mentation remained at baseline, and physical exam showed normal motor strength in extra-ocular and cervical muscles, upper and lower extremities with slight hyporeflexia in the upper extremities. Work up revealed a negative anti-AChR Ab, intact intracranial vasculature on CT angiography and ventriculomegaly on MRI Brain. An EMG study demonstrated patchy, moderate to severe, sensorimotor neurogenic process indicating peripheral nerve denervation consistent with acute inflammatory demyelinating polyneuropathy(AIDP). A lumbar puncture was done which revealed albuminocytologic dissociation with elevated CSF protein and absence of pleocytosis. However, Anti-GQ1b antibody was negative. Based on above, a diagnosis of Guillian-Barre Syndrome variant involving bulbar muscles was made and patient was started on a 5 day course of IVIg. He showed clinical improvement in phonation and overall muscle strength. Follow up laryngoscopies showed improvement in vocal cord abduction. His overall respiratory status also improved with decreasing oxygen requirement and decreased need for tracheostomy suctioning. He continued to have moderate pharyngeal dysphagia and required placement of a jejunostomy tube for feeding. His hospitalization was also complicated with development of aspiration pneumonia. He was eventually discharged to rehab on a tracheostomy collar and J tube after a total of 6 weeks of hospitalization and subsequently discharged home after suitable progress in physical rehabilitation. DISCUSSION

The above case is an illustration of the often unusual clinical presentations of AIDP and its variants, specifically the Miller-Fisher variant in this instance. The occurrence of acute or subacute descending paralysis with involvement of bulbar muscles and respiratory failure can often divert clinicians to a diagnosis of either Botulism or a neuromuscular junction disorder like Myasthenia Gravis. Early identification of this syndrome with demonstration of albuminocytologic dissociation on CSF and EMG findings of a patchy sensorimotor involvement of peripheral nerves is essential to prompt treatment with intravenous immunoglobulin and prevention of further, potentially fatal deterioration.

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	PULMONARY EMBOLISM , A LIFE THREATENING COMPLICATION IN
A Rare Presentation of Bacteremia due to	COLD AGGLUTININ DISEASE
Cellulosimicrobium cellulans as a Result of Severe	This is a case of a 51-year-old female, significant past medical history, no known drug allergies, who presented to the Emergency
Immunodeficiency	Department with jaundice, fatigue and chills. She admitted to using
Introduction:	a herbal medication called "Belly Fat Blast― for two weeks prior to
Cellulosimicrobium cellulans is a gram positive bacterium found	presentation. Physical examination was unremarkable except for
in the environment that rarely causes infections in humans.	scleral icterus. Serial labs indicated worsening Normocytic Anemia
Only a few cases have been previously reported associated with	and Unconjugated Hyperbilirubinemia. Alcohol and Drug toxicities
immunocompromised individuals with endocarditis, end stage	were negative. Chest X-ray was negative for acute process and Cat
renal disease, and soft tissue infections. Here we describe a	Scan of the abdomen and pelvis ruled out any gallstones, liver mass
case of Cellulosimicrobium cellulans associated with	or lesions suspicious for malignancy. Further workup confirmed
Myelodysplastic Syndrome.	hemolysis. Red Blood Cell morphology demonstrated Rouleaux, and
Case Presentation:	indirect Coombs test was positive with antibody identified as Cold Autoantibodies. Patient was started on high dose Prednisone and
A 59 year-old male with past medical history of lung cancer	kept in a room maintained with space heaters.
(unknown which type) status post left lower lobectomy,	Despite treatment, Patient's Jaundice and Anemia worsened and
hypertension, coronary artery disease with stents,	her hemoglobin dropped critically low. She was transfused four
myelodysplastic syndrome (MDS) presented to the emergency	units of packed red blood cells. Rituximab was added to her
department with complaint of pressure-like chest pain. He had	treatment regimen. Further workup to determine the cause of cold
recently received low dose oral chemotherapy with Azacitidine	agglutinin disease ruled out any infectious or malignant process.
and blood transfusion for hemoglobin of 6.6g/dL a week prior to	On day four of admission, Patient was in respiratory distress with
the admission. Physical examination was remarkable for generalized petechiae, temperature 39.4°C, heart rate 102	hypoxia. CT Angiography confirmed Pulmonary Embolism in the
beats per minute, respiratory rate 22 breaths per minute, blood	Right Main Pulmonary Artery with extension into the upper, middle and lower lobe segments. Pulmonary Embolism was treated with
pressure 104/55 mmHg. His initial labs revealed: WBC: 5.22 x 10	Enoxaparin. Anemia and Jaundice resolved. She was discharged on
9/L, Hgb: 7.6 g/dL, PLT: 7,000K/UL. He was admitted to medical	tapering of Prednisone and oral anticoagulant.
ICU for sepsis in an immunocompromised patient. Chest xray	Relevant Labs:
revealed right lower lobe pneumonia and he was treated	Hemoglobin/Hematocrit (ED): 9.3/26, MCV 95.4 FL
empirically with Vancomycin, Meropenem and Azithromycin.	Hemoglobin/Hematocrit (Day two): 5.8/15, MCV 98.5 FL.
Despite treatments, he clinically deteriorated and WBC	LFT: T. Bilirubin 16, Direct Bilirubin 0.7, AST 26, ALT 27,
decreased to 0.67 x 10 9/L with ANC 349. Voriconazole was	Alk.phosphatase 63
added to the regimen since there was suspicion for fungal	Urine Analysis: pH 6.5, urine urobilinogen 1.0. Urine Toxicology negative
infection. The blood cultures drawn initially showed	Peripheral Smear positive for Rouleaux formation, extensive
Cellulosimicrobium Cellulans. His antibiotics were adjusted to	clumping of RBCs.
cover for Cellulosimicrobium with Vancomycin, Gentamycin,	Hepatitis A, B, C panel: Non-Reactive ANA screen negative, C3 119,
Meropenem, and Voriconazole. He then developed multiple	C4 27 ; IGG 1315 mg/dl
hemorrhagic blister and area of necrosis in his left and right	IGA 205 mg/dl;IGM 124 mg/dl
antecubital fossa. His ANC decreased to 263. Due to patient's	Total protein 6.9
low hemoglobin and platelets he was not a surgical candidate	Mycoplasma pneumonia IgM: 74
for skin biopsy. His hemoglobin worsened to 5.6g/dL with no	Malaria Prep/Giemsa stained: negative Rubeola Ab IgM < 1:20 Not detected;
clear causes of bleed identified. After a few weeks of receiving supportive treatment with blood and platelet transfusions and	Rubeola Ab IgG 1.20: Immunized
aggressive antibiotic treatment, he ultimately expired.	Rubella Ab IgM < 20
Discussion:	Measles IgG > 300: immunized
Cellulosimicrobium cellulans is a gram positive bacterium that	Cardiolipin Ab IgM 59
rarely causes infections in humans. Cases of Cellulosimicrobium	Cardiolipin IgG <14
spp. are very limited and has usually been associated with bone	Flow Cytometry: marked anemia with numerous nRBCs,
marrow transplantation, human immunodeficiency virus, post-	Spherocytes and polychromasia, several myelocytes.Blast
transplant patients, and tumor-induced immunosuppression.	population not identified. Monocytic gated cells unremarkable. Discussion: Cold agglutinin disease is an auto immune hemolytic
Most cases have showed eradication of Cellulosimicrobium	anemia, with known complications of anemia, acrocyanosis, fatigue
spp.after its source has been identified with foreign objects such	and or dyspnea and hemoglobinuria caused by hemolysis. No
as central venous catheters and the removal of these devices.	conclusive data is available to link Pulmonary Embolism with Cold
Our case documents Cellulosimicrobium spp. as an	Agglutinin Autoimmune Hemolytic Anemia.
opportunistic pathogen in an immunocompromised individual	Whenever encountered with cold agglutinin disease, potentially life-
and the mortality associated with this organism despite the use	threatening complication of Pulmonary Embolism should be
of appropriate antibiotics and supportive measures provided.	considered and prophylactic anticoagulant therapy must be
This case highlights the importance of early diagnosis and	instituted. Further studies are required to quantify the risk of
management of this organism as we provide care for the patient	Pulmonary Embolism in patients with Cold Agglutinin Autoimmune Hemolytic Anemia in order to implement optimal prophylactic
population who are immunocompromised.	regimens.

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When Tremors Become Eternal Rigors	Rheumatology, Maimonides Medical Center, Brooklyn, NY
	Step
Paraneoplastic syndrome is a phenomenon mediated by	Maimonides Medical Center
immune or humoral response to malignant cells. This syndrome	
is typically seen in middle-aged to older patients suffering from	Metacarpal Bone Tuberculosis Mimicking Rheumatoid
lung, breast, ovarian, and lymphatic cancers. Manifestations fall	Arthritis Flare
into one of four categories: endocrine, neurological,	Artifitis flare
mucocutaneous, and hematological.	Pain in the hand due to an acute rheumatoid arthritis (RA) flare
	is common and usually treated with oral corticosteroids. Yet
A 73 year old female with history of Rectal Melanoma presented	since RA patients are at risk of immunocompromise due to
with tremors in her lower extremities. She had been diagnosed	chronic steroid use and other immunosuppressive agents, care
with mucosal melanoma in 2003 and refused treatment until	
2016 when she underwent abdominoperineal resection and end	providers must be aware that other underlying conditions - such as tuberculosis - may create symptoms that mimic these flares.
colostomy due to significant anal bleeding. Since then she has	A 76-year-old man with a history of RA presented with two
been receiving Nivolumab due to metastases seen on PET scan.	months of progressive pain over the dorsal aspect of his left
The tremors started after her surgery last year and were initially	third metacarpal, associated with erythema and swelling. He
intermittent but suddenly worsened the day prior to admission.	also described fever and chills for two weeks prior to
This prevented her from ambulating and maintaining her	presentation. He denied any insect bites, trauma or drainage
activities of daily living, so she came to the ED. Neurological	from the hand. At this time, he was seen by his rheumatologist,
exam was unremarkable other than tremors. MRI ruled out	who treated him for an acute rheumatoid arthritis flare by
spinal or cerebral involvement. She was started on Clonazepam	increasing his daily prednisone dose. The patient had been on
and Valproic acid with mild improvement of her tremors but	weekly methotrexate and low dose prednisone for many years.
then started to develop Parkinsonian features. There was a	Despite the steroid therapy, the pain continued to worsen and
concern for adverse drug reaction, limbic encephalitis and	he eventually presented to the emergency department as a
paraneoplastic syndrome, so lumbar puncture and autoimmune	result. Physical examination revealed a warm, erythematous,
workup were completed. Cytology showed no malignant cells in	swollen, and tender area surrounding the left third metacarpal.
the spinal fluid but serology revealed Anti-Glutamic Acid	Laboratory evaluation revealed elevated ESR and CRP, without
Decarboxylase (Anti-GAD) antibodies. Her neurologic symptoms	leukocytosis. Radiographs of the left hand revealed evidence of
worsened to areflexia, quadriparesis, and ophthalmoplegia, so	osteomyelitis of the distal half of the 3rd metacarpal. The
she was emergently given pulse dose steroids and intravenous	patient underwent incision and drainage followed by treatment
immunoglobulin (IVIG). As there was no improvement in her	with broad spectrum antibiotics. Acid-fast bacilli smear was
symptoms, she underwent a session of plasmapheresis but	positive and wound cultures ultimately revealed Mycobacterium
expired later that night.	tuberculosis complex (MTB). The patient was started on
	Rifampin, Isoniazid, Pyrazinamide, Ethambutol (RIPE) therapy.
This patient's symptoms fall under the subset Progressive	Chest radiograph revealed a miliary pattern, suggestive of
Encephalomyelitis with Rigidity and Myoclonus (PERM), which is	disseminated TB. The patient was placed on airborne isolation,
a variant of Stiff Person Syndrome (SPS). SPS has an incidence of	and subsequent sputum cultures were positive for MTB. The
1:1,000,000 and is strongly associated with Insulin Dependent	diagnosis was confirmed as MTB by PCR, which was positive
Diabetes Mellitus as they share the same Anti-GAD antibody.	from both wound and sputum. The patient's condition gradually
Only a small subset, about 5%, will present as paraneoplastic	improved and he was discharged on RIPE with follow up by the
and are most often associated with breast adenocarcinoma and	local Department of Health.
small-cell lung carcinoma. Paraneoplastic SPS tends to affect the	Immunosuppressive therapy places patients at risk for
arms and neck, then quickly progresses causing severe pain.	opportunistic infections, including tuberculosis osteomyelitis.
Melanomas have been associated with a paraneoplastic	This report highlights the importance of obtaining a thorough
syndrome resulting in retinopathy but SPS has not previously	history and pertinent review of systems, including the use of
been described with this type of cancer. First line therapy for	immunosuppressive medications such as methotrexate and
SPS begins with benzodiazepines which increase GABA activity	long-term steroids. In patients with RA, tuberculosis of a
to enhance muscle relaxation and prevent convulsions. IVIG is	metacarpal bone may mimic the more common flare of their
the best second line treatment for refractory cases. Plasma	disease. Care providers must maintain a broad differential
exchange has been used to suppress the immune system but	diagnosis when the presenting symptoms are at all unusual,
efficacy is unclear at this time. Unfortunately, this patient	because a delay in treatment could result in further joint

destruction, amputation, or worsening of a previously

undiagnosed systemic illness, such as tuberculosis.

presented too late in the course of her disease when even

salvage therapies would have been unlikely to be efficacious.

