

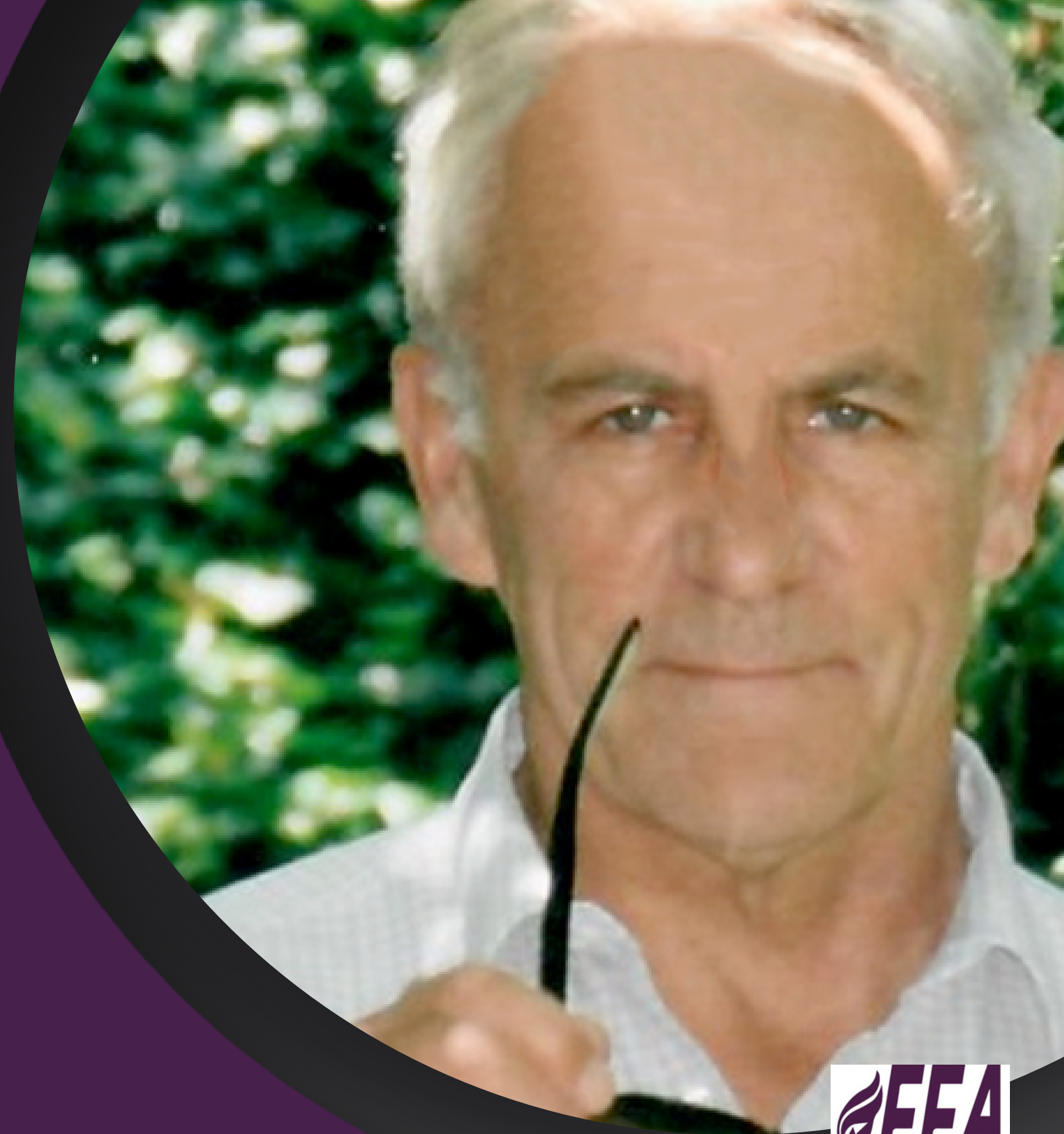
VAD AGM, June 19, 2021

Epilepsy, How To Adjust To This Disability

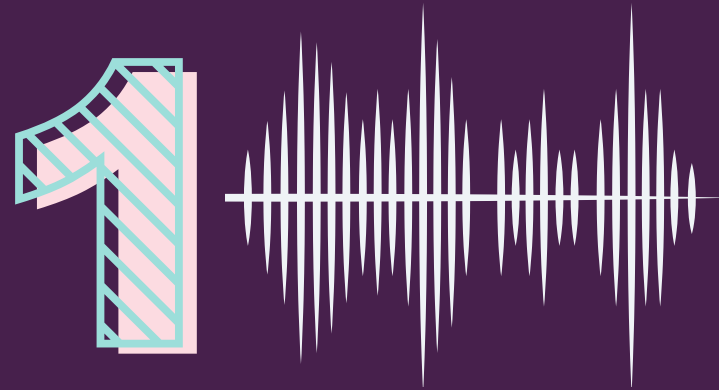
Dr. E. Starreveld, MD



Dr. Starreveld, MD



Overview



Jim's Story

The Brain

What is Epilepsy?

What are Seizures?

