Interesting Case Discussion: Management in Vascular Related Epilepsy

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Chief Complain

▶ Frequent staring with transient memory loss

Present Illness

When he was 28 years old, his wife witnessed he had whole body stiffening and jerking in the middle of night. She took him to the regional hospital and he was admitted for 2 days. After that he was discharged without any antiepileptic drugs.

Patient History

► A man, 35 years old ► Handedness: Right

► Hometown: Chumpon

Education: Diploma from vocational collegeOccupation: Owner of construction company

Present Illness (cont.)

- ▶ Later on he met the doctor at the clinic where he had got first AED. He had a good response to AED at the first 6 years of treatment, his seizure frequency around 3-4/year. Sometimes, his wife witnessed he had lip smacking during that event without awareness.
- ▶ His seizure frequency tended to increase in the year 2015, someday he had twice seizures a day. Totally 8-9 seizures a month. So he came to PNI for seizure control.

Past History

- ▶ He had history of febrile convulsion once in a lifetime, but he had normal development and did not received AED
- ▶ No other family member had epilepsy
- ▶ No history of perinatal insults
- ▶ No other epilepsy risk factors

Physical Examination

► He had no any neurological deficits.

Neuropsychological Test

- ▶ WAIS-IV test
- ▶ Verbal Comprehension
 ▶ Perceptual Reasoning
 ▶ Working Memory
 ▶ Processing Speed
 ▶ Full Scale IQ
 ९ Low Average
 ▶ Full Scale IQ
 ▶ Average

Seizure Frequency

▶ 8-9 times per month

Anti-Epileptic Drugs

- ▶ Valproic acid → Hepatitis
- ► Carbamazepine 600 mg a day
- ▶ Levetiracetam 2000 mg a day
- ▶ Phenobarbital 120 mg a day

Neuropsychological Test

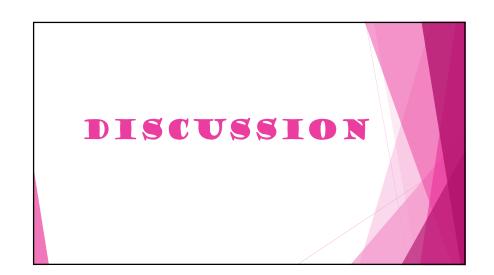
- ▶ WMS-III test
 - ► Auditory Immediate 83 Low Average ▶ Visual Immediate 94 Average ▶ Immediate Memory Low Average ► Auditory Delayed 92 Average ► Visual Delayed Low Average ► Auditory Recognition Delayed 90 Average ▶ General Memory 89 Low Average ▶ Working Memory 102 Average

Surgical Procedure

- ▶ Performed date: February, 27th 2015
 - ► Left temporal craniotomy with left temporal tip resection and lesionectomy of carvenoma

Surgical Outcome

► Engel I



Interictal EEG

► No Interictal Epileptiform Discharge (IED)

Clinical Seizure and Ictal EEG

▶ There were 9 clinical and EEG seizures recorded.