

### New York Chapter ACP

# **Annual Scientific Meeting**

### **Poster Competition**

Friday, February 6, 2015



## New York Chapter ACP

**Annual Scientific Meeting** 

**Medical Student** 

**Clinical Vignette** 

Friday, February 6, 2015

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Saqif Hasan,MD	Institution: SUNY Upstate Medical University
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Title: HIDDEN COLONY OF MUCORMYCOSIS Introduction:	Title: FIRST REPORTED CASE OF CRYSTAL METH-INDUCED ISCHEMIC HEPATITIS
Introduction: Mucormycosis is a rare fungal infection that can be found in immunocompromised patients and usually acquired through the inhalation of spores. Mucormycosis species are angioinvasive and infarction of infected tissues in a hallmark of the disease. There are four types of mucormycosis infections; they include rhinocerebral, pulmonary, gastrointestinal and cutaneous. Pulmonary mucormycosis infections are more commonly seen in patients with blood cancers, diabetics, organ transplant recipients, IV drug users and AIDS patients. Patients with pulmonary mucormycosis most often times present with fever and severe hemoptysis. Here we report a case of an asymptomatic HIV patient with a suspicious lung mass, which, turned out to be pulmonary mucormycosis with a concomitant pneumocystic carinii infection. Case Presentation: A 45 year old incarcerated male with a history of substance abuse, shared needles, unprotected sexual intercourse, hepatitis B and recently diagnosed HIV (CD4 181) on Highly Active Anti-Retroviral Therapy (HAART), was admitted for the evaluation of a suspicious lung mass found on routine x ray. At time of admission, the patient was asymptomatic and denied fever, cough, weight loss, night sweats and anorexia. Computed Tomography (CT) of chest in the ED showed a right hilar lung mass measuring about 6.4 cm x 3.6 cm suggestive of T3N1M0 stage IIIa lung cancer. The patient underwent bronchoscopy and results showed a small area of necrosis in the posterior wall of the right middle lobe. Bronchial washing showed numerous aggregates of neutrophilic exudates in the background of necrosis and no tumor cells were observed. Periodic Acid Schiff (PAS) and Silver stains were positive for pneumocystic carinii and fungal organisms consistent with mucormycosis. To rule out Mycobacterium, an Acid Fast Bacilli (AFB) stain was done and results were negative. During his hospitalization he was treated with intravenous Amphotericin B, Caspofungin and oral Bactrim. He was dis	Amphetamine use has been previously associated with acute liver injury. Clinical courses described are similar to those observed in ischemic and hyperthermia induced liver injury. It has been proposed that the mechanism of injury involves ischemia as well as an unknown toxic metabolite. This presents a serious risk as hypoxic hepatitis has been shown to increase intensive care unit mortality rates by 4 fold. Case reports describing synthetic methamphetamine (Crystal Meth) induced hepatitis have not been previously reported. We present a 39 year old female who had a two week history of respiratory distress, nausea and severe abdominal pain. Past medical history included type I diabetes mellitus, end stage renal disease on hemodialysis, and ischemic cardiomyopathy. Review of medications was not suspicious for hepatotoxic drugs. There was no history to suggest a recent clinical illness or episode that could lead to hypotension or systemic hypoperfusion. At the time of presentation, she denied illicit drug use including cocaine. On exam she was agitated, had abdominal tenderness localizing to the epigastrium, and was without jaundice. Abdominal ultrasound and cholescintigraphy were negative. Doppler sonography of the abdomen showed patent hepatic, portal and mesenteric veins. Laboratory tests were significant for abnormal liver panel (AST 6122 IU/L, ALT 3809 IU/L, LDH 7979 IU/L, albumin 4.1 g/dL, total bilirubin 2.3 mg/dL and INR 2.41). Testing for other causes of hepatic injury was negative including viral hepatitis, autoimmune hepatitis and serum acetaminophen level. Empiric treatment was begun with N-acetylcysteine, intravenous fluids and pain control. After further questioning, the patient admitted to use of Crystal Meth for the first time in her life two weeks prior to her presentation. The patient left against medical advice on day 3 with some improvement of her symptoms and improving liver function panel (AST 3963 IU/L, ALT 1865 IU/L, LDH 6626 IU/L, total bilirubin 0.8 mg/dL and INR 1.56). This is a rare cas
invasive lung cancer. This case proves to be interesting because an immunocompromised patient with a mucromycosis infection at the stage in which the patient arrived in, should be severely ill and in possible distress. A case such as this is one that should be kept in the minds of physicians, as illnesses do not always present in the same way.	methamphetamine-induced hepatitis. Conservative management with close monitoring improved the status of our patient without the need for liver transplantation. It is imperative to raise awareness regarding this complication associated with use of Crystal Meth among the general population and healthcare professionals.

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Title: A PUZZLING CASE OF SARCOIDOSIS	institution. Soft i opstate Medical Oniversity
BACKGROUND:	Title: A Clue in the Canal
Sarcoidosis is an inflammatory condition of an unknown etiology that is characterized by noncaseating granulomas and	
often has multisystem involvement. Epidemiologically,	Title: A CLUE IN THE CANAL Authors: Junaid Habibullah, MS, ACP Member, Omar
sarcoidosis has been found to be more prevalent in African	Mousa, MD, Amit Dhamoon, MD, PhD
Americans, females, and between the ages of 10-40 years.	All authors from SUNY Upstate Medical University
Affected individuals most commonly present with symptoms of lung involvement seen on imaging and extrapulmonary	Syracuse, NY
manifestations that include the skin and eyes. Other organ	Abstract
systems can be involved, but with much lower incidences	Ramsay Hunt Syndrome is a unique presentation of herpes zoster that is classically defined as facial nerve palsy with a
including direct renal involvement, which occurs in $<5\%$ of patients. We report an atypical presentation of sarcoidosis with	vesicular rash located in the ear canal, auricle and/or
associated acute renal failure in an older Caucasian male.	mucous membrane of the oropharynx. There is a clinical
CASE:	variation of the rash, in terms of the number of vesicles and
A 50 year old Caucasian male with a past medical history of glaucoma, uveitis, iritis and lyme disease presented with	the timing of their appearance. This diversity in the presentation makes a simple diagnosis challenging.
fatigue, constipation, polyuria, worsening of shortness of	A previously healthy 43-year-old male presented to the
breath and a weight loss of twenty pounds. The physical exam	hospital with nausea, vomiting, photophobia, nuchal
was non-contributory except for mild distress. Patient's	rigidity, vertigo, headaches and subjective fevers for one
labs were significant for hypercalcemia (12.6mg/dl) and acute renal insufficiency (BUN: 38 mg/dl; creatinine: 2.7mg/dl), and	week and right-sided facial weakness, tinnitus, unilateral
thus intravenous fluids were started at 100cc/hr. Initial work up	hearing loss for 2 days. The physical exam showed a hemorrhagic vesicle located in the ear canal on otoscopic
for malignancy and multiple myeloma was unremarkable.	exam, right facial paralysis and right sensorineural hearing
Renal sonogram was ordered to rule out obstruction and showed fullness of the right kidney and non-obstructing stones	loss. The patient underwent a lumbar puncture with cell
in the left kidney. Chest x-ray showed no acute findings but a	count, gram stain, and culture and viral serologies for
non-contrast computed tomography (CT) chest showed	common causes of meningitis and encephalitis were sent. The CSF was pink and hazy with a WBC count of 568
multiple mediastinal lymph nodes with no hilar lymphadenopathy, scattered right-sided pleural and sub-pleural	mm3, 100% monocytes and 111 mg/dl of protein. The
nodules. Since the patient refused biopsy of the lymph nodes	patient was started on empiric treatment with intravenous
and kidney, an angiotensin-converting enzyme (ACE) level	Acyclovir, Vancomycin, Ceftriaxone and dexamethasone
was determined given sarcoidosis being high on the differential at this point and the patientâ€ <sup>TM</sup> s history of uveitis. The level	for bacterial and viral meningitis as well Lyme disease. Other viral serologies were negative. LP was repeated prior
was found to be high at $125 \text{ U/L}$ . The parathyroid hormone and	to his discharge to rule out rare causes of encephalitis giver
Vitamin D1 25(OH)2 levels were low and high at 4 and 131	that the previous viral serologies were negative. CSF
pg/ml respectively. For the patient's shortness of breath,	cultures were positive for Varicella and serology also
prednisone was started and pulmonary function tests were conducted, which were determined to be normal. After the	showed an abnormally high level of VZV antibodies. The presence of a rash is not an absolute criterion for a
administration of intravenous fluids and prednisone, the	diagnosis of Ramsay Hunt Syndrome. A previous study of
patient's renal function had improved and the calcium level	274 adult patients showed that 88.3% presented with
normalized. Therefore, the patient was given the diagnosis of sarcoidosis and was recommended for outpatient follow up	herpetic vesicles. Although a serological workup can
with a nephrologist and pulmonologist.	support the diagnosis, a high clinical suspicion and a meticulous physical exam can establish a diagnosis and a
DISCUSSION:	treatment plan for a patient with suspected Ramsay Hunt
This cases diagnosis of sarcoidosis was made difficult due to extrapulmonary involvement, lack of common diagnostic	Syndrome. Even though the benefit of antiviral therapy is
indicators, and uncharacteristic demographic findings. The	controversial, early initiation within 3 days can lead to
discussed patient's pulmonary symptoms without the	complete recovery from facial paralysis in 75% of patients.
typical diagnostic findings of bilateral lymphadenopathy as	Cognizance of this rare disease and its variable presentations saves medical resources, improves outcomes
well as the hypercalcemia associated acute renal failure are rare findings. These atypical findings create a diagnostic	and decreases hospital length of stay.
challenge but sarcoidosis should be considered as this case	
demonstrates.	

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Institution: KINGSBROOK JEWISH MEDICAL CENTER	<b>Title: Levamisole-Cocaine Induced Agranulocytosis</b> Introduction: Severe insidious agranulocytsis is a cause for alarm and has many etiologies. When a patient presents
Title: MY WHOLE BODY HURTS: A CHIKUGUNYA VIRUS INFECTION.	with signs and symptoms of immunodeficiency, drug use may be on the differential. Cocaine laced with the veterinary anti-helminthic agent, levamisole, has a rare side
Introduction: Chikungunya is a virus that is passed on to humans by the aggressive daytime biters the Aedes albopictus and Aedes aegypti mosquitoes. The virus, which is a single stranded RNA virus, belongs to the Togaviridae family. Since its debut in Tanzania in 1952, Chikungunya has been identified in over 40 countries around the world. The majority of cases reported in the continental United States have been imported cases. Here we report, A Haitian female with recent travel history, who presented with urinary symptoms with debilitating generalized joint pain diagnosed to have sepsis from urinary infection with concomitant chikungunya virus infection. Case Presentation: A 75 year old female presents to the Emergency Department (ED) complaining of generalized joint pain for two weeks. She had constant achy pain involving the large and small joints associated with fever, chills, nausea, generalized weakness and urinary symptoms. Her symptoms started during her recent stay with family in Haiti. She states that, two of her family members and a number of her neighbors had similar symptoms of fever associated with generalized weakness. Her past medical history was significant for diabetes mellitus and hyperlipidemia. Physical examination was unremarkable. No petechiae, organomegaly, joint swelling or tenderness were appreciated. Laboratory investigation showed, high leukocyte count (26.6) with left shift, predominant neutrophils and normal platelet. Urinalysis was positive for nitrate and white blood cell. Urine culture showed colony of E coli. She was hospitalized and treated with intravenous antibiotics. However, as the patient had persistant generalized arthralgia and bodyache with recent travel history other infection (UTI) the patient showed improvement and was discharged. Discussion: Chickungunya is a fairly uncommon virus in the US. Without a suspicion of its presence symptoms can be mistaken for more common bacterial or viral infection. Though lymphopenia, thrombocytopenia are frequently seen, they are no	veterinary anti-helminthic agent, levamisole, has a rare side effect of severe agranulocytosis. It is important for health care workers to be aware of this cause of extreme agranulocytosis so we can treat effectively and educate on its dangers. Case: A 30 y.o. female presents to the ER with sore throat, mucous stools approx. 20 times daily, 30lb unintentional weight loss and tactile fever at home. Other symptoms include headaches, fatigue, cough and myalgias. These symptoms had been reported as gradually getting worse over the last 2 weeks. Patient later mentions h/o regular cocaine use, most recent 5 days ago and seen 1 month ago for herpetic lesions to lips. On Review of systems, no chest pain, shortness of breath, abdominal pain, or rash. Physical examination showed an ill appearing patient with dry, erythematous oropharynx, scabbed herpetic lesions to left oral commissure, anterior cervical lymphadenopathy, tachycardia, and decreased breath sounds. Initial work-up showed HIV negative, CXR negative, EKG with no acute ST-T wave changes, NSR, throat culture negative for strep, WBC of 0.8 (x10E3/UL) and UA positive for cocaine and eventually levamisole. Normal WBC is between 4.0 and 10. Patient was given a course of 1 g IVPM Vancomycin, 1g and 2 g IVPM Cefepime, 300mcg injection Filgrastim and 100mg and 200mg Fluconazole tablets over the course of her 35 day hospital stay. Discussion: Before levamisole was first withdrawn from markets in 1999, it was used as an anti-helminthic agent in humans and mostly animals. Possibly due to levamisoleâC™s similar chemical properties, it was found by the DEA to be cut with more than 80% of seized cocaine in 2011. The dangers of levamisole are that it can cause agranulocytosis and also vasculitis, or, âcTlevamisole induced necrosis syndromeât <sup>CM</sup> , where the patient presents with erythematous painful papules anywhere on the skin. It is interesting and still unexplained why many patients test positive for levamisole but very few, less than 5% of the studied population, experie
infection may also be infected with chikungunya. The later should be suspected, if joint pains are out of proportion to what one might expect from bacterial pneumonia or UTI.	alleviate patient symptoms and improve healthcare through the education of the dangers of drug use.

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Title: A positive HIV ELISA during a profound immune	Disease, Albany Medical Center, Albany, NY
response: a true blue?	3) The Mycology Laboratory, Wadsworth Center, New York
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Enzyme-linked immunosorbent assays (ELISA) for HIV, is an	Institution: Albany Medical College
excellent diagnostic test, with sensitivity and specificity greater	Title: FUNGUS AMONG US: A CASE OF CENTRAL
than 99%. A false positive ELISA test is rare, occurring at a	NERVOUS SYSTEM BLASTOMYCOSIS IN A NEW
rate of 1 in 135,187 in a low risk patient population. Causes	YORK STATE RESIDENT WITHOUT TRAVEL TO
include rheumatologic disorders, infections, and disorders of	KNOWN ENDEMIC AREA
immunoglobulins.	Blastomyces dermatitidis is a dimorphic fungal pathogen thought to be
This is a case of a 30-year-old woman with no significant past	endemic to regions along the Ohio and Mississippi River basins, Great
medical history who presented with 2 days of malaise, chills,	Lakes, and St. Lawrence River, including regions of western New
and tender anterior cervical lymphadenopathy. She had	York State (NYS). The lungs are the primary route of infection due to inhalation of conidia. The spectrum of disease ranges from subclinical
undergone an elective breast reduction surgery 6 weeks prior	infections to potentially fatal systemic dissemination. Single organ
to admission. She has no HIV risk factors and a negative HIV	involvement with B. dermatitidis has been demonstrated in 69-80% of
ELISA on preoperative testing. Her surgery was	cases, most commonly isolated to the lungs. Extrapulmonary
uncomplicated; she received no transfusions. Post-operatively,	dissemination often includes the skin, bone, and genitourinary systems.
she developed surgical dehiscence that did not improve after a	Involvement of the central nervous system (CNS) occurs in 5-10% of discontinuated assess. There are non-state of isolated CNS
course of trimethoprim/sulfamethoxazole. Examination was	disseminated cases. There are rare reports of isolated CNS blastomycosis. We report a case of isolated CNS blastomycosis in a
significant for a temperature of 104.5, and a 1.5cmx0.5cmx1	NYS resident without travel history to a known endemic region.
cm area of dehiscence with purulent exudate, induration, and	A 59-year-old Caucasian female with a history of hypertension,
blanching erythema upon palpation. CBC revealed a white	osteoarthritis, and no history of perceivable immunocompromise
count of 3,600/mcL with a normal differential, and an HIV	presented with two months of vertigo. She was experiencing difficulty
ELISA was positive. Empiric therapy with IV vancomycin	with balance, but denied headaches, nausea, vision changes, or
was begun for left breast cellulitis, which was later switched to IV ampicillin/sulbactam after an adverse reaction. HIV ELISA	difficulty with speech and movement. Magnetic resonance imaging revealed a 3-centimeter lobulated mass within the right
was repeated 6 hours later and again positive, so the team	temporoparietal lobe with significant surrounding vasogenic edema.
proceeded with an HIV work-up. On hospital day 3, her HIV	Differential diagnosis included primary and metastatic neoplasm and
quantitative PCR came back negative and white count	abscess, for which the patient was seen by neurosurgery. Operative
normalized to 4.8. Western blot was also negative for HIV	dissection revealed a firm, pedunculated mass that contained purulent
protein and CD4+ count was normal. Urine and blood cultures	material. A specimen submitted for Gram's stain revealed few
were negative, and gram stain from her wound culture was	polymorphonuclear leukocytes and no organisms. Remaining tissue was submitted for histopathology, which showed necrotizing
negative. Given she had no risk factors for HIV except for her	granulomatous inflammation containing broad-based budding yeasts
breast reduction surgery, interpretation of her HIV panel was	suggestive of CNS blastomycosis. Liposomal amphotericin B (LAB)
tentatively HIV-negative and she was advised to have a repeat	was immediately initiated. Culture of brain tissue ultimately grew
ELISA and PCR in 3 weeks.	small, white fungal colonies on day seven of incubation. The culture
Surgery and health-care transmission of HIV, has only	was confirmed as B. dermatitidis by conventional and real-time PCR
happened in one reported case of the literature and is not	assays and by its conversion to the yeast form on cottonseed agar at 37°C. Additionally, the formalin-fixed paraffin embedded tissue
considered a risk factor. Her false positive test was attributed	was positive for B. dermatitidis DNA by real-time PCR assay. B.
to her highly inflammatory state secondary to cellulitis.	dermatitidis was also identified by urine antigen test. After eight days,
ELISA works by linking the HIV antibody between the walls	LAB was discontinued due to nephrotoxicity and oral voriconazole
of wells coated with HIV antigen and a chromogenic molecule	was initiated. No other anatomic focus of infection was identified.
that changes color with a provocative solution. If a	Detailed travel history revealed no travel to known endemic regions
patientâ€ <sup>™</sup> s serum has HIV antibody, it will bind the antigen,	within the past 12 months. At three months of follow up, the patient is doing well and has returned to her normal activities of doily living
and the liquid in the wells changes to the color blue. Over	doing well and has returned to her normal activities of daily living. CNS blastomycosis is an uncommon manifestation of disseminated
99% of the time, the HIV immunoglobulin binds the HIV	disease and isolated CNS blastomycosis is exceedingly rare.
antigen in the ELISA test. However, other conditions which	Blastomyces dermatitidis should be recognized as an emerging
produce high levels of immunoglobulins can bind the HIV	pathogen outside the confines of its traditional geographic distribution.
antigen coated wells, causing a color change and false positive	This case, as well as other sporadic case reports from NYS, should
tests.Key takeaways: ELISA is a qualitative test (binary: blue	prompt reconsideration of the endemicity of this organism.
or clear). The HIV ELISA test is highly accurate, but should be	
interpreted in the context of the patients HIV risk and	
conditions that could effect immunoglobulin production.	



# New York Chapter ACP

**Annual Scientific Meeting** 

### **Medical Student**

Research

Friday, February 6, 2015

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Institution: NEW YORK METHODIST HOSPITAL

#### Title: RACING AGAINST THE CLOCK - INTERNAL MEDICINE RESIDENTS' USE OF ELECTRONIC MEDICAL RECORDS

Purpose: Electronic Medical Records (EMR) plays an increasingly significant role in patient care today. A common complaint from both physicians and patients is that physicians spend more time on the computer instead of the patient. The purpose of this abstract is to identify and analyze the time spent using EMR by Internal Medicine (IM) residents in our hospital.

Methods: Active EMR usage data was collected from the EMR user database for IM residents from 5/1/2014-5/31/2014. With the exception of a few tablet devices, active EMR use time was mostly spent at a computer station away from the bedside. Active EMR use was defined as more than 3 mouse clicks per minute or more than 1,700 mousemiles per minute or more than 15 keystrokes per minute. EMR usage activities were divided into Chart Review, Orders, Documentations, and Others. A total of 101 residents (36 PGY1s, 35 PGY2s, and 30 PGY3s) were identified and included in the study. Residents participated in ambulatory, emergency and in-patient care. EMR usage data were sorted by average time residents spent per patient chart. Residents were then divided into two groups based on usage above or below the median. 50 residents who averaged less time per patient chart were termed more efficient users (MEU). Remaining residents were termed less efficient users (LEU).

Results: In a month span, 101 residents accumulated 7,779 hours of active EMR usage over 12,911 individual patient charts. Each resident spent on average 75 hours of active use, averaging 47 minutes per patient chart. PGY1s spent the least amount of time and PGY3s spent the most amount of time (29 vs. 61 minutes) per patient chart. Relative to the total time spent per patient chart, residents spent most of the time on chart reviews (18 minutes, 36-39%), and least on placing orders (8 minutes, 12-19%). Compared to PGY3s, PGY1s used more time placing orders (19% vs. 12%). Compared to LEUs, MEUs were more likely to be PGY1s (66% vs. 6%), have viewed more patient charts (176 vs. 81), and used less time per patient chart in all categories (p < 0.01). Per patient chart, MEUs on average saved 15 minutes (61%) on chart review, 5 minutes (52%) on orders, 7 minutes (49%) on documentations and 9 minutes (61%) on other activities (all p < 0.01). Conclusions: Residents spend a significant amount of time actively using EMR. Most of their time was spent on chart review. MEUs saved the most time in chart review, suggesting that chart review time could be reduced. Larger prospective studies are in progress to confirm our results. Emphasis should be placed on reducing time needed for EMR usage to increase time at the bed side.

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Institution: Albany Medical College Title: Measurement of Motion of Carotid Bifurcation Plaques

Atherosclerotic carotid bifurcation plaque rupture is a major cause of ischemic stroke and transient ischemic attacks. It is recognized that this is due to the occlusion of blood vessels by detached fragments of plaque or fragments of a thrombus that has formed on the ulcerated plaque. However, while much is known about the pathology of atherosclerotic plaques, the cause of plaque rupture is not entirely understood. Evidence shows that plaque extrication occurs subsequent to lymphocytic erosion of a plaque's fibrous cap. In addition to this, it has been proposed that mechanical forces contribute to the ultimate phenomenon of plaque rupture or ulceration. These mechanical forces are produced by the blood pressure oscillations, blood flow and blood vessel movement throughout the cardiac cycle. It has been suggested that asymptomatic plaques, which do not rupture, have all of their components moving in the same direction as they are influenced by mechanical forces. Conversely, plaques that tend to rupture display uncoordinated movement throughout the cardiac cycle. Therefore, nonsynchronous motion, with different portions of a plaque moving in opposing directions, may be a determinant factor in its symptomaticity – a matter that this ongoing research aims to elucidate and a factor that may be able to predict risk. Using standard ultrasound imaging, ultimately, this research will allow for a non-invasive, easily-accessible, cost-effective method of assessing the utility and risk of intervention such as carotid endarterectomy. Video loops of B-mode ultrasound images of 35 carotid bifurcation plaques were obtained (4 symptomatic and 31 asymptomatic) from patients with carotid bifurcation atherosclerosis. Video loops were classified visually as showing concordant (n=22) or discordant motion (n=13). Concordant plaques were characterized by uniform orientation of motion throughout the cardiac cycle. Discordant plaques exhibited significant spread in motion orientation at different parts of the cardiac cycle, especially at systole. We developed real-time motion analysis software that applies Farneback's method to estimate velocities between consecutive video frames, and can be easily utilized in conjunction with standard ultrasound imaging. Over each frame of the B-mode ultrasound video loops, we measured the spread of the motion orientation around the dominant orientation. For each video, we looked at the spreads of the motion orientations for different motion magnitudes. Using these motion-spread measurements, we quantified discordant movement. Motion spread measurements were analyzed in terms of Sum of Maximum Fan Widths (SMFW), a measure derived from pixel motion vectors. A median value of 100 degrees and inter-quartile range (IOR) of (80, 110) degrees was established for the concordant plaques and 270, (230, 430) for the discordant plaques (P < 0.001). Therefore, we have a new tool to differentiate between concordant and discordant plaques, and are one step closer to an effective, efficient diagnostic tool.



# New York Chapter ACP

**Annual Scientific Meeting** 

**Resident/Fellow** 

**Clinical Vignette** 

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	System
Title: FATAL RECURRENT SICKLE CELL	
INTRAHEPATIC CHOLESTASIS	Title: Isolated medial rectus nuclear palsy as a rare
Introduction	presentation of midbrain infarction.
Sickle cell intrahepatic cholestasis (SCIC) is a rare and potentially fatal	Introduction:
complication caused by sickling within the hepatic endothelium	Diplopia is a common subjective complaint which can be
leading to vascular stasis and ischemia, characterized by severe direct hyperbilirubinemia and usually associated with renal failure and	the first manifestation of a serious pathology. Here, we
coagulopathy. Early exchange transfusion is the best treatment option.	report a rare case of midbrain infarction involving the
	lateral subnucleus of the occulomotor nuclear complex
Case description A 50-year-old African-American male with sickle cell disease (SCD)	presented as diplopia with no other stroke manifestations.
was admitted for right upper quadrant pain, jaundice and anemia. His	We outline the clinical approach taken to identifying the
history included stage II chronic kidney disease (CKD), secondary	etiology of diplopia including images and video
hemochromatosis and SCIC 6 months prior to admission. Laboratory initially showed severe anemia, leukocytosis and mild	demonstrating the key physical findings in this patient. Case Description:
hyperbilirubinemia and transaminitis. He was treated with	83 year old right handed Caucasian male with past medica
transfusions, fluids, hydromorphone and hydroxyurea. After 48 hours	history of diabetes mellitus, hypertension, dyslipidemia,
he suddenly developed worsening pain and abdominal distention, fever, altered mental status, venipuncture site bleeding and acute	and coronary artery disease presented to the emergency
hypoxemic respiratory failure from pulmonary edema. Laboratory	department (ED) with diplopia and unsteadiness for 2 days
showed new extreme direct hyperbilirubinemia (39.8 mg/dL), rising	Two days prior to admission, he woke up with mild fronta
INR and thrombocytopenia, worsening renal function, stable	headache which was dull in nature and had gotten worse
transaminases and schistocytes and target cells in the peripheral smear. Hepatitis serologies, blood and urine cultures were negative.	since then. He developed constant horizontal diplopia and
Ultrasound showed marked hepatomegaly, ascites, right pleural	had unsteadiness which limited his daily activities and led
effusion and no extrahepatic cholestasis. He was treated in the ICU	to a fall at home. The patient denied any weakness or
with empiric vancomycin and cefepime, diuresis, non-invasive mechanical ventilation, FFPs, vitamin K and cryoprecipitate, strict	clumsiness, nausea, vomiting, photophobia, fever or chills Ocular exam showed a disconjugate gaze at rest, weakness
volume restriction, ursodeoxycholic acid and full automated-exchange	of the left medial rectus muscle, impaired convergence tes
transfusion with successful decline in hemoglobin S (HbS) levels from	and bilateral 3-mm reactive pupils (figure 1)(video 1). The
40% to 12%, however, his coagulopathy, non-oliguric renal injury and volume overload worsened with pericardial effusion requiring	diplopia resolved by closing the left eye. The remaining
pericardial window and hemodyalisis. The hyperbilirubinemia	extraocular muscles and other cranial nerves were normal.
persisted despite a second exchange transfusion. He succumbed to	There was no nystagmus, ptosis or visual field deficit.
multiorgan failure.	Sensation and muscle tone and strength were normal in all
Discussion	extremities. Magnetic resonance image of the brain
SCIC is an unusual complication of SCD easily confused with the self-	revealed a tiny focus of restricted diffusion in the left
limited sickle cell hepatic crisis and mistakenly treated with simple transfusions leading to hyperviscosity complications. Extreme	posterior lateral midbrain and an incidental finding of advanced amyloid angiopathy.
hyperbilirubinemia with conjugated fraction higher than 50% is the	Discussion:
distinctive hallmark from hepatic sequestration which has a	An appropriate history and physical examination is
nepatotoxic rather than cholestatic pattern. Coagulopathy, eukocytosis, fever, encephalopathy and renal failure are common.	essential to diagnose and manage diplopia. The binocular
Data shows survival benefit from early exchange transfusion and HbS	diplopia in our patient limited our differential diagnosis to
eduction. We present a male whose first episode was successfully	impaired neural control or function of the extraocular
reated but perished despite supportive measures and successful exchange transfusion after recurrence. To our knowledge no other	muscles. Horizontal diplopia further shortened the
recurrent case has been reported. Record review of the initial episode	differential diagnosis list to impairment of the medial
showed coagulopathy, kidney injury and extreme hyperbilirubinemia	rectus, lateral rectus or both. The diagnosis of midbrain
that resolved on discharge with recovery of full functionality and	infarction involving the lateral subnucleus of the occulomotor nuclear complex was confirmed by MRI.
baseline creatinine, bilirubin and coagulation profile levels. It is unknown if recurrence is common as no long term outcomes are	Isolated extraocular palsy is usually thought to be caused
described in reported cases. In our patient, recurrence occurred at 6	by orbital lesions or muscular diseases. However, this case
months and showed lower peak bilirubin levels but more severe	exemplifies the importance of systematic clinical approach
multiorgan involvement, absent response to exchange transfusion and ultimately a fatal outcome. Older age and comorbidities as	to elucidate the etiology of diplopia and avoid missing a
hemochromatosis and CKD might have contributed to the poor	serious underlying diagnosis such as cerebrovascular
outcome.	accidents.

accidents.

outcome.

