

03/31/25 Morning Report with @CPSolvers

"One life, so many dreams" Case Presenter: Sarah Blaine (@sarahkblaine) Case Discussants: Dr. Helen Shi (@) and Gerardo (@gerarlunap)

Scribe (Bayan) CC: 60M complaining of headache and double vision. HPI: 10d ago, woke up from sleep by frontal headache unresponsive to OTC meds. Presented to ER and discharged for conservative treatment. 1 day ago, had another frontal headache but w/ double vision worse on right gaze. Has history of headaches worse at night but w/o double vision, usually responsive to OTC meds. ROS: unremarkable	Vitals: T: 36.7C (98.1F) BP: 184/78 RR: 15 HR: 63 Sat: 95% Exam: Gen: not in acute distress HEENT: normal Neuro: AOx4. severe abduction deficit in right eye. Otherwise unremarkable (no aphasia, reflexes, motor and sensory all intact). Ophthalmology exam and Fundoscopy: nl MSK: right BKA, bilateral LE edema.	Problem Representation: 60M k/c of osteosarcoma with Rt BKA presenting with frontal headaches that wake him from sleep now complicated by double vision.
PMH: osteosarcoma and Rt BKA, HTN hyperlipidemia, GERD, occasional headaches Meds: acetaminophen for headache, omeprazole and cetirizine for GERD, atorvastatin, daily aspirin	Fam Hx: Diabetes, CAD, renal and prostate cancer in his father Soc Hx: 15.6 pack/year smoking history. No alcohol consumption. Retired police officer. Health-Related Behaviors: Allergies: NKDA	Teaching Points (Ethan): / Headache: onset, intensity, associated symptoms / Diplopia: first differentiate binocular vs monocular. Monocular: usually refractive error, or cortical diplopia Binocular (when cover the eye the diplopia will disappear): means ocular misalignment (may be exam negative) -> CN III/IV/VI, NMJ, ocular muscle / Osteosarcoma hx -> consider leptomeningeal metastasis and elevated ICP / Important to do a detailed neurologic exam / Family hx of cancer: consider genetic conditions that predispose to cancers (eg, li-Fraumeni) / Facial nucleus (in dorsal pons): CN6 + CN7 / Course of CN6 -> lateral rectus muscle: pons -> Dorello's canal (in subarachnoid space) -> cavernous sinus (thrombus, fistula, granulomatous inflammation, ICA problem, tumor, pituitary tumor invasion) -> superior orbital fissure, then innervate the muscle / Fundoscopy (-): less likely to be IICP / CT: look for obvious structural problem (hydrocephalus, hemorrhage, space-occupying lesion, stroke) / MRI: important to include a venogram to not miss cavernous sinus problem / Low cortisol -> consider primary/secondary adrenal insufficiency -> cavernous sinus is just adjacent to the pituitary gland. A detail visual field exam may reveal bitemporal hemianopia if localization is pituitary gland.