Main Types of Epilepsy



Seizure Triggers

Frequency of Seizures

Open Surgery vs Laser-Surgery

Oscar, Booklets and EEA

Jim's Story

Discovering the source

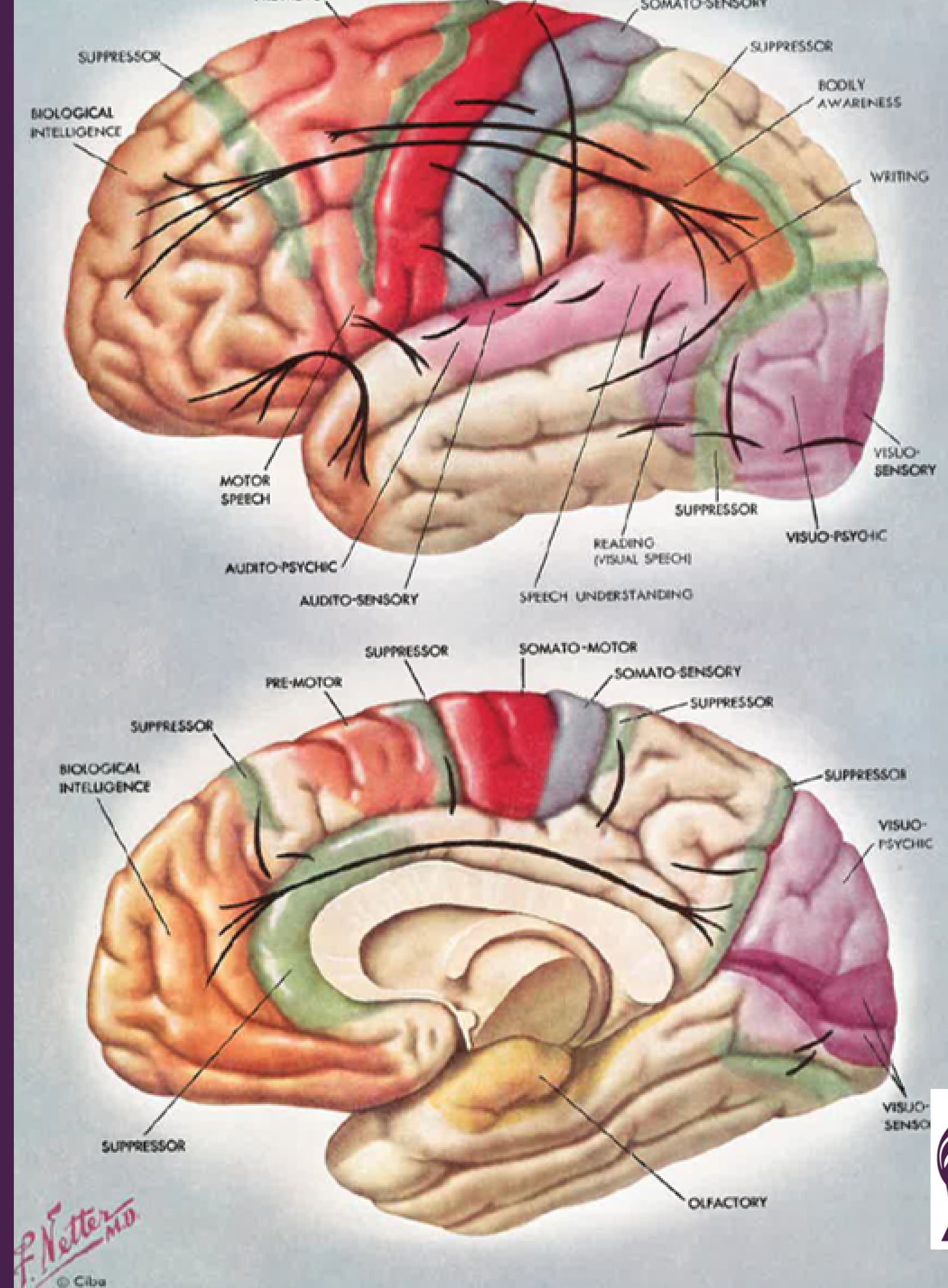
- Jim Chambliss



The Brain

The brain

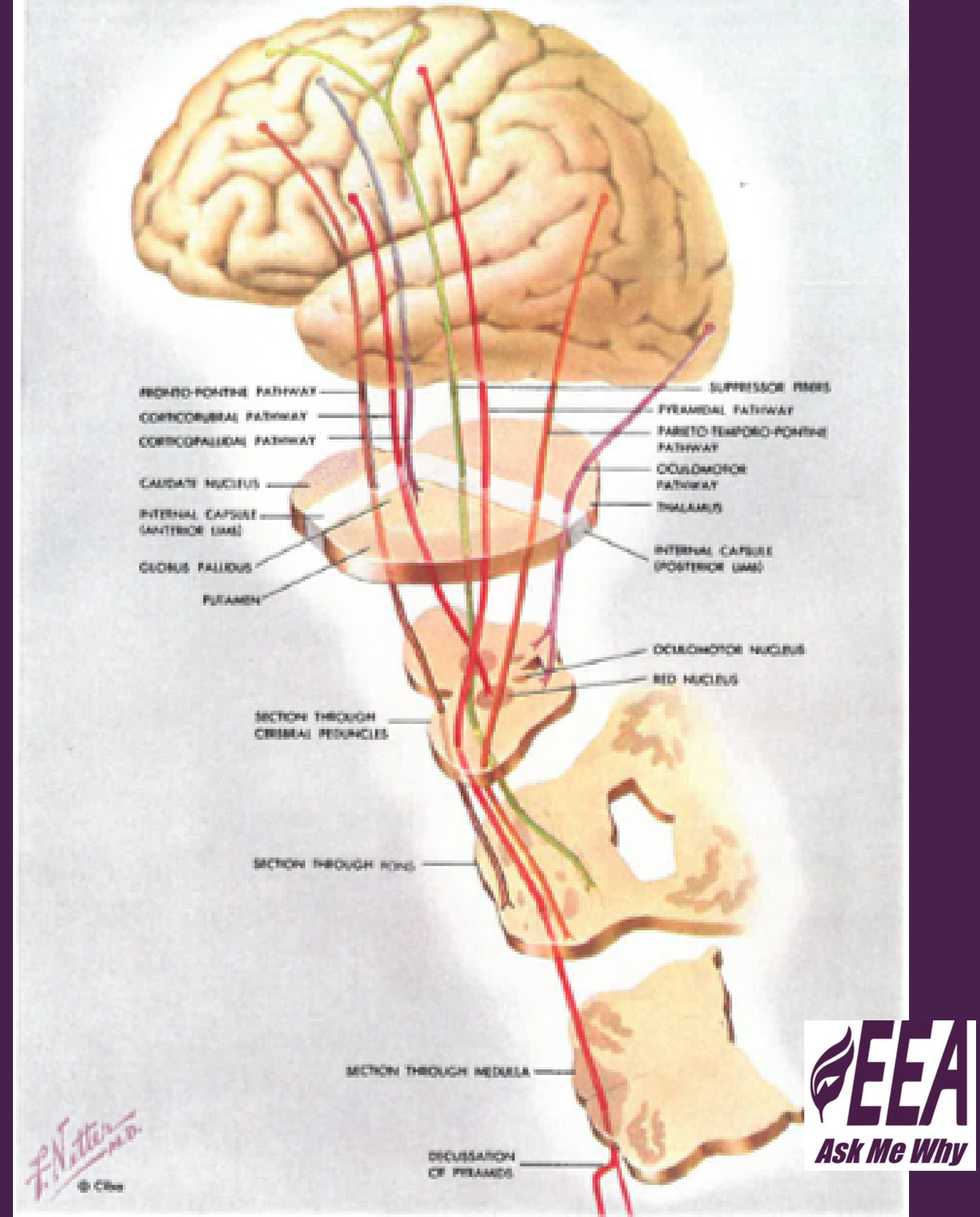
- 15 billion neurons
- Electrical generator



