



# 12/2/23 IMG VMR with @CPSolvers and Washington State University IMRP Everett



*"One life, so many dreams" Case Presenter: Kevin Cheng, Oluwatosin Fajana (@tosin\_faj), and Aisha Alam*

*Case Discussants: Sharmin (@sharminzi), Yazmin (@minheredia), and Bettina (@salfopsi)*

**CC:** Early 30yo M to ED w/ R sided chest mass

**HPI:** A few months ago when doing push ups, started to hear "pop" and felt a R-sided mass between breast and axilla. Flexeril and toradol prescribed by PCP provide minimal relief. Patient lost to f/u. Presents now to ED b/c lump has increased to tennis-ball size and now producing arm pain that is dull, constant, without radiation. No pain to palpation. Difficulty fully raising arm. ROS: 30 lb weight loss x months, n/v, loss of appetite. Difficulty opening both of his eyes, L>R. No numbness, other motor weakness, rashes, fever, joint stiffness. Recently taking a lot of tums due to perceived nutritional deficiency. No trauma.

**PMH:** Previously healthy

**Fam Hx:** Hemochromatosis (mother), MI (father). No fam hx of autoimmune dz/cancer.

**Meds:** Tums (CaCO3)

**Soc Hx:** Works in tech. Traveled to >10 countries (Middle East, SE Asia, Africa). >30 sexual partners w/ unprotected sex. Lives w/ 2 cats.

**Health-Related Behaviors:** Healthy lifestyle. Does not see PCP.

**Allergies:** No known allergies.

**Vitals:** T: afebrile HR: wnl BP: wnl RR: wnl on RA

**Exam:**

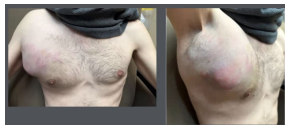
**Gen:** BMI 19, temporal wasting, non-toxic

**HEENT:** bilateral non-fatigable ptosis L>R, diplopia during eye tracking

**CV, Pulm, Abd:** wnl

**Neuro:** alert, no upper or lower extremity weakness

**Skin:** no bruit over mass



**Notable Labs & Imaging:**

**Hematology:** WBC: 4.83, no blasts Hgb: 14.5 Plt: 195

**Chemistry:** Na: 143 K: 4.9 CO2: 30 BUN: 23 Cr: 1.24 glucose: Ca: 13.6 Mag: 2.2

Alk-P: 60 Albumin: 4.6 Tbili 0.7 Protein 8.3

GFR >60 Troponin nl LDH: 2348 Uric acid: 5.9 Ferritin: 771

UA: few WBCs

Hep A reactive, hep B non-reactive HIV reactive CD4: 19

AFB smear negative, toxoplasma negative, EBV negative

LP: clear, 94% lymphocytes, glucose 46, protein 49

Paraneoplastic labs: negative

**Imaging:** EKG: nl

CXR: large anterior chest wall mass, T11 vertebral body loss and associated bone metastases, lungs clear

CT chest: 12 cm R anterior chest wall mass, bone metastases of T11 re-demonstrated. Otherwise no other invasion observed.

CT A/P nl

CT brain: enhancing R frontal calvarial lesion extending craniocaudally.

MRI brain + CT angio: marked abnormal enhancement of b/I CNV and b/I CNIII, extracranial and intracranial lesions re-demonstrated. No parenchymal lesions.

MRI total spine: pathological fracture of T11, c-spine and l-spine nl

Lymph node biopsy: diffuse high-grade metastatic B-cell lymphoma

**Dx:** B-cell lymphoma, currently receiving R-CHOP and ARVs and doing well

**Problem Representation:** 30yo M w/ newly diagnosed HIV p/w b/I diplopia, non-fatigable ptosis, ROM-limiting R-sided chest mass ISO 30 lb weight loss, n/v, anorexia x3 months c/f malignancy vs chronic infection.

**Teaching Points (Francisco):**

Chest mass: infection or neoplastic, if signs of inflammation: abscess

Pain relievers not alleviating pain: think neuropathic

Mass in axilla + ptosis: mass compressing sympathetic chain

Weight loss in a young person + expanding chest mass: malignancy or indolent infection

Weakness of eye muscles: neuro or musculoskeletal Tums can cause electrolyte abnormalities (hypercalcemia) and cause muscle weakness

Temporal wasting is a sign of chronic inflammation suggests more neoplastic

Weakness: neuro, neuromuscular junction or muscle inflam

Neuromuscular junction disease:

MG ptosis is fatigable (thymoma is an associated mass)

Lambert Eaton: associated with malignancy

Large and irregular mass suggests sarcoma

Hypercalcemia (not PTH mediated) + mass: PTHrP, granulomatous disease (vit D, TB), bone lesions (metastasis), milk-alkali synd

Patient that is chacetic + normal creatinine: AKI is frequent

HIV + soft tissue mass: nocardia, TB, actinomycosis, bartonella

HIV predisposes to non-Hodgkin lymphomas