Mariam Saeed MD

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LEVAMISOLE-ADULTERATED COCAINE INDUCED PAUCI-IMMUNE GLOMERULONEPHRITIS

BACKGROUND:

Cocaine is a commonly abused illicit drug in USA. Levamisole, a common additive to cocaine, acts as a bulking agent and also potentiates the effect of cocaine. We report a rare case of levamisole-adulterated cocaine induced pauci-immune rapidly progressive glomerulonephritis.

CASE REPORT:

A 67 year old male, active cocaine user for 30 years presented with a two week history of nonproductive cough and fatigue. Physical exam was unremarkable. Initial labs showed potassium of 5.9mmol/L, BUN 21mg/dL, Creatinine 2.3mg/dL and bicarbonate 27mmol/L. Urinalysis showed large amount of RBCs, with sheets of RBCs on microscopy. Urine protein/creatinine ratio was 1.5. Chest xray revealed a medial right upper lobe infiltrate and patchy left upper lobe infiltrate. Subsequently CT chest showed bilateral patchy infiltrates and multiple nodules and mediastinal lymphadenopathy. Bronchoscopy was performed with BAL cytology reporting abundant pigmented pulmonary macrophages and lymph node FNA showing small mature lymphocytes. Meanwhile, the patient's creatinine rose rapidly from 2.3 to 7.1 within two weeks. AKI workup revealed p-ANCA titer (MPO negative) of 1:160 and RNP Ab titers of 2.1. Other autoimmune work up; including anti-GBM and complement levels were normal. Serum protein electrophoresis showed an M-spike of 0.8 g/dL with immunofixation showing IgG lambda monoclonal protein. Free kappa and lambda light chains were elevated with a normal ratio. Infectious workup including HBV, HCV, and HIV were negative with quantiferon indeterminate. Urine toxicology had been consistently positive for cocaine on prior ED visits. Renal biopsy revealed crescentic glomerulonephritis with fibrinoid necrosis. Immunofluorescence of the biopsy was negative for immunoglobulins, kappa and lambda light chains. Furthermore, electron microscopy did not show any dense deposits in the glomerular basement membrane or in the mesangium. DISCUSSION:

Levamisole-adulterated cocaine has been associated with ANCA positive cutaneous vasculitis but renal involvement is relatively uncommon. In this case, given that immunofluorescence of the kidney biopsy was negative for immunoglobulins, kappa and lambda light chains; plasma cell dyscrasia is unlikely. Findings on electron microscopy also confirmed this. Elevated kappa and lambda light chains are commonly seen in renal failure but is unlikely due to plasma cell disease given a normal K/L ratio. The low positive RNP Ab raised the possibility of an alternative autoimmune process that can be contributing. Although not impossible, there is no clinical history to suggest any of the autoimmune conditions that can be seen in the overlap syndromes associated with a positive RNP. The negative ANA and normal complements would be extremely unusual for SLE nephritis.

CONCLUSION:

This case brings cocaine abuse and levamisole-associated complications into light. Levamisole-adulterated cocaine induced vasculitis, although a diagnosis of exclusion should be kept in the differentials of all cocaine users presenting with vasculitis and nephropathy with positive ANCA titers.

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METHADONE INDUCED ADRENAL INSUFFICIENCY

INTRODUCTION:

Methadone has been increasingly used for pain management and in the treatment of opiate dependence. Long term opioid effects on the endocrine system, especially hypogonadism, have been commonly reported but methadone induced secondary adrenal insufficiency is still not well recognized. We have an interesting case report of secondary adrenal insufficiency cause by long term methadone use.

CASE PRESENTATION:

A 56 year-old-female with past medical history of Diabetes Mellitus Type II, Hypertension, Hyperlipidemia, Depression, prior heroin use (insufflation only, for eight years, now on methadone for four years) presented with bilateral leg swelling and dizziness. Review of systems was unremarkable for headache, nausea, vomiting, visual field defect, diaphoresis, chest pain, abdominal pain, changes in bowel or urinary habits. Physical exam was remarkable for BP of 74/49 mmHg, HR of 100 bpm, mild bilateral non-pitting edema. Labs were remarkable for baseline normocytic anemia, normal serum electrolytes, creatinine of 1.8mg/dL and BUN 30mg/dL. Random blood sugar ranged between 94-180 mg/dL and Fasting blood sugars 60-100 mg/dL. The patient's blood pressure remained low despite aggressive fluid resuscitation, prompting further investigation. Morning cortisol level was 2.34 mcg/dL. A cosyntropin test showed adequate response with 17.4 mcg/dL at 30 minutes and 20.31 mcg/dL at 60 minutes. 6am ACTH was 18 pg/ml. Further testing showed DHEAS of 1.1 ng/ml, TSH of 1.56 mlU/L, free T4 of 0.997mg/dL, IGF-1 100ng/ml, FSH of 70.3 IU/L and LH of 43.1 IU/L. MRI brain was negative for pituitary masses. A diagnosis of secondary adrenal insufficiency was made. The patient was discharged home on hydrocortisone 10mg oral daily.

DISCUSSION:

Endocrinopathies secondary to chronic opiate use, are hard to diagnose, as many patients have little understanding of their symptoms resulting in a delay in seeking medical attention. Opiates, including methadone primarily act by suppressing the hypothalamic-pituitary-adrenal axis causing central adrenal insufficiency. However other pathways have been implicated in some studies suggesting a blunted response of cortisol to ACTH. Early recognition, hydration and glucocorticoid treatment are crucial to the management of such a case. Methadone should be subsequently weaned and discontinued. CONCLUSION:

Opioids, including methadone can cause endocrine dysfunction and may affect more than one pathway. Further studies are required in recognizing the effects of methadone on the endocrine system to guide clinicians in the diagnostic work up and management of these patients.

Quasim Sajawal MD Maria Salgado MD Gurgit Inder Sidhu, Saadia Rizvi, Meron Debesai **Coney Island Hospital** School of Medicine, Mount Sinai St. Lukes-West, Solen Extra Pulmonary Legionellosis "" A case of Legionnaires' Center / Albert Einstein College of Medicine Disease Associated Severe Tubulointerstitial Nephritis. "CHASING THE DRAGON" A CASE REPORT Legionnaires' disease was first recognized in 1976 at the American Legion Convention in Philadelphia after an outbreak of symptoms occurred amongst the attendees including fever, shortness of breath, chest pain, and tiredness. Of the 182 patients afflicted, 4 patients developed renal failure as a complication requiring dialysis. Here, we report a unique case of a patient presenting with acute renal failure who subsequently mitochondrial dysfunction. tested positive for urine legionella antigen. Following the Case report: A 37-year-old male with past medical history of initiation of appropriate antibiotic therapy and temporary hemodialysis, the patient had complete recovery of renal MICU after one-week history of altered mental status, function without the need for corticosteroids. bradyphrenia and selective mutism. One-month prior A 36 year old African American man with no medical history and not on any medications who presented with complaints of generalized malaise and feeling unwell for one week. He also reported decreased oral intake and urine output. On examination, patient was lethargic, tachypneic at 26 breaths per stimuli with no spontaneous speech, but following simple minute, and tachycardic at 105 beats per minute. Laboratory tests showed white count of 18.1 K/mcL, BUN of 157 mg/dL, symmetric. Motor exam was significant for bilateral lower creatinine of 24.99 mg/dL, and sodium of 128 mmol/L. Patient had a metabolic acidosis with anion gap of 45 mEq/L but normal osmolar gap. Urinalysis showed no red blood cell casts, and trace protein. Chest radiography revealed bilateral lower lobe atelectasis. Renal ultrasound was unremarkable. In view of (Lorazepam was given before MRI). CT head showed acute renal failure, hemodialysis was initiated. Due to new onset of productive cough and fever spikes, antibiotics were broadened to include azithromycin once urine legionella antigen MRI demonstrated increased T2 signal intensity in the tested positive. Renal biopsy reported severe tubulointerstitial

nephritisâ€"likely legionnaires' disease associated in view of negative serological work up, no predisposing factors for renal disease, and noted improvement in renal function. Patient was continued on hemodialysis and received three weeks of azithromycin with resolution of renal failure.

In this case, legionella was not considered on the differential at initial presentation with renal failure. Pulmonary manifestations were delayed in this patient, hence appropriate work up and antibiotics were not introduced until later in the hospital course. Corticosteroids are usually administered for acute interstitial nephritis, however no steroid therapy was initiated yet the patient had complete recovery of kidney function.

Legionnaires' disease is one of the common causes of severe community acquired pneumonia. Extrapulmonary legionellosis is rare and patients often have a dramatic presentation. In these circumstances, the index of suspicion for this infection is low and can be overlooked. Acute tubulointerstitial nephritis is a rare complication of Legionnaires' disease and the mechanism is incompletely understood. This patient's case demonstrates that early diagnosis and prompt management of legionnaires disease can lead to full recovery. It is a nationally notifiable disease which is over treated but frequently underdiagnosed, therefore it is imperative to include legionella in the differential diagnosis of patient's with pulmonary symptoms and acute renal failure.

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Background: "Chasing the dragon" is a method of heroin vapor inhalation in which the drug is placed on aluminum foil, heated producing a thick smoke, that resembles a dragon's tail and inhaled with a straw or other tube-like structure, leading to spongiform leukoencephalopathy, that causes neuronal loss by

migraine, urolithiasis and chronic back pain was admitted to the presentation the patient was seen by his family with bags of heroin after an altercation. The initial evaluation was notable for urinary and fecal incontinence. Neurological examination revealed that the patient was lethargic, unresponsive to verbal commands. Pupils were equal reactive to light and the face extremity weakness (1/5) with normal tone. Tendon reflexes were 2+ throughout, Babinski sign was negative. Laboratory findings were significant for mild CPK elevation (249U/L), and positive opiates and benzodiazepines in the urine toxicology symmetrical edema with mass effect in the bilateral cerebral hemispheres and central hypodensities in the midbrain. Brain cerebellum bilaterally and cerebellar peduncles. MRA evidenced normal cerebral vasculature. Electroencephalography showed bilateral low to moderate-voltage theta activity without epileptiform abnormalities. LP was deferred given the presence of significant cerebral edema. HIV serology was negative. Diagnosis of an acute toxic leukoencephalopathy secondary to heroin inhalation was made based on his history of possible heroin use, the presence of opioids in the urine toxicology and classical MRI findings. Antioxidant therapy with Coenzyme Q10, vitamin E and C were started. The patient, subsequently, was transferred to the regular ward where his symptoms recovered minimally over the following 4 weeks and was discharged to a rehabilitation facility.

Discussion: This case highlights the importance of clinical suspicion of toxic leukoencephalopathy in patients with heroin use who present with acute neurological findings. Clinically, this condition can progress from cerebellar signs and motor restlessness to pyramidal and pseudobulbar signs; and ultimately, in a minority of patients to spasms, hypotonic paresis, and death. MRI is essential in the diagnosis, diffuse increase in T2 signal in cerebellar, brainstem, and supratentorial white matter tracts are pathognomonic findings. The mortality ranges from 23 to 48%, it may be improved with early recognition and coenzyme Q initiation.

Conclusion: "Chasing the dragon― is a rare condition but possible to recognize. T2 weighted MRI with FLAIR are the imaging modalities of choice and can lead to the early initiation of Coenzyme Q therapy.

