

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 anti-epileptic drugs.

Patient History

- ▶ A man, 35 years old
- ▶ Handedness: Right
- ▶ Hometown: Chumpon
- ▶ Education: Diploma from vocational college
- ▶ Occupation: 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	83	Low Average
▶ Perceptual Reasoning	107	Average
▶ Working Memory	89	Low Average
▶ Processing Speed	89	Low Average
▶ Full Scale IQ	91	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	89	Low Average
▶ Auditory Delayed	92	Average
▶ Visual Delayed	84	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

DISCUSSION

Interictal EEG

- ▶ No Interictal Epileptiform Discharge (IED)

Clinical Seizure and Ictal EEG

- ▶ There were 9 clinical and EEG seizures recorded.