Author: Erik Anderson MD	Author: Erik Anderson MD
Additional Authors: Asha Patnaik, MD; Heidi Roppelt, MD	
	Institution: Stony Brook University Hospital
Institution:Stony Brook University Hospital	
	Title: OBSTRUCTIVE UROPATHY DUE TO A
Title: THE RS3PE SYNDROME	URETEROINGUINAL HERNIA
Introduction	Introduction
Remitting seronegative symmetrical synovitis with pitting edema	Obstructive uropathy caused by incarceration of the ureter
(RS3PE) is a rare inflammatory arthritis that was first described in	secondary to a hernia is rare. When present, the majority of
1985. Since that time, there have been several case reports	cases are associated with inguinal hernias; however,
describing its association with malignancy. Recognition of this syndrome is imperative since it has an associated malignancy rate	incarceration is uncommon in these hernias due to their invariably large size. Ureteroinguinal hernia as a cause of
reported as high as 54%.	hydronephrosis can be included in the differential when a
Case Presentation	hernia is found on imaging or upon detecting a hernia on
A 65-year-old African-American man with a remote history of	physical exam.
colonic adenocarcinoma (stage II, status-post chemotherapy and	Case Presentation
resection in 1993) presented with sudden onset bilateral hand	An 87-year-old male with a history of polycystic kidney
swelling and pain, along with bilateral shoulder and hip pain, that persisted for 6 weeks. He described an 11-kilogram involuntary	disease status post bilateral nephrectomies and a living related donor transplant in 2001 presented with fevers and shortness of
weight loss over that period. He had diffuse pitting edema and	breath. He had left lower lobe crackles and a reducible right
tenderness to palpation of both hands. Laboratory results were	inguinal hernia. He was diagnosed with a lobar pneumonia and
significant for a negative rheumatoid factor (RF) and anti-nuclear	treated with intravenous antibiotics. On hospital day 3, he
antibody, and mildly elevated acute phase reactants. X-rays did	developed an acute kidney injury (AKI), thought to be
not show erosive changes. A diagnosis of RS3PE was considered and the patient was started on 30 mg of daily prednisone.	secondary to antibiotics versus dehydration, and was started on normal saline. He subsequently developed respiratory distress
Computed tomography of the chest/abdomen/pelvis was negative	secondary to pulmonary edema. An ultrasound to evaluate
for mass or lymphadenopathy. He was treated with prednisone for	progressively worsening AKI revealed moderate to severe
3 weeks with an incomplete response. A colonoscopy performed 5	hydronephrosis of the right transplant kidney that was new
months later revealed a large polyp (3.3 cm) in the hepatic flexure	compared to a prior computed tomography (CT) scan of the
and a small sigmoid polyp, both negative for carcinoma. The patient subsequently underwent a right hemicolectomy given the	abdomen/pelvis. It also showed moderate hydroureter with the distal aspect of the ureter not visualized, suspicious for
high risk of cancer recurrence in the large polyp.	obstruction. A CT cystogram was performed to evaluate for
Discussion	obstruction and revealed marked hydronephrosis and
RS3PE is a syndrome characterized by bilateral pitting edema of	hydroureter, demonstrating reflux into the collecting system.
the hands, sudden onset of polyarthritis, age greater than 50, and	Furthermore, it revealed incarceration of a dilated ureter along
seronegativity for RF. Seronegative rheumatoid arthritis and polymyalgia rheumatica are important diagnostic alternatives that	with the anterior portion of the bladder within a fat-containing
should be considered. The majority of RS3PE cases have occurred	right inguinal hernia. Urology was consulted and the patient underwent a right nephrostomy tube placement. After relief of
prior to or concurrent with a cancer diagnosis. There are two case	the obstruction, his creatinine returned to baseline levels. He
reports of RS3PE occurring subsequent to the initial cancer	was scheduled for outpatient ureteral reconstruction and right
diagnosis; however, these patients had active cancer at the time of	inguinal hernia repair.
diagnosis.	Discussion
Our case is unique in that the diagnosis of RS3PE was made 20 years after the cancer diagnosis, in the absence of active or	Herniation of the ureter into an inguinal hernia is an extremely uncommon scenario; however, if it is missed it can
recurrent cancer. Also, the majority of RS3PE cases described thus	have serious complications. It typically presents as a mass in
far have associated concurrent malignancy with suboptimal steroid	the groin without urinary symptoms. A recent case report
response; however, in this case concurrent malignancy was not	describes a patient with the left ureter present in an inguinal
present, despite an incomplete clinical response to steroids.	hernia, with associated mild left ureterohydronephrosis,
A proposed mechanism for the pathogenesis of RS3PE involves increased production of growth factor (VEGF) and/or cytokine	although no mention of incarceration. It appears that incarceration is especially uncommon; however, the present
(IL-6), influenced by tumor cells. Glucocorticoids are the	case illustrates the benefit of early recognition.
mainstay of therapy; tocilizumab, a novel IL-6 inhibitor, has been	Nephrostomy tube placement is an important adjuvant
shown in small studies to be an effective treatment for RS3PE in	treatment that allows relief of the obstruction while at the same
cases refractory to glucocorticoid therapy.	time allowing surgical exploration under optimal conditions.
In conclusion, RS3PE is associated with multiple cancers, but may also present years after malignancy or in the absence of active	Surgical repair involves careful dissection of the ureter free of the hernia, followed by simple reduction of the hernia into the
cancer. However, all patients who present with RS3PE should	abdomen. The surgeon must be aware of the possibility of
have an appropriate evaluation for malignancy.	ureteroinguinal hernia in order to avoid ureteral injury during
	hernia repair, which makes recognition of the condition
	important.

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Additional Authors: Anuradha Belur MBBS, Jay Lipshitz MD	MS,
Institution:Maimonides Medical Center	WILLIAM SOLOMON MD.
Title:A RARE CASE OF POEMS SYNDROME WITH	Institution: Maimonides Medical Center
BICLONAL IMMUNOGLOBULIN SPIKE	Title:IMMUNE HEMOLYSIS AND ASEPTIC MENIGITIS AFTER INTRAVENOUS
INTRODUCTION:	IMMUNOGLOBULIN
POEMS syndrome (polyneuropathy, organomegaly, endocrinopathy,	
monoclonal protein and skin changes) is believed to be secondary to	INTRODUCTION
chronic overproduction of pro-inflammatory cytokines [1]. The median	Human intravenous immunoglobulin (IVIG) products are generally
age of presentation is 51 and the majority are men [2]. Polyneuropathy	considered safe and are used for the treatment of a variety of
and a monoclonal spike which is almost always lambda chain [3] are	autoimmune and pro-inflammatory states. However, controlled trials
essential for diagnosis. We present a patient with POEMS syndrome with	involving IVIG have been of small size with limited power and
a previously unreported bi-clonal immunoglobulin spike. CASE PRESENTATION	described only the most common adverse effects [1]. IVIG related
A 71 year old female presented to the clinic with paresthesia of her	hemolysis is a rare adverse effect and is usually self-limited, rarely
fingers, dyspepsia and a ten pond weight loss over 3 months. Physical	requiring blood transfusions. A few case reports have also described
exam was significant for pedal edema. Computed tomography of the	aseptic meningitis after IVIG use. We describe a patient who
abdomen and pelvis showed several sclerotic lesions of the lumbar spine	developed severe hemolytic anemia and aseptic meningitis after
and pelvis and gastric wall thickening. An upper gastrointestinal	IVIG use. CASE PRESENTATION
endoscopy showed the presence of antral gastropathy. Serum vascular	A 54 year old woman was admitted with severe head ache, dark
endothelial growth factor (VEGF) was four times higher than normal.	colored urine and shortness of breath twenty four hours after
Serum protein electrophoresis showed a bi-clonal IgG kappa and IgG	receiving IVIG. She was diagnosed with chronic inflammatory
lambda spike. Bone biopsy of the sclerotic lesion showed the presence of	demyelinating polyneuropathy (CIDP) a month ago and was started
clonal plasma cells with the same biclonal spike. The patient was	on IVIG. Physical exam was unremarkable. Laboratory tests showed
diagnosed with POEMS syndrome and started on lenalidomide, bortezomib and dexamethasone.	severe anemia with a hemoglobin of 6.1 g/dl (baseline 13 g/dl),
DISCUSSION	indirect hyper-bilirubinemia, low haptoglobin, elevated LDH and
POEMS syndrome is diagnosed using the Mayo clinic criteria [4]. The	hemoglobinuria confirming hemolysis. Hematological testing
two mandatory criteria are polyneuropathy and a monoclonal plasma cell	revealed a positive direct antiglobulin test (DAT), DAT IgG, DAT
proliferation. In addition one major (osteosclerotic lesions,	CD3 and eluate testing were also positive. A lumbar puncture
Castlemanâ€ <sup>™</sup> s disease and elevated VEGF levels) and one minor	showed neutrophil pleocytosis but no bacteria. A diagnosis of IVIG
criteria (organomegaly, extravascular volume overload including	induced hemolysis and aseptic meningitis was made. O negative packed red blood cells were transfused for severe symptomatic
peripheral edema, endocrinopathy, skin changes, papilledema and	anemia and non-steroidal anti-inflammatory drugs were given for
thrombocytosis or polycythemia) must be present for making a	headache. Steroids were deferred since the source of antibodies
diagnosis. The underlying monoclonal spike on immunofixation almost	causing hemolysis was extrinsic. She improved clinically and blood
exclusively involves the lambda light chain [3]. The patient described above is the first documented with a biclonal spike. Treatment is similar	counts returned to baseline in three weeks.
to multiple myeloma and may involve radiation, melphlan,	DISCUSSION
dexamethasone, lenolidamide or bortezomib. The estimated five-year	Pooled IVIG is extracted from at least 1000 individuals and contains
survival is 60 percent [5].	highly purified polyvalent IgG [2]. Hemolysis after IVIG is thought
KEY POINTS	to be secondary to donor antibodies against host red blood cell
-POEMS syndrome has a variety of clinical manifestations that may be	antigens and resolves once IVIG is stopped. Risk factors for
missed in isolation.	hemolysis include non-O blood types and the use of high dose IVIG. The patient described was of AB Rh positive blood type but did not
-It is important for the internist to know the protean manifestations of	receive high dose IVIG. Aseptic meningitis is another rare adverse
this rare disease which is treated similar to multiple myeloma.	effect that has been postulated to be related to antibodies in the IVIG
REFERENCES	that mimic antineutophil cytoplasmic antibodies (ANCA) which
[1] Overproduction of proinflammatory cytokines imbalanced by their	activate neutrophils causing neutrophilic pleocytosis [3]. The
antagonists in POEMS syndrome. Gherardi RK et al. Blood. 1996;87(4):1458.	internist must be aware of these two rare complications of a
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et al. Blood. 2003;101(7):2496.	REFERENCES
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2009;23(1):3.	[3] Intravenous immunoglobulins contain naturally occurring
[5] Plasma-cell dyscrasia with polyneuropathy. The spectrum of	antibodies that mimic antineutrophil cytoplasmic antibodies and
POEMS syndrome. Miralles GD et al. N Engl J Med 1992 Dec 31;327(27):1919-23.	activate neutrophils in a TNF alpha-dependent and Fc-receptor-
<i>51,521,21</i> ,1717 <sup>-</sup> 2 <i>3</i> .	independent way. Jarius et al. Blood. 2007;109(10):4376.

Additional Authors: Systems The Systems Institution: Maimonides Medical Center Title: Anomalous Origin of Left Main Coronary Artery from Right Sinus of Valsalva Introduction - Coronary artery anomalies are rare, with an stimated prevalence of around Syn [1]. These anomalies vary with respect to number, location, orientation of the osti, and ceah. Another, Case Presentation - A 46 year old male presented to or mergency department (ED) with compaints of studen cardiac chest pain which any clinical relevance: others correct promes of the Lott Abate and the analy and any associated abortness of breath, palpitutions or dizzines. His vital signs reasmination were normal. An electricaral way associated abortness of breath, palpitutions or dizzines. His vital signs reasmination were normal. An electricaral and and the results of regaratory and cardiavascular transmination were normal. An electricaral directivitation the ED showed ST segment elevation in leads I, and Lin Main Coronary Artery (JMCA) that dul not resolve after intra-coronary Artery (JMCA) that dul not resolve a der intra-coronary introglycerin was administered. However, here was no evident abroweleronical, which showed hat the IMCA was anomalous orginating a art aceuse angle from the lafe Tighte <sup>EM</sup> coronary stress, and clinicar leavance intro of the LoCA batewere proximal acconding and and the plannonary trans. Anney incleance, EMIN and and the results of the LMCA was anomaly the wever, here origin of Left Main Coronary trey thigh-risk anomaly: howvert, herefused intra-coronary introglycerin was olfred corrective surgical repair for this very ingherisk anomaly: howver, herefused intervention despits to external compression of the LMCA was anomaly repair for this very ingherisk anomaly: howver, herefused intervention despits to external compression of the LMCA with can result in accending and and the plannonary trans. Amony artery from the Right Sinus of Valsalva (approximate prevalence ingle Sinus of Valsalva (approximate prevalence) in the result of col	Author: Sameer Chadha	Author: Andrew Creighton D.O.
<ul> <li>Brorgen, Gerald Hollander, Robert Frankel, Jacob Shani Institution:Maimonides Medical Center</li> <li>McB. B.S., Olaide Akande M.B. B.S., Stephen Chramowski M.D., Henri Woodman M.D., Yubso Wang M.D.</li> <li>Institution: University at Burfalo - Catholic Health Systems Internation - Coronary artery anomalies are rare, with an estimated prevalence of around 5% [1]. These anomalies vary with respect to number, location, orientation of the ostia, and rigin of the coronary arteries. Some anomalies are merely anatomic variants without any clinical relevance: others can easen with ches pain, synceps, or sudden cardiac dath. Anolog.</li> <li>Case Presentation - A 46 year old male presented to our emergency department (FD) with complaints of sudden orale dath. Anolog.</li> <li>Case Presentation - A 46 year old male presented to our emergency department (FD) with complaints of sudden orale storates of breath, palpitations or dizziness. His vital sign were stable, and the results or reparatory and cardiovascular examination were normal. An electroizardiogram performed the ED showed streation in Least J, act. and VI through VS with reciprocal depression in the inferior least, which Prevaled harrowing at the ostium of Left Main Coronary nitroglycerin was administered. However, there was no evident aderorksprok disease.</li> <li>To better characterize the lesion, a Coronary CT Angiogram interoglycerin was administered. However, there was no evident ageressive counseling. The rest of his hospitalization was mornalously originating at an acute angle from the subgervient revorancy sinus. The CT also highlighted the highest risk for chinal represussions. The outward expansion of the andir, coronary anteries. CT and huber Coronary interoglycerin was administered. The anover, there was no robustical faraction of the LMCA which can result in ageressive counseling. The rest of his hospitalization was increased and hube was discharged in stable coronary antery induce operandia lafteriction o sudden Ca</li></ul>		
<ul> <li>Institution: Maimonides Medical Center</li> <li>Thite: Anomalous Origin of Left Main Coronary Artery from Right Situs of Valsalva</li> <li>Introduction - Coronary artery anomalies are merely attimeted prevalence of around 5% [1]. These anomalies are merely attority attained prevalence of around 5% [1]. These anomalies are merely attority attained prevalence of around 5% [1]. These anomalies are merely attority attained the set pain, syncope, or sudden cardiac death. Achisp;</li> <li>Case Presentation - A 46 year old male presented to our emergency department (ED) with compaints to studies on the ED showed 5T segment elevation in leads I, av1, and V1 with respect detectoracrifogram performed in the ED showed ST segment elevation in leads I, av1, and V1 with respect detectoracrifogram performed in the ED showed ST segment elevation in leads I, av1, and V1 with respect detectoracrifogram performed in the ED showed ST segment elevation in leads I, av1, and V1 with respect detectoracrifogram performed in the ED showed ST segment elevation in leads I, av1, and V1 with respect detectoracrifogram performed in the ED showed ST segment elevation in the LM and coronary Artery (LMCA) that did not resolve after intra-coronary attrees (LMCA) with showed that the LMCA was anomalowely originating at an acute angle from the algenesity contary sins. The CT also highlighted the subsceptent mangematic ourse of the LMCA between provantion acute Moycardial Infarction or Sudden Cardiac Prevalence (L159) is a subgroup of Left Main coronary artery from the Right Sinus of Valskie (approxima prevalence, 0.159) is a subgroup of Ceronary artery anomalies that has the prevalent All valskie (as accereased) appetite, dysaria, and uniary frequency. The peripheral secretic, dystraia, and afterulinonary artery anomalowely originating at an acute angle f</li></ul>		
<ul> <li>Institution: Maimonides Medical Center</li> <li>Title: Anomalous Origin of Left Main Coronary Artery from Right Sinus of Valsava</li> <li>Institution: University at Buffalo - Catholic Health Systems Internal Medicine Training Program</li> <li>Title: Shiga-toxin Positive Hemolytic Uremic Syndrome in a HIV-negative Adult Patient with Kaposi Sarcoma and Foliaclar Lymphona</li> <li>Title: Shiga-toxin Positive Hemolytic Uremic Syndrome in HIV-negative Adult Patient with Kaposi Sarcoma and Foliaclar Lymphona</li> <li>Instruduction: Hemolytic uremic syndrome (HUS) is most often and real not hest pain syncope, or sudden cardiac teath. Anbop.</li> <li>Case Presentation - A 46 year old male presented to out emergency department (ED) with complaints of sudden onset teamination were normal. An electrocarardiogram performed tabs are suble, and the results or or partice radivascular examination were normal. An electrocardiogram performed the ED showed ST segment elevation in leads 1, acd. and V1 through V5 with reciprocal depression in the inferior leads. To better characterize di Infections agent that damages endothelial cells is the patient was subled for an urgent cardiac cardivascular examination were normal. An electrocarardiogram performed in the Divide Stagement elevation in leads 1, acd. and V1 through V5 with reciprocal depression in the inferior leads. To better characterizze the lesion, a Coronary CT Angiogram intergylycerin was administered. However, there was no evident agenesive counseling. The rest of his hospitalization was anomalously originating at an acute angle from the ight-risk anonyly; however, he CT also highlight the subscience fear and beneful montary trunk. Arkops: The patient was offered coronary sints: Wath and the ITACNA was anomalously originating at an acute angle from the ight-risk anonyl; however, he refused in rerenvance open brops wound of the left foot. Laboronary antery molicity second eleval foot calcular there subscience feary shall harbaretion or S</li></ul>	borgen, Geraid Hollander, Kobert Frankel, Jacob Shafi	
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<ul> <li>Title: Anomalous Origin of Left Main Coronary Artery rom Right Sinus of Valsalva</li> <li>Introduction - Coronary artery anomalies are rare, with an estimated prevalence of around 5% [11]. These anomalies vary with respect to number, location, orientation of the ostin, and origin of the coronary arteries. Some anomalies are merely anatomic variants without any clinical relevance; others are merely anatomic variants without any clinical relevance; others and earth. Some anomalies are merely anatomic variants without any clinical relevance; others and earth. Some anomalies are merely anatomic variants without any clinical relevance; others case Present with. Act Space of duale presented to our emergency department (ED) with complaints of sudden conset shorts so of breach, palpitations or dizziness. His vital signs were stable, and the results of respiratory and activity anteroy (LMCA) that did not resolve after intra-coronary three yell mervices of the softim of LMCA was anomalously originating at an acture angle from the dif rightfe<sup>MC</sup> ouronary sinus. The CT also highlighted the subsequent malignant course of the LMCA was anomalously originating at an acture angle from the dif rightfe<sup>MC</sup> oronary sinus. The CT also highlighted the subsequent malignant course of the LMCA was anomalously originating at an acture angle from the dif rightfe<sup>MC</sup> oronary sinus. The CT also highlighted the subsequent malignant course of the LMCA where proximal sacending aorta and the pulmonary trunk Amby: The patient was discharged in stable condition. Discussion: A manaly, however, the refused in intervine dir systemet of the sterend of vals to Yeene from the dif rightfe<sup>MC</sup> oronary sinus. The CT also highlighted the diff rightfe<sup>MC</sup> oronary sinus. The CT also highlighted the diff rightfe<sup>MC</sup> oronary sinus. The CT also highlighted the diff rightfe<sup>MC</sup> oronary sinus of Valsalva (approximate prevalence, 0.15%) is a subgroup of coronary artery from the diff rightfe<sup>MC</sup> oronary sinus of</li></ul>	Institution: Maimonides Medical Center	
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<ul> <li>The patient was rushed for an urgent cardiac catheterization which revealed narrowing at the ostium of Left Main Coronary Artery (LMCA) that did not resolve after intra-coronary mitroglycerin was administered. However, there was no evident atherosclerotic disease.</li> <li>To better characterize the lesion, a Coronary CT Angiogram was performed, which showed that the LMCA was anomalously originating at an acute angle from the 3c<sup>+</sup> right<sup>3C</sup> coronary sinus. The CT also highlighted the subsequent malignant course of the LMCA between proximal ascending aorta and the pulmonary trunk. Ambsp;</li> <li>The patient was offered corrective surgical repair for this very high-risk anomaly; however, he refused intervention despite agressive counseling. The rest of his hospitalization was unevenful, and he was discharged in stable condition.</li> <li>Discussion - Anomalous origin of Left Main coronary artery from the Right Sinus of Valsalva (approximate prevalence, Conclusion - The origin of Left Main coronary artery from the Right Sinus of Valsalva (approximate prevalence, Conclusion - The origin of Left Main coronary artery from the kight Sinus of Valsalva (approximate prevalence, Conclusion - The origin of Left Main coronary artery from the kight Sinus of Valsalva (approximate prevalence, Conclusion - The origin of Left Main coronary artery from the highest risk for clinical repercussions. The outward expansion of the LMCA which can result in acute Myocardial Infarction or Sudden Cardiac Death [2]. The only definitive treatment is surgical repair.</li> <li>Angelini P, Velasco JA, Flamm S. Coronary Artery Originating from the Right Sinus of Valsalva and coronary Artery originating from the Right Sinus of Valsalva and coronary Artery originating from the Right Sinus of Valsalva and coronary Artery originating from the Right Sinus of Valsalva and coronary Artery originating from the Right Sinus of Valsalva and coronary Artery originating from the Right Sinus of Valsalva and coronary Artery orig</li></ul>		
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<ul> <li>†rightâ€<sup>TM</sup> coronary sinus. The CT also highlighted the subsequent malignant course of the LMCA between proximal ascending aorta and the pulmonary trunk. Anbsp;</li> <li>Completed his second cycle of doxorubicin one week prior for Kaposi Sacroma, and he noted a visit to Yemen four months prior. Physical exam revealed an afebrile, confused male with a cachectic, dehydrated appearance. Examination of the lower extremities revealed pitting edema, plethoric discoloration, and venous changes. The patientâ€<sup>TM</sup>s feet were desquamated and showed evidence of dry skin along with a 3 x 2 centimeter open biopsy wound of the left foot. Laboratory evaluation revealed an HIV negative patient with a hemoglobin of 10g/dL, platelet count of 53µL, and creatinne of 110g/dL, platelet count of 53µL, and creatinne of 110g/dL, platelet count of 53µL, and creatinne of 188mg/dL. Haptoglobin level was &lt;30mg/dL. The peripheral somar revealed in presence of schistocytes. The patientâ€<sup>TM</sup>s admission stool studies came back positive for Shiga-toxin 1 and 2, and E. coli serogroup 0111 was isolated. Given these results, the medical team urgently scheduled plasma exchange therapy. Following two weeks of plasma exchange therapy, the patient responded with improvement in platelet count and renal function. Discussion: Shiga-toxin positive HUS in an adult with E. coli 0111 isolated as the causative agent is rare. This patientâ<sup>CTM</sup>s immunocompromised state after finishing chemotherapy may have increased his susceptibility to E. coli 0111 infection. The Department of Health was notified as this could be a potential index case for infectious outbreak. The rapidity of this patientâ<sup>CTM</sup>s decline underlies the urgency required for treatment when HUS is suspected.</li> </ul>		
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<ul> <li>Conclusion - The origin of Left Main coronary artery from the right Sinus of Valsalva is an extremely rare coronary anomaly which can result in acute Myocardial Infarction or Sudden Cardiac Death in young patients. </li> <li>Cardiac Death in young patients. </li> <li>References -</li> <li>Angelini P, Velasco JA, Flamm S. Coronary Anomalies: Incidence, Pathophysiology, and Clinical Relevance. Circulation 2002; 105(20):2449-54.</li> <li>Barth CW III, Roberts WC. Left Main Coronary Artery Originating from the Right Sinus of Valsalva and coursing between the Aorta and Pulmonary Trunk. J Am Coll Cardiol</li> <li>therapy. Following two weeks of plasma exchange therapy, the patient responded with improvement in platelet count and renal function. Discussion: Shiga-toxin positive HUS in an adult with E. coli 0111 isolated as the causative agent is rare. This patientâ€<sup>TM</sup>s immunocompromised state after finishing chemotherapy may have increased his susceptibility to E. coli 0111 infection. The Department of Health was notified as this could be a potential index case for infectious outbreak. The rapidity of this patientâ€<sup>TM</sup>s decline underlies the urgency required for treatment when HUS is suspected.</li> </ul>		
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1980; /(2):300-7.	1986; 7(2):366-7.	······································