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, , ,	
Kikuchi-Fujimoto: not a typical case of fever and	SPONTANEOUS CORONARY ARTERY DISSECTION: A
lymphadenopathy in a young female.	DIAGNOSTIC CHALLENGE
Introduction	Case Presentation:
Kikuchi-Fujimoto disease (KFD) is a rare, benign, and self-limiting	A 49-year-old African-American woman with history of asthma and
condition usually characterized by cervical lymphadenopathy and fever. Although KFD has been observed in racial and ethnic groups	hypertension presented to the hospital with sharp, non-radiating,
worldwide, to date only 9 cases have been reported among Nepali	substernal chest pain associated with nausea and diaphoresis for
women. Of these 9 cases, none have had thrombocytopenia, axillary	one hour. Vital signs and physical exam on admission were unremarkable. Electrocardiogram was notable for new deep T-wave
lymphadenopathy, and positive systemic lupus erythematosus (SLE)	inversions in leads I, II and V2 through V6 without any ST-segment
serology. We present an interesting case of a 33 year-old Nepali	changes compared to her baseline. Serum troponin I biomarker was
female with a history of treated latent tuberculosis who presented	elevated to 1.2. A transthoracic echocardiogram showed severe left
with a 1-week history of fevers, rash, and lymphadenopathy.	septal, anterior, inferior and lateral apical wall hypokinesis with a
Case Report	reduced ejection fraction of 35-40%. Aspirin, clopidogrel, and
A 33 year-old female was admitted to our Internal Medicine unit for	atorvastatin were administered and an intravenous heparin infusion
a 1-week history of fevers, lymphadenopathy, rash, and peri-orbital swelling. CT imaging demonstrated significant cervical, axillary, and	was initiated. Emergent cardiac catheterization revealed a long
mediastinal lymphadenopathy. Lab work revealed leukopenia,	dissection in the mid-segment of the left anterior descending artery without extension into proximal or distal vessels. Revascularization
thrombocytopenia, elevated EBV PCR, and positive SLE serology.	was deferred due to risk of dissection propagation with
Lymph node biopsy demonstrated necrotizing lymphadenitis	manipulation. Patient was admitted to the ICU and the heparin
suggestive of KFD or lupus lymphadenitis. The rash and peri-orbital	infusion was discontinued. Despite escalating doses of nitroglycerin,
swelling were believed to be secondary to a drug allergy. Since she	patient continued to have ongoing symptomatic ischemia. An intra-
exhibited no clinical signs of SLE the clinical impression was that EBV	aortic balloon pump was placed and the patient was emergently
triggered both KFD and the positive SLE serology. Relevant History	taken to the operating room for LIMA-LAD coronary artery bypass
She immigrated from Nepal 7 years ago and completed treatment	graft surgery (CABG).
for latent Tuberculosis 3 years ago. No known drug allergies but she	Discussion:
completed a course of Amoxicillin prior to admission.	Spontaneous Coronary Artery Dissection (SCAD) is defined as non-
Hospital course	traumatic and non-iatrogenic separation of the coronary arterial
The patient was tachycardic, febrile, leukopenic, and	walls, creating a false lumen. Separation typically occurs between
thrombocytopenic on admission. Broad-spectrum IV antibiotics	the intima and media or between the media and adventitia with
were administered until sepsis was ruled out. Both CXR and CT imaging demonstrated significant bilateral cervical, axillary, and	intramural hematoma formation which compresses arterial lumen
mediastinal lymphadenopathy. Infectious work-up was negative	and decreases blood flow. Clinical presentation for SCAD can range from unstable angina, ST-elevation myocardial infarction,
except for an elevated EBV PCR despite a negative monospot test.	ventricular fibrillation or sudden death. SCAD primarily affects
Flow cytometry observed thrombocytopenia due to clumping so	women more than men with prevalence as high as 8.7% in women
autoimmune work-up was performed. Patient was noted to have	presenting with ACS below the age of 50 years. The current gold
elevated ANA, DsDNA, hypocomplementemia, +SSA, +RNP ab,	standard for diagnosing SCAD is coronary angiography. In patients
+antismith and +antihistone ab. Lymph node biopsy demonstrated necrotizing lymphadenitis suggestive of KFD or SLE. The patient was	diagnosed with SCAD, there is a high prevalence of fibromuscular
started on Solumedrol and upon improvement of her symptoms she	dysplasia (FMD). Other predisposing factors include postpartum status, multiparity, connective tissue disorders, systemic
was discharged home with outpatient Rheumatology follow-up.	inflammatory conditions, or hormonal therapy. The benefit of
Discussion	revascularization and medical therapies remains undetermined.
KFD is a rare lymphohistiocytic disorder with an unknown	Revascularization with PCI is associated with high failure rates.
etiopathogenesis that's commonly seen in young Asian women. Of	Aspirin is generally recommended due to low side effect profile and
the 9 reported cases among the Nepali population, none have had	known benefits in patients with ACS for secondary prevention. A
thrombocytopenia, axillary lymphadenopathy, and positive SLE serology. KFD is frequently misdiagnosed as lymphoma and is	small retrospective study demonstrated potentially higher incidence
associated with the development of SLE. There is no effective	of dissection recurrence with statins. Statins are recommended in patients with SCAD only if they have co-existing dyslipidemia.
treatment established for KFD since it is typically self-limiting.	Anticoagulation poses a potential risk of extending dissection and
However there may be a role for high-dose steroids since reported	should be discontinued once diagnosis is established. Beta-blockers
benefit has been observed.	may reduce propagation of coronary dissection with reduction of
We wish to highlight this diagnostic dilemma in a patient who had	arterial shear wall stress; however, its efficacy remains unclear.
significant lymphadenopathy, elevated EBV PCR, and positive SLE	SCAD is a rare cause of acute coronary syndrome. A high index of

outcomes.

suspicion should be maintained when treating young women

presenting with chest pain to avoid delay in diagnosis and adverse

significant lymphadenopathy, elevated EBV PCR, and positive SLE serology with no clinical signs of SLE. It's important to consider this pathology to prevent misdiagnosis. An unanswered question is whether steroid therapy should be considered as standard treatment in KFD.

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•	Toxic levels of leveteracetam causing Hypothermia
Tendon Rupture Associated with Concomitant Statin and	
Fibrate Use	Toxic levels of Levetiracetam causing hypothermia.
	Gurjit Inder S. Sidhu, Eleonora, Akker.
Statins are the most successful agents for reducing cholesterol levels and have been documented to decrease the incidence of	Department of Internal Medicine, Coney Island Hospital,
cardiovascular events. Fibrates are a class of medication often used	Brooklyn, NY. Introduction: Levetiracetam (LEV) has been approved in US as
in the treatment of dyslipidemias, primarily for lowering	an add-on treatment for partial, myoclonic and tonic-clonic
triglycerides. Combination of fibrate and statins are effective for	seizures. The precise mechanism by which LEV exerts its
treating patients with mixed or severe dyslipidemia, than either	antiepileptic effect is unknown. However, the drug binds to
type of drug alone. Combination therapy, however, is associated with an increased risk of adverse events including hepatic	synaptic vesicle glycoprotein SV2A, and inhibits presynaptic
dysfunction, renal insufficiency and disorders of the musculoskeletal	calcium channels reducing neurotransmitter release and acting
system. Myalgias, myositis and muscle rupture have been described	as a neuromodulator. This is believed to impede impulse
with combination use; however, tendon rupture remains a seldom	conduction across synapses. At present, the mechanisms of action have not yet helped identify a specific clinical efficacy
reported rare entity. We present a case of tendon rupture in a	profile for LEV.
patient on chronic statin therapy who was recently started on fibrates.	The drug is relatively well tolerated. The most common adverse
	effects include decreased bone mineral density, abnormal
A 53-year-old female with comorbidities of hypertension and	behavior, headache, vomiting, asthenia, infection, fatigue,
dyslipidemia was admitted with sudden onset of right calf pain. Pain	nasopharyngitis, irritability, dizziness, loss of appetite, cough,
occurred after standing from a chair, was of a pressure like quality, non-radiating and worsened with movement. Patient denied any	neck pain. We report a case of an African American female with
antecedent symptoms of tendinopathy, trauma or physical exertion.	toxic levels of LEV causing hypothermia and complete resolution of hypothermia with correction to recommended level of
Her medications included simvastatin 10mg daily,	medication.
hydrochlorothiazide, amlodipine, benazepril, ferrous sulfate, and	Case description: 60 year old African American female admitted
multivitamins. Three weeks prior to presentation, she was started	for altered mental status and found to have acute ischemic
on gemfibrozil 600mg twice daily. On examination there was prominent deformity and bruising of the	stroke. She was hypothermic since admission (94.9 F) and was
right calf. It was warm and tender on palpation and pain on passive	placed on warming blanket that was used continuously for 17
movement was out of proportion to apparent injury.	days. Multiple attempts to take the patient off warming blanket were unsuccessful since the patient became hypothermic soon
Her liver function tests, creatinine kinase and serum aldolase levels	thereafter. LEV level during the hospital stay was 111mcg/ml
within normal range. Ultrasound of right lower extremity was negative for deep vein thrombosis, however showed evidence of an	(Ref range: 12.0-46.0 mcg/ml). Dose was reduced and repeat
intramuscular hematoma. Magnetic resonance imaging of the right	level was still supratherapeutic (72.6 mcg/ml) a week later. LEV
lower extremity demonstrated a large posteromedial hematoma,	was then held for 48 hours and repeat levels were drawn before
superficial to the soleus muscle and deep to the medial	restarting the medication. The levels were < 2 and LEV in a
gastrocnemius, deemed secondary to a rupture of the myotendinous junction of the plantaris muscle, with an otherwise	reduced dose was restarted. Patient didn't had hypothermia once the level normalized and was off warming blanket since
intact musculature and no fracture.	then.
	Discussion: Differentials for hypothermia in this case included
Orthopedics was consulted and conservative management with	sepsis, hypothyroidism, hypoadrenalism, poorly controlled
analgesia and limb elevation was advised. Both offending agents	diabetes, hypothalamic dysfunction. Patient had extensive
were discontinued and pain improved notably in the following days. Statins promote an imbalance between the synthesis and	workup for these and all the differentials were subsequently
degradation of several collagenous and non-collagenous proteins.	excluded using imaging and lab studies. Although there were
This can induce microdamage in muscles and tendons. Gemfibrozil	many confounding factors in the case, the reversibility of hypothermia after holding the LEV strongly point towards the
can increase plasma levels of statins and thus the risk for toxicity.	medication as the most likely cause.
Tendinopathy most often occurs within the first year of therapy and the Achilles tendon is the most frequent site involved.	Conclusion: Thorough literature review revealed no reported
We suggest that prescribers should be aware of tendinous	cases of toxic levels of LEV causing hypothermia. It is not well-
complications related to statins, especially with co-administration of	known and reported, so a high index of suspicion is required for
fibrates. Regular tendinous examination may be required in statin-	patients on LEV and present with hypothermia. Since
treated patients on fibrates, particularly during the first year of	mechanism of action of LEV is yet unclear and hypothermia is
therapy. Fenofibrate should be used in patients who require combined therapy with a statin, whereas Pravastatin appears to	emerging as new treatment modality for status epilepticus, it is possible that one of the mechanisms by which LEV acts as an
have little muscle/tendon toxicity when used in combination with	antiepileptic is by relative decrease in body/brain temperature.
gemfibrozil.	

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Facial Pain: The wisdom beyond the teeth	
	CANAGLIFLOZIN INDUCED EUGLYCEMIC KETOACIDOSIS IN
Introduction:	TYPE II DIABETES MELLTUS
The common etiologies of facial pain are dental,	
temporomandibular joint (TMJ), maxillary sinusitis, salivary	Introduction
gland disorders and trigeminal neuralgia. As there are multiple	Diabetic ketoacidosis (DKA) generally occurs in patients with
causes, diagnosis can be challenging. We present a case of facial	Diabetes Mellitus (DM) and is a common cause of metabolic
and jaw pain secondary to ansa cervicalis impingement caused	acidosis requiring ICU admission. Although classically associated
by angiosarcoma of the thyroid gland.	with type I DM, multiple cases of DKA have been reported in
Case Presentation:	type II DM; however, it is rare for DKA to occur in type II DM
A 79 year old female with a past medical history of	without any precipitating event. The use of selective sodium
hypertension, diabetes mellitus, uterine cancer status post	glucose cotransporter-2 (SGLT2) inhibitors such as Canagliflozin,
hysterectomy and multinodular goiter for last 16 years with	has recently been associated with DKA without significant
prior fine needle aspiration cytology (FNAC) showing benign findings; who presented with a left side face and jaw pain for 6	hyperglycemia in patients with DM type II. We present a case of
months. Initially, the intensity of pain was 5/10. She did not	Canagliflozin (SGLT2 inhibitor) precipitated euglycemic DKA
have change in voice, difficulty breathing and dysphagia. Since	(euDKA) in a patient with type II DM. Clinical Case
the symptoms started, she lost 15 pounds. She had multiple	A 34 year old male with history of type II DM, was referred to
dental visits for the pain and had tooth extractions and root	hospital by his primary care physician(PCP) for nausea, non
canal surgery, without much relief. Possibilities of dental	bilious vomiting, and increasing symptoms of polyuria and
fracture, TMJ dysfunction or neuralgia were considered.	polydipsia since the day prior to admission(PTA). Patient was
Subsequently, her pain worsened to 9/10 in intensity. On	diagnosed with type II DM a year ago, after which he was
physical examination, no facial asymmetry was noted but	prescribed metformin. He took metformin for six months and
tenderness was present over left mastoid, left	then discontinued it on his own because he felt well. Since then,
temporomandibular joint and left lower jaw. She also had	he was not taking any medications, and was noncompliant with
tenderness on lateral jaw motion. Left thyroid mass was noted.	his diet. Two weeks PTA, he noticed worsening polydipsia and
Magnetic resonance imaging (MRI) brain and TMJ were non-	polyuria, for which he visited his PCP two days PTA. His blood
revealing. MRI cervical spine showed an enlarged left thyroid lobe nodule displacing the trachea to the right. Ultrasound neck	sugar was found to be elevated (419 mg/ dL) and he was
revealed multiple bilateral thyroid nodules with the dominant	prescribed a combination Canagliflozin and Metformin. Patient took this medicine for two days during which he developed
left nodule of 5.4 cm which was unchanged from prior imaging.	presenting symptoms. Vitals revealed HR 122/min, BP 134/74
FNAC of right node was benign and that of the left nodule	mmHg, Temp 97.8F, and Pulse oximetry 100%. On physical
showed atypia of undetermined significance. Thyroseq was non-	examination, patient was found to have dry mucous
diagnostic. Patient underwent left upper lobe partial	membranes, but rest of the examination was benign. Labs
thyroidectomy with incomplete resection due to involvement of	showed hemoconcentration without leukocytosis, serum
the carotid artery. Histopathology showed angiosarcoma of	glucose of 159, a normal renal function, mild hyperkalemia (5.6
thyroid. Post-surgery, patient had complete relief of pain.	mEq/L), and high-anion gap metabolic acidosis. Urine analysis
Discussion:	revealed glucosuria and ketonuria. Serum Beta-
Angiosarcoma is a rare vascular neoplasm that arises from	hydroxybutyrate was 13.9 mmol/L, venous blood pH was 7.06.
endothelial cells and accounts for less than 1% of head and neck malignancies. Even though thyroid involvement is rare, it can	Urine toxicology was negative. Patient was admitted to medical
develop in both goiterous and normal thyroid. The jaw and	ICU for management of ketoacidosis and was treated with IV fluids and IV insulin. His condition eventually improved over the
facial pain in our patient was attributed to the impingement of	next two days. He was discharged home on Metformin and
ansa cervicalis by the angiosarcoma of thyroid gland involving	Glipizide after undergoing education of his underlying condition.
the carotid artery. The ansa cervicalis is a thin loop of nerve	Discussion
fibres in the carotid triangle of the neck, formed by the ventral	SGLT2 inhibitors decrease glucose reabsorption at the proximal
rami of C1-C3 spinal nerves. It lies anterior to, or embedded	tubule, thereby inducing glycosuria. This leads to a fall in insulin
within, the carotid sheath and innervates the infra-hyoid group	levels, which increases lipolysis and ketogenesis. With
of muscles. Compression of ansa cervicalis can cause pain in the	increasing number of euDKA cases being reported, the FDA has
lateral face and neck.	issued a warning to patients and clinicians to look for symptoms
Facial pain has a myriad of causes and the diagnosis can be	of ketoacidosis with the use of SGLT2 inhibitors.
challenging. Hence, it is important for clinicians to be aware that	Conclusion
neck mass impinging on the ansa cervicalis could present with facial pain.	Recognizing euDKA in patients taking SGLT2 inhibitors is crucial
iaciai palli.	for timely and appropriate management of this condition.

