

## 01/23/24 Neuro Morning Report with @CPSolvers



"One life, so many dreams" Case Presenter: Kuchal Agadi (@Agadi Kuchal) Case Discussants: Tansu Eris (@drtansue) and Gerardo Luna (@gerarlunap)

CC: Unable to grasp objects.

HPI: 9yo M, couldn't grasp objects on both hands. Apparently normal 2 days ago, then he found it difficult to hold his pencil during a test. 1 day ago had to skip cricket practice bc he could not hold his bat. Since morning dropped everything at home and had to be helped with ADLs such as bathing. Parents report slurred speech.

ROS: no double vision, weakness, HA, N&V, incontinence, difficult breathing. Developmental milestones normal.

Fam Hx:

DM.

Soc Hx:

Sister - migraines

Grandmother -

Cricket player.

**Health-Related** 

Behaviors:

Allergies:

## PMH:

Recurrent sore throats. Had tonsillectomy + adenoidectomy 2y ago.

Meds:

Vitals: T: HR: 100 BP: 100/70 RR: 16 SpO2 98% RA

Exam:

Gen: HEENT normal. Cardiac murmur.

Mental Status: Conscious, oriented x3. Cranial Nerves: Occasional dysarthria.

Motor: Involuntary movements of both hands present happening throughout consult (Michael Jackson's

moonwalk-ish). UL 4/5 LL 4/5. Milkmaid positive. Pronator drift.

Reflexes: Normal. Except for pendular knee jerk.

Sensory: Intact

Cerebellar: F-N normal, K-H Test normal, No

dvsdiadochokinesia.

Other:

Next day had unstable gait and emotional lability. Rash on extremities were noted (mosquito bites).

## Notable Labs & Imaging:

CBC: Hb 10. Plt 150k WBC? N 78% L 18

ESR: 75, CRP 35

ECG nl. CXR: nl. Echo: mitral stenosis.

CTH: normal.

MRI brain: hyperintense lesions in basal ganglia.

ANA: neg. TSH: nl.

ASO titers high. Anti DNAse B positive. Throat swab: GSA

positive.

Dx: Sydenham Chorea - Rheumatic fever.

Problem Representation: A 9 y/o m w/ acute onset bilateral grasping difficulty, involuntary hand movts, and slurred speech, emotional lability and rash on extremities w/ PMH notable for recurrent sore throats, s/p tonsillectomy and adenoidectomy, MRI revealed hyperintense lesions in basal ganglia and echo showed MS.

Localization: CNS. Movement disorder characterized as chorea.

## Teaching Points #EndNeurophobia (Umbish):

- Anatomical localisation,, timecourse, umn vs lmn, central vs peripheral, symmetric vs asymmetric
- ASK questions: onset, duration, progression, associations, recent trauma or illness, family hx, vaccinations
- Slurred speech- Aphasia vs dysarthria, cortical vs cerebellum vs
- Hand muscle exam, finger-nose test, neurological assessment, ataxia
- Austin> The mnemonic **DANISH** is a helpful way of remembering the important points to cover in a cerebellar examination:
  - \* Dvsdiadochokinesia.
  - \* Ataxia (gait and posture)
  - \* Nystagmus.
  - \* Intention tremor.
  - \* Slurred, staccato speech (really enunciate syllables, have sort of robotic flow of words, sometimes people describe it as sounding drunk)
  - \* Hypotonia/heel-shin
- DDx: Pediatric Autoimmune Neuropsychiatric Disorders Associated with Streptococcal infections (PANDAS), GBS, primary tumors, cerebellar pathology, Schmahmann's syndrome, Rheumatic fever
- ASO titers, treat the strep throat, steroids
- Diagnosis of rheumatic fever is clinical- Revised jones criteria
- Chorea starts 8-12 weeks after infection! More common in females!