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TUMOR OCCURRING IN A PATIENT TREATED LY	itle: HEMOPHAGOCYTIC YMPHOHISTIOCYTOSIS (HLH) TOOK MY REATH AWAY
extremely rare tumors which account for about 1% of sex cord stromal tumors and less than 0.2% of all primary ovarian neoplasms. A few cases in literature describe the occurrence of SLCT along with thyroid adneoma. There is one case reported about SLCT occurring with papillary thyroid cancer. We here describe the second case where SLCT was found in a woman with history of papillary thyroid cancer. CASE: 41 year old female was seen in endocrine clinic for hirsutism. Patient complained of having excess facial hair requiring her to shave every day, excess body hair, balding, facial acne and hoarseness of voice. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 wars. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the last 1-2 years. She had noticed these changes over the counter drugs. On physical exam witas were stable, BMI-34. Excess facial hair and male pattern baldness were noted. Cardiorespiratory and abdominal exam were normal. Pelvic exam showed clitoromegaly. Laboratory tests showed TSH- 2.56, total testosterone level of 543 ng/dl and free testosterone level of 129 pg/ml. DHEA- sulfate level was 189 microgram/dl. These values were repeated and confirmed. A pelvic ultrasound showed the right ovary. Abdominal CT scan was normal and adrenal tumor was rule dout. Our probable diagnosis was an androgen producing ovarian tumor most likely a Leydig cell tumor. Patient was referred	arpose for study emophagocytic lymphohistiocytosis (HLH) is an aggressive and fe-threatening syndrome of excessive immune activation with itial signs and symptoms that can mimic common infections, ver of unknown origin, hepatitis, and encephalitis. ase Description 44 year-old African-American male who is an active smoker ithout previous medical history or surgeries, presented to the mergency Room with a 4-day history of back pain, headaches, ausea, vomiting, photophobia, diarrhea and nose bleeds. He denied auma, insect bites, tick bites, travel or sick contacts. He was agnosed with PNA/UTI, and sent home on ithromycin/cephalexin. He returned to the hospital 2 days later as reptoms worsened. He developed respiratory distress requiring tubation and ventilator support and synchronized shock for olymorphic VT. Amiodarone and lidocanie infusions were itiated and he was transferred to the intensive care unit. Labs vealed WBC 7.66, microcytic anemia with hemoglobin 9 g/dl, ICV 65.9 and lactic acid 2.7 mmol/L. Infectious workup was egative for Legionella and pneumococcal urinary antigens, Lyme, abesia, HSV, Parvovirus, and CMV. Ferritin was 12876 ng/mL ad triglycerides were 1,021 mg/dL. he presence of persistent fever, elevated triglycerides and elevated rritin support the diagnosis of Hemophagocytic ymphohistocytosis (HLH). This patient had marked rombocytopenia but the Hgb level was >9 g/dL and splenomegaly as not seen on the CT-scan. He was started empirically on IV secadron. Bone marrow biopsy demonstrated phagocytosis of atelets by macrophages consistent with HLH (see image). Patient nproved on IV steroids, was extubated and started on Etoposide. nportance of this Case emophagocytic lymphohistiocytosis (HLH) is a life-threatening nergency and delay in diagnosis and/or treatment is associated ith high mortality. Findings suggestive of HLH include fever, topenia (thrombocytopenia), markedly elevated ferritin, and CNS mptoms. Respiratory abnormalities may require urgent entilatory support and death from acute respira

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Title:An Interesting Etiology of Resistant	Tanya George MD, Dinesh John MD.
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ny per tension	Sorvi opside medical oniversity, Synease, 101
Introduction	Institution: SUNY Upstate Medical University
Hypertension can be classified as primary or essential in greater than	
90% of cases but recognizing secondary causes of hypertension can be	Title:A CURIOUS CASE OF MUCOCUTANEOUS
critical to patient management and are often overlooked by clinicians.	ULCERATIONS DUE TO DRUG TOXICITY
Case Presentation	CLEERATIONS DEE TO DRUG TOATETT
47M with PMH of IDDM, CKD stage 3, CAD, CHF, and chronic	Introduction: Liver toxicity, bone marrow suppression and
hypertension presented for evaluation of left-sided chest and flank	gastrointestinal side effects are well known adverse effects of
pain. Upon presentation the patient was noted to be hypertensive	methotrexate. However, cutaneous ulceration as a sign of
(199/98) despite compliance with four anti-hypertensive agents. Serum	methotrexate toxicity in patients without psoriasis has been
chemistries were remarkable for hypokalemia. Of note, previous routine blood work demonstrated that the patient had a history of	rarely reported. We report a patient with rheumatoid arthritis
hypokalemia refractory to oral supplementation. While routine cardiac	who presented with cutaneous ulcers as a sign of methotrexate
workup was unremarkable, urine studies exhibited significant	toxicity.
proteinuria and a transtubular potassium gradient of 4.03 consistent	Case Presentation: A 64 year old lady with known history of
with renal potassium wasting. Noncontrast CT abdomen revealed a 1.8	rheumatoid arthritis, Type2 Diabetes mellitus, cirrhosis and
cm left adrenal adenoma. Plasma renin activity and aldosterone level were 0.15 and 9 respectively, resulting in a PAC/PRA ratio of 60.	portal hypertension presented to our hospital with complaints
Given the suspicion for Conn's syndrome, the patient was started	of skin ulcers and fatigue. On further evaluation she was found
on spironolactone with modest improvement in BP control and given	to have pancytopenia (WBC-1.8, Hemoglobin-6.3, Platelet
appropriate follow up for adrenal venous sampling for possible	count-10000) and mucocutaneous ulcerative lesions,1 to 2 cm
subsequent unilateral adrenalectomy.	in diameter involving the oral mucosa, abdomen, arms and
Discussion	legs(Image1). She was on methotrexate for the past 2 years
Becoming increasing prevalent in the hypertensive population, clinical	without adequate medical follow up and non-compliant with
awareness of primary hyperaldosteronism is paramount given its greater associated cardiovascular risk, including stroke, nonfatal MI,	folate supplementation. An extensive work up including
and increased left ventricular mass, compared to primary	vasculitis panel and viral hepatitis serologies were negative.
hypertension.1 Primary aldosteronism is generally subdivided into	Bone marrow biopsy revealed hypoplastic marrow with megaloblastic/dysplastic changes. Skin biopsy showed
aldosterone producing adenomas and bilateral adrenal hyperplasia	apoptotic keratinocytes and mild superficial perivascular
(IHA), although other less common pathologic entities have been	dermatitis(Image1-bottom right). Both these biopsy findings
identified. Diagnosis involves a high degree of clinical suspicion, especially in younger patients with refractory hypertension. While	were consistent with methotrexate toxicity. Methotrexate was
typically associated with hypokalemic metabolic alkalosis, patients	discontinued and patient was given supportive treatment
with primary aldosteronism can be normokalemic on presentation due	including skin care, folate supplementation and transfusion of
to various potassium sparing mechanisms. Initial approaches to	blood products. Follow up examination over the next 2 weeks
evaluation include obtaining plasma renin activity (PRA) and	revealed improvement of blood counts and resolution of her
aldosterone levels (PAC), with an elevated PAC/PRA ratio being indicative of mineralocorticoid excess. Confirmatory testing is often	symptoms including mucocutaneous lesions.
required with salt-loading tests (oral sodium chloride tablets or saline-	Discussion: Cutaneous adverse effects associated with
infusion) to demonstrate inappropriately elevated plasma / urine	methotrexate are usually dose related, and include toxic
aldosterone levels. Although IHA generally involves a more indolent	epidermal necrolysis and photosensitivity. Cutaneous
course, adrenal imaging is frequently pursued to delineate the subtype	ulceration is a rare occurrence and is often reported in psoriatic
of primary aldosteronism given the varied treatment approaches. If an adrenal adenoma is identified, patients may be referred for unilateral	patients. The most common risk factors for toxicity are renal
adrenalectomy if desired, although the Endocrine Society currently	insufficiency, concomitant use of non-steroidal anti-
recommends that unilateral disease should be confirmed with adrenal	inflammatory drugs, older age, infection, alteration in the
vein sampling with or without concomitant cosyntropin use.2	dosage or methotrexate being restarted after a hiatus.
Conversely, medical management with aldosterone antagonists are the	Methotrexate acts by depleting intracellular stores of activated folate, thus disrupting DNA, RNA and protein synthesis.
treatment of choice for bilateral adrenal hyperplasia. References	Folate or folinic acid supplementation can reduce methotrexate
1. Milliez P et al. Evidence for increased rate of cardiovascular events	toxicity, specifically liver and gastrointestinal effects and oral
in patients with primary aldosteronism. J Am Coll Cardiol.	ulcers.
2005;45(8):1243.	Conclusion: We reiterate the need for considering
2. Funder et al. Case Detection, Diagnosis, and Treatment of Patients	methotrexate as a cause of mucocutaneous ulcerations in the
with Primary Aldosteronism: Endocrine Society Clinical Practice	appropriate clinical setting. Albeit a rare finding , it may be the
Guideline. Journal of Clinical Endocrinology & Metabolism, September 2008, 93(9):3266-3281.	initial clinical manifestation of methotrexate toxicity and
September 2000, 75(7).5200 5201.	underlying pancytopenia.

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(DUCOM); Grant, Joshua (LSU); Banka, Sahil (DUCOM)	Institution: Eluching Hospital Medical Conter
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Institution:Hahnemann University Hospital/Drexel	Title:Kew Gardens Fever Returns
University College of Medicine	
	During the summer of 1946, an outbreak of 124 people
Title:Abstract: Mixed Atrial Septal Defect: an	presented with similar rashes resembling chickenpox to their
uncommon but dangerous congenital defect	respective physicians in Kew Gardens, Queens. The patients
Introduction: An atrial septal defect (ASD) is a	resided within 3 apartment buildings, all within 3 square city
congenital communication between the left and right	blocks. The presentation of disease was described as a triad: an
cardiac chambers. The three major recognized types are	initial eschar, fever, and a papulo-vesicular rash. Within 5 months, New York City Department of Health (NYCDOH)
ostium secundum, ostium primum, and sinus venosus,	and US Public Health Service were able to isolate, characterize
with ostium secundum being the most common. While	and identify the causative agent and illness: Rickettsialpox, a
often initially asymptomatic, these defects do have the	mite-borne zoonosis caused by Rickettsia akari, is one of a few
potential over time to cause hemodynamic	spotted fever group rickettsioses with a cosmopolitan
complications, arrhythmias, and/or paradoxical	distribution. Only about 800 non-fatal cases have ever been
embolisms. While an isolated ASD is not an uncommon	reported, with the majority surfacing in the 1940-1950s.
finding with an incidence of 10-20%, the presence of a	Additional cases were reported in other Northeast metropolitan areas. The early 2000s witnessed another peak of incidences
mixed defect (defects in two or more atrial septal zones)	during the time of anthrax attacks, as the initial lesion of
as in our patient is relatively rare.	Rickettialpox resembles anthrax without the edema. Since
Case: We present the case of a twenty-year-old Chinese	then, the NYCDOH typically reports about 12-15 new cases
woman with medical history of bipolar disorder who	each year.
was referred to the outpatient cardiology office for	Case Presentation
recurrent syncope. Initial evaluation with	A 36 year old otherwise healthy man presented to ER with
electrocardiogram revealed sinus arrhythmia with an	fever for 6 days, headache, sore throat, myalgias, and skin lesions on both legs. Patient denied pets, trauma, insect bites,
incomplete right bundle branch block and nonspecific T	sick contacts or recent travel. On exam, temperature was
wave changes in the inferior leads. Transthoracic	102.6F with skin showing a maculopapular rash over the trunk
echocardiogram (TTE) demonstrated a normal ejection	and back with 2 eschar-like lesions on both legs. Bloodwork
fraction but was notable for significant left to right color	revealed elevated LFTS. Patient was started on doxycycline
Doppler flow across the interatrial septum and images were consistent with a secundum ASD. Her right	and ceftriaxone, while initial serology tested negative for
ventricular function was grossly intact, though both the	rickettialpox. Repeat serology for rickettialpox and skin
right atrium and ventricle were significantly dilated.	biopsy of eschar were sent for analysis. Subsequently, the rash spread, becoming papulovesicular without mucous membrane
Further evaluation with transesophageal echo (TEE) not	involvement or lymphadenopathy; patient's symptoms
only confirmed the suspected ostium secundum defect	improved slowly. Results showed positive Rickettial
but also revealed a sinus venosus ASD at the junction of	antibodies in serology as well as a positive skin biopsy by
the SVC and right atrium. Subsequent right heart	immunohistochemical stains for ricksettial organisms,
catheterization showed pulmonary blood flow to	confirmed by PCR, all performed at the CDC. Patient was
systemic blood flow ratio (Qp/Qs) of 3.9, consistent with	discharged with course of doxcycyline. Discussion
a large shunt. Pulmonary pressures were found to be	Ricksettialpox is caused by Rickettia akari, transmitted by the
normal and transpulmonary gradient was low. Given the	mouse mite, residing in its hostâ€"the house mouse. During the
symptoms, the presence of the sinus venosus ASD and	initial outbreak investigation, the apartment incinerators were
right heart dilation, percutaneous closure was not	not operated daily, causing a buildup of waste, which attracted
feasible and she was referred for surgical intervention.	the mice. When rodent infestation is severe or when measures
Discussion: This patient demonstrates defects in two	are undertaken for rodent control, the mites feed on humans. Most patients have no recollection of the bite, as mites do not
separate zones of the atrial septum, thereby	attach or feed for long periods of time. Eschars are present in
demonstrating a mixed defect. Her relatively young age	90% but may go undetected due to paucity of symptoms.
of presentation was attributed to the magnitude of the	Rickettsialpox is under-diagnosed and as rodent control is
shunt; many adults with congenital ASD do not present	required for prevention, prompt recognition and treatment is
until the fifth decade of life. Such mixed defects occur in	necessary for the sake of public health. In this case, even when
only 7% of ASDs, and prognosis is directly correlated	initial serology was negative, clinical suspicion prompted for biopsy, which confirmed diagnosis, allowing for tailored
with size of ASD, degree of right heart dilatation, and	biopsy, which confirmed diagnosis, allowing for tailored treatment and satisfactory results.
timely surgical intervention.	toution and satisfactory results.

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Title:Anti-NMDA-receptor Encephalitis-Not that Unusual!	Institution: Staten Island University Hospital
Ullusual:	Title:A Rare Case of Severe Spurious
Introduction:	Hypophosphatemia in a Patient with Multiple
Anti-NMDA-receptor encephalitis is a paraneoplastic autoimmune	Myeloma
disorder, first described in young women with ovarian teratomas who presented with neuropsychiatric illness. Pathophysiology includes the development of autoantibodies against the NR1 and NR2 subunits of the NMDA receptors; it is postulated that the autoantibodies are produced by the teratoma and if a neoplasm is	Introduction: Symptomatic profound hypophosphatemia of <1 mg/dL is a rare finding and may be seen in the setting of trauma, alcoholism and sepsis. Signs and symptoms may include paresthesias, irritability, confusion, seizures, coma, proximal
not found, an autoimmune phenomenon is suspected. Patients may	myopathy, ileus, diaphragmatic muscle dysfunction with
experience a viral prodrome preceding symptoms. Affected patients develop significant psychiatric symptoms, seizures, memory deficits, and decreased levels of consciousness. Patients	respiratory failure, hemolysis and thrombocytopenia. Classical etiologies of true hypophosphatemia include acute respiratory alkalosis, acute volume expansion, hyperinsulinemia during refeeding, antacid ingestion, hyperparathyroidism, vitamin D
are underdiagnosed due to a lack of awareness among clinicians and the error of attributing the presenting symptoms to a psychiatric condition.	deficiency, and Fanconi syndrome. Spurious hypophosphatemia can be seen with benign and malignant lymphoproliferative disorders.
Case:	Case: We present a case of a 60 year old male with a history of
A 20 year-old Chinese-American non-gravid female without prior history of seizures presented in status epilepticus to the ER, where	diabetes mellitus type 2, compensated hepatitis C with cirrhosis,
she was intubated and sedated with Dilantin & Propofol, after	hypertension, and a recent diagnosis of multiple myeloma not
Lorazepam failed to break seizure activity. Past medical history	having begun treatment, presenting with a mechanical fall with
was significant for anxiety as well as recent URI. Initial labs	trauma to the head and chest, and confusion. Social history was positive for 40 pack years of smoking, cocaine, marijuana,
showed mild leukocytosis, rhabdomyolysis, with negative urine	intravenous heroin, oxycodone use, and alcohol abuse. On
toxicology and serum alcohol. Initial CT head was negative for	presentation, he was in moderate respiratory distress, hypoxic and
acute changes, lumbar puncture showed lymphocytic pleocytosis. Patient was empirically started on intravenous Rocephin,	agitated, and was admitted to the ICU. Work up was pertinent for
Vancomycin, Acyclovir, Ampicillin, discontinued after CSF	an inorganic phosphorus of <1mg/dL, intact PTH of 51.6 pg/mL,
studies ruled out infection. MRI demonstrated restricted diffusion	corrected calcium of 9.5 mg/dL, total protein of 9.5 g/dL,
in left hippocampus and medial temporal lobe. EEG did not reveal	ammonia level of 81 µmol/L, beta2 microglobulin of 3353 ng/mL, quantitative IgG of 7274 mg/dL with evidence of IgG
abnormalities. Patient was extubated after 3 days; she was awake,	lambda protein on serum immunofixation. Fractional excretion of
alert, without focal deficits or any subsequent seizure events but	phosphorus in the urine was 84%. The patient was started on
had periods of confusion and agitation. The patientâ $\in$ <sup>TM</sup> s clinical	chemotherapy with bortezomib and dexamethasone. Inorganic
picture prompted suspicion for NMDA encephalitisâ€"positive NMDA titers resulted, confirming diagnosis. Pelvic ultrasound	phosphorus testing was recurrently reported as <1mg/dL.
showed a 1.4 cm right adnexal irregularly shaped cystic structure.	Intravenous and oral phosphorus and oral vitamin D were
She was transferred to a Neuro ICU, given IVIG and pulse	administered without improvement of symptoms or correction of the phosphorus levels. Therefore, spurious hypophosphatemia was
steroids. Patient underwent successful right salpingo-	suspected and the sample was sent to an outside laboratory that
oopherectomy with removal of ovarian teratoma. The patient	reported a value of 5.2 mg/dL. Upon further investigation, it was
continued to experience behavioral swings as well as autonomic	identified that a different method of detection (Vitros chemistry
instability with fluctuations in pulse and blood pressure, treated	system, Ortho-Clinical Diagnostics, Rochester, NY) was used to
with rituximab and cyclophosphamide with notable improvement in her mental state.	test the sample. The patient's symptoms gradually improved
Conclusion:	over 10 days and by day 24, the serum phosphorus normalized and
This case illustrates the importance of considering NMDA	the total protein level was 5.8 g/dL.
receptor encephalitis in the differential diagnosis of young females	Discussion: Spurious hypophosphatemia has been described with polyclonal paraproteins such as in diabetes and in polyclonal
presenting with new onset seizures or psychiatric symptoms. It is	gammopathy. It is hypothesized that paraproteins interfere with
crucial to promote awareness among colleagues so that prompt	either phosphorus alone or with the phosphorolybdate complex
recognition of this disorder may allow for early therapy and more	altering colorimetric absorbance causing spurious results of hypo-
favorable outcomes. Prognosis is better if a neoplasm is found, as	or hyperphosphatemia. Reported cases were analyzed by machines
the neoplasm may be surgically resected, eliminating the source of autoantibodies. Main treatment modalities include tumor removal,	using Beckman technology and were overcome by manual
along with immunotherapy such as steroids, IVIG, and	deproteinization or use of Vitros and Kodak Ektachem systems
plasmapharesis. Secondline immunotherapy such as rituximab and	that use a reducing agent p-methylaminophenol sulfate that
cyclophosmamide may also be used. NMDA receptor encephalitis	stabilizes the phosphomolybdate coloric complex before measurement of absorbance. Further studies are required to clarify
is potentially lethalâ€"however, with early intervention, there is a	the exact physicochemical mechanism causing interference of
	paraproteins with measurement of phosphorus levels in order to
high probability of recovery.	

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Institution:Montefiore New rochelle hospital and Albert	Medical Center
Einstein College of Medicine	
	Title:Adult Onset Acute Lymphoblastic Leukemia
Title:Rare case of small cell breast carcinoma with	presenting with Hypercalcemia from Osteolysis
second primary of ductal carcinoma	
The literature describes less than 40 cases of small cell breast	Introduction: Acute Lymphoblastic Leukemia is a malignant disorder originating from Progenitor B- or T-cells. It is the
cancer. Most patients are in the sixth or seventh decades of	most common malignancy diagnosis in patients younger than
life. The overall prognosis of small cell breast carcinoma is	15 years of age but has a bimodal distribution with a second
unclear due to only a small number of cases being reported.	peak in the 6th decade of life. Patients generally present with
The presence of a second primary with a different histology	manifestations of cytopenias such as infection, bleeding and
pattern has rarely been reported. We present a case of small	exertional dyspnea. In children, especially young children,
cell breast cancer with a second primary ductal carcinoma.	bone pain associated with limp is common. Here, we describe
A 49 year old female G3P2 presented with a rapidly enlarging right breast lump of one month duration. She was not on any	an adult patient who presented with bone pain from diffuse osteolysis and diagnosed with Acute Lymphoblastic Leukemia.
medication. She had irregular menstrual period and had a	Case: 29 year old male with past history significant for
normal mammogram a year prior to presentation. There was no	diabetes mellitus, hypertension and traumatic paraplegia at C6
relevant family history and no significant smoking or alcohol	8 years prior presented to an outside hospital with complaints
history. Examination of the right breast revealed a palpable 6 x	of nausea, vomiting and generalized weakness. He was found
6 cm firm mass in the superolateral quadrant with mobile, non	to be hypercalcemic on admission, but left against medical
tender axillary nodes. Left breast examination was	advice prior to work up. A bone scan at a second hospital revealed multiple lytic lesions with pathological fractures of
unremarkable. Mammogram revealed a mass in the 9 oâ $\in$ TMclock position measuring 10 x 9 cm with abnormal right	ribs and right hip. A bone marrow biopsy revealed B-cell
axillary lymph nodes. Further radiological investigation did	Acute Lymphoblastic Leukemia and the patient was
not reveal evidence of malignancy at any other site. Ultrasound	transferred to our center for management. At the time of
guided biopsy of the mass revealed small cell neuroendocrine	admission, the patient complained of continued nausea with
carcinoma (SCNC) of the right breast. She initially underwent	bilious vomiting and bone pain. He reported chills with
chemotherapy with cisplatin and etoposide. Following	headaches, but denied fevers, night sweats and lethargy. His exam was significant for a blood pressure 162/89 and
mastectomy, multiple biopsy from the excised mass did not show residual tumor at 9 o' clock but was positive for	significant tenderness over his Right Chest wall and Right Hip.
second primary tumor at 6 o'clock position in form of	However, there was no pallor, bruising, lymphadenopathy or
infiltrating ductal carcinoma. Lymph node biopsy was	organomegaly. His complete blood count revealed mild anemia
significant for adenocarcinoma in two of three lymph nodes	at 10.2 g/dL, mild thrombocytopenia at 120 and unremarkable
with histology similar to tumor at 6 oâ€ <sup>™</sup> clock. She is still	differential count, barring a marginal elevation of immature
undergoing chemotherapy with adriamycin and	granulocytes (1.2%). His chemistries revealed a creatinine level of 1.8 mg/dL, calcium of 13 mg/dL and uric acid of 9.3
cyclophosphamide with no sign of distant metastasis 9 months after initial diagnosis.	mg/dL. Imaging revealed diffuse osteolysis of the skull,
It has been suggested that SCNC is a variant of metastatic	vertebra, ribcage and long bones. The patient was admitted to
carcinoma arising from usual lobular or ductal carcinoma.	the Oncology Service and was started on HyperCVAD with
However, some believe that SCNC is a distinct type of breast	good effect. Bisphosphonate therapy was attempted for acute
cancer different from the the usual types of carcinoma with	treatment of his hypercalcemia but after initiation of
variable degrees of neuroendocrine differentiation and carrying	chemotherapy, he became persistently hypocalcemic needing extensive calcium repletion. He was discharged after
a worse prognosis. The term neuroendocrine tumor is now applied when more than 50% of the tumor shows such	completion of Induction Therapy and stable Calcium levels.
differentiation as in our patient. The discrepancy in prognosis	Discussion: Acute Lymphoblastic Leukemia is described as a
in several reports may hinge on the non separation of pure	blood disorder with production of immature white cells. It is
SCNC from carcinoma of the usual types with areas of	the most common leukemia in children and accounts for only
neuroendocrine differentiation. While some of the apparent	20% of Acute Leukemia in adults. The usual presentation is
pure SCNC cases show an appreciably worse prognosis, our	fatigue, fever and lethargy, with anemia induced dyspnea and angina occurring more often in adults. Bone pain is uncommon
patient appears to have responded to aggressive chemotherapy with no neuroendocrine cell component found on the excision	in adults and is almost never associated with osteolysis.
specimen. Whilst prognosis may not be as grim as some	Hypercalcemia in this setting is likely related to Parathyroid
reports would suggest, it would be important for further case	hormone related peptide (PTHrP) released by Blast Cells.
reports to delineate pure SCNC from the usual type with areas	While Bisphosphonate therapy has been used to good effect in
of neuroendocrine differentiation.	children, it caused significant hypocalcemia in our patient after
	initiation of Chemotherapy.