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Nassau University Medical Center	,
,	A Case of Erosive Infective Endocarditis
Lethal MRI: A Case of Anterioe	Infective endocarditis (IE) is a condition involving
Acute infarction in the cervical region of spinal cord is very	inflammation of the inner lining and/or valves of the heart
rare especially in absence of trauma.	and has an annual incidence of 15 cases per 100,000 persons
It generally is due to a thrombotic or embolic lesion in the	in the United States. The most common organisms involved
anterior spinal artery. We present a	in both right and left sided IE include Staphylococcus spp.,
55-year old female who developed sudden onset	Streptococcus spp., and Enterococcus spp. Utilization of
quadriplegia while receiving a Magnetic	history, physical examination, Duke's criteria, blood cultures,
Resonance Imaging (MRI) scan.55-year- old female with	and imaging modalities such as transthoracic
breast carcinoma presented with acute onset quadriplegia	echocardiography and Transesophageal echocardiography
afterreceiving a MRI. She also had decreased deep tendon	facilitate in the diagnosis of IE. Review of the available
reflexes in bilateral upper and lower extremities, decreased	literature demonstrated the unusual nature of our case as
pinprick sensation from C5 to T4 dermatome with preserved	the organism involved deviated from the typical bacterial
vibration and proprioception. Initial computerized	causes of IE. Our case describes an atypical advanced
tomography (CT) of the head, cervical, thoracic, and lumbar	presentation of IE caused by Streptococcal milleri in a 31
spines were negative for acute pathology. Anterior spinal	year old Caucasian male who presented with left lower
artery syndrome (ASA) was suspected based on clinical	extremity swelling and erythema, along with a grade III pan-
presentation and intravenous steroids given. Lumbar	systolic murmur. TTE suggested vegetation on the atrial
puncture revealed elevated protein. Transthoracic	surface of the posterior mitral valve and TEE demonstrated a
echocardiogram showed mild dilatation of the ascending	moderate peri-valvular mitral regurgitation along with a 1.77
aorta and the right ventricle was not well visualized. The	cm freely mobile mass at the A1/P1 commissure. This was
patient developed acute respiratory failure requiring	most consistent with vegetation with an echo free space at
intubation and mechanical ventilation with a high positive	the posterior annulus near the vegetation noting possible
end expiratory pressure to maintain a saturation of 90%. CT-	perivalvular destruction. Patient underwent valvar repair
angiogram of the pulmonary arteries was done and revealed	without complications. This bacterium commonly affects
a saddle pulmonary embolism at the primary branching of	soft tissues and is rarely associated as a cause of
the right and left pulmonary artery. Thrombolytics was	endocarditis. Two literature reviews performed by Sandre &
administered and a heparin drip was started. MRI of the	Shafran (1996) and Stein & Panwalker (1985) found that out
spine revealed an abnormal T2 signal intensity within the	of greater than 130 cases, b-hemolytic streptococci
central aspect of the spinal cord from C2-T1 with bright	accounted for fewer than 5% of cases of IE, and S. milleri
diffusion sequence prominent at C4. Our diagnosis was ASA	accounted for 0% of cases, respectively. In a review of 29
secondary to a paradoxical emboli from the pulmonary	patients with infective endocarditis due to S. milleri isolates,
embolus through a possible patent foramen ovale. Patient	cardiac surgery was required in 62% of the cases; predictors
eventually stabilized and was extubated. She received	included acute valve dysfunction and intracardiac abscess.
physical therapy with a return of motor strength to 2/5 in	Mechanisms involved in the destruction of leaflets include:
her extremities. She was transferred to a nursing home for	direct involvement of Infectious agents, direct extension
further rehabilitation. Anterior spinal cord syndrome (ASA) affects the anterior two-thirds of the spinal with loss of	from aortic valve endocarditis, manipulated leaflet anatomy structure as a result of prior infective endocarditis, and
motor function below the level of lesion and loss of pain and	destruction caused by the aortic regurgitation jet on the
temperature sensation with preservation of proprioception	mitral valve leaflet. Indications for cardiac surgery include
and vibration(1). MRI is the investigation of choice for	heart failure, embolic episodes, large size of vegetation, and
diagnosis of spinal infarction. In the acute stage (<24	severe valvular lesions. Bacterial infective endocarditis most
hours), the MRI findings are usually normal, with no cord	commonly occurs in the elder population. Younger
enlargement, gadolinium enhancement, or increased signal	populations affected by IE typically are as a result of IDU or
intensity on T2-weighted imaging. Enhancement may appear	infection of congenital cardiac abnormalities.
after 1-2 days. Management of spinal cord infarction is	Staphylococcus aureus remains the most common
controversial. Steroids with or without anticoagulation can	organisms amongst these patients, however, a common skin
be used for secondary prevention. Patients should be	and mucosal flora, S. milleri, is a rare cause of IE. In our case,
encouraged to participate in rehabilitation programs. Only	although our patient presented with a systolic murmur and
10-20% of patients with ASA recover muscle function.	osler nodes, it remained an atypical presentation given lack
A history of sudden onset of deficits along with detailed	of other symptoms in the setting of advanced IE perivalvular
neurological examination, radiological	destruction. Additionally, our patient not only developed
images and a high degree of suspicion are essential in	bacteremia, but was also found to have endocarditis
establishing the diagnosis of ASA.	involving a normal native mitral valve.

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Glossal Edema: An Unrecognized Complication of	Montefiore New Rochelle Hospital
Chlorhexidine Gluconate	
	Recognition of Wellens waves as a sign of LAD stent
Title: GLOSSAL EDEMA: AN UNRECOGNIZED COMPLICATION	thrombosis leading to early angiographic intervention
OF CHLORHEXIDINE GLUCONATE	
Authors: Ricci St Jules DO, Khubaib Gondal MD, Dipen Patel	Introduction:
MD, James James MD, Gretchen Carpentiro MD, Maritza	Type II Wellens waves (biphasic T waves in V2-V4) are a
Groth MD, Department of Internal Medicine, John T. Mather	pathognomonic sign for proximal LAD occlusion which places
Memorial Hospital, Port Jefferson, NY	a significant amount of myocardium at risk. Its recognition is
Introduction: It is standard practice in the USA to use	of paramount importance in the acute care setting and although the patient is not having a STEMI consideration for
prophylactic chlorhexidine gluconate (CG) orally for intubated patients in order to reduce the risk of ventilator-	early angiography and PCI should be routine.
acquired pneumonia (Table 1). Adverse reactions to	early anglography and recisionid be routine.
chlorhexidine gluconate are typically mild, such as	Case presentation
tooth/tongue staining, throat irritation, dry mouth, or	54 years old female presents to ED with central chest pain
change in taste, though serious reactions - including	radiating to the neck, started 40 minutes prior to
anaphylaxis can rarely occur.	presentation with radiation to the neck and associated with
Case Description: A 62-year-old female with a medical	sweating. Patient was discharged one day before this ED
history of liver cirrhosis secondary to hepatitis C and alcohol	presentation. For the previous admission patient presented
abuse was admitted to the hospital with acute cholecystitis.	with similar chest pain. High sensitivity troponin was
The patient developed ARDS during hospitalization and	positive and in the context of clinical presentation patient
required intubation. Shortly after intubation, the patient	was diagnosed with NSTEMI. Coronary angiography was
developed oral edema with predominant swelling of her	performed and a 3.5 x 28 mm drug eluting stent was placed
tongue (Figure 1) along with a generalized, non –pruritic,	in the LAD. Patient was discharged the next day after the
maculopapular erythematous rash. Initially, these signs were	PCI. No past medical history. Smoker 1 packx10 years. No
attributed to the antibiotics (vancomycin/meropenem);	family history of cardiovascular diseases. Medication: dual
however, despite switching antibiotics, the rash resolved,	antiplatelet therapy, ACE inhibitor, statin, betablocker
yet glossal swelling worsened. The chlorhexidine gluconate	recently started; prior to last admission not on any
was then held and glossal swelling began to improve shortly	medication. Vitals at admission: BP 123/80mmHg, HR 76, sat
after. After 3 days, the glossal swelling completely resolved	98% on room air. ECG at admission: sinus rhythm, HR 75,
and the patient was given a dose of corticosteroids to	QRS axis +70, biphasic T waves DII, DIII, aVF, V2-V6 (Wellens
prevent any complications from pharyngeal edema, which	waves). Labs at admission: hsTnl 22.540, CK 996. The patien
would not be able to be assessed until after intubation. The patient was safely extubated. She was weaned off all	was sent immediately to coronary angiography and there
supplemental oxygen support without any further	was LAD stent thrombosis :with abrupt cut off at the beginning of the stent. The patient had aspiration of the
complications.	thrombus and balloon dilatation of the stent.
Discussion/Clinical Relevance: Although chlorhexidine has	
great antimicrobial properties with minimal - usually self-	Discussion:
limiting - adverse effects, it can cause severe - life	Verified stent thrombosis with significant increase in cardiac
threatening - reactions. There is substantial data regarding	enzymes points out to diagnosis of type 4 myocardial
chlorhexidine hypersensitivity and anaphylaxis in	infarction. Early recognition of Welles waves in patients with
Anesthesiology and Surgical literature (Table 2). In addition,	recent stent placement helps differentiate between stent
there is data suggesting chlorhexidine as an occupational	thrombosis (LAD stent) or a new acute coronary event (a
allergen, showing IgE mediated allergy in health care	new LAD occlusion) therefore in the adequate clinical
workers. Our case is a prime example of "any medication	context helps clinician to decide timing of angiography.
can cause any reaction, at any time.― Though we tend to	Residents in training in Internal Medicine ought to be
initially focus on "the usual culprits― when searching for	familiar with the Wellens waves and its clinical significance.
medication induced reactions, we shouldn't forget even the	
simplest of medications. As our case highlights we must	
remain vigilant for topical, especially oral liquid rinses,	
causing allergic and non-allergic reactions (Table 3) in our	

causing allergic and non-allergic reactions (Table 3) in our intubated ICU patients on polypharmacy.

Andreea-Constanta Stan M.D

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Left internal jugular venous thrombosis as initial presentation of inflammatory myopathy

Introduction

Inflammatory myopathies (IM) are a group of rare, chronic diseases featuring weakness and inflammation of muscles with periods of exacerbation and remission. Patients with IM are at increased risk of venous thrombo-embolism (VTE). We present a case of left internal jugular venous thrombosis as the initial presentation in patient with IM.

