



09/3/21 Morning Report with @CPSolvers



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"Dangerous discoveries"

CC: Fever for one month.

HPI: 34-yo man with a history of fluctuating fever (99-102) or one month associated with night sweats. He also noticed yellowing of skin and sclera for 3 weeks. He complains of dysphagia, odynophagia, dyspnea, nausea and malaise that started 2 weeks ago. 2 weeks back: he was prescribed NSAIDs (nimesulide) for the fever. He developed a generalized maculopapular rash with got worse despite discontinuing nimesulide. Denies weight loss, diarrhea, back pain, headache, falls, dizziness.

PMH: HIV diagnosed 1 year ago - not on ART

Meds: None

Fam Hx: none

Soc Hx: denies alcohol, tobacco or illicit drug use

Health-Related Behaviors: none

Allergies: none

Vitals: T: 39 C HR:102/min BP: 118/78 RR: 22/min SpO₂: 94% on O2

Exam:

Gen: ill appearing, uncomfortable, could barely speak

HEENT: PERRLA, presence of white plaques in the oral cavity, with dry tongue and prominently furrowed

CV: normal S1 and S2

Pulm: appears dyspneic, diffuse crackles.

Abd: NT ND, +splenomegaly

Neuro: oriented to time, person and place. No evidence of nuchal rigidity.

Extremities/Skin: generalized pitting edema in the lower extremities, which subsequently spread to arms and trunk. Maculopapular non palpable rash sparing palms, soles and face.

Notable Labs & Imaging:

Hematology:

WBC: 7k (nml diff) - lym 2700 Hgb: 10 MCV 78 Plt: 25k

Direct Coomb + / PS- no evidence of schistocytes or malarial parasite.

Chemistry:

Na: 125 K: 4.9 CO2: BUN: 122 Cr: 3 Cholesterol 135 Triglyceride 1058

HDL and LDL normal INR 2.2 AST: 415 ALT: 224 ALK-P: 260 T. Bili: 15 D 12

Albumin: 2.4 TP: 5.4 CRP 30 Procalcitonin 1.55 apTT nl

Dengue, Chikungunya, Typhoid, Brucella, Hep A-E, Lepto, Histo, TB ->

negative. HHV* and EBV not done due to resource limitations

Fibrinogen: 84 Ferritin: 14,896 IL-6: 76

Imaging:

CXR: diffuse infiltrates consistent with ARDS

USG: lymphadenopathy in blt jugular chain (17x5mm), submandibular

region, blt inguinal region (18x7mm). Splenomegaly (17cm),

hepatomegaly (15cm). Slight pleural and ascitic fluid.

BM biopsy: histiocytes showing HLH. In views of BM and labs - secondary

HLH

Final diagnosis: HLH + HIV + probable MCD

Problem Representation: 34-yo man with a previous history of untreated HIV presents with subacute fever, jaundice, and a rash, who was found to have splenomegaly and hepatomegaly, and edema.

Teaching Points (Vale):

- **Fever:** 1st. Infections and rule out Hyperthermia, Hyperthyroidism + **Jaundice:** Indirect (hemolysis) vs Direct (hepatic) + **Odynophagia/Dysphagia:** Esophagus irritation (strictures, webs, rings, ulcers)
- **Generalized rash:**
 - **Life Threatening causes:** Meningococemia, Rocky mountain spotted fever, toxic shock syndrome, endocarditis, necrotizing fasciitis.
 - **Red flags:** Fever, mucosal involvement, pain, medications
- **Fever + Rash:**
 - Infections: Virus (EBV/CMV/HIV), Bacteria (Syphilis, Mycobacteria), Fungi (Cocci, Histoplasmosis)
 - Drugs, Malignancy, Autoimmune.
 - Immunocompromised patient: Think Hickam's Dictum. **Vulnerable to Candida and Mycobacteria independently of CD4 count. The most common complications of HIV w/normal CD4 count are malignant.**
- **Hemophagocytic Lymphohistiocytosis (HLH):** Heme malignancy until proven otherwise. Fever, splenomegaly, hypertriglyceridemia/hypofibrinogenemia, hyperferritinemia, cytopenias. Supportive criteria: Conjugated hyperbilirubinemia, hyponatremia, transaminasemia.
- **TAFRO Syndrome-Castleman's Disease:** Lymphadenopathy, anasarca, fever, thrombocytopenia, organomegaly, reticulin fibrosis, renal impairment.