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	Title:Lazarus Syndrome: A Rare Case of Auto-resuscitation
Title:Multiple Myeloma presenting as Cardiac	A 46 years and Conversion male with next medical history of Type 1
Amyloidosis without Monoclonal Spike	A 46-year old Caucasian male with past medical history of Type 1 Diabetes had a witnessed cardiac arrest at a supermarket.
<b>5 .</b>	Cardiopulmonary resuscitation was initiated on site. The initial
Introduction: Multiple Myeloma is a plasma cell dyscrasia usually	cardiac rhythm was noted to be ventricular fibrillation. The patient
suspected in patients with anemia, renal failure, bone pain and	received three cycles of biphasic defibrillation, one dose of
recurrent infections. Though there is no standard screening test,	Intravenous Amiodarone 300mg, and five doses of Intravenous
usual practice is testing serum protein electrophoresis with	Epinephrine 1mg, as per ACLS protocol. The patient was
immunofixation and Free Light Chains. If abnormal, further work	intubated and resuscitation efforts were continued for 30 minutes,
up can be done. Here, we present an eighty year old male with no	followed by return of spontaneous circulation (RoSC). The patient
cancer history who was diagnosed with Multiple Myeloma after	was then bought to an outside hospital ER. Upon arrival, EKG
presenting with Cardiac Amyloidosis.	showed a junctional rhythm. However, before any further steps
Case: Eighty year old male with history significant for benign	could be taken, the patient was noted to be asystolic. ACLS
prostatic hyperplasia and neuropathy initially presented to our Cardiology Service with worsening exertional dyspnea. He was	protocol was re-started for another 30 minutes. Bedside ultrasound
found to have a positive Nuclear Stress Test showing Anterior	did not reveal any cardiac activity and the patient was pronounced dead. One hour later, patient moved spontaneously and a pulse
Wall Ischemia and underwent triple vessel coronary artery bypass	was checked. Return of spontaneous circulation was noted.
grafting. His ECHO, of note, showed preserved left ventricular	Noninvasive blood pressure monitoring revealed a blood pressure
ejection fraction (60%) with grade III diastolic dysfunction. Post	of 115/80 and a heart rate of 92 BPM. Patient was alert and awake,
procedure, he developed pneumonia and pleural effusion. He was	and intermittently followed simple commands. Repeat EKG
treated with pig tail catheter placement and antibiotics and	showed an infero-posterior ST-elevation myocardial infarction.
discharged in stable condition. He presented again within 1 week	The patient was started on a heparin drip and transferred to our
with similar complaints of dyspnea and fatigue. His admission	facility to undergo cardiac catheterization.
vitals and examination were unremarkable. His labs were only	During cardiac catheterization, he was noted to have
significant for hemoglobin of 11.3 mg/dL, creatinine of 0.81,	complete occlusion of the left circumflex artery. A drug eluting
alkaline phosphatase of 143 and calcium of 9.4 mmol/L. His. His chest X-ray showed large bilateral pleural effusions. Repeat	stent was placed and he was started on an Integrillin drip. Chest x-
ECHO was done which again showed preserved left ventricular	ray showed right-sided pneumothorax occupying 50% of the lung volume with rib fractures. A chest tube was emergently placed.
ejection fraction (54%) and significant diastolic dysfunction.	However, despite being maximally ventilated, the patientâ€ <sup>TM</sup> s
Given suspicion for Cardiac Amyloidosis, work up was started	oxygenation continued to decline. Patient was in severe
with Serum Protein Electrophoresis with Immunfixation and Free	cardiogenic shock. Despite aggressive resuscitation with
Light Chains which only revealed elevated Kappa light chains	intravenous fluids, ionotropic support and blood products, the
(K:L ratio of 104). He subsequently had Urine Protein	patient's cardiopulmonary status continued to decline until he
Electrophoresis which showed 3 monoclonal spikes and Urine	became asystolic. Resuscitation was continued for another 45
Immunofixation which showed a monoclonal spike. Cardiac	minutes without RoSC. Patient was pronounced dead.
Biopsy showed a kappa light chain type Cardiac Amyloidosis; and Bone Marrow Biospy showed multiple myeloma with 60 to 70%	Auto-resuscitation, colloquially known as "Lazarus
plasma cells. Skeletal Survey showed subcentimeter lucent lesions	Syndrome $\hat{e} \cdot$ after the biblical story of Lazarus, is an extremely rare phenomenon. It is defined as the unassisted return of
within the skull as well as the distal femoral shafts bilaterally.	spontaneous circulation after cardiopulmonary arrest (1). Possible
Patient was started on therapy with Bortezomib and	explanations include the late effect of inotropic drugs,
Dexamethasone, with plan to add Lenalidomide at a later date.	hyperventilation causing decreased cardiac output and myocardial
Discussion:Multiple myeloma is a mutisystemic disorder with	infarction leading to stunning (2). It has been suggested that
poor prognosis, and usually presents with anemia, abnormal	patients should be watched for at least 10 minutes prior to
protein levels or renal function, hypercalcemia and/or bone pain.	pronouncement, in order to allow drugs given during ACLS to
Amyloidosis is usually suspected in patients with diastolic heart	wear off. Auto-resuscitation has grave implications regarding the
failure with preserved Ejection fraction (HFpEF). Cardiac	definition of $\hat{a} \in \hat{a}$ death $\hat{a} \in \bullet$ and when efforts to revive a patient
amyloidosis as sole manifestation of multiple myeloma has not been reported previously in the literature. Early recognition of this	should cease. References
disease is important as timely therapy can help in quality of life	1. Linko, K, P Honkavaara and M. Salmenpera."Recovery after
and likely prolong the survival of these patients. Treatment for	discontinued cardiopulmonary resuscitation $\hat{a} \in \bullet$ Lancet 1
cardiac amyloidosis is essentially the same as Multiple myeloma,	(1982):106-7.
with three drugs. The two most common regimens are Revlimid,	2. Adhiyaman, V, S Adhiyaman, and R Sundaram. "The Lazarus
	Phenomenon." Journal of the Royal Society of Medicine 100
Bortezomib and Dexamethasone (RVD); or Cyclophosphamide,	Filehomenon. Journal of the Royal Society of Medicine 100

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Title:Cervical spine osteomyelitis presenting as	Title:Subclinical Hyperthyroidism and Amiodarone:
Urosepsis.	
Ittle:Cervical spine osteomyelitis presenting as Urosepsis. INTRODUCTION: Vertebral osteomyelitis is a rare condition seen more commonly in the fifth decade of life. Isolated involvement of cervical vertebrae is uncommon. Some predisposing factors for involvement of cervical vertebrae include Immunocompromised status, chemo-radiotherapy for malignancies of the neck, surgeries of the spine, pharynx and upper respiratory tract, trauma to the neck, dental extraction and IV drug abuse. Hematogenous spread of urosepsis to the vertebrae causing secondary osteomyelitis has been reported but involvement of cervical vertebrae in urosepsis is rare. The case presented here is interesting as the patient came with symptoms of urinary tract infection and mild neck discomfort and was later diagnosed to have cervical osteomyelitis. CASE PRESENTATION: A 73 year old male presented with a 1 week history of anorexia, worsening neck pain and dysuria. Past history includes fracture of right leg and appendicitis. He used to work as a handyman. Habits include 25 pack year smoking history and social alcohol use. Physical exam revealed tachycardia, fever, dry mucosa, mildly tender prostate and pain on active and passive movements of the neck. Investigation revealed leukocytosis, neutrophilia, urinalysis positive for blood, WBC & bacteria and no valvular vegetations on Echocardiogram. Prostate specific antigen, ESR and CRP were grossly elevated at 28.30ng/ml, 87mm/hr and 258mg/l respectively. Patient was empirically treated for urosepsis. Urine and blood cultures both isolated Methicillin susceptible Staphylococcus aureus (MSSA). Cervical spine MRI showed septic discits of C5-C6 disc, as well as marrow edema in C5, C6, and C2 suggestive of osteomyelitis. Patient& <sup>TM</sup> s symptoms improved on treatment with intravenous antibiotics and neck brace to prevent compression fracture of the vertebral bodies. DISCUSSION: Hematogenous spread of infection is the most common cause of vertebral osteomyelitis. Common s	<b>Ittle:Subclinical Hyperthyroidism and Amiodarone:</b> <b>A Cautionary Tale</b> <b>INTRODUCTION</b> Amiodarone is commonly used for the treatment of cardiac arrhythmias. Multiple adverse effects have been documented but careful monitoring of non-cardiac parameters remains suboptimal to date. We present a case of a patient with a history of subclinical hyperthyroidism that was started on amiodarone therapy which led to thyrotoxicosis. <b>CASE</b> 71-year-old man with a history of atrial fibrillation-s/p pacemaker placement for sick sinus syndrome, gout, emphysema and prostate carcinoma-s/p radiation therapy presented with shortness of breath and dizziness for 3 days. The patient had been maintained on amiodarone 200mg daily, metoprolol 12.5mg PO q12h and digoxin 0.125mg PO daily for atrial fibrillation for three years and had adequate control of arrythmia. Physical exam revealed thyroid nodules and an irregularly irregular pulse of 150 bpm. Carotid doppler and ECHO were unrevealing. Bloodwork showed abnormal TSH of 0.03 uU/mL ( $0.5\&$ C <sup>6</sup> 0 & #181;U/ml) and free T4 of 1.73 ng/dL ( $0.7\&$ C <sup>6</sup> 1.7 ng/dl) suggestive of hyperthyroidism. Amiodarone was stopped for suspected Type-1 amiodarone- associated hyperthyroidism causing decompensation of rate- controlled atrial fibrillation. Methimazole 10mg orally bid was initiated and later doubled to 20mg after the patient failed to respond. Thyroid ultrasound showed thyromegaly and two large nodules with hypervascularity. He was discharged on pradaxa, digoxin and metoprolol after rate control was achieved. One month later, the patient was readmitted for postural hypotension, increased sweating, diarrhea and a 10 lb. unintentional weight loss. Repeat thyroid panel showed free-T4 of 1.42 ng/dL, slightly improved from the previous 1.73 ng/dL and a TSH of 0.02 uU/mL. A retrospective review of thyroid panels over four years showed the evidence of subclinical hyperthyroidism with TSH 0.135 uU/mL and free T4 of 1.04 ng/dL. This was not taken into consideration before starting amiodarone. DISCUSSION
postoperative wound infection, endocarditis, and dental infection. Contiguous spread of infection may occur from tissues such as the aorta, esophagus, or bowel that are adjacent to the spine. In many including our patient, however, the primary site of infection cannot	thyrotoxicosis (AIT). While there is general agreement on following thyroid panels for patients with overt disease, no clear guidelines exist on management of subclinical disease in patients being considered for amiodarone therapy. Subclinical
be determined.	hyperthyroidism has independently been associated with worse
In our case it is unclear whether, Staphlococcus aureus bacteriuria (SABU) was secondary to Staphylococcus bacteremia	cardiovascular outcomes. It also increases the risk of amiodarone- induced thyrotoxicosis (AIT), which could further worsen the
(SAB) from cervical spine infection or whether the SAB was	cardiac problems being treated. As a result, in patients for whom
caused by primary infection within the urinary tract. Studies by Asgeirsson et. al. and Choi SH et al concluded that SABU appears	there is indication to use amiodarone, a full assessment of baseline thyroid function tests is required. Patients with serological
to be secondary to SAB in some cases while it is the primary	evidence of subclinical hyperthyroidism should be fully evaluated
infection within the urinary tract causing SAB in others. This	to determine the etiology of thyroid condition and closely
article hopes to present a case in which the presenting complaint	monitored. AIT should be considered when treated patients
was dysuria but cervical vertebra osteomyelitis was diagnosed later in the absence of any identifiable risk factors mentioned	develop clinical signs of thyrotoxicosis or decompensation of previously rate controlled atrial fibrillation.
above.	References:
	1) Toft, AD. NEJM 345, no.7(2001):512-516.
	2) Surks et al. JAMA 291, no.2(2004):228-238.

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Title:Pay Heed to the Contaminant : Invasive Achromobacter Pneumonia in an	Title: COLON CANCER RIDES IN ON A "CHARLIE HORSE" • : A CASE OF COLON CANCER
Immunocompromisea Host	PRESENTING AS HIP PAIN.
Immunocompromised Host INTRODUCTION: Pneumonia in an immunocompromised host is unique with respect to the organisms involved. The emergence of new pathogens has significant impact on therapy. Achromobacter xylosoxidans (A.xylosoxidans) is an uncommon pathogen known to cause serious infections in immunocompromised hosts. Despite its ubiquitous existence, community acquired infections are rare. We report a case of A.xylosoxidans causing invasive cavitary pneumonia. CASE: A 53 year-old male with a history of HIV (unknown CD4 count, viral load) presented with ethanol intoxication. He denied any fevers, chills, cough, recent travel or sick contacts. Exam was significant for temperature of 101.9 F, sinus tachycardia, cachexia, and bronchial breath sound over the left upper lobe of the lung. Laboratory results showed a white blood cell count of 6.6k/ul, positive drug screen for cocaine and cannabis and elevated blood alcohol level. Computed tomography (CT) of the head was unremarkable and CT scan of the chest demonstrated an apical cavitary lesion with patchy opacity in the left upper lobe (figure 1). His CD4 count was 2 cells/ul and a viral load of 9058 copies/ml. Infectious work up including blood cultures, AFB smears, pneumocystis smear, aspergillus antibody and lumbar puncture were negative. Deep tracheal aspirate culture grew A.xylosoxidans, isolated by Yabucci and Ohyama is an aerobic, gram-negative, catalase and oxidase positive bacilli. It is an opportunistic bacteria with low virulence but immunocompromised hosts with HIV or malignancy can experience significant morbidity and mortality. A.xylosoxidans is rarely isolated from clinical material and can be confused with other gram negative rods, like Pseudomonas and Burkholderia underestimating its role as a significant pathogen. A.xylosoxidans pneumonia is associated with a high case-fatality rate of 67% and complications include empyema, adult respiratory distress syndrome, chronic scarring and recurrent pneumonia . It is inherently resistant to many antibioti	<ul> <li>PRESENTING AS HIP PAIN.</li> <li>Purpose: Consideration of a psoas abscess must be given in a patient presenting with nonspecific symptoms and lateral leg pain, and may be a critical clue to underlying malignancy. Case: A 49-year-old male presented to the emergency department three times in as many weeks complaining of worsening right hip pain, described as a â&amp;œcharlie horse,⢠aggravated by weight bearing and forward flexion. Each time he was diagnosed with a musculoskeletal syndrome and discharged with supportive care. Three weeks later, he developed a rapidly growing mass on the anterolateral aspect of the right hip/groin. He denied abdominal pain or change in bowel habits. An MRI demonstrated a 17x5x10 cm mass in the right groin.</li> <li>He had no routine medical care, took no medications, had a 22 pack year smoking history, and consumed a poor diet. Vital signs were normal, he was cachectic (BMI 18) and appeared chronically ill. He maintained his right hip in a flexed position as extension was painful. There was a 6x6x3 cm fluctuant, tender mass on the right groin, without inguinal adenopathy. There was no rash or penile discharge.</li> <li>Labs demonstrated leukocytosis, microcytic anemia, and an ESR of 73. Contrast enhanced CT of the abdomen suggested retroperitoneally perforated cecal mass with extension of an abscess adjacent to the iliopsoas bursa and right groin. 500 ml of purulent material was drained and grew Streptococcus bovis. Blood cultures were negative.</li> <li>The abscess was formed by a micro-perforation from the ceca mass. While colonoscopy is risky in the setting of a perforation, gastroenterology deemed the benefits outweighed the risks given the extended duration from presentation and recent IR drainage. Biopsy of the cecal mass confirmed a moderately differentiated invasive adenocarcinoma. The patient underwent a hemicolectomy and began chemotherapy with FOLFOX.</li> <li>Discussion: Iliopsoas abscess is a rare condition associated with a high degree of morbidity and mortali</li></ul>
sequencing offers a more reliable method of definitive diagnosis, though its utility in clinical practice is unknown. CONCLUSION: Although A.xylosoxidans is routinely regarded as a contaminant, it	unusual and insidious, and can delay diagnosis. Streptococcus bovis was cultured from the abscess in the presence of colorectal cancer without concurrent bacteremia, which is avceadingly rate. In a patient with possessific symptoms and
can be a clinically significant pathogen causing invasive oneumonia in immunocompromised hosts with very high morbidity and mortality.	exceedingly rare. In a patient with nonspecific symptoms and lateral leg pain a high degree of clinical suspicion is required to suspect a psoas abscess, which may be critical in diagnosin underlying malignancy.

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	Institution: Bronx Lebanon Hospital
Institution:KINGSBROOK JEWISH MEDICAL	
CENTER	Title: SUBOXONE: A RARE BUT LIFE
	THREATENING CAUSE OF RESPIRATORY
Title: QUALITY IMPROVEMENT PROJECT TO	FAILURE
<b>REDUCE BLOOD TRANSFUSION WASTE</b>	
Quality Improvement Project to Reduce Blood Transfusion Waste	INTRODUCTION:
Sutapa Maiti MD, Minhaj Musa MD, and Kurt Kodroff MD,	Suboxone belongs to the class of drugs used to prevent symptoms
MMM, Kingsbrook Jewish Medical Center, Brooklyn, New York	of opiate withdrawal, and is especially useful for treatment of patients addicted to heroin. Respiratory depression and central
Goal of Project:	nervous system symptoms are rare but significant adverse effects.
It is now generally accepted that a more restrictive policy for	We report a rare case of suboxone related respiratory failure due to
transfusions at a hemoglobin (Hgb) concentration of 7 to 8 g/dL is	various drug interactions.
safe and effective care for most patients. Many patients only meet	CASE REPORT:
criteria for a transfusion when their hemoglobin is less than 7g/dl.	A 45 year old male was admitted to a chemical dependence
The goal of this study is to eliminate unnecessary blood transfusions thereby reducing waste and avoiding transfusion	rehabilitation facility for opiate addiction. He was started on sublingual suboxone and lorazepam. Forty eight hours after
complications by establishing a rapid feedback loop on	admission, patient developed upper respiratory tract symptoms and
performance.	was started on oral azithromycin. On the same day, he experienced
Methods:	difficulty breathing progressing to hypoxia and cyanosis when he
All patients receiving blood transfusions under the medical service	was transferred to our Emergency Department. Imaging and lab
at Kingsbrook Jewish Medical Center for the month of September 2013 were included in the analysis. Using our hospital's	results were significant for leukocytosis with a white blood cell count of 24,000, mildly elevated transaminases and bilateral
electronic health record system, (Clinician $\hat{e}^{TM}$ s View,) we	pulmonary infiltrates on plain film. Patient was empirically treated
gathered transfusion data retrospectively for the month of	with antibiotics for pneumonia and required noninvasive positive
September 2013. All transfusions under the medicineâ€ <sup>™</sup> s	pressure ventilation. Within one day of admission, he had dramatic
service were identified along with the following	improvement in respiratory status along with resolution of
-hemoglobin levels pre and post transfusion -reasons given for transfusion	infiltrates on repeat chest x-ray. Upon review of the case, it was determined that the patient was
-names of attending ordering transfusion	admitted to the rehabilitation center for cocaine and tramadol
Report cards were created for attending physicians with greater	addiction and was treated with suboxone and benzodiazepine
than two transfusions. These reports included the evidence based	which could have been the trigger for central nervous system
guidelines for transfusions, and each attending's confidential	depression. Subsequently, the administered macrolide antibiotic
data for each transfusion during the study period. Feedback was provided in a non-punitive manner. Additional the summative data	could augment the effects of suboxone. Early identification of potential negative drug-interactions with suboxone can be life
was presented at the hospital wide quality assurance committee	saving.
and in the Department of Medicine quarterly meeting.	DISCUSSION:
Transfusion rates for the subsequent three months were analyzed	Suboxone (buprenorphine naloxone) is an opioid agonist-
and compared to the pre-intervention data. Results: Primary outcome was a net reduction in transfusion of	antagonist with a †ceiling effect' for respiratory depression. Due to its unique pharmacology it offers practical advantages and
packed RBC per month corrective for discharges. Prior to the	enhanced safety when prescribed as recommended and supervised
intervention, the ratio of transfusions to discharges was 0.40	by a physician. Deaths have been reported from suboxone with
transfusion per discharge. For the 4th quarter of 2013, the period	concomitant sedative drug ingestion, such as benzodiazepines. The
post intervention, the ratio had decreased to 0.30. The intervention	role of nor-buprenorphine, the main N-dealkylated buprenorphine
decreased the rate by 25%. We also compared the pre-intervention 4th quarter 2012 and found a ratio of 0.41 compared to the ratio of	metabolite with potent respiratory depressor activity, remains unclear. Experimental studies investigating the respiratory effects
0.30 during the post-intervention period of 4th quarter 2013.	of combinations of high doses of buprenorphine and
Thereafter a follow up study in June 2014 has been done to further	benzodiazepines suggested that this drug-drug interaction may
monitor progress. Our ongoing study is to continually make	result from pharmacodynamic interactions as well as inhibitors of
efforts for improving adherence to recommended transfusion protocol.	CYP3A4 (such as azole anti-fungals, macrolide, antibacterials and HIV protease inhibitors) may increase plasma concentrations of
Conclusion: This study demonstrated that a simple feedback	buprenorphine, and patients concomitantly receiving these
system on performance delivered confidentially and non-	medications should be closely monitored and may require
punitively could reduce waste and improve adherence to evidence	suboxone dosage reduction.
based medicine in a community teaching hospital. Keys to success	CONCLUSION: Subgroups should be prescribed with coution in the presence of
include involving housestaff in analyzing data, presenting findings at institutional conferences, having a report delivered by IT that	Suboxone should be prescribed with caution in the presence of opioid analgesics, general anesthetics, benzodiazepines,
avoided any chart audits, and creating an efficient rapid system to	phenothiazines, other tranquilizers, sedative/hypnotics, or other
deliver feedback focusing on the most clinically active physicians.	CNS depressants (including alcohol).
The project is easily replicable, low cost and is associated with	
substantial financial savings and improved patient safety.	

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Title:STATIN INDUCED IMMUNE-MEDIATED	Institution: Montefiore New Rochelle Hospital and
NECROTIZING MYOPATHY	Albert Einstein College of Medicine
INTRODUCTION:	Andert Emistern Conege of Wedterne
Statin induced necrotizing myopathy is a rare immune-mediated	Title:HYPOGLYCEMIC HEMIPLEGIA
myopathy characterized by persistence of proximal muscle weakness,	HUE.IIII OGLI CENIIC HENIII LEGIA
marked elevation of creatinine kinase (CK) levels despite	In two dy ation
discontinuation of statin, histological evidence of myonecrosis without	Introduction Serum glucose less than 40mg/dL is a well-recognized cause of
significant inflammation and favorable response to immunosuppression[1].	hypoglycemic encephalopathy. Hypoglycemia manifests either as
CASE PRESENTATION:	adrenergic symptoms like anxiety, restlessness, sweating,
A 67 year old male with a past medical history of hypertension,	tachycardia, hunger and irritability; or as neuroglycopenic
diabetes mellitus and coronary artery disease, on atorvastatin 80mg	symptoms like headache, dizziness, confusion, perioral tingling,
daily, presented with worsening proximal muscle weakness and elevated CK levels of two months duration despite the atorvastatin	seizures, stupor and coma. Hypoglycemic hemiplegia (HH) is a
discontinuation. He had symmetric proximal arm and leg weakness on	rare manifestation of hypoglycemia and is found in about 4% of
examination. Laboratory results revealed CK-4100 U/L (normal range	severe hypoglycemic cases. We present a case of an elderly diabetic female with HH.
30-200 U/L) with normal TSH and renal function. Myositis antibody	Case report
panel and workup for malignancy was negative.	A 65 year old female with history of DM on insulin, was brought
Electromyography/Nerve conduction studies indicated generalized myopathy. Left thigh muscle biopsy revealed myonecrosis with sparse	to the emergency department (ED) from a nursing home for
inflammation. He responded well to prednisone 60mg daily which was	lethargy and dysarthria for 3 hours. There was no prior history of
tapered off after 2 weeks. Patient was asymptomatic for one year with	cerebrovascular accident, migraine, or seizure disorder. In the ED
CK rising up slowly. He had a relapse 18 months after the steroid taper	she was noted to have right-sided hemiparesis and dysarthria. CT
associated with CK of 11,523 U/L. Repeat muscle biopsy of right thigh	scan of the head was negative for any acute intracranial event. Vitals recorded on admission: BP 187/82 mm hg, HR 110/min, RR
showed active myonecrosis, regeneration with limited inflammation and widespread MHC class-1 immunoexpression. Anti-3-Hydroxy-3-	14/min and temperature: 99.2 F. She was lethargic, mildly
methylglutaryl-coenzyme A reductase autoantibody was not checked	diaphoretic, and unable to speak clearly. A right sided facial droop
due to financial constraints. Patient was symptomatic despite being on	was noticed. She could move her left upper and lower extremities
prednisone 60mg and azathioprine 100mg daily and therefore he	but not the limbs on the right side. Motor strength was 4/5 on the
received 2 cycles of IVIG infusion. He had significant clinical improvement with IVIG and CK trended down to 1000 U/L within 2	left extremities and 0/5 on the right side. Pupils were equal and
months after the infusion.	sluggishly reactive to light. Cardiac and respiratory examination
DISCUSSION:	was normal. Blood glucose was 25 mg/dL. 50 ml of 50 % dextrose was administered immediately and patientâ€ <sup>TM</sup> s level of awareness
Statin induced immune-mediated necrotizing myopathy has been	improved instantly. She was able to speak fluently, follow simple
strongly associated with anti–HMGCR autoantibodies which target	commands and motor strength was 5/5 on all extremities. The
the 3-Hydroxy-3-methylglutaryl-coenzyme A reductase protein expressed by the regenerating muscle fibers and is up-regulated by the	facial paralysis also resolved. She was able to walk without ataxia
statins[2]. Muscle biopsy usually reveals extensive myonecrosis with	within 15 minutes of administration of dextrose. Doppler
regenerating fibers with minimal inflammation and sarcolemmal	ultrasound of carotids was normal. Her insulin regimen was
MHC-1 expression on non-necrotic fibers[3,4]. Steroids are initially	adjusted and symptoms did not recur during the hospital course.
given followed by long term immunosuppression with steroid sparing agents like methotrexate, mycophenolate and azathioprine or IVIG as	Discussion HH is a well-defined but rare manifestation of hypoglycemia with
frequent relapses can occur when the treatment is tapered[3].	about 200 cases reported. The average serum glucose at which
CONCLUSION:	HH develops is 32 mg/dL. For unexplained reasons right sided
Statin induced necrotizing myopathy is considered as a diagnosis of	hemiplegia is seen in 66% of cases. The mechanism of HH is not
exclusion and suspected when the workup is negative for other atiologies[3]. Early recognition of this rare antity is important because	fully understood. Several hypotheses have been proposed which
etiologies[3]. Early recognition of this rare entity is important because of the autoimmune process triggered by statin which requires	include local cerebral vasospasm, failed auto-regulation of cerebral
immunosuppressive therapy.	blood flow and selective vulnerability of certain regions of brain to the hypoglycemic insult. Reduced glucose delivery to neurons
REFERENCES:	leads to failure of high energy membrane ion pumps, eventually
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necrotizing myopathy associated with statins. Muscle and nerve, 2010;41:185-190	hypoglycemia has also been described.
2.Mammen AL, Chung T, et al. Autoantibodies against 3-Hydroxy-3-	HH is readily reversible and should be considered as a cause of
methylglutaryl-coenzyme A reductase in patients with statin-associated	hemiplegia. We recommend finger stick glucose testing in the
autoimmune myopathy,2011;63(3):713-721	preliminary evaluation of all individuals presenting with suspected
3.Hamann PD, Cooper RG, et al. Statin induced necrotizing myositis	cerebrovascular accident. Such an approach can avoid unnecessary and expensive investigations. Suspicion of HH should be
– A discrete autoimmune entity within the "statin- induced myopathy spectrum.†• Autoimmunity reviews, 2013;12(12):1177-	especially high in diabetics on hypoglycemic agents.
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regulation of MHC-I associated with statin therapy. Neuromuscular	
disorders,2007;17:194-200	