Case Presentation

A 73 year old female with past medical history of hypertension presented with redness and swelling of the face, neck and left arm which started one day prior to presentation. Examination showed edema of the face, neck and left arm. Range of motion of the left shoulder was restricted, and muscle strength was 4/5 on bilateral proximal upper and lower extremities. Ultrasound of the neck revealed deep venous thrombosis involving the left internal jugular vein. Patient was started on therapeutic dose of Enoxaparin. Extensive investigations were done to determine the etiology of DVT. Computed tomography (CT) head, thorax, abdomen and pelvis were negative for signs of malignancy. Anticardiolipin, phosphatidylserine and B2 glycoprotein antibodies were negative. ANA was positive with titre of 1:640 and nuclear speckled pattern. Patient was discharged home on Coumadin. Two months after discharge, patient presented with nausea, dysphagia, and proximal muscular weakness. Examination showed worsening of the bilateral upper and lower limb weakness. Proximal muscle strength was 2/5 with distal muscle strength of 5/5. The proximal muscle weakness did not fatigue or improve with repetitive strength testing. Aldolase and creatine kinase level were normal. Electromyography (EMG) was suggestive of myopathy without spontaneous activity. Left vastus lateralis biopsy showed muscle atrophy and features suggestive of IM. A trial of prednisone was started with significant improvement in symptoms. Discussion

Clinical manifestations of IM include symmetric and painless proximal limb paresis. Dysphagia or paralysis of respiratory muscles can also occur. The ANA is positive in over 50% patients with IM and the nuclear speckled pattern is the most common type.

The risk of VTE is 2-3 times higher in individuals with IM compared to the general population. The risk is highest in the first 1-2 years of diagnosis. The increased risk could be attributed to the up regulation of procoagulants, down regulation of anticoagulants like Protein C, inhibition of fibrinolysis and deleterious effect of oxidative stress on endothelial function during chronic inflammatory states. Therefore, it is important for clinicians to be aware that the risk of VTE is higher in patients with IM and can even be its initial presentation.

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AUTOIMMUNE NECROTIZING MYOPATHY: AS THE MUSCLES GOES THE LUNG FOLLOWS.

Introduction:

Necrotizing autoimmune myopathy (NAM) is a rare form of idiopathic inflammatory myopathy (IIM). The lung is one of the rarer sites of involvement in NAM. Here, we present a case of NAM with prominent respiratory symptoms presenting as nonspecific interstitial pneumonia (NSIP).

Case Presentation:

A 38-year-old female from Dominican Republic presented with fever, chills, myalgia and symmetrical muscle weakness for 3 weeks. She also had worsening dyspnea, pleuritic chest pain despite 2 courses of antibiotics as an outpatient for the same symptoms. Her medical history includes two first trimester miscarriages and recurrent provoked DVTs on anticoagulation. She was also suspected of having mixed connective tissue disease with systemic lupus erythematosus component, given positive ANA and Ro IgG, six months ago for which she had been on prednisone until 2 weeks prior to presentation. She was never on statin treatment. Examination was significant for hypoxia on exertion and proximal muscle weakness (4/5) on bilateral hip flexion. Laboratory studies were remarkable for leukocytosis, normal TSH, CK 45.94 mkat/L, LDH 8.07ukat/L, elevated ESR and CRP. Extensive infectious work-up was negative. Rheumatologic work-up was negative for ANA, Anti-Ro, anti-dsDNA, anti- Jo, anti-RNP, anti-Smith, Scl-70 and anti-SRP. Hypercoagulable work-up was only positive for anticardiolipin antibody. Computed tomography chest showed bilateral sub-pleural opacities in the upper lobe and patchy peripheral ground glass/reticular opacities in the lower lobes. These findings were worse compared to prior chest imaging performed five months ago for lung infection.

Patient continued to have fever, proximal muscle weakness, exertional dyspnea and hypoxia despite broad spectrum antibiotics prompting a lung biopsy. Biopsy showed findings consistent with NSIP and organizing pneumonia. Lung biopsy was negative for PCP, CMV, HSV staining. She underwent muscle biopsy which showed isolated scattered necrotic and regenerating muscle fibers without inflammation or vacuitis which confirmed the diagnosis of NAM. She was started on steroids and Mycophenolate mofetil with marked improvement in her respiratory and muscular symptoms on follow up.

Discussion:

NAM can be idiopathic or associated with connective tissue disease or statin use. Interstitial lung disease (ILD) is a devastating manifestation of NAM. It is associated with increased severity, corticosteroids refractoriness and poor prognosis. The association between IIM and ILD is postulated to be secondary to shared autoantigenic targets in the variable region of T cell receptors found on the surface of T cells of both the lungs and muscle. Starting double immunosuppressant very early in the disease process has good outcome. However, the lack of correlation between lung and muscle involvement leads to delayed diagnosis and compromises therapeutic response. Hence, it's imperative that clinician be aware about the association between NAM and ILD and performs further work up if there is lack of response to usual treatment.

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THE HUNT FOR THE CAUSE	sisters of charity hospital
Introduction:	DERMATOMYOSITIS: A RARE SIDE EFFECT OF A COMMON
Tolosa-Hunt syndrome (THS) is an idiopathic painful	DRUG
ophthalmoplegia caused by nonspecific inflammation	
(noncaseating granulomatous or nongranulomatous) of the	INTRODUCTION:
cavernous sinus or superior orbital fissure. It is an	Dermatomyositis (DM) is a rare disease most often considered a
uncommon disorder rarely seen before the second decade	complement-mediated idiopathic inflammatory myopathy manifested by classic skin findings and proximal muscle weakness.
of life. The disorder is part of a continuum with idiopathic	However, dermatomyositis may also be due to a paraneoplastic
orbital pseudotumor. Pathological involvement beyond the	syndrome associated with an underlying malignancy. Breast cance
cavernous sinus, superior orbital fissure, or apex of the orbit	is a common disease that may rarely present with uncommon
occurs rarely. Spontaneous remission can occur and relapses	features such as dermatomyositis that may divert attention from
may ensue in up to 40% of the patients.	the underlying malignancy. Treatment of dermatomyositis
Case:	simultaneously with treatment of the breast cancer usually leads t
A 32 year-old-male presented with left sided facial pain and	the regression of dermatomyositis. However, today we present the
headache for 2 weeks. The pain started as a pressure like	case of a 49-year-old female who had dermatomyositis not from t breast cancer itself but from the treatment of the cancer.
sensation, 4/10 in intensity, on his left malar area and	CASE:
worsened to a 10/10 continuous pain that involved the left	49 years old female with the recently diagnosed case of breast
eye. The pain was non-radiating and minimally responsive	cancer (grade 3 invasive ductal carcinoma) status post-treatment
to Tylenol and Advil. Over 2 weeks he developed numbness	with trastuzumab (HER-2 antagonist). After 4 weeks of receiving
and tingling on the left face, including his left upper lip and	therapy, she noticed a rash on her arms, face, chest, and trunk
nose. His left eye became swollen and he had double vision	followed by proximal muscle weakness in her upper and lower extremities with some difficulty swallowing. On exam, she was
and difficulty in chewing on the left side. There was no	found to have typical Gottron papules and positive shawl sign. Lab
history of fever, rash, sick contacts, recent travel or hiking.	work showed elevated serum aldolase and CPK (creatine
On physical exam, vitals were normal, and mild tenderness was noted around the left eye with swelling of the left	phosphokinase). MRI showed edema of proximal upper extremitie
eyelid. Pupils were 4mm, equal, round and reactive to light,	bilaterally, EMG showed evidence of myopathy. A skin biopsy
and the optic discs were normal. He had limited abduction,	demonstrated interface dermatitis further confirming the diagnos
adduction and downward movement of the left eye.	of dermatomyositis. She was started on high dose prednisone (60mg daily) that slightly improved her symptoms but because of
Temperature sensation was impaired in the left V1, V2	concerns for her raspy voice and swallowing difficulties she was
region. No perioral or lingual weakness was observed and	started on IV immunoglobulin and methotrexate (10mg/week). He
hearing was intact. Routine labs were unremarkable. CT and	symptoms improved after two courses of treatment with IV
MRI of the brain showed a mass on the left middle cranial	immunoglobulin. Later, due to drug toxicity, methotrexate was
fossa abutting on the cavernous sinus, and some subcortical	replaced by azathioprine. Currently, the patient is off steroids and
and periventricular white matter lesions.	on the taper of azathioprine which will be considered for discontinuation in near future depending upon further
The rapidity of onset and severity of pain went against a	improvement in lab values of CPK and aldolase. The consideration
neoplasm. A diagnosis of THS was considered and the	not resuming trastuzumab was reviewed by the oncologist and the
patient was started on oral prednisone 60mg daily. By the	rheumatologist.
fourth day of treatment with prednisone, the patient's signs	DISCUSSION:
and symptoms had almost completely resolved. He was	The above-mentioned case report is unique; only one case of this
discharged on prednisone taper and instructed to follow up	kind has been reported in the literature of trastuzumab causing
with a skull base neurosurgeon and get a repeat MRI after	dermatomyositis. Based on the recent reports of Food and Drug Administration, on February 14, 2018, 19,844 people reported
two weeks. The patient was unfortunately lost to follow-up.	having side effects when taking trastuzumab, among them 25
Discussion:	people (0.13%) has dermatomyositis.
THS is not a fatal disorder but sight may be affected if the	The exact pathogenesis of trastuzumab causing dermatomyositis
optic nerve is involved. Our patient with rapid onset	not known but suggested hypothesis is that trastuzumab is a pote
unilateral painful ophthalmoplegia had an excellent	mediator of antibody-dependent cellular cytotoxicity pathway and
response to steroids, supporting the diagnosis of THS. The	causes dermatomyositis by the activation of this pathway, this
diagnosis of this condition is usually one of exclusion. Based	probably explains the delay in symptom onset. CONCLUSION:
on the history, physical exam and imaging, it may be	In the future, understanding the pathogenesis of dermatomyositis
worthwhile to consider this diagnosis and initiate a	may drive clinicians in understanding potential modes of preventi
therapeutic trial of steroid medication before considering	or alternatives to HER-2 positive breast cancer patients.
additional expensive workup.	1

Jiang	Yio	M.D.
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Haploidentical Stem Cell Transplantation: A Gateway to Infrequent Availability of HLA-Matched Related Donor

Introduction:

Haploidentical stem cell transplantation provides a plausible alternative for the patients when a fully matched donor is unavailable. Historically, the decision of considering haploidentical transplant has remained elusive; however, with the recent advances, the consideration of haploidentical grafts as a treatment option has become more apparent for both allografting for diseases as well as for engraftment failure.

Case Report:

We are reporting here an anecdotal case of a 40-year-old woman, diagnosed with pancytopenia coincidentally during pregnancy screening tests. The detailed work-up to discover the possible etiologies behind pancytopenia was deferred by the patient. She presented again to the tertiary care setup, post-pregnancy, with the complaint of fatigue; the diagnostic investigations (complete blood count, bone marrow biopsy) revealed acute myeloid leukemia in the patient, necessitating bone marrow transplantation. The HLA-matched related donor was discovered to be her brother; hence the transplantation with a fully matched HLA-donor was performed. Regrettably, the transplantation was met with failure ten days post-transplant, demonstrated by chimerism studies and bone marrow biopsies, despite taking all the necessary prerequisites into consideration. The conclusion of performing a haploidentical transplant was made by the multidisciplinary team of oncologists and hematologists. Since the patient was severely alloimunized, desensitization protocol was utilized before the haploidentical transplant, and the patient after 8 months of her second allogenic transplantation, is doing great with remarkable engraftment, no relapse, and no graft-vs-host disease (GVHD), apparent by her bone marrow biopsy results.

Discussion:

Numerous reports pertinent to haploidentical graft have shown favorable outcomes in the graft placement, a decline in the rate of GVHD, and an improvement in the morbidity and mortality in affected individuals. Based on the current reports, Haplo-identical transplantation might be more feasible and has meaningful implications in the situations where matched donors are infrequent.

Keywords: Stem Cell Transplantation, Haploidentical, Graft, Match-related Donor

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Chronic lymphocytic leukemia as a rare cause of jaundice Introduction

Infiltration of the liver by hematologic malignancies is an uncommon cause of liver failure. Chronic lymphocytic leukemia (CLL) is an indolent disease that may rarely infiltrate the liver. We present a case of untreated CLL who presented with worsening jaundice and was found to have lymphocytic infiltration of the portal tracts.

Case Presentation

A 83 year old man with recently diagnosed low-grade CLL, presented with dark colored urine for 2 weeks and jaundice for 1 week. He did not have prior hepatitis, drug or alcohol use. Physical examination revealed marked icterus. The abdomen was soft, non-distended, non-tender with normal liver span and non-palpable spleen. Vital signs were stable. Laboratory tests showed Hb 9.5g/dl, WBC 29.6 x103/mm3 with 74.2% lymphocytes, platelets 118 x103/mm3, ALP 391 IU/L, AST 225 IU/L, ALT 261 IU/L, with total bilirubin 9.9 mg/dl and direct bilirubin 6.9 mg/dl.Lipase was 1654 U/L. ANA, AMA, and antismooth muscle antibody were negative. Serologic tests for Epstein Barr virus, Cytomegalovirus, Hepatitis A, B and C were negative. Abdominal ultrasound was negative for gallstones. Computed tomography (CT) of abdomen/pelvis showed multiple retroperitoneal and peripancreatic lymph nodes. Mild splenomegaly was noted.Magnetic resonance cholangiopancreatography (MRCP) revealed a normal sized liver with no intrahepatic or extrahepatic biliary duct dilatation. The gallbladder was contracted. Multiple retroperitoneal, mesenteric, porto-hepatic and peripancreatic lymph nodes were seen. A percutaneous liver biopsy of the right lobe was consistent with atypical lymphocytic infiltrate at the portal area. Severe hepatocellular and canalicular cholestasis was noted around the central veins. Dense monotonous lymphocytic infiltrate was found along all portal tracts. The lymphocytes were positive for positive for CD20, BCL2 and CD5 (dim) and negative for CD3, CD10, BCL1 and BCL6. A diagnosis of jaundice secondary to infiltration of the liver by CLL was made. Discussion

In CLL, the differential diagnosis of liver disorders is broad and, in addition to liver infiltration by leukemic cells, includes immunologic manifestations associated with CLL, primary and secondary hepatic malignancies, drug-induced hepatotoxicity, infections, and Richter transformation. The prevalence of liver dysfunction and its association with outcomes in patients with previously untreated CLL is unknown. Approximately 1 in 25 newly diagnosed CLL patients has abnormal LFTs at diagnosis. It has been shown that patients with abnormal LFTs at diagnosis had a shorter overall survival compared to those with normal LFTs.