The Brain

The brain

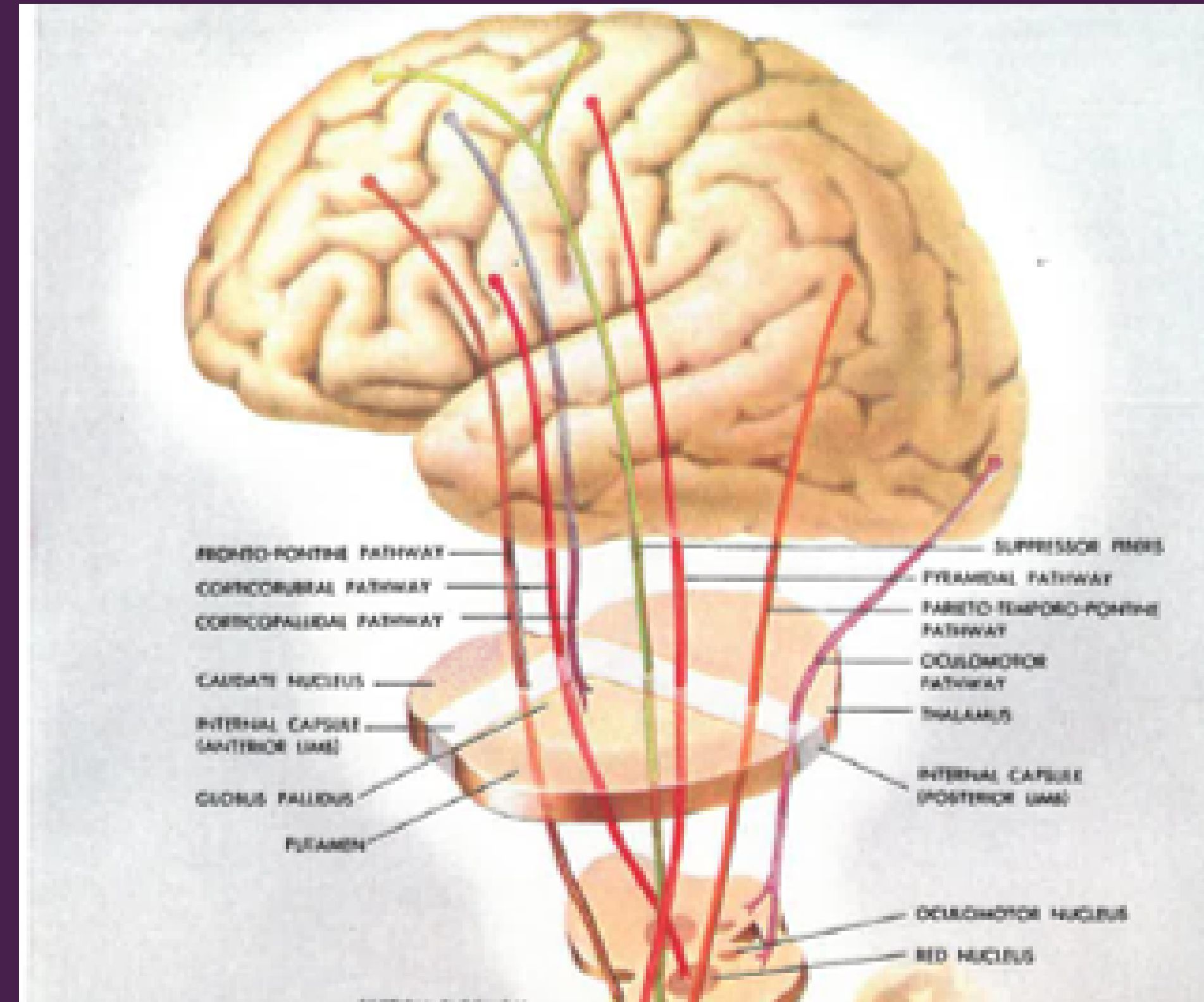
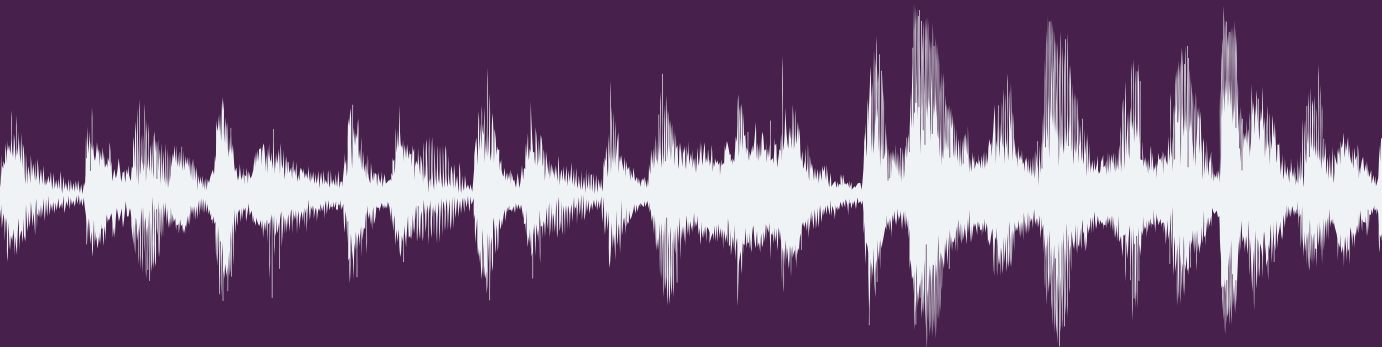
- 1500 grams in weight
- 2% of body weight
- 20% use of oxygen
- 80% use of glucose



The Brain

The brain

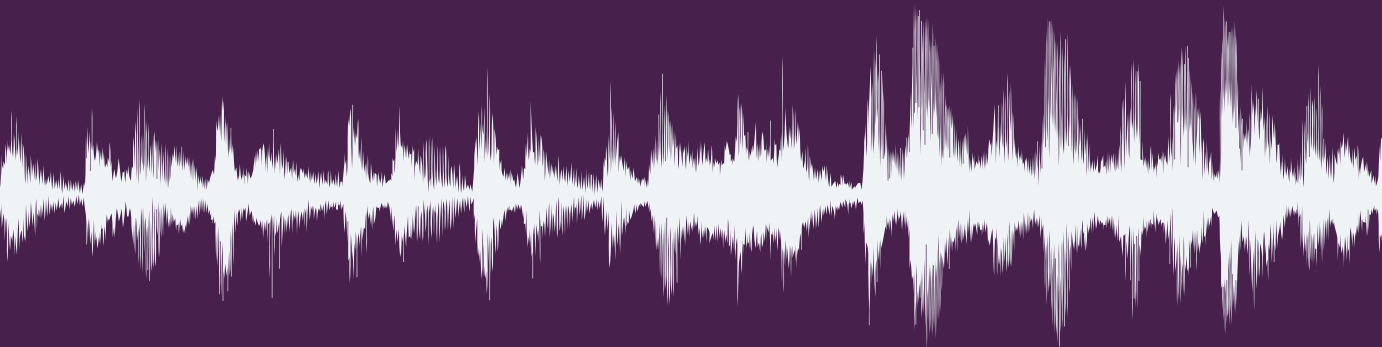
- Only organ in the body that discharges electricity



What is Epilepsy?

