

3/18/22 @CPSolvers VMR Fundraiser

Case Presenter: Ann Marie Kumfer (@AnnKumfer) Case Discussants: Sharmin and Jack (@sharminzi) and (@jackpenner)



<p>CC: Fever, hemoptysis, pleuritic chest pain</p> <p>HPI: 31yo F p/w 1 week hx of nasal congestion, fever (103F), coughing up thick yellow-green sputum with dark red hemoptysis (smaller than ping-pong ball) a few days ago. Reports 6-7 episodes of pneumonia since 18yo, some requiring hospitalization (latest 3 months ago, improved with abx, amox-clav). No recurrent childhood infections or sinus, skin, GI infections. No hx immunodeficiency Several years ago, small nodule 2cm. Last hospitalization told now 5cm. Prior hemoptysis with pneumonia but not between pneumonia episodes. Denies myalgia, neuropathy, weight loss.</p>	<p>Vitals: T: 38.1 HR: 90-138 BP: 132/78 RR: 17-33 SpO₂: 96% RA</p> <p>Exam: Gen: lying in bed, appeared diaphoretic in mild distress</p> <p>HEENT: white lesions on tongue, no pharyngeal erythema, no cervical and ax LAD</p> <p>CV: tachycardic, no murmurs, regular rhythm</p> <p>Pulm: tachypnea, diminished breath sounds in LLL with faint crackles, dull to percussion</p> <p>Abd: soft NT/ND, +BS</p> <p>Neuro: unremarkable</p> <p>Extremities/Skin: acanthosis nigricans</p>	<p>CONSIDER DONATING AT: https://bit.ly/3lj8cVd</p> <p>CURRENTLY AT: 2713\$ RAISED!</p>
<p>PMH: 6-7 episodes of pneumonia</p> <p>No hx asthma</p> <p>Meds: OTC tylenol and ibuprofen.</p> <p>Fam Hx: paternal grandfather with Multiple Myeloma</p> <p>Soc Hx: no travel outside US or outside North Carolina. No pets, insect bites. Prior work at sock factory, now work office job.</p> <p>Health-Related Behaviors: No known TB exposure or incarceration hx. Up to date on vaccines.</p> <p>Allergies:</p>	<p>Notable Labs & Imaging:</p> <p>Hematology: WBC: 29.6 (80%N, otherwise normal diff) Hgb: 10.4 Plt: 300</p> <p>Chemistry: Na: 135 K: 3.6 Cl: 97 CO2: 28 BUN: 11 Cr: 0.8 glucose:nl Albumin: 3.6, Hepatic function: wnl, Ca: wnl VBG: pH 7.43 CO2 43, Rapid influenza, COVID-19: negative</p> <p>Imaging: CXR: well-defined opacity over dorsal spine, c/f empyema CT: 5.8 x 5.1cm L infrahilar mass w/ heterogeneous areas of calcifications. Local invasion of L segmental pulmonary arteries and occlusion of L lower lobe airways. Small L loculated pleural effusion with locules of gas, c/f empyema. Elevated IgG level, normal IgM, ferritin: 128, Hba1c: 5, Urine analysis: trace blood, trace protein HIV: neg, ANCA IFA: positive, PR3, MPO: neg, Resp culture: neg Bronchoscopy: lobulated mass at origin of LLL, lymphocyte predominant, bronch studies negative</p> <p>Final diagnosis: Carcinoid tumor of lung without carcinoid syndrome</p>	<p>Problem Representation: Young woman p/w lung mass and acanthosis nigricans w/ no history of Diabetes mellitus.</p> <p>Teaching Points (Promise):</p> <ul style="list-style-type: none"> ● Fever → Infection, autoimmune, malignancy depending on time course and age and localization ● Pleuritic chest pain: thorax - rib fracture, MSK, pleural effusion/serositis, pericarditis; liver/spleen ● Hemoptysis: massive or small vol. Abnl connection from vasculature to lung. Infections, trauma, tumor, inflammation ● Recurrent pneumonia → structural abnl or immunodeficiency? <ul style="list-style-type: none"> ○ Pneumonia lung becomes inflamed - infx? Envir? ● Nodule: expanded - location and characteristic will help differentiate (abscess vs mass) ● Tachypnic, diminished BS, dullness percuss - parenchymal vs pleural process ● White lesions on tongue: young sexually active - oral/eso candidiasis ● AN - Insulin resistance (DM), malignancy/paraneoplastic disease (common a/w gastric carcinoma)? Drug? <ul style="list-style-type: none"> ● Infrahilar mass - cancer alone, cancer leading to infx, cancer-looking like infx (TB, histo, mucor, actinomycosis) <ul style="list-style-type: none"> ○ Lymphoma, leukemia, broncogenic tumor, leiomyoma metastasized ○ Malig complicated by pneumonia infx ● Carcinoid tumor of lung: rare neuroectodermal tumor, avg ~50yo, "salt-pepper" chromatin cytoplasm, elevated 5-HIAA, sx a/w carcinoid syndrome