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	Division) Albert Einstein College of Medicine
	Division) Andert Emistern Conege of Wedlerne
Title:Synthesized seizures in an elderly male: are the	Title:Hypothermia Caused By Quetiapine: A Case
	Report
	INTRODUCTION:
	Hypothermia is defined as a core body temperature below 95ºF.
1) To demonstrate how an extensive history is key in the diagnosis	Atypical antipsychotics, e.g. risperidone and olanzapin , have
of Synthetic cannabinoids (SC) induced seizure	traditionally been linked with hypothermia. The following scenario
2) To identify SC abuse as a growing cause of concern in elderly	illustrates a case where the cause of hypothermia remained undetermined, leading to multiple hospital admissions in one year.
Clinical vignette:	Ultimately, quetiapine was found to be the causative factor, and
69 year old African American male presented to the ED with	stopping the medication corrected the hypothermia.
generalized tonic-clonic seizures (TCS) after smoking K2. Patient had four episodes of seizures, one of which occurred in his home,	CASE:
	The patient is a 59 y woman with a history of hypothyroidism, mental retardation, seizure and bipolar disorder, who had been taking
precautions were followed in ED. Each episode lasted	quetiapine presented with altered mental status and hypothermia of
approximately three minutes and was not associated with bowel or	91F. Routine laboratory testing, including WBC count, thyroid
	function tests and cortisol levels, was normal. She was initially treated
	for sepsis of unknown origin and was started on broad spectrum antibiotics. The patient had 4 episodes of hypothermia during the
	hospital stay with a specific pattern that was related to her dosing of
ecchymoses were detected. Patient received Haldol and lorazepam	quetiapine. These episodes occurred around 10 PM, after she had
for agitation and seizures, respectively. Upon laboratory	taken the 3 daily doses of quetiapine. The previous record showed that
investigation, the significant findings were as follows: serum	she was initially started on quetiapine 200 mg daily without any episodes of hypothermia noted. Subsequently the dose was increased
creatinine of 1.8 and a CFK level of 505 which ultimately fielded	to 200 mg TID and this was followed by 3 subsequent admissions for
	hypothermia in one year. After discontinuation of quetiapine, no
revealed normal systolic function. Patient was admitted for	further episodes of hypothermia were noted. Divalproex was continued
monitoring during which he had two episodes of TCS, that was	as treatment for seizure disorder. Given the strong correlation between the discontinuation of quetiapine and the disappearance of the
managed with levetiracetam.	hypothermia, quetiapine was presumed to be the cause for this
Discussion:	phenomenon.
SC are synthetic agonists at CB1 receptors and are chemically	DISCUSSION:
	Hypothermia in patients on atypical antipsychotics is a serious, unpredictable, idiosyncratic adverse reaction that frequently leads to
retail outlets as K2, spice, etc, labeled, $\hat{a} \in c$ for human use $\hat{a} \in \bullet$ ,	hospital admission and infrequent fatalities. Among atypical
to evade FDA scrutiny. These drugs rank second among the illicit	antipsychotics, hypothermia is attributed more often to olanzapine and
drugs used by this age group. CB1R in the brain mediates the	resperidone, due to their antagonistic actions on D2 and 5HT2
psycholopie effect of tellanguloeunnuoliloi (1110). Seue shave	receptors. However, there are a few case reports that described quetiapine-induced hypothermia. Quetiapine has antagonistic action on
	D2, 5H2A and alpha 2 receptors with the highest affinity for alpha-2
	receptors. The alpha 2 receptor blocking inhibits the peripheral
however, this activity is hypothesized to be attributed to the	vasoconstriction and shivering, and thus may play a role in inducing
decreased transmission in glutamate systems due to the fact that	the hypothermia. The high 5HT-2/D2 affinity ratio also contributes to this adverse effect by disrupting the thermoregulation. Interestingly,
cannabinoids decrease synaptic transmission in glutamate and ?-	the hypothermia caused by quetiapine is dose dependent and is more
aminobutyric acid (GABA) systems in the brain. The inhibition of	marked in patients with CNS disorders
?-aminobutyric acid (GABA) however may increase the risk of seizures. Tetrahydrocannabinol (THC) is a partial agonist at	Conclusions:
	1. In cases of recurrent hypothermia, other causes, such as medications, should also be explored besides the more commonly
Cannabidiol (CBD) has low affinity for CB1R. In vitro and in	expected causes such as sepsis, malnutrition and endocrine disorders.
vivo seizure animal studies suggested that the anticonvulsant	2. Quetiapine can cause hypothermia in a dose dependent manner,
1	especially in patients with CNS disorders
Patients who use SC present with symptoms not usually seen with natural marijuona such as sociations, hallocingtions, agitation	3. The antagonism of alpha-2 receptors is main mechanism of quetiapine-induced hypothermia due to antagonism of the D2 and
	5HT2 receptors.
are chemically very distinct from THC. Our case shows that a	REFERENCES:
thorough history is vital in identifying the cause of SC induced	1.http://psychopharmacologyinstitute.com/antipsychotics/quetiapine/m
seizures and raises concern of increased SC use in the elderly.	echanism-of-action/www.medscape.com/viewarticle/745659-3 2.http://www.lareb.nl/larebcorporatewebsite/media/publicaties/kwb_20
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	adults?source=search_result&search=HYPOTHERMIA+BY+QUETA
	PINE&selectedTitle=3~150

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Division, Albert Einstein College of Medicine	Title:REFRACTORY ADULT PRIMARY
	AUTOIMMUNE NEUTROPENIA THAT
Title:Diabetic Third Nerve Palsy with Pupillary	RESPONDED TO ALEMTUZUMAB
Involvement: "Open up" eyes for Diabetes: a case	
report	INTRODUCTION
report	Primary autoimmune neutropenia (P-AIN) has been reported in few
INTRODUCTION:	adult patients, but limited data exists regarding effective treatment
The 3rd nerve palsy caused by diabetes is usually considered to cause	strategies for patients failing conventional treatment.
complete external dysfunction with eye down and out sparing the pupil	CASE DESCRIPTION
completely (no internal dysfunction). But there are a few cases where	A 35 year-old man in good health presented with gingival and rectal pain and was found to have a rectal fissure on exam. Laboratory testing
diabetic 3rd nerve palsy involves the pupil partially causing anisocoria.	revealed an absolute neutrophil count (ANC) of zero and he was
The following case describes a case report where diabetes presented	treated with granulocyte-colony stimulating factor (G-CSF) with a
with atypical 3rd nerve palsy. CASE:	transient response. He was readmitted multiple times thereafter with
51 year old woman with a history of long-standing uncontrolled	acute febrile illnesses and ANC of zero treated with G-CSF with only a
diabetes with HbA1c 12% (normal <6.4%), hypertension and	transient response each time. Diagnostic evaluation revealed negative
hyperlipidemia presenting with 6 day history of right eye ptosis	serologies for Hepatitis B, Hepatitis C, Epstein-Barr virus, Cytomegalovirus, Lyme disease, and HIV1 and 2. Flow cytometry of
without any complaints of blurry vision. Exam was remarkable for	peripheral blood leukocytes was negative. Cytoplasmic-antineutrophil
medial opthalmoplegia with eye deviated out but not down, and right	cytoplasmic antibody as high as 1:1280 was detected consistent with
pupil greater and sluggish than left pupil. The neuro imaging including CT head, CTA, MRA were unremarkable. The anisocoria noted	autoimmune neutropenia. Bone marrow aspirate and core biopsy
initially led to carotid angiography that was negative for aneurysm.	revealed normal karyotype, normal cellularity with maturation arrest at
Finally the symptoms were attributed to uncontrolled diabetes. The	the myelocyte stage and occasional hypolobulated megakaryocytes that
insulin regimen was optimized and patient was discharged. Follow-up	did not meet the criteria for myelodysplastic syndrome.
after 3 months revealed better controlled diabetes (HbA1c: 7%) with	Over the next 3 years, his neutropenia transiently improved with a variety of agents including Rituximab, Cyclosporine,
resolution of eye symptoms.	methylprednisolone, intravenous immunoglobulin (IVIG), and
DISCUSSION:	Methotrexate with G-CSF. Splenectomy was then performed for
3rd nerve palsy with pupillary involvement often raises the suspicion of neurological emergencies such as intracerebral aneurysm or	intractable left upper quadrant pain and surgical pathology revealed
subarachnoid hemorrhage while diabetic 3rd nerve palsy is usually	non-specific reactive lymphoid hyperplasia. Post-splenectomy, his
considered to be pupil sparing. The incidence of pupillary involvement	neutrophil counts rose transiently for 4 months only.
in 3rd nerve palsy caused by diabetes is more common than has been	Based on the study by Willis et al., in which Alemtuzumab was used intravenously in the treatment of autoimmune cytopenias, a decision
recognized in past years. About one fourth of patients with diabetic 3rd	was made to administer a modified regimen of Alemtuzumab 10mg
nerve palsy has some degree of anisocoria and is usually < 1mm. The	fixed dose subcutaneously for 5 days a week for 2 weeks. Neutrophil
associated sluggish response of affected pupil differentiates diabetic pupillary involvement from the aneurysmal compression of 3rd nerve	counts rose and the patient continued to have a sustained response for
that causes unresponsive pupil. The opthalmoplegia in diabetic 3rd	over seventeen months until his death from a motor vehicle accident.
nerve palsy is usually complete with affected eye "down and	In the 17 months post Alemtuzumab, he was hospitalized 4 times for
out― and it resolves earlier than anisocoria. But in few instances, it	febrile illnesses compared with 9, 5 and 6 times in the three individual prior years.
presents as incomplete external dysfunction evident as medial	DISCUSSION
opthalmoplegia with eye only "out without being down― (as in	In contrast to P-AIN occurring in childhood, the disease in adults has a
our case). The exact mechanism for pupillary involvement (internal dysfunction) in DM is unclear but it may be attributed to autonomic	chronic course and spontaneous remission is unusual. Alemtuzumab is
neuropathic effects of diabetes on Edinger- Westphal nucleus in	a humanized IgG1k monoclonal antibody that recognizes the CD52
midbrain. The atherosclerotic effect of diabetes involving vasa	antigen on human lymphocytes, monocytes, macrophages, eosinophils,
nervosum in 3rd nerve explains the external dysfunction seen in	dendritic cells and natural killer cells. Alemtuzumab causes cell lysis
diabetic 3rd nerve palsy. The optimal control of diabetes is mainstay of	via complement or antibody-dependent cellular cytotoxicity as well as by directly acting on T lymphocytes, which play an important role in
treatment that results in resolution of symptoms in 3 months.	controlling expansion of antibody producing autoreactive B-cell
LESSONS LEARNED:	clones. Based on our experience with this patient, Alemtuzumab was
1. Pupillary involvement in diabetic 3rd nerve palsy is more common than assumed in past.	effective in maintaining stable neutrophil counts and reducing
2. The autonomic neuropathy and atherosclerotic effect of	neutropenia related hospitalizations. It is potentially a novel option for
diabetes are considered possible pathological mechanisms.	the treatment of refractory p-AIN but should only be considered in
3. Optimal diabetic control is the cornerstone of treatment.	patients who have failed multiple conventional, less toxic treatments due to high risk of infectious complications.
REFERRENCES:	due to mgn fisk of fineenous complications.
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anisocoria?source=related_link	

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The:Cartilzomid-Induced Flash Pulmonary Edema	Hyperbaric Oxygen Therapy
Title:Carfilzomib-Induced Flash Pulmonary Edema Introduction: Carfilzomib (CFZ) is a chemotherapy agent used in the treatment of relapsed and refractory multiple myeloma. We present the case of a woman with flash pulmonary edema and ST segment changes after treatment with this agent. Case Presentation: A 54 year old woman presented to our emergency department with sudden onset shortness of breath and chest pain. The patient had been diagnosed with multiple myeloma (MM) 5 years ago and had suffered relapse after two prior chemotherapy regimens which included bortezomib. Her home medications were gabapentin, bupropion, and hydromorphone. A day prior to presentation, she received a first dose of CFZ from her oncologist. On physical examination, heart rate was 121/min, respiratory rate was 26/min, blood pressure was 116/83 mmHg, temperature was 36.8 C, and SpO2 was 91%. ECG revealed ST depressions in leads I, aVL, V5, and V6 and minimal ST elevation in inferior leads. Blood tests were unremarkable except for hemoglobin of 9.8 g/dL and slightly elevated cardiac enzymes. CT angiogram of chest revealed pulmonary edema with no emboli. The patient was in severe respiratory distress and had to undergo endotracheal intubation. Coronary angiogram showed normal coronaries. The patient's symptorus improved with diuretic therapy. A 2-D echo showed a LVEF of 35-40. She was successfully extubated on day 3, and was subsequently discharged on day 9 following full recovery. Discussion: CFZ is a second generation proteasome inhibitor for the treatment of relapsed and refractory multiple myeloma (RRMM) patients who have received at least 2 prior therapies, including bortezomib and an immunomodulatory agent, and have demonstrated disease progression on or within 60 days of the completion of the last therapy. CFZ primarily inhibits the chymotrypsin-like site of the proteasome (1). It acts by inhibiting proteasomes, which are responsible for maintaining cardiac myocyte protein quality, cellular mass and sarcomere quality. Therefore	Title:Acute Pulmonary Edema Secondary to Hyperbaric Oxygen Therapy Introduction: Hyperbaric oxygen therapy (HBO) has been shown to be effective in the treatment of diabetic ulcers, air embolism, carbon monoxide poisoning, and gas gangrene. It is usually well tolerated with very few side effects. Case Presentation: An 80 year old male with Ischemic Cardiomyopathy (ejection fraction - 25%), diabetes mellitus and peripheral vascular disease was admitted because of severe dyspnea. He was getting hyperbaric oxygen treatment for a non-healing ulcer on his foot. His vitals were stable and he was breathing comfortably before the start of therapy. Towards the end of treatment, he developed rapidly worsening dyspnea. EMS was called and he was brought to the hospital on 100% oxygen via non-rebreather mask. His severe respiratory distress and physical examination findings including diffuse inspiratory and expiratory crackles required him to be intubated and mechanical ventilation started. EKG did not show any ischemic changes. Cardiac biomarkers were negative, but his BNP was significantly elevated at 1568 pg/mL. There were pink frothy secretions in the endotracheal tube and chest X-ray showed severe pulmonary edema. He was admitted to the cardiac ICU for acute respiratory failure secondary to pulmonary edema. He received ventilator care and intravenous diuretics, and was successfully extubated 3 days latr. Discussion: HBO therapy has been shown to improve the rate of healing of diabetic foot ulcers possibly by improving wound tissue hypoxia, enhancing perfusion, and down-regulation of inflammatory cytokines. Some side effects of HBO include otic barotrauma, visual changes and possible CNS oxygen toxicity. Very few cases of pulmonary edema due to HBO treatment have been described. Weaver et al described three cases in 2001- all of them had pre-existing cardiac disease, and two of them were diabetic. Yildiz et al demonstrated that HBOO treatment led to increase of N-terminal pro-B-type natriuretic peptide (NT pro-BNP) level
2007;67(13):6383-6391.	effect of hyperbaric oxygen therapy in patients with pre-
Reference 2: Powell SR. The ubiquitin-proteasome system in	existing heart disease. Thus caution should be observed in
cardiac physiology and pathology. Am J Physiol Heart Circ	treating patients with heart disease with hyperbaric oxygen
Physiol. 2006 Jul;291(1):H1-H19. Reference 3: KyprolisTM Prescribing Information Only	therapy.
Reference 3: KyprolisTM Prescribing Information Onyx	
Pharmaceuticals, South San Francisco.	

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institution. The Brooklyn Hospital Conter	Title:The "Whoosh" • In My Ears
Title:Regadenoson (Lexiscan)-Induced Left Bundle	
	Introduction:
Title:Regadenoson (Lexiscan)-Induced Left Bundle Branch Block (LBBB) which Reversed with Administration of Aminophylline Regadenoson is a pharmacologic stress agent indicated for radionuclide myocardial perfusion imaging (MPI) in patients unable to undergo adequate exercise stress testing. It is a modified form of the adenosine molecule with an additional side chain (1, 2, 6) and works by activating the A2A adenosine receptor, which produces coronary vasodilatation and increases coronary blood flow (1, 3, 4). Adenosine receptor agonists, including regadenoson, can depress the SA and AV nodes and can cause first-, second-, or third- degree AV block and sinus bradycardia (5). Until now, a new-onset LBBB secondary to the administration of regadenoson has not been described. This is a case report of an 84-year-old obese African-American woman with coronary artery disease status post (s/p) percutaneous coronary intervention with stent placement, severe peripheral vascular disease s/p stent placement, hypertension, type 2 diabetes mellitus, chronic kidney disease stage 2, and dyslipidemia who received a radionuclide MPI as an outpatient. She had no known allergies and took aspirin, clopidogrel, metoprolol, quinapril, simvastatin, furosemide, nifedipine (extended release), and insulin (NovoLog Mix) at home. Her echocardiogram showed concentric left ventricular hypertrophy (LVH) with normal LV systolic function and an EF of 65-70%, moderate aortic stenosis, mild mitral regurgitation and tricuspid regurgitation, and mild-to-moderate pulmonary hypertension. Her electrocardiogram (ECG) showed sinus rhythm with minimal voltage criteria for LVH and normal QRS duration and morphology (Figure 1). The test was initiated and the patient was injected with 0.4 mg of regadenoson. Her baseline ECG showed a heart rate of 63 beats per minute (BPM) (Figure 1). Ten minutes into the test,	Introduction: Intracranial Hypotension is a benign condition characterized by an orthostatic headache, that is, one that occurs or worsens with upright posture. In addition to headaches, patients may experience nausea, dizziness, horizontal diplopia, changes in hearing, or radicular symptoms involving the upper limb, all of which are orthostatic in nature. Case: A 31 y/o female 37 weeks pregnant initially presented to the hospital for cesarean section for delivery of twins. The delivery was complicated by significant post-partum bleeding, requiring multiple units of blood transfusions, and subsequent supracervical hysterectomy. She presented the following day with hyperacusis and "echoing†• symptoms that were unbearable in tolerating everyday sounds. Patient at the time denied hearing loss, vertigo, diplopia, or headaches, and stated that the auditory changes came on the same evening after the surgery was done. Of note, patient stated that she had an epidural anesthesia two days ago prior to her Cesarean section but stated that she had no complications after it was done. On physical exam, patientâ€ <sup>TM</sup> s vital signs were stable and there were no pertinent findings on the patientâ€ <sup>TM</sup> s neurologic exam including conductive and sensorineural hearing loss. Patient was sent for an MRI/MRA with and without contrast of her brain and was found to have meningeal thickening (in the convexity of bilateral cerebral hemispheres) and diffuse dural enhancement. This study was followed up by a lumbar spine MRI to look for a CSF leak but the study was unremarkable. Given the findings of the brain MRI, and that a CSF leak could not be ruled out, a blood patch was recommended as a therapeutic and diagnostic for intracranial hypotension. A few hours post blood patch, patients symptoms improved with
the patient's ECG showed a LBBB pattern (Figure 2). Her peak heart rate was 83 BPM during this episode but had decreased to 65 BPM while the LBBB pattern persisted, before aminophylline administration (Figure 3). She was asymptomatic during this period. Our initial suspicion was between rate-related LBBB and regadenoson-induced LBBB. 50 mg of aminophylline was administered and an ECG performed immediately after aminophylline administration did not show the LBBB pattern and showed that the electrical activity of her heart had returned to her narrow-complex baseline with the same heart rate (Figure 4). This supported our suspicion that regadenoson was the causative agent of this new-onset LBBB. It is well established that the adverse effects from regadenoson administration, in terms of arrhythmias, are AV block and sinus bradycardia; not bundle branch block (5). The exact mechanism of this phenomenon is not known. From this case report, further studies can be pursued to determine the mechanism of effect of regadenoson on the cardiac conduction system and to reveal whether the quality and/or quantity of A2A adenosine receptors in the cardiac conduction system play a significant role.	complete resolution within 48 hours. Discussion: The incidence of intracranial hypotension has been estimated at 5 per 100,000 per year, with a peak around age 40 years and a female to male ratio of 1.5 to 1. Most cases result from a persistent CSF leak, such as after dural puncture for a lumbar puncture, myelography, or spinal anesthesia. The diagnosis of intracranial hypotension can be confirmed by demonstrating decreased CSF opening pressure, often less than 60 mm H20, on performing an LP. Imaging can also be used for diagnosis. Cranial MR with gadolinium can show diffuse thickening of the pachymeninges, engorgement of venous sinuses, subdural fluid collections, and downward displacement of the brain. Intracranial hypotension can result in several complications including subdural hematoma, subarachnoid hemorrhage, dural venous sinuses thrombosis, and stupor resulting from sagging of the brain. Treatment for ICH involves conservative management and bed rest. Laying supine reduces CSF pressure at the site of leakage and therefore allows healing of the meningeal defects.

Additional Authors: Karishma Patel, M.D., Samantha Smalley, Pharm.D., BCPS, Harish Patel, M.D., Joseph Paul, M.D. Institution: Brookdale University Hospital and Medical Center Title: MYOCARDIAL ISCHEMIA FOLLOWING INTRACAVERNOSAL PHENYLEPHRINE INJECTION FOR PRIAPISM SECONDARY TO TAMSULOSIN Objective: 1. To appreciate project provide the second provide provide the second provide the second provide provide provide the second provide provide the second provide provide the second provide provide provide provide provide provide provide provide provide the second provide p		
Institution: Brookdale University Hospital and Medical Center Titie: MYOCARDIAL ISCHEMIA FOLLOWING Title: CASE REPORT: SEVERE INTRACAVERNOSAL PHENYLEPHRINE INTRACAVERNOSAL PHENYLEPHRINE INTECTION FOR PRIAPISM SECONDARY TO TAMSULOSIN Objective 1. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim as a rare side effect of Tamsulosin (To 2. To appreciate prajsim), Physical casimitation was remained to a side approxement of to a side pragmaticate as a feature and antistration. The side of the side approxement as a compared to the side appreciate asecore appreciate as a	-	Smalley, Pharm.D., BCPS, Harish Patel, M.D., Joseph
<ul> <li>INTRACAVERNOSAL PHENYLEPHRINE</li> <li>INJECTION FOR PRIAPISM SECONDARY TO TAMSULOSIN</li> <li>Objective:         <ol> <li>To appreciate priapism as a rar side effect of Tamsulosis</li> <li>To appreciate priopism as a rar side effect of Tamsulosis.</li> <li>To appreciate priopism as a rar side effect of Tamsulosis.</li> <li>To appreciate priopism.</li> <li>A 71-year-old black male presented to the ER with painful priapism of fours duration, which was not released by ice-pack.</li> <li>Past-old black male presented to the ER with painful priapism of fours duration, which was not released by ice-pack.</li> <li>Past-old black male presented to the PR with painful priapism. Of bours duration, which was not released by ice-pack.</li> <li>Past-old black male presented with CPK levels greater than 1500,000 unitst.</li> <li>Con ark nowledge, this is the lighest CPK levels greater than 1500,000 unitst.</li> <li>Con ark nowledge, this is the lighest CPK levels greater than 1500,000 unitst.</li> <li>Con ark nowledge, this is the lighest CPK levels greater than 1500,000 unitst.</li> <li>Con ark nowledge, this is the lighest CPK levels greater than 1500,000 unitst.</li> <li>Con ark nowledge, this is the lighest CPK levels greater than 250,000 unitst.</li> <li>Con ark nowledge, this is the lighest CPK levels greater than 250,000 unitst.</li> <li>Con ark nowledge, this is the lighest CPK levels and the start 320,000 unitst.</li> <li>Con ark nowledge, this is the lighest CPK levels and and ymage negative are uncommon. They are even more uncommon in association intimenza. An accompact and the start 357,174 unitst. (nor support light priorite nicipation, which helped to achieve and thin the diagnosis of NFTEM.</li> <li>Medical management followed by successful PCI and stent pheorytephrine unipation was attem</li></ol></li></ul>	• •	
<ul> <li>1. To appreciate priagrism as a rare side effect of Tamsudosin</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as a potential side effect of</li> <li>2. To appreciate myocardial inflatenza as an expective myocardial inflatenza as an expective myocardial inflatenza as an expective myocardial myocard</li></ul>	INTRACAVERNOSAL PHENYLEPHRINE INJECTION FOR PRIAPISM SECONDARY TO TAMSULOSIN	RHABDOMYOLYSIS WITH ACUTE KIDKEY INJURY SECONDARY TO SEASONAL INFLUENZA A INFECTION IN A YOUNG ADULT
that are encountered even with the use of common medications. It is also an eye-opener that necessitates vigilance during the use of drugs that can precipitate myocardial ischemia, especially in high-	<ol> <li>To appreciate priapism as a rare side effect of Tamsulosin</li> <li>To appreciate myocardial infarction as a potential side effect of intracavernosal Phenylephrine</li> <li>Case Description:</li> <li>A 71-year-old black male presented to the ER with painful priapism of 6 hours duration, which was not relieved by ice-pack application. He had a past medical history of BPH, hypertension, and diabetes for which he was on Tamsulosin (for 4 years), Enalapril, and Metformin respectively. He stopped taking all his medications 6 weeks before the symptom onset, as he felt â€casymptomatic†•. However, upon relapse of BPH symptoms he took double (0.8 mg) the regular dose of Tamsulosin the night before the onset of priapism. Physical examination was remarkable for tender, rigid penile erection without any signs of trauma. Right corpus cavernosum aspiration was attempted with 18 G needle, which helped to provide brief relief. Then, he was given intracavernosal Phenylephrine injection, which helped to achieve detumescence. However, within an hour of phenylephrine administration, he developed palpitations. EKG revealed sinus tachycardia with mild ST segment depression in leads II and V6. Laboratory findings demonstrated significant elevation of Troponin-I. He was admitted with the diagnosis of NSTEMI. Medical management followed by successful PCI and stent placement in the obtuse marginal branch of left circumflex artery was performed. He was then discharged on day 3 of hospitalization. Discussion:</li> <li>Tamsulosin is a selective a I A antagonist that is prostate specific, but is known to have effect on corporal smooth muscles. Alpha- blockers (AB8) directly inhibit sympathetic stimulation for detumescence. Tamsulosin is the only AB know to improve sexual function, priapism is viewed as one end of this effect. Priapism in patients on Tamsulosin usually follows a high dose or with concurrent use of medication that inhibits its metabolism.</li> <li>Phenylephrine, a pure alpha agonist is the d</li></ol>	influenza. We discuss the presentation and management of a 32- year- old male diagnosed with seasonal influenza A and severe rhabdomyolysis. While previously published case reports reveal creatinine phosphokinase (CPK) levels typically < 50,000 units/L, our patient presented with CPK levels greater than 1,500,000 units/L and acute kidney injury (AKI) requiring hemodialysis. To our knowledge, this is the highest CPK level secondary to influenza infection reported to date. Our case is notable in several ways. While pH1N1 is notorious for causing severe infections in previously healthy, young or middle age adults, influenza A infections typically cause the most severe complications in very young children, the elderly, and those with significant co-morbid disease states. Our patient was 32 years old, with no significant co-morbidities (except mild MR) and within one day of MICU admission, required intubation and ventilatory support due to respiratory failure. Furthermore, he had severe renal morbidity. Overall, renal complications secondary to influenza A are uncommon. They are even more uncommon in association with influenza A as compared to pH1N1. Our patient presented with extremely severe rhabdomyolysis and AKI. Maximal CPK levels reported range between 522 a€ <sup>cr</sup> 1,150,000 units/L. Our patient had an initial CPK of at least 1,557,174 units/L (our systems used would not quantify higher numbers), which is slightly higher than the highest reported CPK level caused by influenza A infection. By hospital day two, this had only deceased to around 780,000 units/L. Furthermore, our patient required intermittent hemodialysis for one monthsä <sup>c</sup> TM duration. Higher CPK levels have been associated with worse outcomes and propensity to develop AKI. Based on this rationale, it is unsurprising that our patients are more prone to influenza vaccination yearly as these patients are more prone to influenza vaccination yearly as these patients are more prone to influenza vaccination yearly as these patients are more prone to influ

