

CIAN

PRIMER CURSO INTERAMERICANO DE
ACTUALIZACIÓN EN NEUROLOGÍA



Advances in Diagnosis, Neurobiology, and Treatment of Neurological Disorders

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Disclosures

- Dr. Delgado-Escueta has no disclosures to report.



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Clinical Dialogue with the Epilepsy Experts



Learning Objective 1

Differentiate epileptic from non-epileptic seizures to render early, effective care.

Case 1

- 28 year-old right-handed male
- Accompanied by his mother to the EMU for intracranial grid and strip placements in R frontal lobe.
- No febrile seizures
- No risk factors
- Story starts when he was 6 years old
 - In the middle of a soccer game, he stopped running, had a blank stare, dropped the ball, screamed, vocalized, still standing, started kicking motions, then fell and convulsed.

Case 1

- In the middle of sleep, he suddenly wakes up with extreme fear, feeling hot, sweaty, pupils dilate, gets out of bed and runs
- Outside the house, he would fall and convulse
- Postictal confusion for 15-20 minutes
- Seizure frequency 2/day to 10/day
- Past medical history, family history, birth history
 - Non-contributory
 - General and neurological exam not lateralizing or focalizing

Case 1- Answer

- Seizure similar to that described by Bancaud et al., 1976 and Mazars, 1969, 1970
- CT – Normal
- MRI – venous angioma, right cingulate gyrus
- PET – normal
- SPECT – hyper blood flow right cingulate gyrus
- FIQ 93, VIQ 100, PIQ 88

Bancaud J, et al. *Rev Neurol (Paris)*. 1976;132(10):705-724; Mazars G. *Epilepsia*. 1970;11(1):41-47; Mazars G, et al. *Rev Stomatol Chir Maxillofac*. 1969;70(7):536-543.

Case 1 – Phase 1

- Phase 1 – EMU
 - 8 seizures with generalized bilateral 3-5 Hz rhythmic spikes phase reversing at F2 as he gets out of bed and gets to the door, trying to leave the room
- Neuropsychometric testing: localizes to right frontal lobe
- Stereo-EEG:
 - Right & left amygdala, entorhinal cortex, anterior hippocampus, anterior cingulate, posterior cingulate, middle cingulate
 - Fast frequencies 20-30 Hz recording points 5, 6, 7 of anterior cingulate electrodes precede seizures by 1-1/2 sec in 12 seizures.



**Questions &
Answers**

Video example

- On the next few pages insert each of the 4-5 other videos not included in the earlier presentation:
 1. Valentine Weigl Grid 0605
 2. Valentine Weigl Grid 0514
 3. Test change VW by WMP
 4. WWII Sz 6-19-96 at 0722