The portal tract is the most common region involved in CLL infiltration of the liver. Liver biopsy is mandatory in CLL patients with jaundice to establish malignant infiltration of the liver, when no obvious cause is apparent

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PULMONARY EMBOLISM FROM ENDOTHERMAL HEAT	University at Buffalo CHS Internal Medicine Training
INDUCED THROMBOSIS; A RARE COMPLICATION OF	Program
ENDOVENOUS ABLATION FOR VARICOSE VEINS	
	MEPOLIZUMAB: THE FUTURE BEYOND EOSINOPHILIC
INTRODUCTION: Endovenous radiofrequency ablation is a	ASTHMA
minimally invasive technique that uses thermal energy to ablate	
incompetent superficial veins. Bruising, hematoma formation,	INTRODUCTION:
skin burns and superficial thrombophlebitis are some of the	Mepolizumab is a humanized monoclonal antibody currently FDA-
common complications. Endothermal heat induced	approved for the treatment of severe eosinophilic asthma.
thrombosis(EHIT) is a rather infrequent side effect with an	Previously suggested from the literature, Mepolizumab can also be
estimated incidence of 1.4%. In most cases, the thrombus is	an important corticosteroid-sparing agent in patients with the hypereosinophilic syndrome. Today our observation is a case of 42
non-occlusive, confined within the superficial venous system	year-old male with eosinophilic myositis, which constitutes a group
and does not require treatment. Pulmonary embolism from	of rare, clinically and pathologically heterogeneous disorders
extension of the clot into the deep veins is much rarer with studies showing an approximate incidence of 0.009-0.3%. We	characterized by eosinophil infiltration of skeletal muscle.
present the case of a 65 year old male who developed multiple	Mepolizumab was ultimately tried in this patient as it was otherwi
bulmonary emboli from endothermal thrombosis after	difficult to wean him off the steroids and his symptoms responded
endovenous ablation	dramatically.
CASE:65 year old male with past medical history of symptomatic	CASE:
varicose veins causing pain, lower extremity cramping and	A 42-year-old male with past medical history of chronic sinusitis, asthma, nasal polyps and intermittent swelling of lips presented
venous stasis changes presented to vascular surgery for	with painless and a fluctuant right sided neck swelling for two
endovenous radiofrequency ablation of bilateral greater	months with no systemic symptom of weakness, rash, pain and joi
aphenous and right saphenous vein as well as right and left	swelling without any skin changes indicative of fasciitis. His initial
accessory vein removal. Post procedure ultrasound showed	labs revealed eosinophilia with ANCA panel negative for vasculitis.
closure of the targeted veins and patent superficial epigastric	MRI was notable for neck muscle edema. Electromyography was
veins and common femoral veins. 5 days later, he presented to	found to be nonsignificant and muscle biopsy demonstrated
he Emergency Department with sudden onset pleuritic chest	eosinophilic infiltrate without any evidence of infection. The patient
pain associated with shortness of breath. Physical exam	was initially started on prednisone for neck swelling, he responded
revealed bilateral lower extremity edema, well healing incision	adequately and swelling shrunk moderately in size. The patient stopped prednisone on his own and developed a new soft tissue
sites with some surrounding ecchymosis. CT scan chest was	swelling on the inner aspect of right thigh. He was restarted on
consistent with extensive right lower lobar and bilateral lower	prednisone and appropriate response to this treatment was
lobe segmental and sub-segmental pulmonary emboli and the	achieved again. It became problematic for the physician to wean
patient was started on heparin which was eventually	him off prednisone as every time it resulted in recurrent series of
transitioned to apixaban. Ultrasound of the lower extremities revealed left common femoral vein thrombosis consistent with	soft tissue swelling. He was finally started on Mepolizumab as a
level V EHIT. The patient had no personal history of	steroid-sparing agent for his eosinophilic myositis, asthma and
thromboembolism, no risk factors for thrombosis and had a	polyposis and remarkable subjective and objective improvements
recent unremarkable colonoscopy, PSA level and no lung	were noted in terms of recurrent soft tissue swelling, eosinophilia, and pulmonary function test.
nodules identified on CT. Repeat ultrasound 2 weeks later	
showed complete resolution of the common femoral vein	DISCUSSION:
hrombus.	Eosinophil development from hematopoietic progenitor cells is
DISCUSSION: EHIT is defined as propagation of a thrombus from	regulated by IL-5; consequently, inhibiting IL-5 is a logical
a superficial vein into a deeper vein and is generally considered	therapeutic objective for patients with hypereosinophilic
linically insignificant in the absence of symptoms. Some studies	syndrome.In clinical trials involving patients with hypereosinophili
nention that proximity of the radiofrequency catheter within	syndrome with a presumed allergic component, Mepolizumab reduced blood eosinophil counts and the need for maintenance
2.5cm of the sephanofemoral junction increases the risk of EHIT.	corticosteroid dose. Our patient's soft tissue swelling appeared to
he possibility of underlying thrombophilia was questioned in	have a dramatic response to Mepolizumab along with resolving
bur patient but these patients have a positive family history and	eosinophilia. CONCLUSION:
nostly develop a clot before age 40. Undiagnosed cancer was	Consistent with prior published work our observation of this case
also considered in the differential but he did not have a	shows that administration of anti-interleukin-5 antibodies, an
convincing history and had unremarkable cancer surveillance.	eosinophil-specific and targeted therapy, has a potential clinical
Given the development of pulmonary embolism within 5 days of endovenous ablation makes it the most likely explanation. Our	benefit. Mepolizumab durably reduces eosinophil counts along with
case highlights the rare but potentially life threatening	marked clinical improvement. Also, recent experiments with
complication of endovenous ablation and should always be	younger patients encourage redirecting therapeutic strategies
considered in the differential of a patient presenting with	toward a therapy with lower side effects. Further researches in thi regard will help broaden the FDA approved indications for this drug
sense of a final contraction of a patient presenting with	regard with help broaden the right approved indications for this dru



New York Chapter ACP

Annual Scientific Meeting

Resident/Fellow

Research

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	Outcomes of Functional Testing versus Invasive
COLON CANCER SURVIVAL IN THE UNITED STATES	Cardiac Catheterization for the Evaluation of
VETERANS' AFFAIRS BY RACE AND STAGE (2001-2009)	Intermediate Severity Coronary Stenosis Detected on
	Cardiac Computed Tomography Angiography
Background: CONCORD is a global program for world-wide	Introduction
surveillance of cancer survival. A recent analysis of the	Coronary Computed Tomography Angiography (CCTA) is a non- invasive imaging modality with high sensitivity and negative
CONCORD-2 study (1) shows a 9-10% lower survival rates for blacks affected by Colon Cancer (CC) as compared to whites	predictive value for the detection of coronary artery disease (CAD).
in the US between 2001 and 2009.	The main limitations of CCTA are its poor specificity and positive
	predictive value particularly for lesions of intermediate severity
Aim of the Study and Methods: We aim to investigate the	(ICS), as well as its inherent lack of physiologically relevant data on the hemodynamic significance of coronary stenosis. Consequently,
differences in the survival of blacks and whites affected by	acute chest pain patients with ICS receiving a CCTA undergo
CC in the National Veterans' Affairs Cancer Cube Database	downstream stress testing or invasive coronary angiography (ICA) to
(2) in the same time-period. Overall, 30,196 CC	determine the functional significance of the lesion. However, the comparative effectiveness of the two modalities for evaluation of
cases between 2001 and 2009 were examined.	the hemodynamic significance of ICS detected on CCTA is currently
Populto, 66 12% (10 067) of CC potionts identified as white	unknown.
Results: 66.12% (19,967) of CC patients identified as white and 16.32% (4929) identified as black. The distribution of	Methods
stages in blacks was the following: Stage 0: 10.49% (517), I:	We retrospectively reviewed 6,162 CCTAs done in a single academic hospital between the years of 2012-2014. We included acute chest
25.10% (1237), II: 18.58% (916), III: 17.73% (874) and IV:	pain patients with a non-ischemic initial electrocardiogram, normal
17.91% (883). By comparison, CC cases in whites presented	cardiac troponins, and no prior CAD. Of these patients, 118 were
as Stage 0: 8.92% (1781), I: 26.62% (5316), II: 22.29% (4450),	identified with ICS (defined as 50-70% stenosis) and either
III 18.75% (3744) and IV 13.71% (2738) (p-value for X2 trend	proceeded to an initial stress test (80/118) or an initial catheterization (38/118). The primary outcome was 30-day major
test=0.021). Interestingly, in contrast to the results of the	adverse cardiac event (MACE) (acute myocardial infarction [AMI],
CONCORD study, the overall 5-year survival for all stages of CC in blacks and whites was similar [blacks: 2854 (57.90%);	revascularization with Percutaneous Coronary Intervention [PCI] or
whites 11897 (59.58%); p-value: 0.2750]. The same holds	Coronary Artery Bypass Graft [CABG], and mortality). Secondary outcomes were length of stay (LOS), cardiac catheterization without
true for the 5-year survival for Stage 0 [blacks: 423 (81.82%)	evidence of significant CAD and therefore no revascularization, and
whites: 1391 (78.10%); p-value:0.5338], Stage I [blacks: 932	return to hospital for AMI or urgent revascularization.
(75.34%) whites: 3973 (74.74%); p-value:0.8667], Stage II	Results
[blacks: 605(66.05%) whites:2927 (65.78%); p-value:0.9427],	Among all patients enrolled, females comprised 37%, whites comprised 83%, and the mean age was 57.6 years old. There was no
Stage III [blacks:509 (58.24%) whites:2138 (57.10%); p-	statistically significant difference between those who received an
value:0.7513], Stage IV blacks:101 (11.44%) whites:364	initial stress test in comparison to those who received a
(13.29%); p-value:0.2058].	catheterization with respect to baseline characteristics including
Conclusion: The racial disparity in survival highlighted in	age, race, gender, cardiac risk factors (hypertension, hyperlipidemia, smoking status, family history of premature CAD, diabetes, body
CONCORD-2 (9-10% lower 5-year survival for blacks) is not	mass index). Furthermore, there was no difference in weekend
replicable in the VA system. This difference is likely due to	presentation, coronary calcium score, or number vessels involved in
the uniformity of the VA in providing screening and	ICS. Patients who received a cardiac catheterization had a higher rate of MACE events (44.7% vs. 3.8%, P <0.0001) and higher rate of
treatment services and in leveling the playing field in terms	catheterization without revascularization (55.3% vs. 12.5%, P <
of access to care. We believe these results should be taken	0.0001) as opposed to those who had an initial stress test. However,
in consideration in the current discussion of the shape of the	there was no difference in hospital readmission for AMI or
healthcare system the US should adopt. References:	revascularization and LOS.
1. White A, Joseph D, Rim SH, Johnson CJ, Coleman MP,	Conclusion
Allemani C. Colon cancer survival in the United States by	Among patients who received a CCTA and were found to have ICS,
race and stage (2001-2009): Findings from the CONCORD-2	those referred for an initial cardiac catheterization compared to
study. Cancer. 2017 ;123 Suppl 24:5014-5036.	those referred for a non-invasive stress test had a higher overall rate of MACE and higher rate of negative cardiac catheterization.
2. Coke P, Gill T. National Cancer Care Cube. Abstract 36:	There was no difference in LOS and 30-day readmission for AMI or
2014 AVAHO Meeting	urgent revascularization. Therefore, an initial non-invasive strategy
	may prevent unnecessary revascularization and improve cardiac
	catheterization yield without negatively impacting LOS and short- term hospital readmission for AMI or urgent revascularization

term hospital readmission for AMI or urgent revascularization.

