

6/22/22 Morning Report with @CPSolvers

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<p>CC: Difficulty walking</p> <p>HPI: 35F with history of polysubstance use disorder and recent MVA presenting to the ED with two days of difficulty walking, difficulty urinating, lower extremity weakness and paresthesias.</p> <p>In addition, she has been having multiple falls.</p>	<p>Vitals: T: 36.5 HR: 90 BP: 107/74 RR: SpO₂: 99% RA</p> <p>Exam: Normal</p> <p>Neuro: strength: 3/5 in UE, 4/5 in LE. Diminished sensation to light touch, pinprick, and proprioception in bilateral lower extremities. Upper extremity reflexes normal. Diminished patella and achilles with upward babinski reflexes.</p>	<p>Problem Representation: 35-year-old female with past medical history of polysubstance abuse and MVA 2 weeks prior presents with difficulty walking, diminished reflexes and diminished proprioception in B/L LE with MRI showing subacute combined degeneration of the spinal cord and labs showed a macrocytic anemia leading to evaluation of B12 levels that were low and an elevated homocysteine level.</p>
<p>PMH: Polysubstance Use Disorder</p> <p>Meds:</p>	<p>Notable Labs & Imaging:</p> <p>Hematology: WBC: 3.6 Hg: 10.9 Hct: 33.4 MCV: 102 PLT: 196</p> <p>Chemistry: Normal</p> <p>Imaging: MRI Spinal Cord: No fracture, no lesion causing cord compression. Abnormal cord hyperintensity within the dorsal cervical spinal cord.</p> <p>Additional Substance Use History: Frequent inhalant use, including Nitrous Oxide</p> <p>Final Dx: Rapid-onset B12 deficiency from Nitrous Oxide Inhalation</p>	<p>Teaching Points (Ravi):</p> <ul style="list-style-type: none"> - MVA: Wearing a seatbelt? High speed trauma, Abdominal injuries? - Difficulty walking- ? spinal cord injuries? Bowel incontinence. - Neuraxis/ Spinal cord - cord compression, vertebral cord compression, spinal abscess, hematoma, muscle injuries (trauma survey) - Neuro problem? localize it - localization to spinal cord - Motor + sensory—> Spinal cord (combination of myelopathy + Sensory changes +/- autonomic changes) - Features - don't fit with myelopathy: Sign of UMN- hyperreflexia? Compatible with myelopathy? Early phase of spinal process- myelitis or infarct or injury- can be areflexia or hyporeflexia. Takes days to set in - U and L E weakness- makes spinal cord more likely. - ? Compressive vs non-compressive myelopathy? musculoskeletal fx, hematomas or non muscular like infectious spondylitis or epidural abscess. - Substance use disorder - ? substances. Don't want to anchor on this. - Non compressive- transverse myelitis, autoimmune process. Infarct of spinal cord. - Anemia- MCV elevated? megaloblastic or non-megaloblastic. - Hematomas- ? Don't need to lose much blood (anemia) - Non-meg anemia- alcohol, thyroid. Meg anemia- B12 can have neuro manifestations or copper. Drugs like MTX can cause macrocytosis. - Imaging: shows no cord compression. - What are things causing dorsal cord process: Signature of nutritional deficiency B12. - Whippets: Can cause rapidly progressive B12 deficiency - B12 causes myeloneuropathy/Dorsal column pathology via demyelination
	<p>Fam Hx:</p> <p>Soc Hx:</p> <p>Health-Related Behaviors:</p> <p>Allergies:</p>	