



# 04/20/21 Neuro Morning Report with @CPSolvers

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<p><b>CC:</b> Impairment of speech</p> <p><b>HPI:</b> 48F p/w inability to speak, suddenly started 1 day ago. She can comprehend questions, but is unable to produce any sound, just moving her head to say “yes” or “no”</p> <p>Her sister reports that she has been experiencing a new headache that started 2 weeks ago that prompted her to visit the ED 3x in the last 2 weeks where she was Tx w/ muscle relaxants and analgesics w/ no improvement. The day prior to admission, she had a sudden worsening of headache, stopped talking. No nausea, vomiting, photophobia, phonobia.</p> <p>She has never had a headache previously. No fever, wt loss, or previous infection</p>	<p><b>Vitals:</b> T: 36.5 HR: 106 BP: 125/60 RR: 14 SpO<sub>2</sub>: 96</p> <p><b>Exam:</b>  <b>Systemic</b> - well appearing  <b>Neuro</b> No papilledema  - <b>Mental Status:</b> Oriented  - <b>Cranial Nerves:</b> Intact  - <b>Motor:</b> No FND  - <b>Reflexes:</b> No deficit  - <b>Sensory:</b> No deficit  - <b>Cerebellar:</b> No deficit  - <b>Other:</b> Unable to read, repeat, speak, able to comprehend, able to write first name only, no meningeal signs</p>	<p><b>Problem Representation:</b> Middle aged female Tx OCP w/ family history of thromboembolic dz p/w sudden worsening of subacute headache and inability to speak and repeat w/ intact comprehension</p>
<p><b>PMH:</b> MDD</p> <p><b>Meds:</b> OCP</p> <p><b>Fam Hx:</b> Sister- PE and DVT Brother - hemorrhagic stroke Mother - history of mesenteric thrombosis</p> <p><b>Soc Hx:</b> Nothing significant</p> <p><b>Health-Related Behaviors:</b> Smokes - stopped 10 years ago No alcohol use</p> <p><b>Allergies:</b> No known allergies</p>	<p><b>Notable Labs &amp; Imaging:</b>  <b>Hematology:</b> Nothing significant  <b>Chemistry:</b> Nothing significant  HIV and syphilis serologies negative</p> <p><b>Imaging:</b>  CT brain: hypodensity L fronto-parietal region a/w a small area of hyperdensity (bleeding)  CT venous contrast: Extensive thrombosis jugular vein, sigmoid sinus, transverse sinus in the L  CT arteriogram contrast: normal  MRI: extensive acute thrombosis of IVJ, sigmoid sinus, L transversus sinus  Antithrombin, protein C and S, factor V of Leiden, homocysteinemia, lupus anticoagulant, anticardiolipin, and anti-beta2 glycoprotein-I: normal</p> <p><b>Dx:</b> Cerebral venous sinus thrombosis 2 to intracranial hemorrhage d/t family history + OCP</p>	<p><b>Teaching Points (Rafa): #EndNeurophobia</b></p> <ul style="list-style-type: none"> <li>● <b>IMPAIRED SPEECH</b>  Language cognitive dysfunction (aphasia) / language motor component dysfunction (dysarthria)  <u>Time course:</u> Sudden/Acute (stroke)/Chronic (neurodegenerative disorder - AD)  <b>Aphasia</b> - dominant hemisphere - mostly of the L if R-handed  <b>Wernicke aphasia</b> (sensory / fluent aphasia) - superior temporal gyrus  Receptive aphasia - well-articulated, nonsensical speech paired with a lack of language comprehension - individuals are not aware!  <b>Broca aphasia</b> (motor / nonfluent aphasia - inferior frontal gyrus  Patients communicate meaningfully, but their speech is slow and may be punctuated by pauses in between words as the patient attempts to verbalize each one  Individuals are often frustrated: aware of their expressive language dysfunction  <b>Dysarthria</b> : problem with speech motor component  Many areas above spinal cord could be affected - eg, CN, cerebellum</li> <li>● <b>HYPERCOAGULABLE STATE</b>  Predisposition to arterial / venous thrombosis  Homocystinuria, protein C/S deficiency, AT III deficiency, antiphospholipid syndrome, prothrombin gene deficiency  Pregnancy, contraceptive use, neoplasia, nephrotic syndrome</li> <li>● <b>CAVERNOUS SINUS</b>  Collection or venous sinuses on either side of the pituitary  CN III, IV, V1, V2, VI  Etiologies: carotid-cavernous fistula, cavernous sinus thrombosis, pituitary tumor mass effect</li> <li>● <b>HEADACHE</b>  Primary (cluster / migraine / tension) or secondary causes (2 to thrombosis)</li> </ul>