Epilepsy

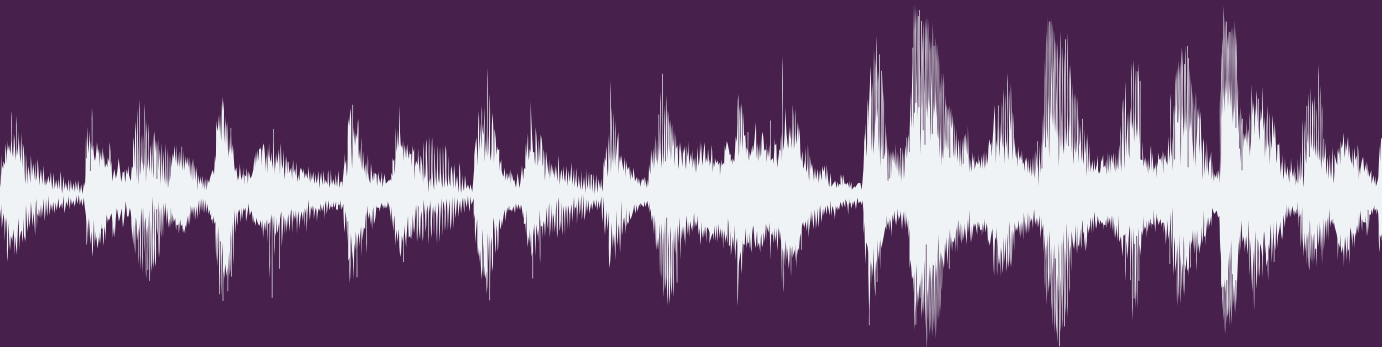
- Condition of recurrent, non-provoked seizures



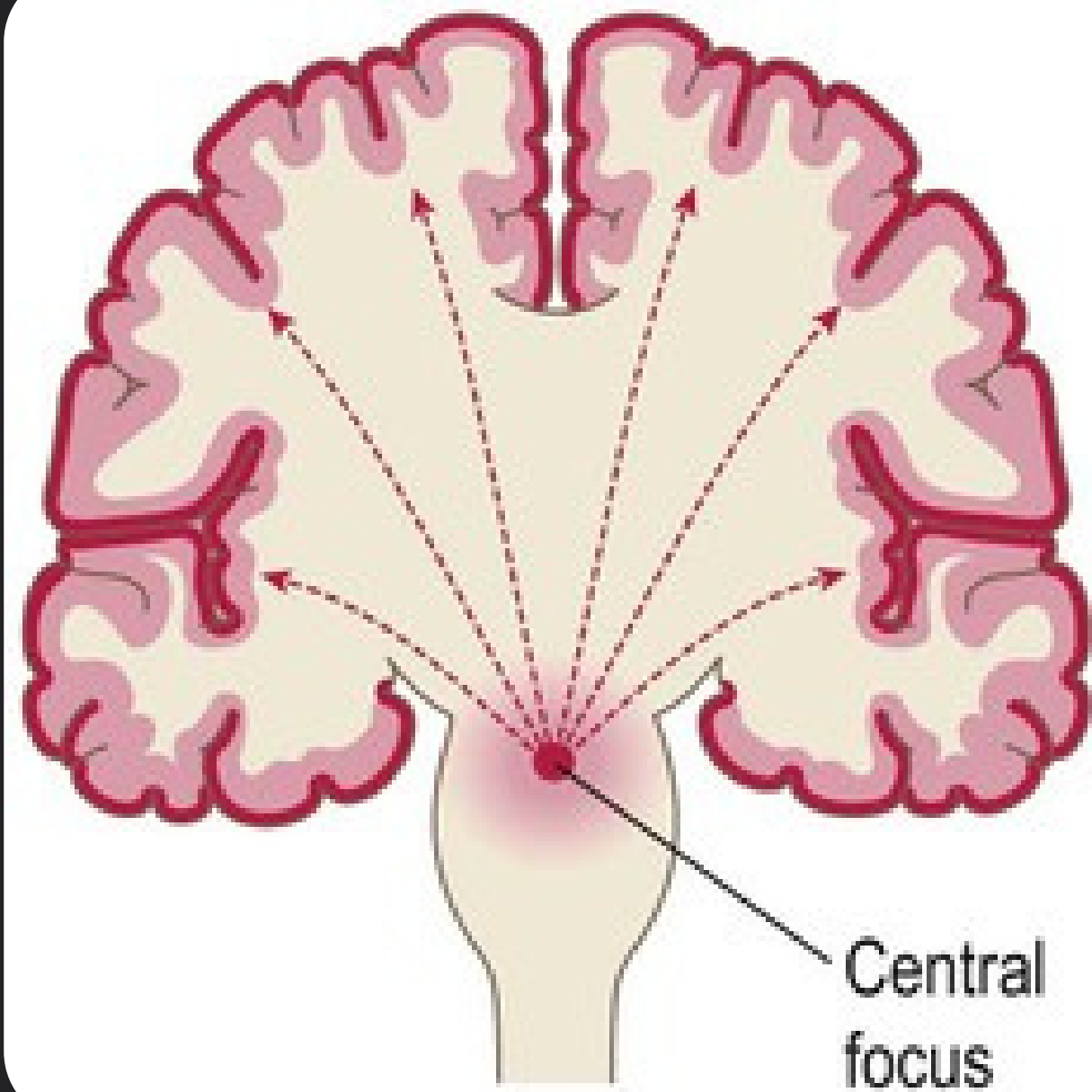
What are Seizures?