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Title:Unusual case of Superior gluteal artery injury	of Pulmonary and Critical Care Medicine, Stony Brook
from low energy buttock contusion	University Hospita
INTRODUCTION	
Superior gluteal artery injury is a known but rare complication,	Institution: Stony Brook University Hospital
occurring most commonly after hip fractures and penetrating	Title:CASE REPORT: SEVERE VITAMIN C
abdominal injury, although it has been known to occur after	DEFICIENCY VEILED BY PSEUDOVASCULITIS
total hip arthroplasty, intramuscular injection, iliac crest bone	Background: Scurvy, first described in the Ebers papyrus in 1500
grafting, and L2 spine fracture. Its origin in the sciatic notch makes it vulnerable to shearing forces of blunt and penetrating	BC, is now an uncommon disease process. It results from ascorbic
trauma. We present a case of superior gluteal artery injury	acid (vitamin C) deficiency, and in modern times, at risk groups
after a mechanical fall.	include alcoholics, malnourished, and economically disadvantaged
CASE REPORT	persons. We report a unique case of scurvy masquerading as vasculitis in a patient with severe food intolerance.
An 83 year old male with medical history significant for	Case Presentation: A 23-year-old man with irritable bowel
hypertension, COPD, sick sinus syndrome, s/p permanent	syndrome presented with lightheadedness and syncope. One month
pacemaker placement presents to the hospital after a fall from	prior to presentation the patient reported myalgia, arthralgia,
lower stairs in his house, witnessed by family member. On	fatigue, and a rash over his lower extremities. Two weeks later he
admission patient's vitals signs were within normal limits,	became increasingly lightheaded and on the day of admission, he
physical exam was positive for bruises over right forearm and	lost consciousness while ascending stairs at home. On presentation, his temperature was 38.1oC. Orthostatic vital
hip. On palpation, there was tenderness of right hip, with	signs were BP 114/62, pulse 100 (supine) and BP 82/49, pulse 117
decreased range of motion. No numbress, tingling, sensory or	(standing). Physical examination revealed erythematous gums;
motor deficits were noted. No hematomawas palpated. X-Ray of pelvis and CT of brain didn't show any evidence of	tenderness and swelling in the right thigh, diffuse perifollicular
fractures or bleeding. Next day, patient complained of	petechiae over the lower extremities, and corkscrew hairs. Initial
increasing pain and decreased range of motion in the right hip.	laboratory findings were WBC 2.86 x 109/L, Hgb 5.4 g/dl, platelet
Hemoglobin dropped from 11.1 g/dL upon admission to 8.4	381 x 109/L, MCV 87.4 fL, ESR 67 mm/hr, INR 1.2, total
g/dL, blood pressure decreased from 101/64 to 93/54 over 24	bilirubin 1.9 mg/dl, and direct bilirubin 0.6 mg/dl. Peripheral smear demonstrated normocytic, normochromic anemia without
hour of period.Medical team also noticed bruise on hip was	evidence of hemolysis. Computerized tomography scan
expanding. CT scan of hip was urgently performed and	demonstrated a thigh hematoma measuring 3.7 x 7.0 cm.
showed large hematoma within right gluteal musculature.	The patient received six units of PRBCâ€ <sup>™</sup> s over the next three
Angiogram showed right superior gluteal artery injury feeding	days with an inadequate response (Hgb 7.2). The diagnosis of
the hematoma. Interventional radiology coil embolized the	vasculitis was suspected; an autoimmune workup revealed a low
artery, after which patient's hemoglobin stabilized and BP	titer ANA 1:40 (speckled) with negative ANCA and extractable
returned to 129/65. CONCLUSION	nuclear antigen antibodies. Skin biopsy of the rash demonstrated perifollicular hemorrhage and hemosiderin deposits but was
Superior gluteal artery injury is a rare complication of	negative for vasculitis. Esophagogastroduodenoscopy revealed
traumatic abdominal and pelvic injuries. Case reports	gastritis and multiple intramucosal hemorrhages within the gastric
predominantly describe immediate hemodynamic instability	antrum. Workup for nutritional deficiency revealed an
following traumatic injury, although some authors report	undetectable plasma vitamin C level (< 0.08 mg/dl). The patient
delayed hemodynamic changes after injury (after 48 hours).	was started on oral vitamin C 1000 mg daily and midodrine for
Delayed hemodynamic changes may be due in part to injury of	vasomotor instability. Hgb trended upward to 11.2 and he was discharged soon thereafter. The patientâ€ <sup>TM</sup> s rash disappeared
smaller branches of superior gluteal artery, leading to a	quickly and he had complete resolution of his other symptoms one
slower, prolonged bleeding. Bleeding can be extensive enough	month after discharge.
to cause compartment syndrome of the buttock, presenting	Discussion: Scurvy is a clinical syndrome classically characterized
with unrelenting pain resistant to analgesics and swelling.	by sacral osteopenia, petechial rash, and spontaneous bleeding late
Treatment usually includes arterial embolization. If compartment syndrome is present, fasciotomy may also be	in the disease course. Presenting symptoms vary and can mimic
considered in the treatment plan to prevent muscle and nerve	other rheumatologic disorders, often resulting in delayed diagnosis. Our patient had completely restricted dietary
necrosis, along with rhabdomyolosyis and kidney injury. Other	consumption of fruits and vegetables for eight months prior to
known complications of delaying decompression of the gluteal	admission in an effort to eliminate symptoms of abdominal
compartment are increased risk of infection and permanently	discomfort and bloating. He required multiple hospitalizations and
weakened lower extremity. Our case is unique because the	was misdiagnosed with leukocytoclastic vasculitis before severe
cause was identified before the patient became	vitamin C deficiency was discovered. This case highlights the
hemodynamically unstable and patient's only complaint	absolute importance of a detailed history and the danger of
was pain. Our patient did not have any type of severe trauma	anchoring heuristics. Additionally, it underscores the timeless relevance of poor dietary intake and chronic malabsorption as risk
usually associated with superior gluteal artery rupture, nor did	factors for scurvy.
he have the typical symptoms of compartment syndrome.	······································

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Institution:University at buffalo/ Catholic Health System	Institution: St Johns Episcopal Hospital
	Title:A CASE OF A MALIGNANT
Title:Rapidly progressive Plesiomonas Shigelloides bacteremia and septic shock in a post-splenectomy	HYPERFUNCTIONING ("HOT―) THYROID NODULE
patient with hemochromatosis: A Case report.	
partent with neuroeth offatosis. A case report: Introduction: Plesiomonas shigelloides infection in immunocompromised individuals is associated with high mortality rates, especially in aspleinc patients. Sepsis secondary to this organism has also been reported in patients with hemochromatosis. We report a fatal case of Plesiomanas septicemia despite early aggressive antimicrobial therapy. Presentation: A 43 year-old Caucasian male patient was brought to the hospital with a three hour history of fever, chills, and confusion. The patient had no history of recent travel or sick contact. He had a new puppy at home that bit and scratched him occasionally. The patient had eaten clams which were prepared at home one week prior. In addition, patient swam numerous times in Lake Erie over the past several weeks. The beach he swam from was closed several times by the local health department during the preceding weeks due to high coliform counts. On exam, the patient was hypotensive, tachycardic, tachypneic and confused. Laboratory evaluation revealed leukocytosis with bandemia, macrocytic anemia, renal and liver failure and lactic acidosis. A diagnosis of septic shock was made. Empiric coverage with ceftriaxone and intravenous vancomycin was initiated along with aggressive volume resuscitation. He subsequently developed respiratory failure and later underwent hemodialysis due to worsening renal failure. On day two, gram negative rods were reported from blood culture: diettrifaction was made as Plesiomonas shigelloides . Despite aggressive resuscitation measures the patientâ€ <sup>TM</sup> s condition worsened and he expired. Conclusion: Plesiomonas shigelloides normally resides in fresh water environments; including the Great Lakes. Plesiomonas species rarely cause significant disease in people with normal immune systems. However, a rapidly progressive septic picture can evolve in asplenic patients with Plesiomonas infections. Early diagnosis of septic shock with appropriate antimicrobials and vol	Background: Most thyroid nodules are benign, and only 10 to 15% are malignant. When confronted with a patient having a thyroid nodule, it is incumbent on the physician to the likelihood of malignancy.If the patient is hyperthyroid, a thyroid scan is done to confirm that the nodule is hyperfunctioning (a â¢chot†• nodule). Since thyroid cancer in a â¢chot†• nodule is rare, biopsy of such a nodule generally is not indicated. Case: A 68-year-old woman presented in early October 2006 after discovering a mass in the left side of her neck, and later that month she started having hoarseness. CT scan showed a 4.6 x 4.0-cm soft-tissue mass inseparable from the left thyroid lobe, and multiple hypodense nodules in both thyroid lobes. TFTs showed mild hyperthyroidism, and thyroid scan confirmed a hot nodule in the left thyroid lobe. She was treated with 1311 and subsequently reported some shrinkage of the mass, but hoarseness did not improve. She then consulted a different doctor, who performed laryngoscopy, laryngeal biopsy, and thyroid fine-needle aspiration (FNA) biopsy. Both the laryngeal and the thyroid biopsies showed papillary thyroid carcinoma. Total thyroidectomy was performed, but invasion of the larynx, cricoid cartilage, and sternocleidomastoid muscle precluded complete resection of the cancer. Post- surgical1311Whole-body scan showed two foci of uptake in the neck, probably lymph nodes, and she was treated with 220 mCi of 1311. Pathology revealed invasive papillary carcinoma with focal oncocytic/Hürthle cells, follicular, and papillary patterns involving the entire gland. Due to the aggressive nature of her disease, she also received external beam radiation from November 2007 to February 2008, but serum thyroglobulin never declined to zero. Because of a relentlessly increasing thyroglobulin, she was treated twice more with 1311: 318 mCi in 2010, and 268 mCi in 2012. In 2010, 1311 scan using 5 mCi of 1311 failed to show any uptake, but whole body scan after the 318-mCI treatment dose showed diffuse upt

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Title:Antibiotic – associated diarrhea – Is this	
Clostridium difficile colitis?	Institution: Maimonides Medical Center
Introduction: Patients with Inflammatory Bowel Diseases	Title:BOWEL LOOPS IN PERICARDIUM: AN
(IBD) may be at increased risk for colitis secondary to	UNUSUAL COMPLICATION OF CONVERGENT
Staphylococcus aureus, especially in the setting of a history of	ABLATION OF ATRIAL FIBRILLATION
antibiotic therapy.	ADLATION OF ATRIAL FIDRILLATION
Case Presentation: This is an 81 year-old female with a history	Introduction
of Ulcerative Colitis (on Mesalamine), Coronary Artery	Introduction Convergent ablation has high success rate for treating persistent and
Disease, Hypertension, and Hypothyroidism who presents with	permanent atrial fibrillation. It combines epicardial and endocardial
voluminous, bloody diarrhea, nausea, vomiting, and inability	ablation of left atrium. It is minimally invasive, and has limited
to tolerate oral intake. She was hospitalized for generalized	reported complications: pericardial effusion, new third degree AV
weakness a week prior to admission and was found to have a	block, and esophageal fistula.[1,2] We present a previously unreported
Urinary Tract Infection and colitis at that time. She was sent	case of pericardial hernia presenting eight months after the ablation.
home on Levaquin and Flagyl. On physical examination, the	Case Description:
abdomen was soft, non-tender, non-distended, and bowel	A 60 year old apparently healthy lady was being treated for recurrent paroxysmal atrial fibrillation (AF) with beta blockers and anti-
sounds were present in all four quadrants. CT scan of the	arrhythmic medications without satisfactory control of her symptoms.
abdomen with contrast performed on admission showed	She underwent ablation of her AF using endocardial approach, yet
descending and sigmoid colitis. Stool studies, including	continued to have AF and atrial flutter post ablation. She therefore
culture, ova and parasites, and Clostridium difficile toxin were	underwent convergent ablation. The cardiothoracic surgeon, through a
sent. Stool culture was found to be positive for Staphylococcus	trans-diaphragmatic pericardial access, created linear epicardial lesions
aureus and the remaining studies were negative. Initially,	along the posterior region of the left atrium. Subsequently, the electro-
patient was continued on Flagyl but when stool culture results	physiologist, through endocardial approach, created endocardial lesions to complete the ablation.
were noted, she was started on oral Vancomycin 125 mg every	The procedure went well without any complications and she was
6 hours. Patient had significant symptomatic improvement	discharged with rivaroxaban and amiodarone, which were discontinued
with the initiation of oral Vancomycin. She was discharged	after three months. She did not have any more symptoms of AF.
home on a 2-week regimen of Vancomycin.	However, eight months after the procedure, on a regular follow up, she
Discussion: Staphylococcal enterocolitis is usually associated	complained of constant bloating. It was not severe enough for her to
with prior use of antimicrobials, recent abdominal surgery,	seek medical attention but had been present for a few months.
prior proton pump inhibitor therapy, and immune-	On examination, chest was normal with regular heart sounds and adequate air entry over all the lung fields. Abdomen was soft and non
compromising conditions. In this context, IBD patients on	tender. Routine labs were within normal limits, as were her ECG and
immunosuppressive therapy and recent antimicrobial use may	Chest X-ray. However, her echocardiography showed an echogenic
have an increased risk in developing Staphylococcal colitis.	mass anterior to her heart and computerized tomography of her chest
This patient population has been described in various case	showed diaphragmatic hernia with portions of greater omentum and
reports without sufficient large trial studies to provide concrete	transverse colon extending into the pericardium. Laparoscopic
recommendations for treatment. In a comparative analysis,	diaphragmatic hernia repair was performed and the pericardial opening
Asha and colleagues found C. difficile toxin to be sixty times	was closed with figure of 8 sutures. She was discharged a day later without any complications. She has been doing fine without any
more common than S. aureus on stool examination. In 1960s	symptoms four months after the surgery.
and 1970s, the use of Lincomycin and Clindamycin, which	symptoms four monute and an outgory.
effectively inhibits S. aureus but has limited activity against C.	Figure 1. CT chest showing pericardial hernia in transverse view
difficile, led to the dominance of C. difficile associated	Discussion:
diarrhea. The recent increase in the use of Metronidazole	Herniation of the bowel into the pericardial space is a rare
which has activity against C. difficile but has poor activity	complication of convergent ablation procedure. Factors which may
against S. aureus, may be a contributory factor to the	have contributed to this complication include the size and location of the pericardial access as well as the position and size of the liver. A
reemergence of staphylococcal enterocolitis. Physicians should	more posterior pericardial access may reduce the incidence of this
consider S. aureus associated colitis as an alternative diagnosis	complication. Some operators also choose to close the pericardial
to C. difficile colitis in patients with prior antibiotic use and	window at the end of the procedure.
IBD, and they should be aware that treating a patient with	References:
Metronidazole for C. difficile colitis might predispose the	1.Gersak B, Zembala M, Muller D, Folliguet T, Jan M, Kowalski O, et
patient to S. aureus colitis.	al. European experience of the convergent atrial fibrillation procedure:
	<ul> <li>a. European experience of the convergent atrial normation process</li> <li>Multicenter outcomes in consecutive patients. J Thorac Cardiovasc</li> <li>Surg 2014;147:1411-6.</li> <li>2.Zembala MO, Suwalski P. Minimally invasive surgery for atrial</li> <li>fibrillation. J Thorac Dis 2013;5(S6):S704-S712.</li> </ul>

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### Title:POST-HEMORRHAGIC ANEMIA IN AN OLDER ADULT WITH ABDOMINAL AORTIC ANEURYSM, ANOREXIA AND FATIGUE: ADDRESSING TRIVIAL CLUES HELP DIAGNOSIS AND OUTCOMES!

#### Introduction:

Lethargy and anorexia are common non-specific complaints; however, they could make a difference when addressed in an older adult with Abdominal Aortic Aneurysm (AAA) Case:

An 89 year Spanish speaking functionally independent community female with hypertension and AAA for 7 years presented with anorexia, fatigue, melena and weight loss of 25 pounds over two weeks. Labs: Hb/Hct-7.4/23.0, a drop from 9.5/29.7 one month ago. BUN 47 mg%, creatinine 2.9 mg%. The patient demonstrated orthostatic hypotension (BP lying, standing). Physical exam confirmed a pulsatile abdominal mass.No blood pressure difference between both arms was appreciated. Stool was positive for occult blood. Chest X ray was normal. Based on these, the likelihood of a dissecting aneurysm was low. While in hospital, she complained briefly of new onset chest pain. EKG: ST segment depression in infero-lateral leads; troponins trended up. Echocardiogram: large apical infarction, ejection fraction 34%. CT abdomen and pelvis: AAA 6.4 cm X 6.2 cm with possible intramural hematoma. She received transfusions; anticoagulation for the NSTEMI was held in view of the hematoma. Endoscopic intervention was deferred in view of no active bleed. The hemoglobin remained stable. The patient and family decided against surgery for the AAA and opted to go home with possible Hospice care.

Discussion:

This elderly patient presented with extreme fatigue of recent onset due to a cause, in this case, likely anemia. The cause of anemia was likely to be a bleed from an enlarging AAA, previously known to be stable for 7 years. The patient and her familyâ $\in$ TMs attitude was a lack of concern for the AAA as a possible source of the problem given its known stability in the past and being painless at present. The patient also dismissed her complaint of chest pain as insignificant compared to the fatigue she was experiencing. Addressing all patient comorbidities, however insignificant, resulted in the early recognition of a new coronary event and also addressing the matter of the AAA, although the patient only had little by way of complaints other than fatigue. Lessons learnt

-Manage patients in the context of entire comorbidity, even if some disorders appear chronic or stable.

-Although AAAs are typically longstanding or stable, rupture is unpredictable and can occur, resulting in catastrophe. -The AAA here was large, warranting consideration for correction. Reference:

Dharmarajan TS et al. Does Anemia matter? Anemia, morbidity and mortality in older adults. Geriatrics. 2005;60(12):22-29.

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### Title:A RARE CAUSE OF MYOCARDIAL INFARCTION IN THE YOUNG: POST-PARTUM SPONTANEOUS CORONARY ARTERY DISSECTION

#### Introduction

Acute myocardial infarction (MI) is uncommon under age 40, especially in women. Spontaneous coronary artery dissection (SCAD) is a rare cause of acute coronary syndrome (ACS) in the peri-partum period, as demonstrated in this case, where emergent coronary artery bypass grafting (CABG) was required. Case

34 years old female presented to ER with severe sub-sternal chest pain that began 2 days back as intermittent, pressure like, exertional and worsened overnight to 10/10 intensity, associated with dyspnea. She was 3 weeks post-partum after an uncomplicated pregnancy and delivery. Patient denied smoking, alcohol intake and family history of cardiac disease. Physical exam was unremarkable. Labs: Hemoglobin 11.5 g/dl, Troponin-T 0.38 ng/ml (normal range: 0.00- 0.10 ng/ml), CPK 743 U/L. EKG: T wave inversion in antero-lateral leads and QTc 515 ms. Unfractionated heparin drip was started. Left heart catheterization revealed left main stem (LM) dissection with occlusion of true lumen by false lumen resulting in 60% LM stenosis with intramural hematoma, extending into left anterior descending (LAD) resulting in mid-LAD 95% stenosis. Ventriculography showed ejection fraction (LVEF) 40% with anterior and inferoapical wall severe hypokinesia. She underwent 3-vessel CABG with good results and uneventful post-op recovery. Echocardiogram after one month showed normal LVEF without wall motion abnormalities. She was asymptomatic on follow up. Discussion

Prior to advent of cardiac catheterization, SCAD was often missed, barring autopsy diagnosis. Hormonal, hemodynamic and morphological changes in vasculature during pregnancy may be pathogenetic. Most cases occur in late third trimester to early postpartum period and involve LM and LAD. Classic CAD risk factors are not the predispositions, as the coronaries are usually normal. The presentation is that of ACS or sudden death. Management relates to coronary angiography findings: conservative treatment with medications, percutaneous coronary intervention (PCI) and CABG. Thrombolysis is relatively contraindicated (risk of propagation of dissection). PCI is the choice in SCAD with involvement of a single vessel with ongoing ischemia whereas CABG is indicated in patients with LM dissection (as in our case), multi-vessel dissection or in patients with failed PCI. Short-term mortality in SCAD approaches 50%, but early survival equates good long-term outcome. Learning Points:

- A high index of suspicion of SCAD is warranted in peri-partum females presenting with chest pain, in the context of absent cardiac risk factors.

- Urgent coronary angiography and appropriate management are the key to favorable outcome. Reference Azeem S et al. Pregnancy-related spontaneous coronary artery dissection. J Heart Views.2012;13:53-65.

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Namaka, Varalazini. Ni.D., DVOVSKY, Diniti y. Ni.D.	Institution: New York Presbyterian Hospital - Weill
Institution:Bronx Lebanon Hospital	Cornell
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Title:A RARE CASE OF ACUTE MYOCARDIAL	Title:Local Action of Nebulized Ipratropium
INFARCTION DUE TO CORONARY	Bromide Causing a Unilateral Fixed Dilated Pupil
VASOSPASM IN A 27 YEAR OLD PREGNANT	bronnue Causing a Chinateral Fixed Dilateu Fupi
WOMAN WITH GESTATIONAL TRANSIENT	We report a case of unilateral mydriasis as a result of
THYROTOXICOSIS	ocular exposure related to mask nebulization of
	Ipratropium Bromide. In this case, the patient had no
Introduction	
Acute myocardial infarction (AMI) in pregnancy is rare. It is	cognitive impairment and was unaware of the unilateral
exceedingly uncommon to be caused by a coronary vasospasm, a case	mydriasis as she had chronic blurred vision related to
which we describe below.	distant chorioretinitis. A CT of the head was performed
Case Report	emergently and was unremarkable. Further
A 27 year old nine weeks pregnant woman presented to our hospital complaining of fatigue for three week duration and nausea with	ophthalmologic exam demonstrated a chorioretinitis scar
vomiting and atypical chest pain for two weeks.	on the right eye without evidence of vascular
She was hemodynamically stable with unremarkable physical	abnormalities or findings indicative of a vasculitic or
examination. Her initial EKG showed normal sinus rhythm with	infectious process. Pilocarpine test was negative.
ventricular rate of 72. Her labs were remarkable for hypokalemia (2.4mEq/L), metabolic alkalosis (Bicarbonate: 30mEq/L, pH: 7.59)	Nebulizer treatment was subsequently discontinued with
and elevated transaminases (ALT: 549 unit/L, AST: 285unit/L). Urine	resolution of mydriasis within 24 hours. This case-
toxicology was positive for cannabinoids. Patient was admitted to the	report illustrates unilateral ocular mydriasis as a direct
intensive care unit with a working diagnosis of Hyperemesis	consequence of local action of Ipratropium Bromide on
Gravidarum. Twelve hours later after admission to ICU, patient complained of worsening of chest discomfort. Repeat EKG showed	cholinergic receptors of the eye. It also sheds light on
3mm ST segment elevations in leads II, III and AVF. Intravenous	less common pharmacologic causes of mydriasis, which
heparin, beta-blocker, aspirin, clopidogrel and statin were started.	should be investigated in patients with normal mental
Echocardiogram showed left ventricular ejection fraction (LVEF) of	status and a new finding of unilateral fixed mydriasis
48% with inferior and inferoseptal akinesis. Chest computed	prior to embarking on more invasive and/or costly
tomography with contrast did not reveal pulmonary embolism or aortic/ coronary dissection. Additional labs revealed troponin T	interventions.
1.410(ng/ml) peaking at 3.600(ng/ml) after 12 hours, TSH of	
<0.07mIU/L; T4 24.8µg/dl; and T3 377µg/dl. Workup for	
Grave's disease was negative. She was diagnosed with gestational	
hyperthyroidism and received dexamethasone prior to cardiac catheterization which revealed right coronary artery vasospasm. The	
initial finding of long segment narrowing of the right coronary artery	
reverted back to normal lumen size after intracoronary nitroglycerine	
injection, confirming diagnosis of Prinzmetal angina. She underwent	
elective termination of pregnancy. Two days after coronary angiogram, patient developed ventricular fibrillation with cardiac arrest, which	
responded to cardioversion. LVEF decreased to 37% on repeat ECHO.	
The patient was transferred to another institution for cardiac MRI and	
ICD placement.	
Discussion AMI in pregnancy is rare and occurrence of Prinzmetal's angina is	
less known. It accounts for 2% of all cases of angina. The etiology of	
the vasospasm is unknown; however, it has been associated with	
hyperthyroidism in some cases. Gestational hyperthyroidism occurs	
approximately 1-2 cases/1000 pregnancies and usually is mild not	
requiring treatment. Studies suggest treatment with vasodilators and achievement of euthyroid state has been associated with resolution of	
vasospasm; however this was not curative in our patient.	
Conclusion	
This is a rare case of prolonged coronary vasospasm leading to AMI	
and cardiac arrest despite optimal medical therapy in a patient with	
gestational transient hyperthyroidism. This case highlights the importance of considering gestational transient hyperthyroidism in the	
differential diagnosis of coronary artery spasm.	

