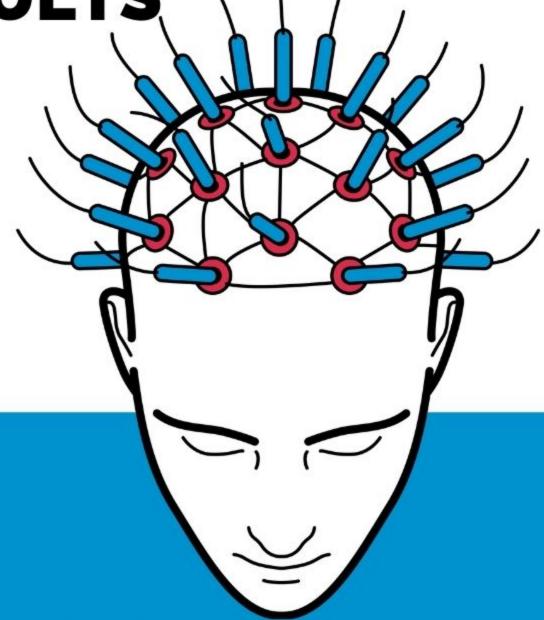


## EEG IN THE DIAGNOSIS AND MONITORING OF EPILEPSY IN ADULTS \ \ \ \ \ \ \ ,



Yamile Calle-López MD

Neurology Department, Fundación Clínica del Norte-Neuroclínica-University of Antioquia, Medellín, Colombia



## CLINICAL UTILITY OF EEG IN **EPILEPSY**

.Electroencephalography (EEG) is an essential tool in the

Standard scalp EEG represents contribute to the but records only one-third of presurgical evaluation. the cerebral cortex.

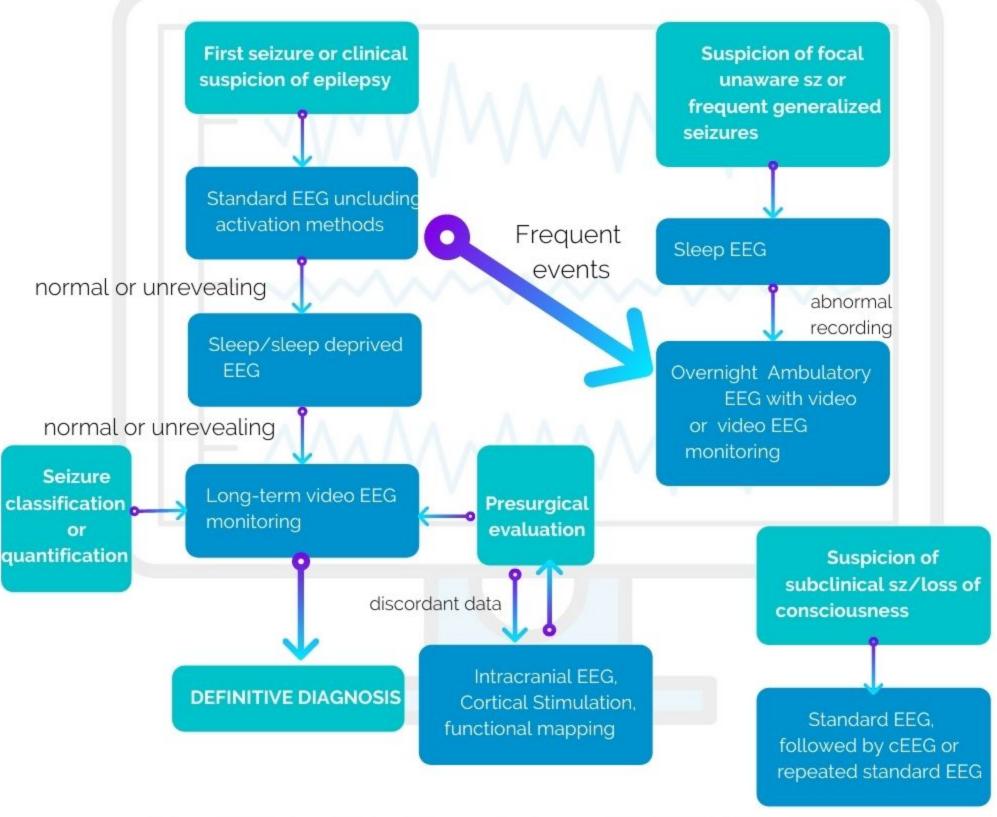
A standardized protocol for special care units can quantify reproducibility from management ensure one recording to another.

Abnormal EEGs containing interictal epileptiform evaluation and management discharges (IEDs) help classify of People with Epilepsy (PWE). seizures and identify epilepsy syndromes. Seizures epilepsy combined electrical diagnosis and the electroactivity of billions of neurons, anatomo-clinical correlation in

Continuous EEG (cEEG) (including activation clinical/subclinical seizures for procedures) should be used to diagnosis and assist in the of seizure emergencies, including status epilepticus.



## **CLINICAL UTILITY OF EEG**



Tatum W.O et al. Clinical Neurophysiology 129 (2018) 1056–1082



## **TAKE-HOME MESSAGES**

- The presence of IEDs in a standard EEG predicts a high risk of recurrence following a first seizure
- The presence of IEDs in a standard EEG in patients with controlled epilepsy may predict a higher risk of seizure relapse following Antiseizure Drugs (ASD) taper
- EEG helps classify seizure type (focal or generalized) when IEDs are encountered in the recording
- Video-EEG monitoring can provide a definitive diagnosis in most PWE when seizures are recorded
- Video-EEG monitoring is useful in an epilepsy surgery evaluation
- cEEG monitoring is a useful adjunct to diagnosing and quantifying seizures, especially in critically ill patients