Seizures

- Clinical manifestation of abnormal electrical discharges in the brain



Main Types of Epilepsy

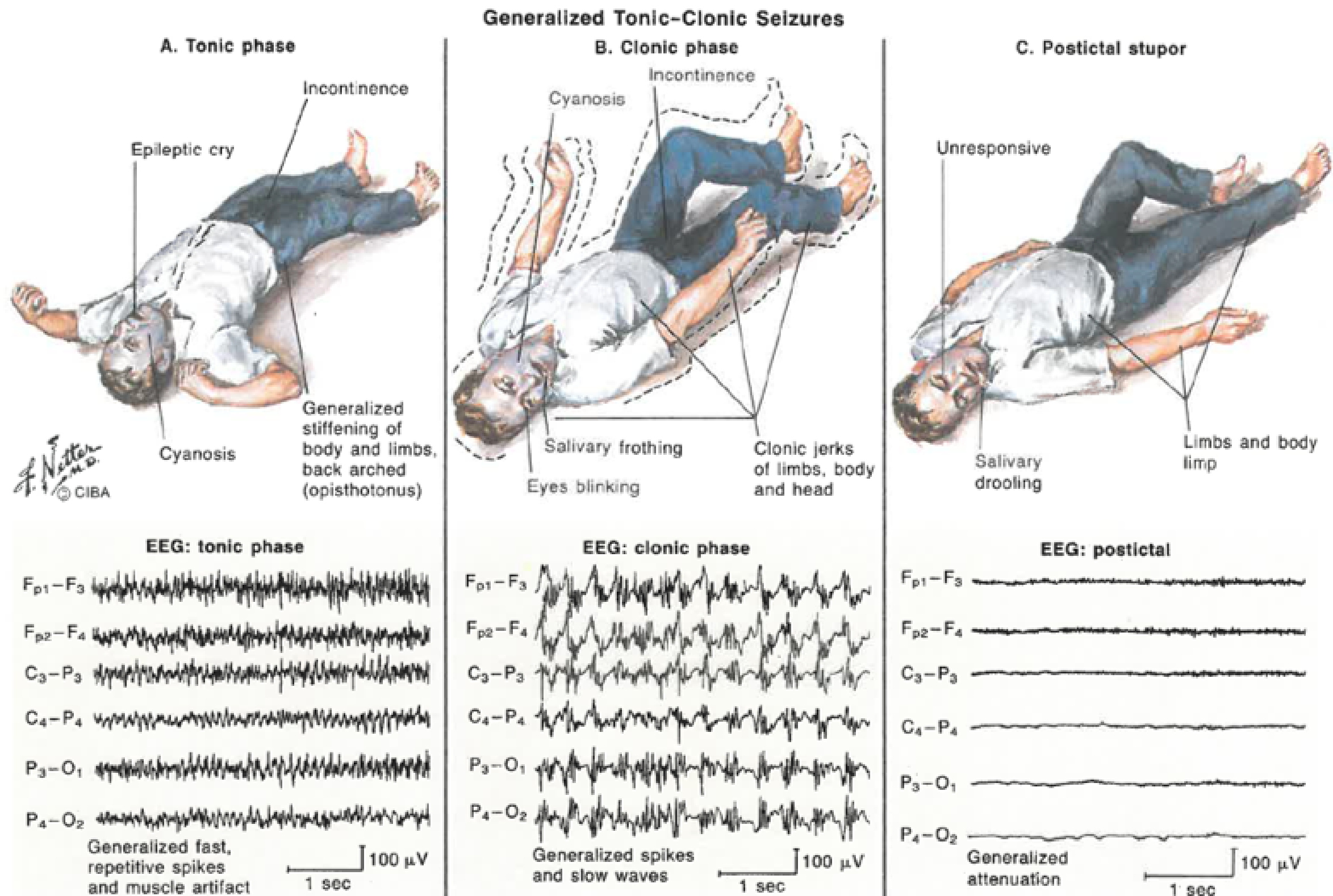


Primary Generalized

- Petit Mal
- Grand Mal
- Absence
- Tonic Clonic Epilepsy