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	Title: TWO CASES OF LIFE THREATENING
Institution:Bronx Lebanon Hospital Center	INVASIVE THORACIC CAVITY INFECTIONS
-	SECONDARY TO STREPTOCOCCAL
Title:ETANERCEPT-INDUCED MYOSITIS: DO	ANGINOSUS
WE HAVE TO STOP IT? A SURPRISING	
OUTCOME.	Streptococcal anginosus, a sub group of streptococcal viridans,
	consists of three distinct streptococcal species: Strep. anginosus,
BACKGROUND	Strep. intermedius and Strep. constellatus. These organisms are
Anti–tumor necrosis factor alpha (anti-TNF) agents are widely	normal commensals of the human oral cavity but they also possess
used to treat a variety of rheumatic and autoimmune diseases	the ability to cause unusual life-threatening invasive pyogenic
including psoriasis. In rare cases, these agents can induce	infections which are often difficult to treat and may require interventional procedures.
inflammatory myositis which is usually managed by cessation of	Case 1: A 59 year old male with medical history of HTN, DM,
the anti-TNF agents and may require additional therapy with corticosteroids and immunosuppressive medications to manage the	A-fib, COPD, chronic back pain and Peripheral vascular disease
underlying disease.	was sent from NH due to two weeks history of palpitations and
CASE	cough. Physical examination was remarkeable for edentulous
Our patient presented here is a 47 year old man diagnosed with	patient with Oxygen saturation of 85%, temp of 102F. Labs
severe psoriasis and psoriatic arthritis at age 40 who was refractory	showed WBC- 13,000 /cubic metre with 80.5% neutrophils. Echo revealed pericardial tamponade with no evidence of endocarditis.
to methotrexate, leflunomide and systemic steroids. He had	CT scan of chest and abdomen was unremarkeable for deep seated
recurrent skin and arthritic flares requiring frequent	abscesses. Emergency pericardial window was performed.
hospitalizations and intravenous steroid therapy. Etanercept 50mg subcutaneously once weekly was started, resulting in nearly	Pericardial fluid analysis revealed wbc of 5550, neutrophil of 94%
complete resolution of psoriatic plaques and marked improvement	and pleural fluid culture grew Strept anginosus which was
of arthritis during a short period of time. Six months after initiation	sensitive to Ceftriaxone. Patient was later discharged after
of anti-TNF therapy, patient presented complaining of generalized	significant improvement and antibiotic therapy.
myalgia, progressive weakness in upper and lower extremities and	Case 2: A 64 yr old woman with medical history of HTN, DM, Hypothyroidism, coronary artery disease, schizophrenia and
unstable gait of 2 weeks duration. On examination, vitals were	dementia was admitted from nursing home due to fever, lethargy
normal, musculoskeletal exam revealed synovitis of left wrist and bogginess of right hand proximal interphalangeal joints. Upper	and AMS. Vitals were temp of 97F, HR: 101BPM, BP: 149/77,
and lower proximal muscle strength was decreased to 3/5 and	RR: 18CPM and oxygen saturation of 98%. Physical examination
patient had an unstable gait. Deep tendon reflexes were normal.	was remarkable for poor dentition and markedly reduced breath
Laboratory tests showed elevated transaminases with aspartate	sounds on the left lung field. Labs in the ER revealed WBC of
transaminase of 173 U/L, alanine transaminase 497 U/L. The	14,300 / cubic meter with neutrophil count of 87.5%. Blood culture grew streptococcus epidermis. Chest X-ray showed
serum creatine kinase was found to be 5666 U/L, lactate	opacification of the left hemi-thorax and CT chest revealed large
dehydrogenase 1265 U/L, C-reactive protein 51.69 mg/dL, ESR 112 mm/hr, and antibody to JO-1 was negative. A muscle biopsy	left pleural effusion with ipsilateral compressive atelectasis.
was performed and showed perifascicular muscle fiber atrophy	Abdomino-pelvic and neck CT was negative for abscess.
with perimysial inflammatory activity. This presentation was	Echocardiography showed no evidence of endocarditis.
suggestive of Etanercept-induced myositis. The patient was	Percutaneous left sided chest tube was placed draining 1200cc of
advised to stop Etanercept and was started on prednisone 60 mg	brownish purulent fluid. Pleural fluid analysis revealed WBC of 361,111 with 87% neutrophils, total protein of 3.0, albumin: 0.9,
once a day. His muscle strength fully recovered, gait improved	LDH: 181, Glucose: 66. Pleural fluid culture grew streptococcus
with no imbalance and serum creatine kinase normalized within	anginosus.
three months. Despite our recommendation to stop Etanercept, patient continued using it due to his concern of experiencing a	She was treated for pneumonia with Moxifloxacin and
possible flare of psoriasis. Oral steroids were subsequently	Vancomycin. After one week of antibiotics and chest tube
tapered off in the next couple of months and patient has remained	drainage, repeat CT scan revealed persistent pleural effusion
stable on Etanercept.	which prompted thoracotomy and decortications. She felt better
DISCUSSION	and was later discharged. DISCUSSION:The unique characteristic of the Strep. anginosus
Etanercept is used in the treatment of moderate to severe psoriasis	group that sets them apart from other pathogenic streptococci, such
and psoriatic arthritis. There has been rare cases of anti-	as S. pyogenes is their ability to cause deep seated abscesses .To
TNF–induced inflammatory myositis. Cases described in the literature usually have a good outcome after discontinuation of	the best of our knowledge, only few cases of life-threathening
anti-TNF, however a challenge remains to treat the underlying	invasive intrathoracic infections involving the pericardium and
auto-immune disorder, psoriasis or psoriatic arthritis. This is the	pleural space necessitating urgent medical and open surgical
first description to our knowledge of an anti-TNF-induced	interventions have been described. Therefore Strep, anginosus
myositis responding favorably to a short course of steroids despite	group should be considered true pathogens in a symptomatic individual if isolated.
continuation of anti-TNF.	muividuai II Isolated.

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	Title:PNEUMOCYSTIS PNEUMONIA IN A
Institution:Elmhurst Hospital Center	PATIENT TREATED WITH TEMOZOLOMIDE
	FOR MALIGNANT OLIGODENDROGLIOMA
Title:Pegaspargase induced severe pancreatitis.	
Friend or foe?	A 45 year old Asian female with hypertension presented to our
	ER with fever for 3 day along with cough and lightheadedness. She was diagnosed with Grade III anaplastic
Introduction: Pegaspargase (Oncaspar) is a modified version of L-	oligodendroglioma 6 months ago and had received her fourth
asparaginase conjugated with polyethylene glycol. In leukemic cells, asparaginase hydrolyzes L-asparagine to ammonia and L-	cycle of Temozolomide about 10 days prior to presentation.
aspartic acid leading to depletion of asparagine. Leukemia cells	Upon presentation, she was febrile with a temperature of
need exogenous asparagine, thus asparagine depletion in leukemic	101.9° F, tachycardic and tachypnic. Her Oxygen
cells leads to inhibition of protein synthesis and apoptosis. Despite	saturations were 80 % on room air and 90 % on 4L nasal
its potential benefits there are a wide range of side effects. One rare but potentially deadly complication is pancreatitis.	canula. She was in obvious respiratory distress, had tubular
Case: 24 year old Mexican male with a history of acute T-cell	breath sounds in right upper lobe and scattered fine crackles in all lung fields. She had 4200 K/UL WBC with 78 %
lymphoblastic leukemia (ALL) on recent chemotherapy including	neutrophils, hemoglobin of 11.4 gm/dl and platelets of 154
pegaspargase, admitted for abdominal pain, found to have acute	K/UL. Her serum chemistries showed calcium of 8.2 mg/dl.
pancreatitis secondary to hypertriglyceridemia. On examination, tachycardia of 127, decreased air entry in right lung bases, and a	Her blood gas analysis revealed hypoxemia with an A-a
severely tender abdomen. Laboratory tests were remarkable for	gradient of 45 mmHg. Serum LDH was elevated at 550 IU/L.
elevated liver enzymes ALP 360 U/L, AST 310 U/L, GGT 216	Serum 1, 3 beta-D-glucan was elevated at >500 pg/ml. Chest
U/L, ALT 44 U/L, LDH 829 U/L, elevated lipase 228 U/L, and	x-ray suggested CHF. CT chest showed interstitial edema, bilateral air space disease and nonspecific ground glass
hypertriglyceridemia >3,000 mg/dl. Abdominal CT showed pancreatitis with necrosis; peripancreatic, intraperitoneal and	opacification.
retroperitoneal fluid. Subsequently his severe pancreatitis was	The patient was admitted for sepsis presumed due to health
associated with acute kidney injury and respiratory failure which is	care associated pneumonia complicated by acute hypoxemic
illustrated by his BUN 22 mg/dl, creatinine 2.16 mg/dl, and	respiratory failure. She was started on broad spectrum
persistent hypoxia. According to the Atlanta classification, patient	antibiotics and intravenous Sulfamethoxazole-Trimethoprim
is classified under severe acute pancreatitis. In addition, patient's BISAP score was 3, which establishes the high	for Pneumocystis pneumonia along with steroids. During her hospital stay, she refused any mechanical ventilation and was
mortality risk. Despite appropriate treatment for pancreatitis	maintained on nasal canula and face mask. Upon symptomatic
according to current recommendations, he expired.	improvement, she was discharged with oral antibiotics and a
Discussion: Pegaspargase is used for treatment of ALL and is	tapering dose of oral prednisone.
gaining in popularity over asparaginase therapy due to it having fewer incidences of hypersensitivity reactions and because of its	Oligodendroglioma is a type of glial tumors. Temozolomide is
long half life (367 hours) allowing dosing every 14 days as	an antineoplastic agent approved by FDA for treating newly
opposed to asparaginase which is dosed daily(1). Pegaspargase	diagnosed glioblastoma multiforme (GBM). It is recommended that prophylaxis against Pneumocystis pneumonia is required
definitely has its benefits but we canâ€ <sup>™</sup> t lose sight of one of its	for all patients receiving concomitant Temozolomide and
rare, but potentially deadly complications, pancreatitis. In one study nine of the 50 patients (18%) with ALL treated with	radiotherapy for the 42-day regimen. It is postulated that
pegaspargase were diagnosed to have pancreatitis. In contrast, only	Temozolomide causes lymphopenia, specifically CD4 helper
one out of 52 (1.9%) ALL patients who received native E. coli L-	cells. Our patient had hypoxemic respiratory failure with
asparaginase during the same time period developed pancreatitis	elevated A-a gradient, elevated LDH and 1, 3 beta-D-glucan
(1). One proposed mechanism of this drug-induced pancreatitis is hypertriglyceridemia, which is seen in our case. It is suggested that	and a CT scan showing ground glass opacities. Blood tests did not reveal any evidence of any invasive fungal infections,
apolipoprotein E polymorphism may influence the development of	which could falsely elevate 1, 3 beta-D-glucan. To our
hyperlipidemia in patients receiving pegaspargase(2).	knowledge, this is the first case of Pneumocystis pneumonia in
We report a case to increase the awareness of higher incidence of	a patient treated with Temozolomide in the continental North
pegaspargase-induced pancreatitis, which is a rare but potentially deadly complication. Clinicians should monitor triglycerides while	America. Our patient survived this episode without any need
on treatment and suspect pancreatitis if patient develops abdominal	for ventilatory support and resumed her treatment course. This highlights the importance of maintaining high clinical
pain. If pancreatitis occurs, therapy should be stopped and not	suspicion in patients receiving Temozolomide, giving
reinstituted. For patients with hypertriglyceridemia without	prophylaxis while on therapy and prompt referral of the patient
pancreatitis, discontinuation of therapy should be considered.	to a hospital with ICU facilities.



## New York Chapter ACP

**Annual Scientific Meeting** 

**Resident / Fellow** 

Quality, Patient Safety and Outcomes Measurement

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Institution: Lenox Hill Hospital	Institution: Maimonides Medical Center
Title: Guidelines? Depends on who's asking: C.	Title: Barriers to care in Chinese patients with
difficile testing	Heart Disease
Purpose: Purpose: Clostridium difficile infection (CDI) in hospitalized patients has become a large burden on the healthcare system. Despite wide distribution and promotion of clinical practice guidelines, adherence is sub-optimal. To improve adherence to guidelines, an analysis of barriers to implementation is advocated. Our objective was to identify the rate of adherence and compliance to our institution's recommendations compared to a national guideline. Methods: A retrospective observational pilot study of all in-patients from 12/5/13 through 1/5/14. Patients were identified by either C. difficile antigen or PCR orders. Results for each patient were noted. The institution and the American College of Gastoenterology (ACG) guidelines were applied to each patient and percentage compliance was calculated. Lenox Hill Department of Epidemiology guidelines (adapted from several sources): 1) only diarrheal specimens 2) clinical suspicion should drive lab testing 3) single antigen stool test and wait for result, PCR for negative antigen only; treat only with positive result; antigen testing not exceeding three samples in three days 4) testing for cure should not be performed	Purpose: Chinese Americans are one of the largest and fastest growing cultural groups in the United States. It is documented that people with limited English proficiency are less likely to make use of health services when in need. This study identified the barriers preventing the Chinese population from obtaining prompt medical care when they experienced cardiovascular complaints. Our hypothesis was that the barriers are more than just language alone. We believe that cultural practices, beliefs, together with the types of cardiovascular diseases also play a role. Method: The data were collected from 100 Chinese patients with symptoms of cardiovascular disease presenting to the Maimonides Medical Center, a community hospital located in the borough of Brooklyn, New York between October 2013 and June 2014. A cross-sectional interview identified eligible patients who were approached for participation during their hospital stay. Data was collected through in person interviews by a bilingual physician administering a structured questionnaire. Twelve questions were included to evaluate gender, age, country of origin, time living in the United States, religious background, spoken English fluency, preference in
5) all subsequent specimens after the first requires a	seeking care verses self-treatment, and length of time waited at home before arriving to the emergency room.
written order by an LIP ACG guidelines:	Results: Pearson correlation and regression analysis were
<ol> <li>only diarrheal specimens</li> <li>PCR is superior to EIA antigen testing</li> <li>Antigen testing can be used in a 2 or 3 step screening algorithm: antigen being the initial test followed by antigen- negative specimens get no further testing, antigen positive testing undergo additional testing either by PCR or EIA or by EIA followed by PCR if EIA results are discordant</li> </ol>	utilized. Cultural Barriers were encountered with (86 %) reporting at least one cultural barrier, followed by administrative barriers (77 %), personal barriers (64 %), and circumstantial barriers (50%). Having language difficulties was the most common barrier reported (82 %). Negative correlations were found between total barriers and wait time for patients with syncope ( $r = -0.47$ ), indicating that the more
4) repeat testing is discouraged	barriers these patients encountered, the sooner they came to the
<ul> <li>5) test for cure should not be done</li> <li>Results:</li> <li>Thirty patients were included in the study. Of the 30 patients observed, 7% (2/30) adhered to the institution guidelines. 30% (10/30) adhered to the ACG guidelines. The most common barrier</li> </ul>	hospital. In contrast, patients with congestive heart failure showed a significant positive correlation between total barriers encountered and wait time ( $r = 0.62$ , $p = 0.01$ ). This indicated that the more barriers they had experienced, the longer they waited.
in testing was made in repeat testing, which amounted to 60%. Of note, 1 patient who had repeat testing was positive for CDI. The second most common error was ordering PCR and antigen testing simultaneously.	Conclusion: Cultural incompatibility contributed a significant obstacle when presenting to the hospital. Patients who presented with more barriers may have acute fear and viewed
Conclusions:	syncope or having a transient loss of consciousness as a more
As the barriers largely differ within guidelines, tailored and barrier-driven implementation strategies focusing on repeat testing recommendations are needed to improve adherence in practice. The lack of unified and clear guidelines make it difficult to assess	detrimental health concern compared to shortness of breath. In contrast, the opposite was true for patients with congestive heart failure or shortness of breath. This may have been due to having more barriers, these patients may be less educated
the "appropriate use― of the tests. We believe that this study should trigger changes in the institution guidelines including clarifying the recommendations, as well as instituting an IT hard	about their illness, and therefore, they may have preferred to try herbal medications before seeking medical help. By exploring the factors associated with the delayed decision to
stop with repeat testing from the laboratory, with the hopes of	visit the hospital we can develop strategies to overcome these
decreasing morbidity, mortality, length of stay and ultimately cost.	barriers and can deliver better medicine for the Chinese population living in Brooklyn.

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Additional Authors: Ritu Saha, MD; Karl Ziermann, DO; Jennifer Slane, DO; Rose Calixte, PhD; Peter F. Malet, MD Institution: Winthrop University Hospital <b>Title: Birth Cohort Screening Rates for</b>	Additional Authors: Saqif Hasan, MD (Associate Member); Marufa Khatun, MD (Associate Member); Rajat Mukherji, MD (Fellow Member); Roya Mukhterzad, DO ; Lim Josephine, MD
Hepatitis C in an Internal Medicine Clinic: Before and After an Educational Intervention	Institution: KINGSBROOK JEWISH MEDICAL CENTER
<ul> <li>Background:</li> <li>Hepatitis C Virus (HCV) affects an estimated 3.4-4.9 million people in the United States. Persons born during 1945à@*1965 account for 75% of chronic HCV infections in the United States. Approximately 50-75% of those with chronic HCV infection remain unaware of their condition. In August 2012, the Center for Disease Control (CDC) advised one-time testing for HCV in adults born from 1945-1965 without prior ascertainment of HCV risk.</li> <li><b>Aim Statement:</b></li> <li>This is a quality improvement project with the aim of raising awareness of birth cohort screening through education of resident and attending physicians. The objective was to increase the screening rate for HCV in an outpatient Internal Medicine practice.</li> <li><b>Methods:</b></li> <li>We first determined baseline birth cohort screening rates in a large Internal Medicine practice. This was accomplished by retrospectively measuring the number of HCV antibody assays ordered for screening purposes only during a 5 month period from January to May 2013. Eligible patients were those new to the practice and born between 1945 and 1965. Patients who had a prior diagnosis of HCV were excluded. We subsequently devoted one month in June, 2013 to educate the internal medicine bousestaff and attendings of the clinic on the updated CDC screening recommendations. This was done through a series of lectures and handouts. We then prospectively measured the number of HCV antibody assays ordered during a 5 month period from July to November 2013. The two periods were compared to determine if education had any effect on screening rate.</li> <li><b>Results</b></li> <li><b>Ne</b> for une excluded due to prior history of HCV. In the remaining 134 patients, 3 HCV antibody assays were ordered for a screening rate of 9.1% which was significantly increased compared to the pre-intervention screening rates for HCV after our educational intervention. However, further intervention may be necessary as the majority of eligible patients were still not screening rate o</li></ul>	Title: QUALITY IMPROVEMENT PROJECT TO REDUCE URINARY CATHETERIZATION Goal of Project: Urinary tract infection (UTI) is one of the leading causes of hospital acquired infection and leads to increased morbidity and health care costs. We postulate that, under many circumstances, catheterized in the Emergency Room (ER) sometimes remain catheterized and this leads to Healthcare associated UTI. Our goal was to reduce the number of unnecessary urinary catheterizations in the ER. Methods: We used Centers for Medicare & Medicaid Services (CMS) guidelines to define the criteria for urinary tract catheterization. Our approach from the start was a multipronged campaign, directed towards staff education. As a first step, we discussed the proper technique of catheterization with the ER staff. Next, we began an educational in-service program involving all ER nurses and Physicians. Posters regarding the proper indication for catheterization were placed in different areas of the ER. Secondly, the electronic audit system in the ER was updated with the help of the Information Technology (IT) department, to require every physician to provide the indication for catheter placement whenever the catheterization order was placed. Data were collected from all patients who visited Kingsbrook Jewish Medical Center ER and were given a urinary catheters. We tabulated our findings according to the number of urinary catheters inserted every month as well as the indications for catheterization. The tabulated results for each month were then compared to see if educating the ER staff including nurses and physicians had an impact on the number of urinary catheters inserted in March, 2014 wes 32 (1.57% of the ER visit) . After our intervention described above, the total number of catheters inserted in April, 2014 were 36 (1.1%) and with a further drop to 26 (0.7%) in May, 2014. The data indicate that a formal educational effort and adjustment of electronic ordering system can lower the catheterization rate in patients admitted to hospital. Conclu

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Institution: Maimonides Medical Center Hospital	Institution: New York Methodist Hospital
Title: CLINICAL SIGNIFICANCE OF A VALIDATED SCORING SYSTEM FOR PREDICTING 30-DAY READMISSIONS IN ELDERLY PATIENTS WITH DECOMPENSATED HEART FAILURE	<b>Title: BABY BOOMERS BEWARE:</b> <b>HEPATITIS C IN A BROOKLYN</b> <b>COMMUNITY HOSPITAL</b> Purpose: To increase the quality of patient care by providing appropriate Hepatitis C testing as described by the Centers for Disease Control, United States Preventive Services Task Force and New York State Law.
Purpose: Approximately one million patients are hospitalized each year for Heart Failure (HF) in the United States; almost 25% of them are readmitted within 30 days. The Centers for Medicare & Medicaid Services (CMS) have started to financially penalize hospitals with excessive risk-standardized 30-day all-cause readmission rates in patients with HF. Efforts are needed to reduce the number of readmissions in individuals with HF. The Yale Readmission Score (YRS) is a scoring system developed and validated using retrospective data from Medicare patients for predicting 30-day readmissions in patients with HF. We conducted a study to assess the usefulness of the YRS when calculated prospectively. Additionally, we sought to determine whether the difference between the score calculated at admission and discharge is predictive of readmission. Methods: During a nine-month period, patients 65 years or older admitted with a diagnosis of decompensated HF were prospectively enrolled in the study; informed consent was obtained from all patients. The YRS was calculated at admission and before discharge using an online calculator (http://www.readmissionscore.org/heart_failure.php). The difference between the two scores (Delta score) was computed. Patients were contacted 30 days after discharge to determine which patients might be at risk of readmission. Results: 201 patients were included in the final analysis. The mean age was 81.8 years (± 8 years SD); 56.6 percent of the patients were female and 82 percent were Caucasian. The mean length of stay was 7.9 days (± 5.9 days SD). The unadjusted readmission rate was 26 percent. The YRS calculated at admission and discharge (P= 0.01 and 0.001, respectively). The difference between the readmission score was more predictive of readmission and discharge (Delta score) was not predictive of readmission and discharge (Delta score) was not predictive of readmission score was more predictive (P= 0.01), low hemoglobin concentration and hematocrit at discharge (P= 0.03), low hemo	<ul> <li>and New York State Law.</li> <li>Methods: Approval of the Institutional Review Board was obtained to begin this study. In conjunction with the Information Technology Services Department, two separate workflows were designed: one for all patients admitted to any service in the hospital, and the other for patients visiting our primary care ambulatory clinics. If the patient is a åCcBaby Boomerå&amp; (born between 1945-1965), their Hepatitis C testing status is checked. After that, there are constant reminders to order the testing for qualified patients, or to never offer testing again if the patient refused or has been tested in the past. This was implemented on Tuesday, April 15, 2014.</li> <li>Results: A total of 9349 patients were included in the study in a seven-month period. In December 2013, one month prior to the enactment of the Hepatitis C testing law in NY State, 47.2% of our patients were tested. In the month after the law was implemented, we still had a 46.7% rate for patient testing. However, in the month after our testing protocol was implemented, that percentage went up to 56.1% of patients either being tested or being offered testing. In subsequent months, the percentages were 54.4%, 56.8%, 58.9%, and 55.3%. When comparing the December group with the January group, there was no statistically significant difference. When comparing the December group with the January and May groups, no statistically significant change was noted. However, when comparing the December group to the following: 1.6%, 1.7%, 2.8%, 3.9%, 3.7%, 3.5%, and 4.5%, respectively. When comparing the December group with the January and May groups, no statistically significant timerease noted in the incidence.</li> <li>Conclusion: Since the implementation of our protocol, we have seen a statistically significant increase in the number of patients being offered Hepatitis C testing, as well as the incidence of positive tests. The protocol has afteady undergone a number of Plan-Do-Study-Act (PDSA) cycles, and we anticipate more to c</li></ul>



## New York Chapter ACP

**Annual Scientific Meeting** 

## **Resident/Fellow Research**

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<ul> <li>Lee, BS; Ting Liu, MD; Godtfred Holmvang, MD; Brian Ghoshhajra, MD, MBA; Udo Hoffmann, MD, MPH; Suhny Abbara, MD and Umesh C Sharma, MD, PhD</li> <li>Institution: University at Buffalo</li> <li>Title: Utility of Cardiac Magnetic Resonance Imaging and Follow-Up of Defibrillator Events to Identify the Etiology and Natural History of Sudden Cardiac Arrest</li> <li>Background: In patients with sudden cardiac arrest (SCA) cardiac MRI (CMR) can be useful to evaluate ischemic, inflammatory, infiltrative and degenerative processes. Correlation of initial CMR findings with future events recorded by automatic implantable cardiac defibrillator (AICD) can characterize the natural history of these life-threatening cardiac conditions.</li> <li>Methods: We examined the CMR studies of 83 patients with SCA. In all patients, initial cardiac work-up was non-revealing for potential etiology, and CMR with late gadolinium enhancement (LGE) was performed.</li> <li>Following CMR, most of these patients underwent clinically indicated AICD placement. The interrogated AICD events were followed up for 1-4 years to monitor significant arrhythmias.</li> <li>Results: Of the 83 patients resuscitated from SCA of otherwise unknown etiology, CMR identified a possible</li> </ul>	ILPA DESHMUKH, MD
Institution: University at Buffalo Institution: University at Buffalo Title: Utility of Cardiac Magnetic Resonance Imaging and Follow-Up of Defibrillator Events to Identify the Etiology and Natural History of Sudden Cardiac Arrest Background: In patients with sudden cardiac arrest (SCA) cardiac MRI (CMR) can be useful to evaluate ischemic, inflammatory, infiltrative and degenerative processes. Correlation of initial CMR findings with future events recorded by automatic implantable cardiac defibrillator (AICD) can characterize the natural history of these life-threatening cardiac conditions. Methods: We examined the CMR studies of 83 patients with SCA. In all patients, initial cardiac work-up was non-revealing for potential etiology, and CMR with late gadolinium enhancement (LGE) was performed. Following CMR, most of these patients underwent clinically indicated AICD placement. The interrogated AICD events were followed up for 1-4 years to monitor significant arrhythmias. Results: Of the 83 patients resuscitated from SCA of otherwise unknown etiology, CMR identified a possible	uthors: Shilpa Deshmukh MD, Neville 'asneem Zahra MD
Title: Utility of Cardiac Magnetic Resonance Imaging and Follow-Up of Defibrillator Events to Identify the Etiology and Natural History of Sudden Cardiac Arrest Background: In patients with sudden cardiac arrest (SCA) cardiac MRI (CMR) can be useful to evaluate ischemic, inflammatory, infiltrative and degenerative processes. Correlation of initial CMR findings with future events recorded by automatic implantable cardiac defibrillator (AICD) can characterize the natural history of these life-threatening cardiac conditions. Methods: We examined the CMR studies of 83 patients with SCA. In all patients, initial cardiac work-up was non-revealing for potential etiology, and CMR with late gadolinium enhancement (LGE) was performed. Following CMR, most of these patients underwent clinically indicated AICD placement. The interrogated AICD events were followed up for 1-4 years to monitor significant arrhythmias. Results: Of the 83 patients resuscitated from SCA of otherwise unknown etiology, CMR identified a possible	Lincoln Medical and Mental Center
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in CMR in SCA patients had 67% sensitivity for significant AICD-events during the follow-up. Conclusions: Beyond standard diagnostic algorithm, CMR can identify potential cause of SCA in over 40% of the patients. Presence of LGE or other major diagnostic findings on CMR can uniquely identify patients with significant AICD events. were women. V values. 98,823 analyzed with S model was adju subarachnoid h hemorrhage (N chronic heart fa cocaine intoxic renal failure (C coagulation dis hypothyroidism cerebral aneury 1.859), NTEDI 1.689),hyperter nonruptured ce 2.076) were ino SIADH ( $P$ <0.0 chronic lung di were associated Conclusion: In Rheumatoid ar aneurysms to b SIADH in patie	IS, PNEUMONIA AND RED CEREBRAL ANEURYSM CIATED WITH SIADH IN WITH INTRACEREBRAL HAGE. FINDINGS FROM THE IDE INPATIENT SAMPLE (NIS)

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Institution: University at Buffalo , Catholic Health System	Institution: State University of New York at Buffalo
Title: Unexpected effects of amino acids and	
NMDA receptor in the treatment of Acute liver failure and acetaminophen hepatotoxicity.	Title: Impact of palliative care clinic referrals on pain control in genitourinary cancer patients:
ranure and acetaminophen nepatotoxicity.	Retrospective analysis at Roswell Park Cancer
ABSTRACT BODY: Background: TLR4 and NLRP3	Institute.
inflammasome activation are responsible for many	
inflammatory liver disease but little is known about their	Purpose:
regulation. The NMDA receptor is known to be present on macrophages and its role in immune regulation has not been investigated. We used the NMDA ligand aspartic acid (AA) to test the role of NMDA activation in liver inflammation.	Many cancer patients with genitourinary (GU) cancer suffer from uncontrolled pain, and may benefit from more focused palliative care. We assessed the frequency of specialist palliative care clinic (PCC) referrals in our GU Medical Oncology Clinic (GUMOC), and analyzed the impact of PCC referrals on their pain management.
Aims: To test if AA can modulate TLR4 and NLRP3	Methods:
inflammasome signaling and liver injury via its known	239 consecutive patients were collected from a retrospective review of GUMOC records from 12/1/2013 to 2/28/2014. This
NMDA receptor.	group of patients was used to assess the frequency of PCC
Methods: The NLRP3 inflammasome was activated by LPS and ATP in primary mouse macrophages, Kupffer	referrals. Patients were divided into two arms- Arm A: GUMOC
cells and human peripheral monocytes in the presence	patients referred to PCC; Arm B: GUMOC patients not referred to PCC. To be able to detect a 15% between the two arms at 95%
and absence of AA and production of pro-II1 beta and	significance, 37 additional patients (who were already being seen
IL-1 beta assayed. NMDA receptor and beta-arrestin 2	at GUMOC) were collected from retrospective review of PCC
dependence of AA effects was examined in the RAW	records over 9/1/2013 to 2/28/2014. Total 276 patients were divided into Arm A (n=49), Arm B (n=227 patients). Arm B
264.7 cells using siRNA knockdown. AA was	included 12 patients from GUMOC records and 37 patients from
supplemented in vivo in the presence or absence of beta- arrestin 2 knockdown in the LPS/d-Gal hepatitis and	PCC records. Data for baseline pain score and 4-week follow up
acetaminophen hepatotoxicity. Liver tissue was	pain scores were collected. A palliative care screening tool (retrieved from Center to Advance Palliative care [CAPC]
examined for injury and inflammation by histological	website) was used to assign a palliative care screening score
grading and serum transaminases.	(PCSS) to all study patients. Chi-square test and T-test were used
Results: AA suppresses in vitro TLR4 and NLRP3	respectively for categorical variables and numerical variables. Results:
inflammasome dependent inflammation in human	Among all types of cancer, prostate cancer was the most frequent
peripheral monocytes, mouse peritoneal macrophages and Kupffer cells as assessed by levels of pro-Il1	(53%), followed by renal cancer (25%), bladder cancer (14%), testicular cancer (7%), and penile cancer (1%). Out of the 239
beta and IL-1 beta. AA immunosuppressive effects	initially collected GUMOC patients, 5% were referred to PCC.
require NMDA and beta-arrestin 2. In vivo AA	10% (n=24) had PCSS score of = 4, and 33% patients with PCSS
supplementation decreases liver inflammation and injury	= 4 were referred to PCC. Baseline symptoms, ECOG status (2-3) and cancer stage (locally advanced or stage 4) were more
in the LPS/d-GalN hepatitis (hemorrhage 1.03 /- 0.3	advanced in the Arm A vs. Arm B ( $p=0.02$ , $p<0.01$ , $p<0.01$
versus 3.89 +/- 0.2, ALT 744 +/- 406 versus 12560 +/-	respectively). On comparing the symptom score change from
5295, $P < 0.05$ ), and acetaminophen hepatotoxicity	baseline to 4-week follow-up, significant improvement occurred in Arm A (vs. Arm B) in the pain score (Arm A vs. Arm B -2.74 vs
(necrosis 0.1 +/- 0.1 versus 1.4 +/- 0.1, hemorrhage 1.77 +/- 0.2 versus 2.5 +/- 0.6, liver transcript for pro-IL-1	0.13; p<0.01).
beta and Nlrp3 caspase 1 and serum IL-1 beta release, P	Conclusion:
< 0.01). AA induced in vivo protection is dependent on	GU cancer patients who are referred to PCC from medical oncology clinic have significant decrease in pain symptoms.
NMDA and beta-arrestin 2.	Frequency of PCC consultation is still low in comprehensive
Conclusions: Aspartic Acid acts through NMDA and	cancer institutes, and not in congruence with the available palliative care screening tools criteria suggested by CAPC.
beta-arrestin 2 to suppress TLR4 and NLRP3 mediated	Standardized tools should be developed to guide PCC referrals,
pro-inflammatory signaling and hepatitis. Aspartic acid has potential as a therapeutic agent in the treatment of	and routine use of these tools will significantly help in pain control
acute liver failure.	by seeking specialist palliative care.

