



5/11/20 Morning Report with @CPSolvers



Case Presenter: Stephen Gurley (@GurleyGuy) Case Discussants: Josh Morris (@JoshMedPeds), Andrea Anampa-Guzmán (@AndreaAnampaG)

CC: Chest pain and shortness of breath

HPI: 49yo M presenting with chest pain and shortness of breath. He developed sudden onset chest pain, shortness of breath, and diaphoresis. The pain was substernal and relieved slightly by a nitroglycerin patch. He has never had pain like this before, and had no recent chest wall trauma.

His shortness of breath accompanied the chest pain. He has had a dry cough for the preceding two days, as well as subjective fevers and malaise for the last two days. He denies calf swelling or tenderness. No recent immobilization. He also notes a facial rash for the last 2-3 weeks.

In the ED: received IV Fluids, CTX and antipyretics → hemodynamic stabilization

Subsequent history: Confirmed he had seen his PCP earlier and received Penicillin G after being diagnosed with secondary syphilis shortly before the development of these symptoms that prompted presentation to the ED.

PMH:
HIV (CD4 count of 571 two years ago)
Gonorrhea urethritis ~30 years ago.

Meds:
Biktarvy

Fam Hx:
CVD in multiple family members. Father passed from MI in early 60s

Soc Hx:
Works in a manufacturing plant
Health-Related Behaviors:
Never smoker. 1-2 alcoholic beverages/month. 2-3 male partners in the last year.
Occasionally uses condoms

Allergies:
NKDA

Vitals: T: 101.5 → 97.8 HR: 126 → 93 BP: 62/52 → 100/65 RR: 25 SpO₂: 97% RA BMI: 24

Exam:

Gen: Heavy breathing. No acute distress

HEENT: Anicteric sclera. Clear oropharynx. No LAD

CV: Tachycardic, regular. No peripheral edema. Brisk capillary refill. No murmurs

Pulm: Tachypneic, Lungs CTAB

Abd: Soft, NT, ND. No palpable masses or organomegaly

Neuro: No focal deficits.

Extremities/Skin: Multiple flesh colored papules on the face. Solitary papule on the dorsum of the penis. No inguinal adenopathy

Notable Labs & Imaging:

Hematology:

WBC: 6.9 Hgb: 12.2 Plt: 272

HIV Viral Load: 1.989 (Log base 10) CD4: 414 (29%)

Chemistry:

Na: 134 K: 3.9 Cl: 102 CO₂: 26 BUN: 15 Cr:1.0 glucose:

AST: 49 ALT: 47 Alk-P: 104 T. Bili: Albumin:

Trop: < 0.03 x 2

Sputum Cx, Blood Cx, AFB, Toxo, CrAg: All negative

RPR: 1: 512 FTA-Ab: Positive

Imaging:

EKG: Sinus tachycardia. No ST changes; CXR: Normal

UA: Normal; Urine Drug Screen: Negative

CTPE: No acute pulmonary embolism. Solitary pulmonary nodule (<5mm) seen on prior imaging.

Cardiac Stress Test: normal

Problem Representation: 49 year old male with HIV on ART presented with sudden onset chest pain and shortness of breath in the setting of a facial rash and was found to be in distributive shock. An RPR and FTA-Ab were positive, with subsequent history confirming the patient received penicillin G that day.

Teaching Points (Moses):

Chest pain: emergent 4+2+2 → anatomic approach

HIV complication:

- Infectious: expanding Ddx not shifting Ddx.
- Higher rate of STIs, remember syphilis can have diverse presentations!
- CD4 < 200 → CMV, fungi, PJP.
- Aortitis: Salmonella, syphilis, Bartonella.
- GNR bacteremia can be abrupt
- Vascular lesions: bacillary angiomatosis, kaposi sarcoma
- Non-infectious: CAD, NiCM, primary pulmonary HTN

Jarisch-Herxheimer:

- An acute febrile reaction after treatment of a spirochetal infection. Occurs in ~10-35% of cases
- Other findings can include hypotension, myalgias, rigors, worsening rash etc.
- Often self-limited without a need for intervention, but NSAIDs or other antipyretics can be used