- Idiopathic Epilepsy

Epilepsy, How To Adjust To This Disability

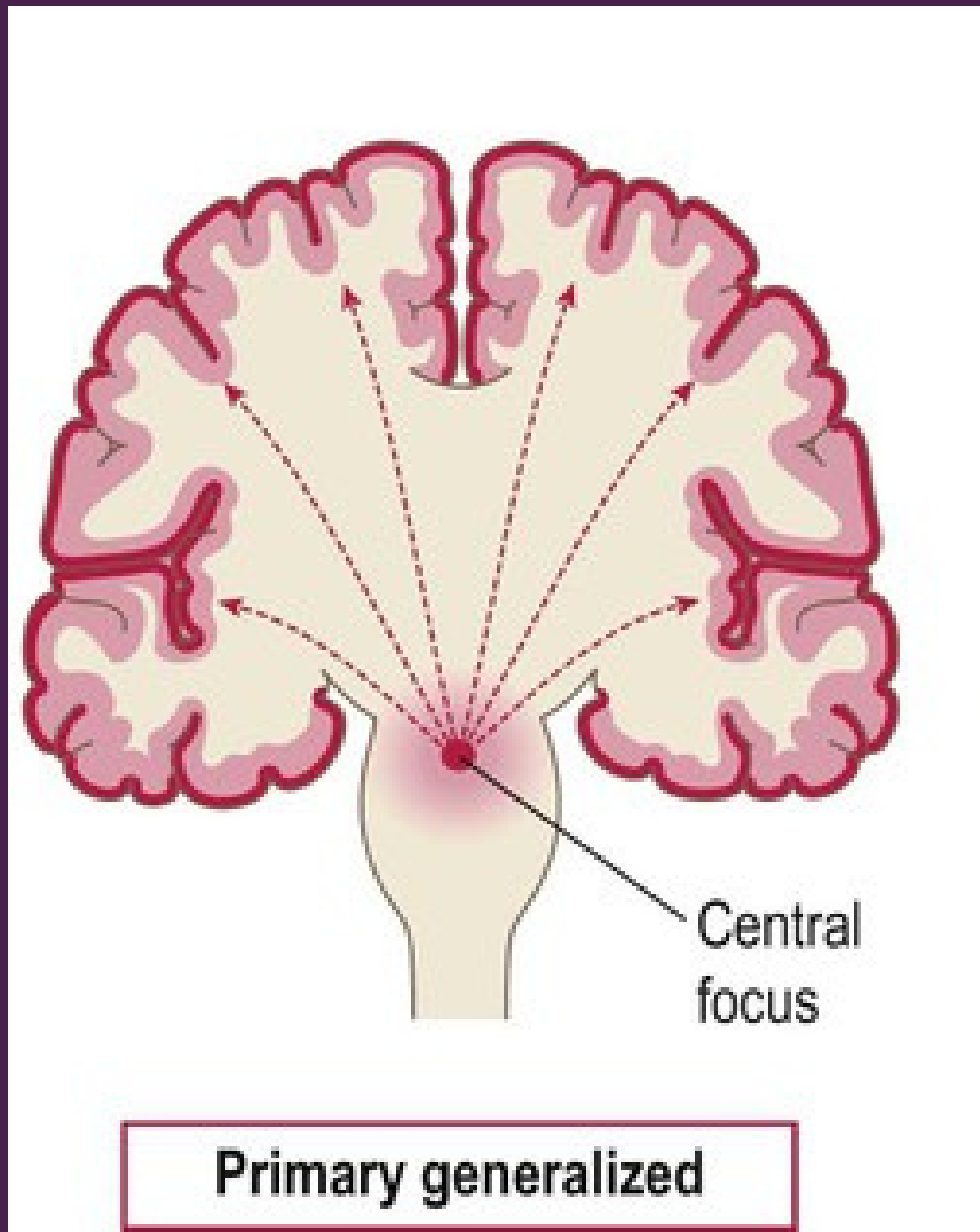
Main Types of Epilepsy



Primary Generalized

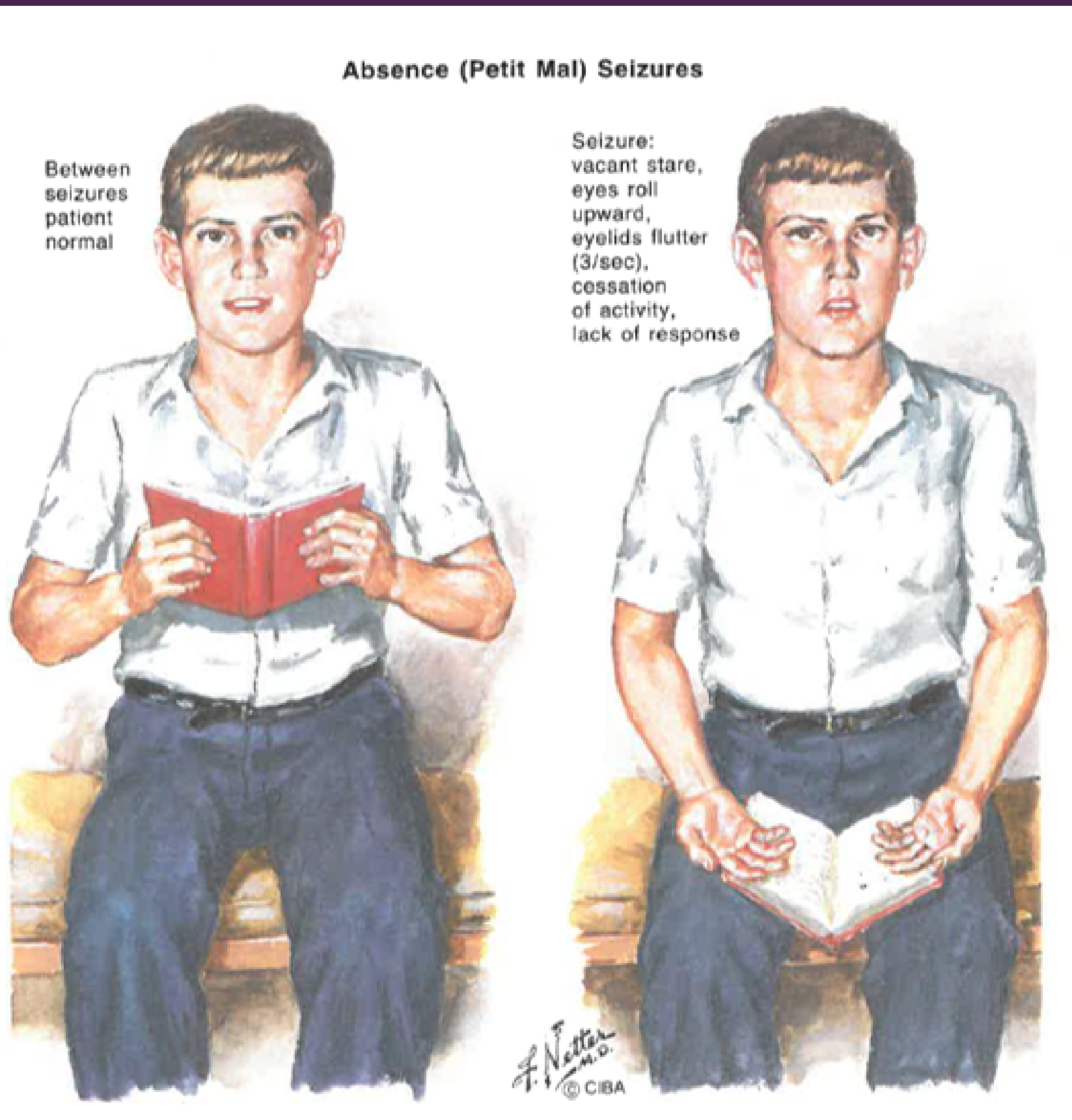
- Also called *Grand Mal Seizure*

