Neuromyelitis Optica (NMO, NMOSD)

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Abstract

Introduction: Neuromyelitis optica (NMO; Devic’s disease) is an aggressive inflammatory disorder characterized by recurrent attacks of ON and myelitis; the more inclusive term NMO Spectrum Disorder (NMOSD) has been proposed to incorporate individuals with partial forms, and also those with involvement of additional structures in the central nervous system. This was a rare case which was diagnosed after 7 years while the patient has follow up at different health facility and different investigation in different times. She was treated initially as a case of Transverse myelitis and other diagnosis previously until its diagnosis.

Case report: Decrease vision of left eye. For this she was seen at ophthalmologic clinic and was given prednisolone. She claims she regained her left eye vision.. Currently she presented with 4 days history of bilateral lower extremity weakness. Initially had paresthesia of lower extremities later lost sensation below her nipple line. Inability of urinating and passing stool of the same duration. She developed cough, SOB and HGIF in our hospital. She is a known HTN for the past 18 years on medication.

Physical Examination: G/A: conscious, alert and well communicative V/S: with in normal range. LGS: no LAP INT/MSS: No rash PR: lax anal tone CNS: conscious, oriented to time place and person. GCS: 15/15 both short and long memory intact. Symmetrical muscle bulk, no fasciculation. Power =0/5 on bilateral lower extremity and 5/5 on both upper extremity. Tone is hypotonic on both lower extremities and norm tonic on both upper extremity. Reflex is ¼ in both ankle and knee bilaterally. Sensory level is T4. Finger to nose test normal. Rapid alternating movement – intact Investigation-CSF Analysis-No cell, Glucose=82.4, Protein=24.8, Gram stain= negative. BRAIN MRI (Taken 7 YEARS BACK)= normal. Brain MRI (taken 4 months back)= Few punctate T2/FLAIR hyper intense lesion with in deep white matter of frontal and parietal lobe left paretotemporal volume loss 2 to ??. Recent spinal MRI: Expandable long segment T1hypointense, T2 and STIR heterogeneously hyper intense lesion extending from C3 to lower thoracic vertebra. No contrast enhancement Electromyography-Pattern reversal visual evoked potential (PRVEP) was done. The P100 latency was well formed bilaterally. The P100 latency is prolonged (>100ms), more on the right side. Bilateral (severe on Rt) anterior visual pathway dysfunction (demyelinating pathophysiology). Otherwise No vomiting, no episodes of Hiccups. No Hx of nasal congestion, runny nose, diarrhea or vaccination preceding presentation. No Hx of easy fatigability. No change in mentation and no ABM.

Discussion: Because of this case we try to see and explain some of the uncommon differentials which have similar manifestations like NMOSD. Example Multiple sclerosis (MS), Acute disseminated encephalomalitis (ADEM), Subacute combined neuro degeneration, Neurosarcoidosis. We try to see some of the literature reviews and the diagnosis of this patient was very difficult since there are no antibody detections here, late presentations, bilateral optic neuropathy and it is relapsing type on her history. Even its extensive longitudinal involvement of the spinal cord, her age and normal CSF was really controversial. What I understand from this case is multidisciplinary team involvement and presence of adequate investigation modalities is really important. Besides that its presentation involves both usual and unusual features.

Biography:

Rodas Asrat is currently working in the St. Paul’s Hospital Millennium Medical College, Ethiopia.

Speaker Publications:


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