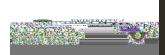
DISSEMINATED SWEET SYNDROME: A RARE MIMICKER OF SEPTIC SHOCK





SWEET SYNDROME

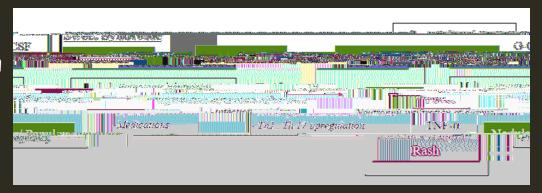
An inflammatory condition characterized by fever, peripheral neutrophilia, and painful skin nodules/papules, thought to be related to maladaptive elevations in G-CSF

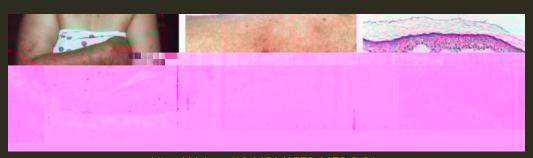
Can be idiopathic or associated with underlying inflammatory states/malignancies & drugs

Rarely, can have systemic involvement with organ failure

Treatment with steroids typically leads to rapid improvement in systemic and dermatologic symptoms

Definitive management of non-idiopathic SS requires treatment of underlying inflammatory condition



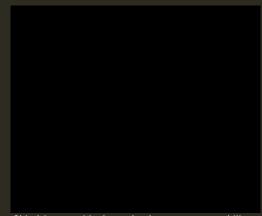


https://doi.org/10.1186/1/50-11/2-2-34

CASE PRESENTATION

Patient: 74 year-old man with coronary artery disease and hypertension, two weeks post admission for cholangitis with biliary tube placement complicated by acute tubular necrosis

- -Admission #1: Presented with fevers, weakness, subacute progressive abdominal distension/pain in the setting of serosanguineous biliary tube output and severe anemia
 - Required MICU admission for respiratory support and diuresis due to TACO
 - Developed scattered joint stiffness with elevated ESR & CRP, hemorrhagic blisters on bilateral hands. Biopsy suggestive of possible SS
 - Discharged home without antibiotics
- -Admission #2: One day following discharge, re-presented with presumed septic shock requiring pressors and nonrebreather
 - Started on vancomycin, cefepime and metronidazole as empiric therapy



Skin biopsy with dermal edema & neutrophilic infiltration of the upper dermis

https://www.cmaj.ca/content/cmaj/179/9/967/F2.medium.gif



Early eruption of skin lesions during Hospital Admission 1

HOSPITAL COURSE

⊞ypoxic respiratory failure requiring multiple trials of BiPAP

Transfusion-dependent anemia

Persistent hemorrhagic bullae on bilateral hands

Acute kidney injury, delaying additional contrast imaging

CT abdomen and pelvis was performed on HD #5 revealing no acute abnormality, thus concluding an unrevealing infectious work-up

With suspicion for disseminated SS, dermatology recommended discontinuing antibiotics in favor of high dose methylprednisolone

Respiratory status improved with corticosteroids, further supporting dSS

Bone marrow biopsy (evaluating for hematologic cause of anemia and SS) revealed MDS versus developing AML



Hemorrhagic bullae, Hospital Admission # 2

Bilateral pleural and small pericardial effusions on HD #5

CONCLUSIONS

Rare case of Disseminated Sweet Syndrome in a 74 year-old male with underlying hematologic dysplasia, presenting with systemic inflammatory response concerning for septic shock

- -Disseminated Sweet Syndrome should be considered in patients with fever, painful erythematous papules/nodules, anemia, effusions and hemodynamic instability meeting SIRS criteria with unclear source of infection
- -Early treatment with corticosteroids is critical for rapid clinical improvement
- -Many cases of SS are due to an identifiable state of increased inflammation Necessary to evaluate for infection, rheumatologic disease, or malignancy Definitive management of non-classic SS requires treatment of the underlying condition