Main Types of Epilepsy



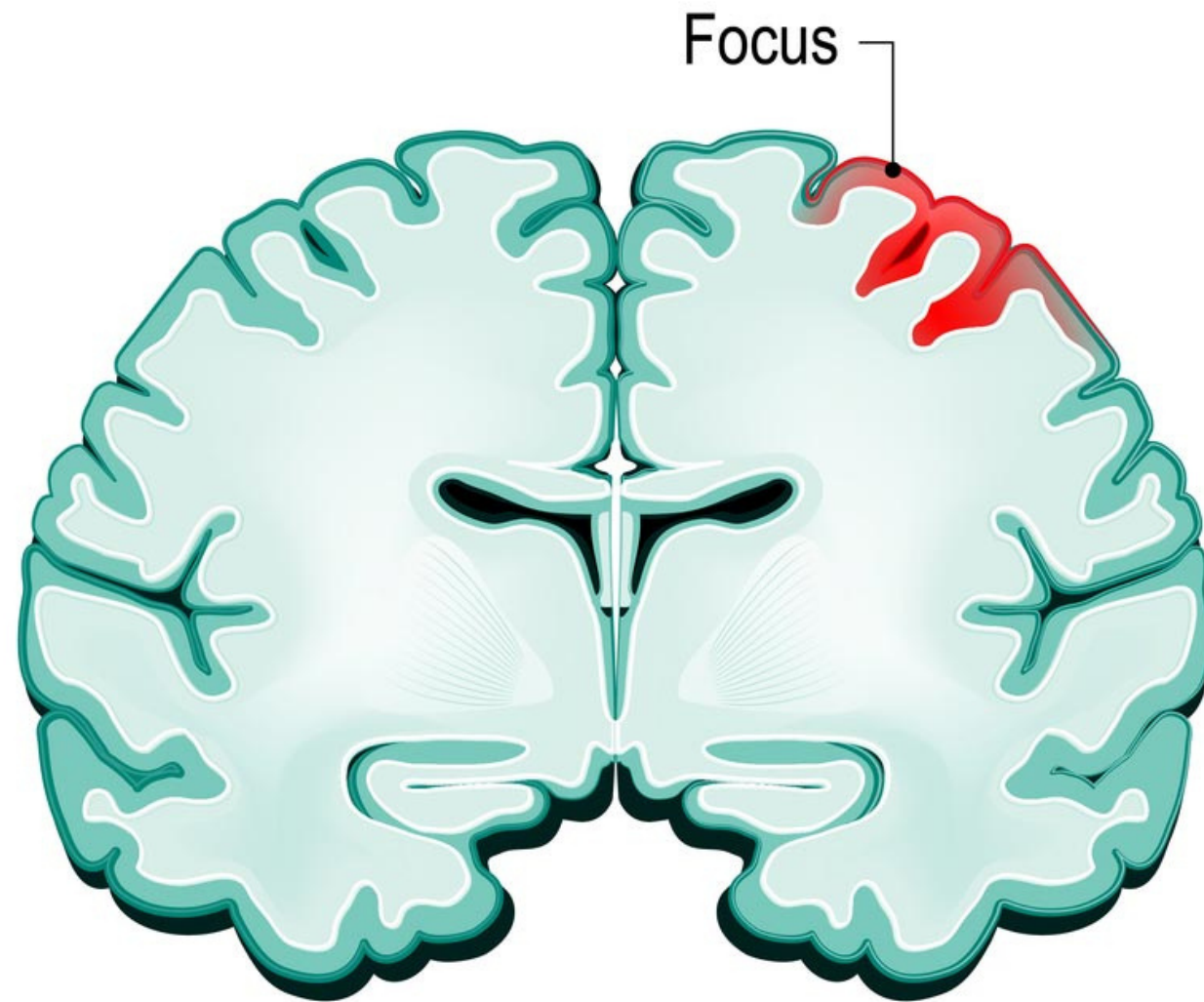
Absence Seizures

Main Types of Epilepsy



Absence Seizures

Main Types of Epilepsy

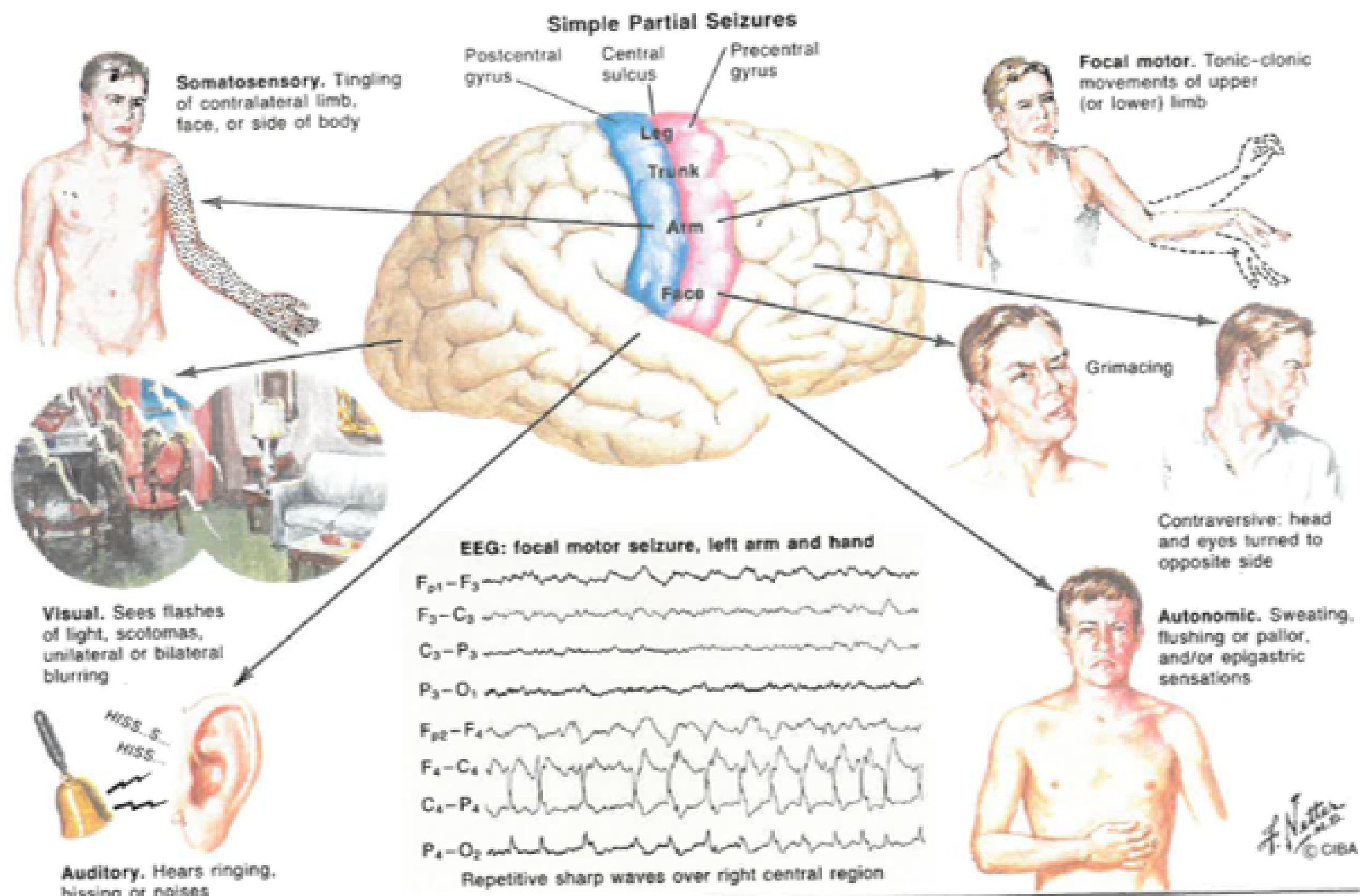


Focal (Partial)

