



# 02/9/21 Neuro Morning Report with @CPSolvers



Case Presenter: Kiara Camacho (@KiaraCamacho96) Case Discussants: Felipe Solares (@FelipeSolares) and Leonardo Fuchs (@LeonardoAFuchs)

<p><b>CC:</b> Neck Pain</p> <p><b>HPI:</b> 70yM started 1m ago w/sporadic but <b>intense headaches</b> associated w/neck pain.</p> <p><u>36h before admission</u> was typing on computer and was unable to localize keyboards. He felt the keyboard was lower than what he saw. He stood up, <b>lost balance</b> towards the left. This resolved spontaneously.</p> <p>On same day, while watching TV had neck pain which radiated to L side of head, associated w/ nausea, SOB (shortness of breath) and cough. Stood up and felt towards the left. Went to closest ED.</p>	<p><b>Vitals:</b> T: HR: BP: RR: SpO<sub>2</sub>:</p> <p><b>Exam:</b></p> <p><b>Systemic:</b> Had hiccups.</p> <p><b>Neuro</b></p> <ul style="list-style-type: none"> <li>- <b>Mental Status:</b></li> <li>- <b>Cranial Nerves:</b> Facial symmetry w/sensory impairment on the L. Swallowing impairment. Gag reflex not present.</li> <li>- <b>Motor:</b> Strength L %, R 5/5. Unsure if L hemiparesis vs ataxia.</li> <li>- <b>Reflexes:</b></li> <li>- <b>Sensory:</b> R hypoesthesia.</li> <li>- <b>Cerebellar:</b> Horizontal nystagmus when face was pointing to left. Dysmetria - finger to nose test abnl.</li> <li>- <b>Other:</b></li> </ul>	<p><b>Problem Representation:</b> 70yM w/PMHx significant for DM and HTN p/w a new onset headache associated with neck pain recently aggravated w/loss of balance and dysmetria.</p>
<p><b>PMH:</b> DM, HTN.</p> <p><b>Fam Hx:</b></p> <p><b>Soc Hx:</b> Peruvian. Lawyer.</p> <p><b>Meds:</b></p> <p><b>Health-Related Behaviors:</b></p> <p><b>Allergies:</b></p>	<p><b>Notable Labs &amp; Imaging:</b></p> <p><b>Imaging:</b></p> <p>CT brain <b>no contrast:</b> acute ischemic infarct on L cerebellar hemisphere and L temporal lobe, R pons paramedian had hyperdensity.</p> <p>Brain MRI: Left posterolateral acute ischemic event in cerebellar hemisphere.</p> <p>Further interrogation: 2m ago he was feeling stressed. Patient used topical NSAID daily.</p> <p>CT <b>angio:</b> extracranial and intracranial vertebral dissection w/PICA thrombi.</p> <p><b>Final DX:</b> <u>Lateral medullary syndrome secondary to vertebral artery dissection.</u></p>	<p><b>Teaching Points (Maria): #EndNeurophobia</b></p> <ul style="list-style-type: none"> <li>● <b>E=MC2 Neck Pain:</b> <ul style="list-style-type: none"> <li>- <b>Localizing:</b> muscle → tension headaches, bone, cervical arteries, meninges (intra/extradural), spinal cord (intra/extramedullary).</li> <li>- <b>Tempo:</b> Hyperacute: trauma, vascular, seizure, migraines. Acute: inflammatory, infection. Subacute: Infectious. Chronic: structural.</li> <li>- <b>Acute on Chronic:</b> critical point of a mass - compression, vascular event. (Most prone brain tumor to hemorrhage: melanoma, most common to hemorrhage: lung.) Vascular event 2ndary to infectious vasculitis, vasculitis (GCA)</li> <li>- <b>TB:</b> tuberculoma, Pott's disease, meningitis/arachnoiditis.</li> </ul> </li> <li>● <b>Headaches</b> <ul style="list-style-type: none"> <li>- Primary (migraine, tension, cluster) vs Secondary HA</li> <li>- <b>Red flags:</b> new onset HA, age (Giant cell arteritis, don't want to miss in new HA in older patients even w/out other signs), sensory/motor abnormalities, changes in preexistent HA, immunosuppression, increased ICP (brain, blood, CSF).</li> </ul> </li> <li>● <b>Cerebellum</b> <ul style="list-style-type: none"> <li>- <b>Balance:</b> Central vs Peripheral Vertigo (HiNTS) vs Proprioception vs Sensory Abnl vs Environment.</li> <li>- <b>Ataxia:</b> sensory vs cerebellar (truncal (vermis) vs extremities (hemispheres))</li> <li>- Cross signs: ipsilateral face, contralateral body.</li> <li>- <b>+ Brainstem findings:</b> <ul style="list-style-type: none"> <li>- Swallowing, CN 9-10 → medulla.</li> <li>- Midline brainstem: 3,4,6,12, CSP tract, medial lemniscus, MLF.</li> <li>- Trigeminal has all 3 levels of brainstem in <u>lateral</u> brainstem (PICA ← vertebral artery).</li> </ul> </li> </ul> </li> </ul>