



# 02/10/25 Morning Report with @CPSolvers

“One life, so many dreams” Case Presenter: Dr. Constance Wu (@wustance) Case Discussants: Dr. Sam Brondfield (@s\_brond)



<p><b>CC:</b> Global Weakness</p> <p><b>HPI:</b> 76 m Veteran,, hx afib (on AC), SCC of maxillary sinus(chemo/XRT in past), GIB(polyps removed), HTN, Parkinson's, 3 days of weakness, but prior not feeling well over course of weeks, and now not feeling well enough to get out of bed. Usually independent with ADLs, prior to a few weeks ago. No focal weakness, but globally has progressive loss of functionality with usual ADLs</p> <p><b>ROS:</b> endorses nausea, loss of appetite, denies weight loss, no fever, chills, chest pain, dyspnea, otherwise ROS negative</p>	<p><b>Vitals:</b> T: afeb BP: 145/70 RR: normal HR: 64 Sat: 100% RA</p> <p><b>Exam:</b> Gen: Tired appearing, no acute distress</p> <p><b>HEENT:</b> +Left facial droop(chronic), no palpable adenopathy</p> <p><b>Neck:</b> supple, no JVD noted</p> <p><b>CV:</b> irregular/ no murmurs, rubs</p> <p><b>Pulm:</b> CTA, normal work of breathing</p> <p><b>Abd:</b> soft, non-distended</p> <p><b>Neuro/MSK:</b> no rigidity, % in LE, upper extremities 5/5</p>	<p><b>Problem Representation:</b> 76 yo male presenting with PMH of SCC, GIB and Parkinson's dz p/w fatigue, nausea and loss of appetite. Labs revealed pancytopenia and blood smear showed teardrop cells.</p>	
<p><b>PMH:</b> Localized SCC (XRT and Cisplatin based 9 years ago) c/b Residual ptosis and neuropathy -dental extraction recently (uncomplicated)</p> <p><b>Meds:</b> Apixaban, sinemet, HTN meds</p>	<p><b>Fam Hx:</b></p> <p><b>Soc Hx:</b> High agent orange exposure (military grade herbicide), USPS worker,</p> <p><b>Health-Related Behaviors:</b> N/A</p> <p><b>Allergies:</b> No notable allergies</p>	<p><b>Notable Labs &amp; Imaging:</b></p> <p><b>Hematology:</b> WBC: 1.81 (non-neutropenic)( WBC 8.5, 4 months prior) Hgb: 9.1 (12.4) Plt: 111 (140) MCV: normal Peripheral smear: ovalocytes, tear drop cells, no blasts, or atypical cells, pancytopenia noted Retic count: inappropriately low Vit B12(nml), copper(nml), LDH normal UA with proteinuria HIV/HBV/HCV negative, SPEP normal RUQ normal <b>Chemistry (BMP otherwise normal aside from baseline CKD)</b> TSH: within normal limits Initial Bone Marrow bx: non-diagnostic aspicular, flow cytometry CD5-, CD10 negative, c/f B cell lymphoproliferative PET-CT: negative CT Bone marrow bx: C/f acute leukemia (myeloid or lymphocytic) Flow cytometry: supported APML, FISH:</p> <p><b>Dx : Acute Promyelocytic Leukemia (APML)</b></p>	<p><b>Teaching Points (Maryana):</b></p> <ul style="list-style-type: none"> <li>- <b>Weakness</b> - what actually is going on? Systemic vs focal causes- Plus: neurological symptoms, muscle pain, sleepiness? Try to go to <b>something more narrow</b> than weakness.</li> <li>- <b>Fatigue:</b> more systemic than focal. Ddx: cancer, anemia, chronic conditions (GI bleed, progressive Parkinson's disease ), cardiac issue (chronic Afib).</li> <li>- Role of SCC of maxillary sinus: metastatic recurrence? Chemo or radiation years ago are less likely to be contributing to the fatigue. Some types of chemo may have a long term side effects.</li> <li>- Length of the side effects secondary to exposure of chemo/radiation depends on the type of the drug - foggy mind can last for months or years; neuropathy from cisplatin and cardiac issues can be permanente.</li> <li>- <b>Agent orange: has been linked with a variety of cancers!</b></li> <li>- Ddx for fatigue: infections, autoimmune, inflammations in general, <b>endocrinopathies (thyroid - especially people that received radiation in the head/neck region),</b> medications.</li> <li>- Pancytopenia: Acute is very different than chronic! Unifying cause: bone marrow suppression (cell line production issue - infections, inflammation, malignancy, vitamin deficiency, medication) vs multiple causes DIC + marrow suppression. Is a bone marrow biopsy necessary?</li> <li>- <b>Ovalocytes:</b> fairly non-specific</li> <li>- <b>Teardrop cells</b> - blood cells being forced out the bone marrow - primary hematologic malignancy, metastatic solid tumor (prostate, e.g.), infiltrative diseases.</li> <li>- Lack of blasts - less likely to be leukemia, but it can be ruled out yet.</li> <li>- Non-diagnostic bone marrow bx: two possibilities -&gt; Missed the marrow vs dry tap (no component to grab in the aspiration - myelofibrosis, fibrotic progression of myeloproliferative diseases). Soft marrow - multiple myeloma (thrombocytopenia is not very common in this scenario).</li> <li>- Second bone marrow bx: assess images first to see if there is other structure to biopsy (organomegaly, lymph nodes).</li> <li>- Lymphoproliferative disorders: B cells proliferating Is this the cause or there is something else going on?</li> <li>- APML: dangerous and treatable. Most commonly associated with DIC (brain bleed - treated supportively), <b>susceptible to target therapy (derivative of vitamin A)! Diagnose and treat ASAP - watch closely to avoid consequences of dz &amp; tx!</b></li> </ul>