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Cardiovascular Research Foundation, New York, NY;	Title: THE NATIONAL EARLY WARNING
2Mount Sinai St. Lukeâ€ <sup>™</sup> s Roosevelt Hospital, New	SCORE (NEWS) IN ITS PREDICTION OF
York, NY; 3Alizee Pathology, Thurmont, MD;	DETERIORATING FLOOR PATIENTS
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	Purpose
Institution: Mount Sinai St. Luke's Roosevelt	To evaluate the ability of the National Early Warning
	Score(NEWS) to predict outcomes in deteriorating floor
Hospital	patients.
Title: A LONG TERM LUMEN	Methods
REMODELING ANALYSIS OF A NOVEL	A retrospective chart review of 60 rapid responses was performed with specific attention paid to the vital signs
NON-DRUG ELUTING BIOABSORBABLE	documented just prior to the triggering of the rapid response.
STENT IN PORCINE CORONARY	The clinical course following the rapid response was noted,
ARTERIES	with documentation of whether an ICU or ICU step-down
	transfer occurred, as well as if the patients were intubated,
	coded, or died during current hospitalization. Each
Background: Degradation of bioabsorbable stents (BAS)	patients' NEWS was calculated based on the vital signs,
has been shown to allow restoration of the treated	including systolic blood pressure, heart rate, respiratory rate,
segmentâ€ <sup>™</sup> s plasticity and reactivity to those resembling a	temperature, oxygen saturation and supplemental oxygen
non-stented artery, a desirable feature unattainable with	usage, as well as level of consciousness, with more abnormal
metallic stents (BMS).	findings being given higher scores. A score of 3 for any one
Objective: We aimed to evaluate by optical coherence tomography (OCT) the long term dynamic changes in	category is the maximum that could be assigned, with the
arterial geometry in response to a novel non-drug eluting	exception of supplemental oxygen usage, which presence
BAS as compared to BMS.	alone, if greater than a patient's baseline, is assigned a
Methods: Thirty-five coronary arteries of 13 swine received	value of 2. Patients were then stratified into 3 groups: Low (0-
BAS (Amaranth Medical, Mountain View, CA n=22) or	4), moderate (5-6, or any single physiologic parameter measuring 3) and high (7+) risk. Results were obtained from a
	previous chart review of the same subset of patients with risk
BMS (Liberte® Boston Scientific, Natick, MA n=13). Optical coherence tomography (OCT) was done at day 0,	stratification based on the Modified Early Warning
day 28 (BAS, n=22; BMS, n=13), 1 year and 2 years (BAS,	Score(MEWS) for comparison.
· · · · · · · · · · · · · · · · · · ·	Results
n=6; BMS, n=4). Results: The lumen areas of reference segments increased	There were zero patients with a †lowâ€ <sup>™</sup> score that ended
over time, but less for the BMS-caged segments (Day	up being intubated, coded, or dying, whereas both moderate
0=6.1±1.8mm2, 2 Years=10.6±2.9mm2) than	and high score appeared to be associated with those outcomes.
	Of patients with a high NEWS stratification, over 50%
•	transferred to a higher level of care.
consequence, appear to be a reproducible and inherent	trend.
pattern of non-drug eluting bioabsorbable stent behavior in	
for the BAS-treated arteries (Day $0=6.7\&177;1.9mm2, 2$ Years=12.1 $\&177;0.4mm2$ ). BMS showed lumen area loss at 28 days as expected due to neointimal formation, and then minimal lumen area variance over time up to 2 years (Day $0=6.79\&1177;1.7mm2, 2$ Years= $6.78\&1177;2.25mm2$ ). In contrast, in BAS the early lumen area loss present at 28 days inverted into lumen gain that corresponded with the scaffold mechanics paralleling the artery growth and allowing the treated segment to remodel (Day $0=7.31\&177;0.9mm2, 2$ Years= $9.71\&1177;1.58mm2$ , Figure). Conclusion: Restoration of the treated segmentâ $\in$ <sup>TM</sup> s ability to grow and remodel, with late lumen area gain as a consequence, appear to be a reproducible and inherent	transferred to a higher level of care. Conclusion Moderate to high NEWS stratification was associated with increased transfer to a higher level of care, as well as increased risk of death during current hospitalization. Due to its simplicity, it would be feasible to implement a change to the electronic medical record so that the score is reflexively calculated and high scores trigger evaluation by the rapid response team in hopes of identifying these deteriorating patients earlier in the course of their decompensation. Before this is implemented, more data will need to be reviewed in order to calculate a statistical significance as opposed to a

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<b>Title: The use of Ivacaftor in cystic fibrosis</b> <b>mutations with residual functioning protein</b> Objective: Ivacaftor, a cystic fibrosis (CF) potentiator, is approved in patients with Class III gating-type mutations and demonstrated significant improvements. It may also be	Cornell Medical College, NY, United States Institution: LINCOLN MEDICAL AND MENTAL HEALTH CENTER
effective in CF mutations with residual functioning protein (Class IV and V mutations). A pre-specified subgroup analysis of patients with the class IV mutation R117H and more advanced lung disease revealed a mean absolute treatment difference in FEV1 of 5.0 %. We report the use of ivacaftor in 4 CF adults with various Class IV mutations. Methods: Ivacaftor was prescribed to 4 patients whose clinical status was deteriorating over the previous year. We obtained pre and post administration FEV1, weight, sweat chloride (in 3 out of 4), and CFQ-R. Results: Patient 1 is a 26 year-old woman. CF genotype of 2 class IV mutations (R347P and L1065P). She had four acute pulmonary exacerbations, three of which required IV antibiotics. Her FEV1 was maintained between 80 to 85% but dropped to 75%. Six months following ivacaftor, FEV1 improved to 81% and she gained 10 lbs. Sweat chloride	<b>Title: 14-3-3 ETA PROTEIN : AN EMERGING</b> <b>BIOMARKER IN THE DIAGNOSIS OF</b> <b>RHEUMATOID ARTHRITIS</b> Background: The diagnostic utility of Serum 14-3-3 eta has been extensively studied and in established RA an association has been established between serum levels of this marker and the degree of joint damage. The ? isoform is expressed in much higher concentration than the ? isoform or MMP 1 and 3 levels in the serum and synovial fluid of patients with RA compared to the normal population. Rheumatoid factor (RF) is known to be sensitive and antiCCP highly specific for RA, however the number of patients remaining seronegative is substantial. There is a growing need for a biomarker to prevent underdiagnosis of this patient subset. Objectives: The purpose of the study was to investigate if serum 14-3-3 ? enhanced the detection of RA over RE or antiCCP in RA
decreased from 95.9 to 85.9 moles/L and CFQ-R respiratory increased from 55 to 100. She reported almost complete disappearance of cough and remained free of exacerbations. When ivacaftor was stopped due to lack of coverage, there was marked worsening in all parameters within one month. FEV1 dropped to 68%, weight dropped by 3 lbs, sweat chloride increased to 93.6 moles/L and CFQ-R respiratory dropped to 44.6. Patient 2 is a 61 year-old male with W1282X mutation and the class IV mutation D1152H. The year preceding ivacaftor, he had three acute exacerbations requiring IV antibiotics. FEV1 dropped from 95% to 67%. Six months into invocator, FEV1improved to 87% and he gained 17 lbs. Sweat chloride decreased from 29.8 to 22 moles/L and CFQ-R respiratory improved from 55 to 100 points. He reported disappearance of	14-3-3 ? enhanced the detection of RA over RF or antiCCP in RA patients. We also studied the utility of 14-3-3 eta as a diagnostic test by comparing presence of this protein in RA v/s non-RA patients. Methods:A retrospective chart review study was conducted in RA patients at an outpatient rheumatology clinic in an inner city population at a community teaching hospital serving a large immigrant population. 132 RA patients were identified who satisfied the 2010 ACR diagnostic criteria and 37 non RA patients seen in the clinic for other rheumatologic conditions were chosen as the control group. Serum 14-3-3? protein was measured by ELISA. The positive threshold range using Quest Diagnostic for RF was 15 IU/ml, antiCCP was 20 Units and for 14-3-3 eta was 0.2 ng/mL. The chi-square test was used to analyze the frequency of RF and antiCCP positivity in both RA and non RA patients while kappa was calculated to compare the RA and non RA patients.
<ul> <li>Improved from 35 to 100 points. The reported disappearance of cough and had one pulmonary exacerbation, treated with oral fluoroquinolone.</li> <li>Patient 3 is a 35 year-old male with the class IV D579G mutation and S912X. Following ivacaftor, FEV1 improved from 27 to 31%. He gained 7 lbs. His sweat chloride decreased from 91.2 to 74.3 moles/L and CFQ-R doubled.</li> <li>Patient 4 is a 72 year-old male with CF genotype G542X and the class IV mutation D1152H. Following ivacaftor, FEV1 improved from 39 to 51%. He gained 7 lbs and CFQ-R doubled. He did not undergo sweat chloride testing. He reported disappearance of cough and wheezing.</li> <li>Conclusions: We noted improvement in all patients and in all parameters at 6 months compared to baseline. One patient was retested at one month after stopping ivacaftor with worsening parameters. These data provide evidence for the beneficial effects of CFTR potentiators in CF mutations producing residual functioning protein.</li> </ul>	patients. Results: Of the 132 RA patients, 75.8 % were females and mean age was 58 (range 28- 90) years. The population was predominantly Hispanic (75%). In the non-RA group, 9% had psoriatic arthritis and 14% lupus, 73% were females, 76% Hispanic and the mean age was 54 (range 19-93) years. In the RA population, 61 were eta positive and 71 were eta negative.8.2% of the RF- and 6.56% of the antiCCP- patients were eta positive .63.4% of the RF- and 64.8% of the antiCCP- patients were eta negative.In the non RA subset, 92.6% of the RF- and 88.9% of the antiCCP- patients were negative for eta.When comparing RA vs. non-RA, the kappa calculated was 0.016 (95% confidence interval: -0.047 to 0.078), the strength of agreement is considered to be poor. Chi $\hat{a}$ <sup>c</sup> square computed in the RA patients was 1.86E-011 for RF and 9.34E-013 for antiCCP. Conclusion:Measurement of 14-3-3? complements RF and antiCCP antibody tests in RA and may improve diagnostic sensitivity. Used in combination with other serological markers,14-3-3 eta can increase identification of patients with RA.

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Title: The Etiology and Risk Factors Analysis in	THAN THE DOLE OF KD 8-#220.DDEL LIKE
Hypercalcemic Crisis	Title: THE ROLE OF KRÜPPEL-LIKE FACTOR 15 IN GLOMERULAR KIDNEY
Hypercalcemic crisis is a rare but life-threatening condition involving the decompensation of hypercalcemia (usually when serum calcium > 13-15 mg/dL) with significant disturbance to cardiac, renal, gastrointestinal and neurological function. Although major textbooks have thorough and detailed reviews of hypercalcemia, there are no articles elaborating specifically the etiology and pathophysiology of hypercalcemic crisis. The goal of this study was to identify the etiologies and risk factors of hypercalcemic crisis. We performed a retrospective review from 01/2012 to 05/2014 of patients with hypercalcemia at our tertiary care center and analyzed their characteristics. Sixty- two patients with severe hypercalcemia (adjusted serum calcium level by albumin = 13.5 mg/dL) were identified from 262 of hypercalcemia. Demographic and clinical characteristics, such as age, gender, race, etiologies (e.g. primary hyperparathyroidism (pHPT), malignancy, or other causes), serum calcium level, clinical manifestations including gastroenterology, renal, cardiovascular, altered mental status, EKG changes, precipitating factors (dehydration, acute kidney	<b>DISEASE</b> Background: In the United States, 8.3 million individuals are affected by chronic kidney disease (CKD), resulting in significant morbidity and accounting for nearly 25% of the Medicare budget. The primary etiology of CKD is a direct consequence of initial glomerular dysfunction and injury. The glomerular basement membrane is lined by podocytes, or terminally differentiated epithelial cells, whose major function is the maintenance of the renal filtration barrier. Podocyte injury is implicated in many primary glomerulopathies, including Minimal Change Disease (MCD) and Focal Segmental Glomerulosclerosis (FSGS). In many of these diseased conditions, the podocyte loses specific markers of differentiation, characteristic morphologic features, and the functional capacity to maintain the glomerular filtration barrier. Glucocorticoids (GCs) are the first line of immunosuppressive therapy in the treatment of many primary glomerular diseases, but their mechanism of action remains unclear. In a recently published study, we characterized the role of Krüppel- Like Factor 15 (KLF15), a kidney-enriched zinc-finger transcription factor, in podocyte injury. Our in vitro (human podocyte cell culture)
injury (AKI), infection) were evaluated. Our study revealed that there were no differences in the etiologies between hypercalcemic crisis (pHPT/malignancy/others: 15%/60%/25%) and severe hypercalcemia without crisis (pHPT/malignancy/others: $7.1\%/64.3\%/28.6\%$ , P = 0.617). Compared with severe hypercalcemia without crisis, the serum calcium level was significantly higher in hypercalcemic crisis	and in vivo (mouse model) studies revealed that KLF15 is required for recovery from podocyte injury, that a loss of KLF15 increases the susceptibility to kidney injury, and that GCs induce KLF15 expression Objective: To determine whether the expression of KLF15 is a prerequisite for glucocorticoid responsiveness in glomerular injury. Methods: We reviewed archival renal biopsies performed between 2002 and
(16.9±1.8 mg/dL vs 14.8±1.1 mg/dL, $P < 0.001$ ). However, no differences in serum calcium level were observed among the subgroups of different etiologies in hypercalcemic crisis ( $P = 0.662$ ) or severe hypercalcemia without crisis ( $P = 0.423$ ). The logistic regression analysis showed that serum calcium level and age were independent risk factors for hypercalcemic crisis. Specifically in our risk-prediction model,	2012 at Stony Brook University and quantified the level of KLF15 expression (by immunofluorescence) in control subjects (healthy donors) and patients with biopsy proven primary glomerulopathy. Baseline KLF15 expression at the time of the biopsy were correlated with the specific glomerular disease, response to GCs, and renal function. Results:
1 mg/dL increase serum calcium concentration increases 2.7 times the odds of hypercalcemia crisis; one year increase in age increases the odds of hypercalcemic crisis by 61%. The multivariate linear regression analysis showed that significant predictors of serum calcium level in hypercalcemic crisis were age and AKI. To our knowledge, this is the first and most comprehensive study to investigate the etiology and risk factors of hypercalcemic crisis. Our constructed risk-prediction model makes possible the rapid and easy calculation of risk for hypercalcemic crisis. The accurate assessment of risk before	We identified donor nephrectomies (control) (n=19), patients with GC responsive (GC-R) (n=30), and GC-nonresponsive (GC-NR) primary glomerulopathy (n=10) biopsy specimens and observed that the podocyte-specific expression of KLF15 (using WT1- a known podocyte localization marker) was significantly reduced in patients with GC-nonresponsive glomerulopathy as compared to GC-responders and healthy subjects. Conclusion: Glomerular disease is a major cause of chronic kidney disease and targeted therapy is unfortunately very limited. Alternative treatments are not even considered unless patients fail GC therapy. Through our database of renal biopsy specimens, we identified that KLF15 is a
investigating etiology has an important place in hypercalcemic crisis screening. The implementation of our risk-prediction model is expected to improve clinical and critical care practice in hypercalcemic crisis.	prerequisite for the salutary effects of GC in primary glomerulopathies. This identified role of KLF15 is promising as it helps target treatments in patients with primary glomerulopathy and brings new insight into podocyte pathophysiology.

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Institution: Montefiore New Rochelle Hospital and	Institution: Staten island University Hospital
Albert Einstein College of Medicine, New Rochelle, NY	Title: MitraClip Acute Outcomes are Similar in Functional vs. Degenerative Mitral
	Regurgitation: A Meta-analysis of
Title: PROTON PUMP INHIBITOR INDUCED HYPOMAGNESEMIA	Observational Studies
	Introduction:
Background Hypomagnesemia occurs in up to 12 percent of hospitalized patients. Since 2006, various case reports have been published citing instances of proton pump inhibitor (PPI) induced hypomagnesemia. Patients can present with profound muscle weakness, twitching, and cardiac dysrhythmias that may prompt the diagnosis of hypomagnesemia. Studies suggest that magnesium levels should be measured in patients receiving PPIs, particularly in those with malabsorption syndromes, kidney diseases, or on medications inducing renal loss of magnesium. Methods We conducted a retrospective chart review for hospitalized patients who were on PPIs prior to admission. The magnesium levels on these patients were noted. 300 charts were reviewed and 55 patients included for the final analysis. Results 42 percent patients using PPI were noted to hypomagnesemic. Females were twice more likely to develop hypomagnesemia compared to males. Omeprazole was the most commonly used PPI and had the highest association with hypomagnesemic compared to other PPIs. Hypomagnesemia was associated with hypokalemia and hypocalcemia in all cases. 34% of hypomagnesemic patients were also on diuretics in addition to PPIs. Hypomagnesemia was more common in patients using diuretics and PPI than those using PPI alone. Admission notes documented that 62% patients did not have any identifiable reason to be on a PPI. Discussion PPI use is associated with hypomagnesemia. The bulk of magnesium is passively transported and absorbed in the small bowel. Active transport mechanisms in the small bowel are now recognized, including transient receptor potential melastatin TRPM6 and TRPM7. Patients who have a homozygous mutation of these pathways actually have significant isolated hypomagnesemia without hypocalcemia. It is not known if PPIs affect active or passive transport of magnesium, or whether PPI use may trigger hypomagnesemia in patients with TRPM deficiency. Prior studies indicate that in hospitalized patients, about 25 percent did not respond to magnesium re	Introduction: Percutaneous mitral valve repair using MitraClip (MC) is recommended by 2014 AHA/ACC valvular heart disease guidelines, only for inoperable symptomatic chronic degenerative MR (DMR) patients on optimal medical therapy (Class IIb). However outside USA, MC is extensively utilized for severe functional MR (FMR), with some recent registries suggesting increased success with FMR when compared to DMR. Randomized control trials to evaluate MC success in functional MR are ongoing. Methods PubMed, EMBASE, Google scholar database and international meeting abstracts were searched for all observational MC studies. Studies which did not specify type of MR or where post-procedural results were not delineated between the types of MR were excluded from the analysis. We defined acute procedural success (APS) in our analysis as decrease in MR severity to = 2 at the time of discharge or within 30 days post procedure and MACE as composite 30 day myocardial infarction, stroke, and all-cause mortality. Results We included 8 observational studies, with total of 1452 patients, with 806 patients in FMR vs. 552 patients in DMR. Meta-analysis was performed with intention to treat principle. Pooled analysis using random effects model (Mantel- Haenszel statistics) was performed for acute procedural success and results were similar for both FMR and DMR (OR=0.93, p=0.82). Short term MACE events, including death were similar in both groups (OR=0.57, p=0.15). Cumulative procedural success rates with MC were 89% for both FMR and DMR.
are labeled for 14 days of use, and this treatment course may be repeated every 4 months up to 3 times per year. PPI induced hypomagnesemia is important especially in patients using diuretics or having coronary artery disease. The concomitant use of	NitraClip therapy to be of equal efficacy and safety at short term follow up for both functional and degenerative MR.
diuretics in our patients could be a possible confounder. Further consideration is needed for checking magnesium level before initiating and during the course of PPI therapy. Also, PPIs should	
be discontinued once the indication for its use ceases to exist.	

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Cornell <b>Title: National Trends in Real-World Utilization of Percutaneous Ventricular Assist Devices and In-Hospital Outcomes</b> Abstract: Background: Percutaneous ventricular assist devices (PVADs) are increasingly being utilized over the traditional intra-aortic balloon pump (IABP) in various settings including acute myocardial infarction (MI), cardiogenic shock (CS), and high-risk non-emergent (HRNE) percutaneous coronary intervention (PCI) with limited clinical data. We assessed national trends in real-world utilization of PVAD vs. IABP and associated in-hospital outcomes. Methods and Results: We analyzed all patients undergoing PVAD (n=4,924) vs. IABP (n=215,283) placement from 2008-2011 in the Nationwide Inpatient Sample database. Temporal trends as well as in-hospital outcomes (death, stroke, bleeding, vascular complications, and acute renal failure (ARF)) were examined for all indications. Multivariate propensity- score adjusted analysis was performed to adjust for selection bias. PVAD utilization increased 4-fold (from 470 to 1,949 devices), whereas IABP use decreased by 11% (from 57,875 to 51,415). PVAD patients were more likely to be older, female, have chronic renal failure, and undergo PCI. IABP patients were more likely to present with CS and AMI. After adjustment, PVAD utilization was associated with increased mortality (OR 1.25, 95%CI 1.05-1.48), bleeding (OR 1.32, 95%CI 1.04-1.66), vascular complications (OR 1.32, 95%CI 1.04-1.66), vascular complications (OR 1.32, 95%CI 1.30-2.90), and ARF (OR 1.39, 95%CI 1.18-1.63). However, in the HRNE PCI group (PVAD, n=1,632; IABP, n=6,301), the adjusted risk of death was	<b>MSSA bacteremia</b> Purpose: With the increased prevalence of methicillin-resistant Staphylococcus aureus continues to increase worldwide, there is a concern about an increase in vancomycin Minimal Inhibitory Concentration (MIC) for S. aureus strains. Vancomycin MIC has been shown to affect the clinical outcome of both methicillin-resistant S. aureus bacteremia and methicillin-sensitive S. aureus bacteremia. In this study, we evaluate the prevalence of high vancomycin MIC isolate infections in a community hospital in Bronx, New York, and risk factors and its effects on clinical outcomes. Methods: All patients who were hospitalized in a single community hospital from January 2012 to December 2012 with S. aureus bacteremia was included in this study. We analyzed the prevalence of high vancomycin MIC S. aureus strains in Methicillin resistance S. aureus (MRSA) and Methicillin sensitive S. aureus (MSSA). The clinical features and outcome for these patients were recorded. High vancomycin MIC S. aureus strain is defined as MIC =2 µg/mL, whereas low vancomycin MIC strain is defined as MIC <2 µg/mL. Results: We analyzed 70 patients with S. aureus bacteremia, there are 34 (48.6%) infected with MRSA with 36 (51.4%) with MSSA. Among the 34 MRSA isolates, 20 (58.8%) had a vancomycin MIC = 2 µg/mL and 14 (41.2%) had a vancomycin MIC = 2 µg/mL in-hospital mortality was 20% (n = 4/20) in patients with a ligh vancomycin MIC and 21.4% (n = 3/14) in those with a low vancomycin MIC and 21.4% (n = 3/14) in those with a ligh vancomycin MIC and 21.4% (n = 3/14) in those with a low vancomycin MIC MRSA (p < 0.05). Among the 36 MSSA isolates, 41.6% had a vancomycin MIC = 2 µg/mL. The mortality rate is the same (33.3%) between high vancomycin MIC and low vancomycin MIC group. Different from MRSA group, there is no difference in the rate of infection with high vancomycin MIC between the patients with
significantly lower with PVAD vs. IABP (OR 0.41, 95%CI 0.21-0.82) without differences in other in- hospital complications. Conclusions: PVAD utilization in the United States is increasing without a clear clinical benefit over less costly IABP devices. In patients undergoing HRNE PCI, however, PVAD use is associated with improved survival.	HIV/AIDS history or hemodialysis. Conclusions: Patients with MRSA bacteremia with a history of HIV/AIDS and hemodialysis more likely to be infected with S. aureus strains with high vancomycin MICs. Unexpectedly, the in hospital mortality rate was the same among patients infected with these strains compared to patients infected with low MIC strains. This outcome can be explained with awareness of the high vancomycin MIC and early use of Linezolid and daptomycin on the patients.