

11/09/23 Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Dr. Parimala Case Discussants: Rabih (@rabihmgeha) and Maryana (@maryanamribeiro)

CC: Jerky movements

HPI: 72 y/o male presented w/ 2 days of jerky movements in RUL for 3-4 ep/day, followed by heaviness and weakness of RUL (unable to grip anything w/ R hand). He also had new onset of dragging of his RLL. Hx of Mild headache.

H/o fall on the face and nose bleed at the hospital; discharged w/ anticoagulants + antiepileptics
He came back to the hospital 2 days later with fever (100F), nausea and multiple seizures followed by postictal drowsiness and weakness of right upper and lower limbs and impaired speech and difficulty breathing.MRI: A well circumscribed intra-axial mass lesion in the left postcentral gyrus with peripheral contrast enhancement. Minimal bleed within the lesion. EEG showed - multiple electrographic seizures, left centroparietal slowing and LPDs.

Repeat MRI 2 days later showed increase in size of the lesion and increased blood products within the lesion. Contrast enhancement was minimal in the lesion margins.

PET-scan: increased FDG uptake in the margins of the intracranial lesion; incidental lesion on RLL

PMH: DM

Profuse nasal bleed on 2nd admission, hx of multiple episodes of epistaxis(alt. days), family hx of epistaxis, AVMs in GI

Meds:Aspirin 300 mg, Rosuvastatin 40mg (usual dose 20 mg), anti-seizure meds, anti-diabetics Social Hx: works in insurance, no h/o smoking or alcohol use; from India

Travel Hx: unknown Allergies: none

Vitals: T: 100F HR: 80 BP: 147/68 RR: 16 SpO2: 89% on RA

General random blood sugar (GRBS): 240
Exam: HEENT: mild b/l exophthalmos

CVS: wnl; Pulm: b/l fine crepts; Abd: Soft, non-tender Neuro: drowsy but arousable, confused but obeying commands, Comprehension is mildly impaired with slow speech and word finding difficulty (pausing and searching for words); paraphasias, decreased fluency, repetition preserved, pupillary response normal, mild R horizontal gaze restriction, no nystagmus

Motor exam: Right LL 3-4/5, Right UL 4/5, Left UL and LL 5/5;

Mild Right UL apraxia and ataxia
Sensory + Cerebellar normal

Notable Labs & Imaging:

Hematology: WBC: 25.5 k; ESR: 100 TSH: 1.3 Urea: 35

Chemistry:

Na: 127 Ca:7.3 Phos: 3.2

Continuous overnight EEG: no new seizures

Imaging:

CT Brain: no inc. in size from 2 days ago
CXR: increased bronchovascular markings

Repeat MRI:

Left side parietal lesion with diffusion restriction and blood products with subdural collection both of which have increased since previous MRI scan. Lesion shows ring pattern enhancement with adjacent leptomeningeal enhancement. Mass effect + there were a few tiny areas of DWI restriction (?embolic infarcts) in the R cerebral hemisphere.

CTPA: AVM

Dx: L Parietal abscess w/ frontotemporal empyema and R lung middle segment AVM & Hereditary Hemorrhagic Telangiectasia

Problem Representation: 72 y/o male with PMH of DM, on Rosuvastatin and Aspirin, presents with 2 days of jerky movts., impaired speech, difficulty moving R limb, fever, hypoxia and a central brain mass on MRI w/minimal enhancement.

Teaching Points (Jia):

- Jerky movement
- 1) R/O sacred things first (like strokes), and then think about common things
- 2) More info: Characteristics (mobilize across the joint helps to differentiate from tremor), time course (acute/chronic), associated sx (neurological dysfunction)
- 3) Possible etiology: seizure/myoclonic/dystonia, often with sustained Sx /movement abnormality
- Jerky + focal neurological Sx

Brain mass - Does the Sx map with findings?

Differential of brain mass: Tumor (CNS vs metastasis), infection-abscess, autoimmune disease (demyling disease), subacute ischemic stroke (location, risk factors)

- +fever and lung lesion in this case: Cancer with complication, IE, lung/brain abscess, other possibility?
- Exophthalmos (Space-occupying disease!)

Begin cause (Graves disease, especially in old people, glycosaminoglycans accumulation), cancer, infection, trauma (orbital hematoma)

Gaze restriction! Space occupying disease or neuromuscular cause?

- +orbital finding in this case: Does the brain process involve the cavernous sinus (infection, thrombosis)?
- Infection (quicker evolution, +WBC, +emboli findings in MRI) vs malignancy Where: lung, shower of emboli (endovascular source: marantic, infection)
- Epistaxis

Irritation from cortisol and dry air; fragile vascular (vasculitis, old people)
Low Saturation + nose bleeding (vessel clues) + lung lesion

HHT (hereditary hemorrhagic telangiectasia)!!!: AD, unique feature: recurrent epistaxis; AVM impairs the lung function in cleaning bugs leads to brain abscess (infection enter through a vascular way)

More Info: History of epistaxis (all season, very often, family history) + AVM in lips and hands in PE