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5	BLACK RACE AS THE PREDICTOR OF DIRECT-ACTING
	ANTIVIRAL TREATMENT RESPONSE IN HEPATITIS C
	VIRUS MONO-INFECTION AND HEPATITIS C
	INFECTION - A REAL WORLD STUDY
	INFECTION - A REAL WORLD STUDY
Background: While patients with active or treated	Deskereund
	Background:
	Black race is historically considered as a predictor of
	poor response to interferon- based therapy for chronic
	hepatitis C virus (HCV) treatment. However, real-
	world data on the efficacy of newer highly effective
	direct- acting antivirals (DAAs) on this population
	group are limited as they are poorly represented in
	the study population. We sought to identify the
	outcome of DAAs in black population both in HCV
	mono-infection and HCV/HIV co-infection.
	Method:
	We designed a retrospective study and reviewed
, , , , , , , , , , , , , , , , , , , ,	charts of individuals treated for HCV with DAAs
	between January 2014 and July 2017 at two specialty
	clinics in Brooklyn.
	Results:
	327 patients were included (mostly64.5% [n=211]
	were Black, 15% [n=49] White, 6.4% [n=21] Hispanic,
	0.3% [n=1] Asian and 13.8 % [n=45] declined race or
	ethnicity. The overall sustained virologic response
	(SVR) were 94% (93.8 % in Black, 93.9 % in White,
	95.2% in Hispanic, 100% in Asian, 95.6 % in other
cancer was associated with stroke (OR=2.40, p=0.024).	races, P>0.05). Even after adjusting baseline
	characteristics in multivariable logistic regression
significant mediator and accounted for 73% of the	models, overall SVR in black was not significantly
	different than white (adjusted odds ratio [AOR] 1.076,
Conclusion: Cancer is associated with an increased	p= 0.92). Among patients with HCV/HIV co-infection,
prevalence of stroke and platelet activity appears to	SVR rate was significantly lower (84%) but race was
play a significant role in the underlying mechanism of	not identified as a predictor of poor response in this
this association.	group and both black and white race had comparable
	treatment response (85.7 % vs 85.7%, p= 0.38).
	Conclusion:
	Unlike interferon therapy, DAAs are highly effective in
	black population with HCV mono-infection and
	HCV/HIV co-infection in real- world setting.

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Ringer's Lactate vs Normal Saline in Acute	House-staff's Perception of the Utility of Intern Night

Pancreatitis: A Systematic Review and meta-analysis Introduction: Acute Pancreatitis (AP) is one of the most common causes of hospitalization in the United States. Aggressive intravenous hydration with crystalloids is the first step in management, and is associated with improved survival. Guidelines are unclear regarding the choice of crystalloids. Normal saline (NS) is the most commonly used, but recent studies have shown that use of Ringer's lactate (RL) may improve mortality rates and decrease development of systemic inflammatory response syndrome (SIRS), which is one of the markers of poor outcomes, compared to NS. Methods: A comprehensive literature review was conducted by searching the Embase, MEDLINE, PubMed, and Google Scholar databases through December 2017 to identify all studies that compared the use of NS with RL for the management of AP. Two independent reviewers extracted data and assessed the quality of publications; a third investigator resolved any discrepancies. Primary endpoint was to evaluate difference in mortality and secondary end point was to evaluate development of SIRS in 24 hours among two groups.

Results: Five studies, three randomized controlled trials (RCTs) and two retrospective cohort studies, including 428 patients, were included in this analysis. Only 3 studies, including 127 patients, reported secondary outcome of SIRS at 24 hours. Mortality trended lower in the RL group, but was not statistically significant (pooled odds ratio 0.61 (0.28-1.29; P=0.20)). Patients in the RL group had significantly decreased odds of developing SIRS at 24 hours (pooled odds ratio 0.38 (0.15-0.98; P=0.05)). Heterogeneity among studies was low as seen by the I2 of 46% for the mortality outcome. Discussion: In this systematic review, we demonstrated that RL is associated with decreased odds of persistent SIRS at 24 hours. This anti-inflammatory effect of RL has two possible explanations. First, RL has a slightly higher pH compared to NS. Studies show that acidosis enhances inflammation and necrosis in AP. Extracellular acidosis signals the release of inflammatory cytokines IL-1ß in immune cells. Lactate in RL is metabolized in the liver, which results in lower metabolic acidosis and hence protective effects which decrease the development of SIRS in patients with AP. Second, RL may directly decrease inflammatory response in these patients. The presence of RL in-vitro prevents activation of NF-KB, the transcription factor involved in the inflammatory process. This inhibition is secondary to the effect of lactate, as use of Ringer's alone without lactate results in the loss of this inhibition. Mortality also trended lower in RL patients, but was not statistically significant. Larger RCTs are necessary to further strengthen the association of RL with favorable outcomes in patients with AP, however, our findings may help clinicians in making decisions regarding the choice of fluid for management of AP.

House-staff's Perception of the Utility of Intern Night Float Survival Manual "" A Prospective Study at a University Hospital.

Introduction: The Internal Medicine residency program at SUNY Upstate Medical University has a dedicated night float system from 8 pm to 8 am in which interns provide cross coverage for around 100 patients with supervision by senior residents and attending nocturnist. Night ?oat at our institution is often perceived to be a demanding rotation due to high volume of calls, high acuity of patient population, and relative autonomy in clinical decision making. To guide interns through common scenarios specific to our institution, a manual was written by residents and vetted by chief residents, attending physicians. Several programs provide a similar tool for their house-staff, but few studies have assessed house-staff's perception of its utility. We therefore conducted a survey with the primary objective of assessing confidence in dealing with common night float scenarios amongst our interns before and after implementation of the manual.

Methods: An anonymous online voluntary survey consisting of 6 questions was sent to 45 interns who did not use the manual (pre-group) and 63 interns who used it (post-group). 33/45(73.3%) and 46/63(73%) responded to the survey. The responses were graded on a Likert scale and analyzed using Mann- Whitney score in SPSS. The distribution amongst the groups was further analyzed using 2x2 tables to understand the direction of shift to decide if it was a positive or negative response.

Results: 54 .5 % interns in pre-group stated they were comfortable collecting relevant information from nursing staff/chart review in timely manner as opposed to 82.6% in post-group. 63.0% in pre-group were confident about generating appropriate differential diagnosis when compared to 90% in post-group. Only 69.2 % were comfortable deciding when to contact senior resident/attending for patient care issues in pre-group which increased to 93% after using the manual. Analysis showed statistical significance (p<0.05) was achieved for all 6 questions indicating difference in distribution of responses for every question in the pre and post group. Further analysis of distribution indicated interns found the manual useful and were confident dealing with common clinical scenarios.

Conclusion: Our study concluded that the night float manual was a useful resource to during the night float rotation and we intend on updating and adding new topics based on feedback received. We suggest design and implementation of institution specific resident education that is tailored to resident feedback and needs.

Resident/ Fellow Research

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Evaluation of effects of health literacy, numeracy skills and English proficiency on health outcomes of Diabetic population in East Harlem

Introduction: In diabetes mellitus (DM) adequate health literacy is necessary for self-management and to lower the calorie intake. The aim of this study was to assess the health literacy of the diabetic patients visiting H+H Metropolitan using a validated screening tool $\hat{a} \in \mathbb{N}$ Newest Vital Sign' (NVS).

Methods: The cross sectional observational study was conducted between August 1, 2017 and February 26, 2018. A sample size of 169 was calculated for a 95% confidence interval and a 5% margin of error, for a sample proportion of 12% proficient people in health literacy based on latest reported US health literacy rate.

The diabetic patients completed the NVS questionnaire after verbal consent. English proficiency, ability to read and write, HbA1c level, and microvascular complications of DM (nephropathy, retinopathy and neuropathy) were logged. A total of 169 patients with type 2 diabetes including 124 cases (mean age 59.07 ± 12.80, 46.7 % female) and 45 controls (mean age 58.3 ± 10.02, 46.6% female) were enrolled. Patients with NVS scores 0 - 2 and scores 3 - 6 were taken as cases and controls respectively. The data was analyzed by univariate and multivariate logistic regression using Stata software 12.1. Main Outcome Measures were presence of microvascular complications.

Results: Presence of complications were 64.4 and 78.9 percent in controls and cases respectively. The odds of having complication were 2.18 times higher for patients with NVS score 0-2 compared with patients with NVS score 3-6 in the univariate analysis [(odds ratio (OR) = 2.18, 95% Confidence Interval (CI) = 1.03-4.63, P = 0.042)]. The association persisted in multivariate regression, after adjusting for age, gender, and race (OR = 2.20, 95% CI = 1.02-2.65, P =0.045). The odds of developing neuropathy were 2.47 in cases compared to controls (OR = 2.47, 95% CI = 1.07-5.65, P = 0.032) in the multivariate regression model. Discussion: The disease burden related to DM is high, and continues rising worldwide. It has been suggested that limited health literacy and numeracy skills lead to poor selfmanagement behavior and lower glycemic control in diabetic patients. The health literacy was assessed using NVS, and correlated its relationship with microvascular complications of DM. Odds of having microvascular complications were found to be higher in patients with low NVS scores in univariate analysis. Neuropathy was associated with low NVS scores on multivariate analysis. Conclusions: Lower health literacy as suggested by NVS score is associated with higher microvascular complications in patients with Diabetes.

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RELATIONSHIP BETWEEN PULMONARY HYPERTENSION AND OUTCOMES AMONG PATIENTS WITH HEART FAILURE WITH REDUCED EJECTION FRACTION

Purpose for study

To assess the predictive value of pulmonary hypertension (PHT) for re-hospitalization among patients with heart failure with reduced ejection fraction (HFrEF) secondary to non-ischemic cardiomyopathy. To identify predictors of PHT among HFrEF patients.

Methods: We conducted a retrospective analytic cohort study of 351 patients over a 10-year period (January 1, 2006 to October 31, 2016). Patients 18 years and above who had baseline clinical parameters, echocardiography and other laboratory parameters were recruited into the study. Patients with coronary artery disease, preserved ejection fraction, pulmonary embolism, cancer, end stage renal disease, chronic obstructive airway disease and other secondary causes of PHT were excluded. Approval from the investigation review board of our institution and BRANY were obtained.

Results: Thirty seven (37) and 99 patients were re-hospitalized within 30 days and 6 months after discharge for decompensated HF respectively. Patients re-hospitalized within 30 days had significantly lower body mass index (BMI) and lower serum hemoglobin than those not re-hospitalized (p = 0.016) respectively. Pulmonary artery systolic pressure (PASP) and age were significantly higher in the patients re-hospitalized within 30 days (p = 0.02; p = 0.024 respectively) than those not re-hospitalized. Patients re-hospitalized within 6 months had significantly higher PASP and blood urea nitrogen (BUN) than those not re-hospitalized (p = 0.01 and p = 0.025 respectively). After Cox regression analysis, higher hemoglobin significantly reduced odds of re-hospitalization for decompensated HF (p = 0.015) within 30 days after discharge while higher PASP (p = 0.002) and BUN (p = 0.041) significantly increased the odds of re-hospitalization within 6 months of discharge. The predictors of the PHT among HFrEF patients following multiple linear regression were reduced BMI (p = 0.027), increasing age (p = 0.006) and increased left atrial diameter (LAD) on echocardiography (p = 0.0001).

Conclusion: PHT and elevated BUN were the best predictors of rehospitalization 6 months after discharge among patients with HFrEF while hemoglobin was the only predictor of 30 -day rehospitalization. HFrEF patients with low BMI, dilated left atrium or who are older, have a high predisposition to developing PHT and may need more intensive therapy and follow up to improve their prognosis.



New York Chapter ACP

Annual Scientific Meeting

Resident/Fellow /Medical Student Quality/Advocacy/Public Policy

Resident/Fellow/Medical Student Quality, Advocacy and Public Policy

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New York University School of Medicine, New York City, NY.	MD1,Barbara Mendez-Agrusa MD1
New York University School of Medicine	1Jacobi Medical Center, Bronx, NY
	2Montefiore Medical Center, Bronx, NY
MAPPING TRANSGENDER AND GENDER NON-BINARY	Jacobi Medical Center
EXPERIENCES IN MEDICINE: A SURVEY OF MEDICAL	
STUDENTS AND PHYSICIANS	FACTORS AFFECTING FRAX SCORE CALCULATION AND TREATMENT IN PRACTICE
Purpose: To explore the experiences of transgender and gender	
non-binary (TGNB) medical students and physicians in the USA.	INTRODUCTION - Osteoporosis related fractures cause significant morbidity and
Methods: We conducted a 79-item online survey using likert-	mortality. The FRAX algorithm uses clinical risk factors, bone
type scales and open ended questions to assess the experiences	mineral density (BMD), and country-specific fracture data to
of TGNB-identified medical students and physicians in the USA.	quantify a patient's 10 year probability of a hip or major
Variables investigated include demographic data, degree of	osteoporotic fracture. Treatment is recommended for patients
disclosure of TGNB status, assessment of physical and	with a 10 year risk of = 3% Hip Fracture or = 20% Major
behavioral health parameters (including PHQ-9, PTSD) and also	Osteoporotic Fracture
allowed free-text descriptions of trainee experiences.	Current WHO guidelines:
Recruitment was conducted using snowball sampling via	- Femoral neck T-score can be used in place of BMD in
LGBTQ+ professional groups, list-servs, and social media.	calculating a FRAX score
Results: 36 eligible respondents included 21 students and 15	- FRAX can be calculated without BMD value.
physicians (10 transgender women, 12 transgender men, and 14	This project was initiated to see the difference in the result
gender non-binary participants).	when FRAX score is calculated using T-score, BMD and no BMD
	and how this difference can influence treatment.
50% (18) of participants had not disclosed their TGNB identity to	METHODS
their medical school and 60% (9) of physicians had not disclosed	Retrospective chart review was done of 1200 DEXA reports from
during their residency program. Non-disclosure of gender	2013 to 2015.
identity was due to fears of discrimination/ harassment and/or	Inclusion criteria: Patient between the age of 40-90 years with
not yet realizing that they were TGNB. 78% (28) of participants	T-score between -1 to -2.5 at femoral neck.
censored speech and/or mannerisms =50% of the time while at	Exclusion criteria: T-score < -2.5 or >-1, already on osteoporosis
work/school to avoid unintentional disclosure of their TGNB	therapy.
status. Respondents faced barriers on the basis of gender	Risk factors were obtained from chart review.
identity or expression when applying to medical school (31%;	237 patients met the inclusion criteria.
11), residency (43%; 6), and jobs as a physician (50%; 4). 69%	3 separate FRAX scores were calculated.
(25) reported hearing derogatory comments about TGNB	BMD FRAX: Using femoral neck BMD reported by Hologic DEXA
individuals at medical school, in residency, or in practice, while	machine (GOLD STANDARD)
33% (12) witnessed discriminatory care or refusal to care for a	T-Score FRAX: Using T-score reported by Hologic DEXA machine
TGNB patient. 75% (27) were afraid to seek medical or mental healthcare for fear of mistreatment on the basis of gender	No BMD FRAX: Scoring without BMD value.
identity or expression.	Reported FRAX: Scoring reported by the radiologist.
identity of expression.	RESULTS
Conclusions: TGNB medical students and physicians face	Out of 237 patients 226 (95.3%) were females, Average age was
significant barriers during undergraduate and postgraduate	67 years. 54.8% were Hispanic, 29.9% Black, 6.3% Asians and 8.5% Caucasians. Paired T-test was done to compare T-score
medical training, including having to hide their TGNB identities	FRAX, No BMD FRAX and reported FRAX with the gold standard
for the duration of training as well as witnessing high levels of	FRAX, NO BIND FRAX and reported FRAX with the gold standard FRAX score and difference was statistically significant in all 3
anti-TGNB stigma and discrimination. 75% of respondents were	groups with p<0.0001.
afraid to seek medical or mental healthcare due to perceived	McNemars test was used to Compare treatment differences.
fear of mistreatment on the basis of their gender identity or	- No BMD FRAX score leads to both statistically and clinically
expression. Despite the efforts of AMSA and entities such as	significant overtreatment when compared to gold standard
ACP to assure health equity for LGBT patients and learners, this	BMD FRAX.
study, the first to assess experiences of TGNB students and	- Interchanging T score and BMD to calculate FRAX score leads
physicians, reveals that significant disparities still exist on the	to the same treatment decision despite a statistically different
basis of gender identity. In order to make progress in health	absolute FRAX score value.
equity and build a strong and diverse physician workforce, we	CONCLUSIONS
will need to transform our culture and restructure policies to	- WHO guidelines should be reconsidered given that defaulting
protect and support TGNB medical students and physicians.	to no BMD calculation can lead to significant over-treatment.
	-Many providers are not aware that if BMD column is left blank
	DEXA machine automatically defaults the calculation to a no
	BMD FRAX score.

Resident/Fellow/ Medical Student Quality, Advocacy and Public Policy

Shaivya Pathak Medical Students (MS4)	Reshma Shah MBBS
Alok Sinha, Justin Joseph	T. Charles Martin DO, Rabah Alreshq MBBCh, Mohsin Farooq
Brookdale University Hospital and Medical Center	MD, Adam Friedman DO, Ria Itty MD, Danielle Pastor DO,
To assess the prevalence of Erectile Dysfunction,	PhD, Kellsey Peterson MD, Parth Shah MD, Sathya K Velkuru
Phosphodiesterase 5 Inhibitor use, sexual health and patient	DO, Josephine Lee MD
interaction trends of male medical students.	Albany Medical College
Methods	Albarry Medical conege
Anonymous survey was shared with current male medical	Patient-Centered Medical Home Team and a Shared
students and 664 surveys were collected on Google Forms. The	
four part, brief questionnaire was composed of multiple choice	Decision-Making Protocol for Colorectal Cancer Screening
and yes/no styled questions. The International Index of Erectile	in an Academic Primary Care Practice: Is it a Good FIT?
Function (IIEF-5) was used to analyze erectile function through a	Dumana
point based five item questionnaire. Total scores were	Purpose:
calculated and classified into five severity levels, ranging from	To determine patient preference of fecal immunochemical
none (22-25) through severe (5-7).	test (FIT) as an alternative modality for colorectal cancer
Results	(CRC) screening and to compare the completion rates in
Demographically, majority of the students were between the	those patients who completed FIT or colonoscopy.
age of 15-40 100% (n=664) , white 70% (n=465), had a	
significant other 70.8% (n=470) and in their clinical years 61%	Methods:
(n=405).	The Patient-Centered Medical Home (PCMH) team, which
	included attending physicians, medical residents, nursing
74.5% (n=495) of students scored their IIEF-5 questionnaire as 22.25 ± 6.02 (n=495) 12.24 ± 6.02 (n=495) 12.45 ± 2.26 (n=45)	staff, and the on-site laboratory designed and initiated a
22-25, 16.4% (n=109) as 17-21, 6% (n=40) as 12-16, 2.3% (n=15)	quality improvement project. During a 90-day period, we
as 8-11 and 0.8% (n=5) as 5-7.	offered all average-risk patients 50 years and over
PDE5-i Use:	presenting for their annual physicals the FIT or colonoscopy
Among the students, 92.2% (n=612) had never used a PDE5 i.	using a shared decision-making tool. Patients with a history
7.8% (n=52) had used a PDE5i. & https://doi.org/10.1000/000000000000000000000000000000	of colonic polyps, inflammatory bowel disease, existing CRC,
used a PDE5i, 75.8%(n=50) used it out of curiosity, 59.1%(n=39)	family history of sporadic or familial CRC, or known genetic
used it for rigidity, and 56.1%(n=37) used it to impress and/or satisfy partner during intercourse. 3.9% (n=26) admitted to	markers for inherited polyposis syndromes were excluded.
using over the counter alternatives to PDE5 iâ€ [™] s.	Patients had 90 days to complete the test from the date it
Sexual health trends:	was offered. A maximum of two reminder phone calls were
Before medical school, 12.7%(n=84) of the students had	provided to patients who had not completed the test within
experienced ED. During medical school, 27.7%(n=184)	the 90-day screening period. End points were patient
experienced ED. 24.8%(n=165) had no discernible time for when	preference of modality with a secondary outcome of
they experienced ED. However, 11.3%(n=75) were able to	completion rates.
attribute the ED to high stress situations.19.9% (n=132)	
students felt uncomfortable seeking help for ED and	Results:
52.9%(n=351) were uncomfortable with the idea of going to	Fifty-three patients met our inclusion criteria and were
their school's clinic/hospital for sexual health concerns.	offered FIT or colonoscopy during their annual
39.5%(n=262) felt that their encounter with the school's	
clinic/hospital is not confidential.	comprehensive visits. Thirty-eight patients (73%) preferred
Patient interaction:	FIT and fourteen patients (27%) preferred colonoscopy
87.2% (n=579) students felt comfortable taking a thorough	(p<0.01). Of those preferring FIT, twenty-five patients (66%)
sexual history versus 12.8%(n=85) who did not. 64.2% (n=426)	completed the test and of those choosing colonoscopy,
felt that medical school adequately prepared them for	seven patients (50%) underwent the procedure (p=0.35).
evaluating sexual health problems vs. 35.8% (n=238) who did	Conduciona
not. 22.4% (n=149) students take no sexual history when	Conclusions:
interviewing patients.	PCMH team initiated a shared decision-making CRC
Conclusion	screening protocol with the introduction of a non-invasive
More than a quarter (25.5% n=169) of the students showed	CRC screening modality. We observed that a significant
some degree of erectile dysfunction according to the IIEF-5	number of patients preferred FIT over colonoscopy
questionnaire. Only a small amount of students reported using a	screening. There was no significant difference in completion
PDE5-i and other alternatives. More students reported ED	rates between FIT and colonoscopy. This QI project
during medical school than before medical school. Students	established the importance of offering FIT as an alternative
revealed feelings of discomfort when seeking medical help for	to colonoscopy for CRC screening. Future studies would
ED, especially at the clinic/hospital associated with their school.	entail an increased sample size to further assess completion
Students also hold the belief that their sexual health encounter	rates.
will not be confidential at the clinic/hospital affiliated with their	
school. Students exhibited apprehension towards taking a	
thorough sexual history from their patients, some even	
admitted skipping sexual history during patient interviews.	
admitted skipping sexual history during patient interviews.	

Resident/Fellow/Medical Student Quality, Advocacy and Public Policy

Bashar Sharma MD	Don Bambino Geno Tai MD
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SUNY Upstate Medical University	Choosing Wisely with CD4 Counts: When Less is More
Senior Author	 Choosing Wisely with CD4 Counts: When Less is More Introduction The U.S. healthcare system loses \$210 billion to needlessly expensive care annually. In monitoring CD4 count of patients with HIV, the HIV Medicine Association together with Choosing Wisely sphore the parels, which may include CD3, CD4, CD8, and CD19 absolute and percentage counts among others, do not offer morilication and are more expensive. This study set out to determine the tests being used for this indication and its costs. It also looked into a way to decrease costs by increasing the rate of simple panel utilization to 95% or more.?? Methods The study design was a before-and-after study conducted in two community-based teaching hospitals with total capacity of 400 inpatient beds, and an outpatient HIV/AIDS center. All lymphocyte subset panels ordered from March 2016 to January 2018 were included in the study. Intervention started in November 2017. Intervention included the introduction of a simple panel to common requestors and eventually making simple panels as the preferred test by end of December 2017. Lymphocyte panels ordered before and after the intervention were counted, and proportions compared. Costs were computed based on 2017 Medicare reimbursement rates. Results Mere was a total of 1,577 lymphocyte panels done during the study period. Majority were from the HIV/AIDS center of the hospitals. Complex panels represented 99.79% (n=1,389) of the tests ordered pre-intervention. The average cost of each test was \$167.67. In turn, the healthcare system lost approximately \$183,445 in 20 months during the pre-intervention period due to the added expense of complex panels. During post-intervention period, use of complex panels went down to 24% (n=43) while the cheaper, simple panels constituted 76% (n=133). Average cost per test post-intervention lowered to \$68.79. The percentage of simple panels constituted 76% (n=133). Aver
responsible use of urinary catheters.	An efficient and effective intervention to increase the use of simple panels was to implement an opt-out policy. Simple panels will be sent as the default test unless the provider specifies otherwise. The intervention is projected to save approximately \$98,761 in 2018
	when ordering of simple panels reach 99% proportion.

Sabiha Toni

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IMPROVING COMMUNICATION WITH HARD OF HEARING PATIENTS: A COLLABORATION BETWEEN STUDENTS, RESIDENTS, AND NURSES

PURPOSE: To increase provider awareness regarding the prevalence of hearing loss among inpatients, and to improve communication with hard of hearing (HOH) patients. BACKGROUND: Hearing loss affects more than 28.8 million Americans1, less than 15% use hearing amplification devices2. In the hospital, hearing deficits are underappreciated; HOH patients may be labeled as "poor historians, with ineffective communication leading to suboptimal care.

METHODS: A team of students and residents evaluated current protocols to identify and communicate with HOH patients on five inpatient medical units. Nurse managers were asked about procedures to identify HOH patients and participated in a daily survey to quantify the number of HOH patients. Two sound amplification tools, Pocketalker and a smartphone hearing amplification application (app), were evaluated with an audiology specialist and nurse managers. RESULTS: Over the eight-week period, an average of 15 out of 137 patients on medical units were identified as HOH each day, through nursing assessment and self-report. Each unit used door signs to indicate HOH status, two units displayed additional signage over a patient's bed, and one unit included an HOH identifier on a digital floor map. Both Pocketalker and the app require headphones. The app was more feasible in the hospital setting, as it is free and did not require storage or disinfection between patients. 70-75% of hospitalized patients have smartphones; these HOH patients will be provided with headphones and information about the app. Residents were encouraged to download the app on personal smartphones. The intervention is being assessed on two nursing units. CONCLUSIONS: Patients with hearing loss may be mistakenly

labeled has poor historians. It is important to identify HOH patients, as barriers to patient understanding lead to suboptimal medical care. This project raises awareness about the prevalence of hearing loss, improves identification of HOH patients, and provides a tool to strengthen communication. Successful collaboration between students, resident physicians, and nurses highlights the importance of multidisciplinary teams when implementatiing quality improvement initiatives. 1. NIDCD Epidemiology and Statistics Program, based on December 2015 Census Bureau estimates of the noninstitutionalized U.S. population, personal communication. May 2016.

2. Chien W, Lin FR. Prevalence of hearing aid use among older adults in the United States. Arch Intern Med. Feb 13 2012;172(3):292-293.