- Focal epilepsy
- Temporal epilepsy lobe
- Psychomotor
- Automatic epilepsy

Epilepsy, How To Adjust To This Disability

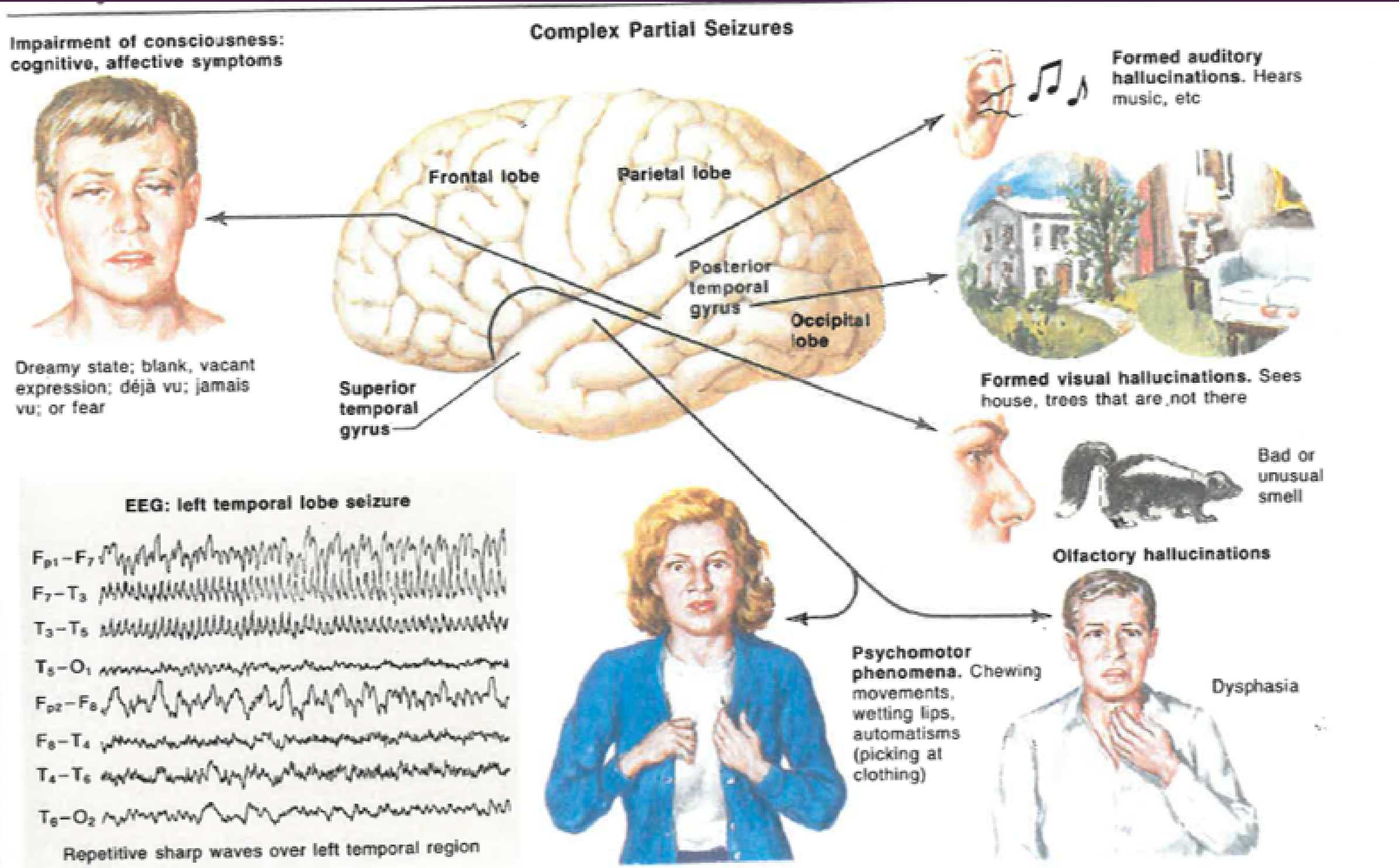
Main Types of Epilepsy



Simple Partial Seizures

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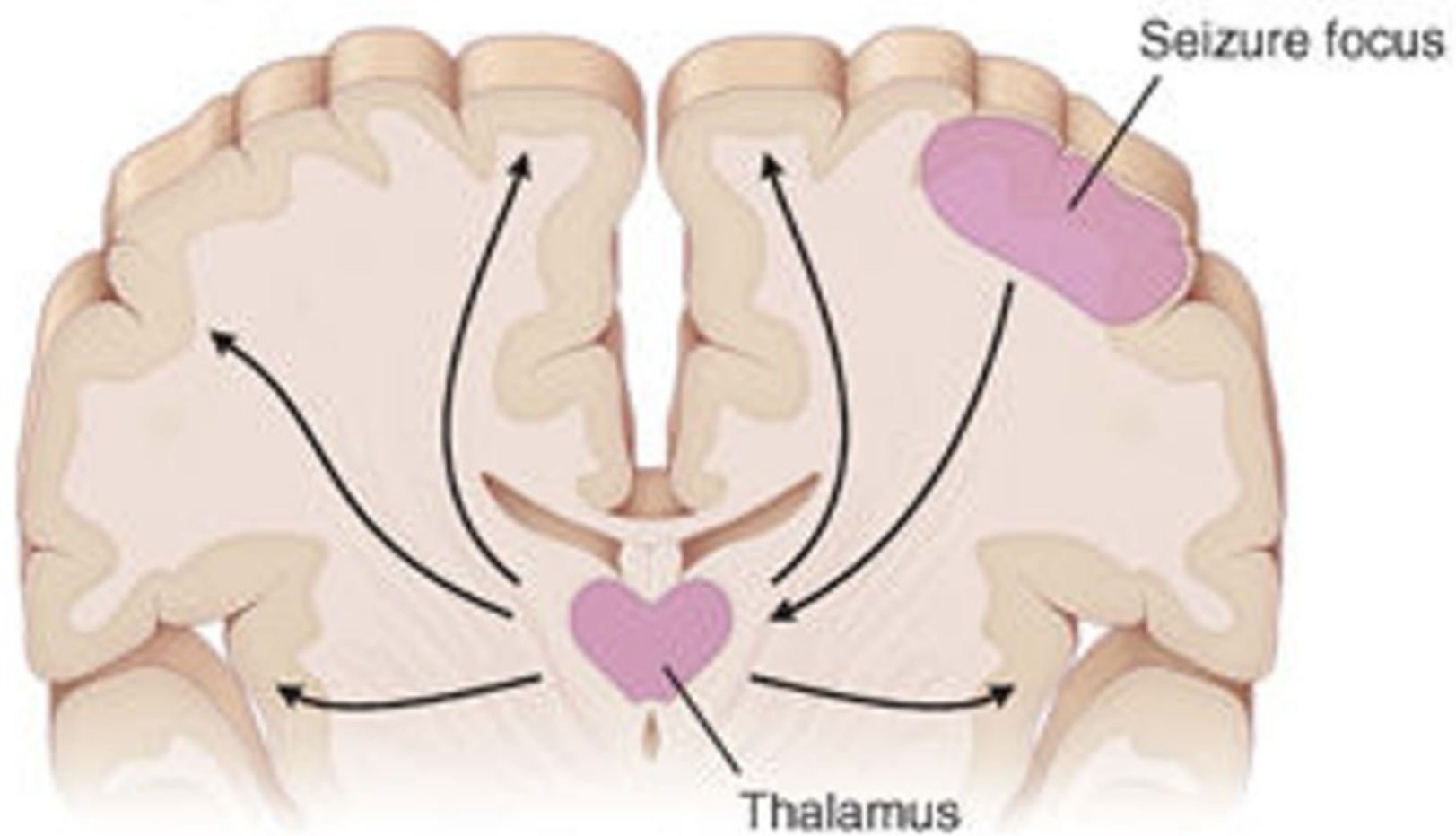
Main Types of Epilepsy



Complex Partial

Main Types of Epilepsy

Secondary Generalized



Seizure Triggers

Common Seizure Triggers

- missed medication
- sleep deprivation
- missing meals
- illness or fever
- excessive alcohol consumption
- flickering lights
- medication
- street drugs
- hormonal changes





Epilepsy in Canada

- 330,000 people live with epilepsy
- 40,000 people live with epilepsy in Alberta
- 65% medically Controlled
- Medication-controlled Seizures - not seizure free.
- 15% uncontrolled Seizures

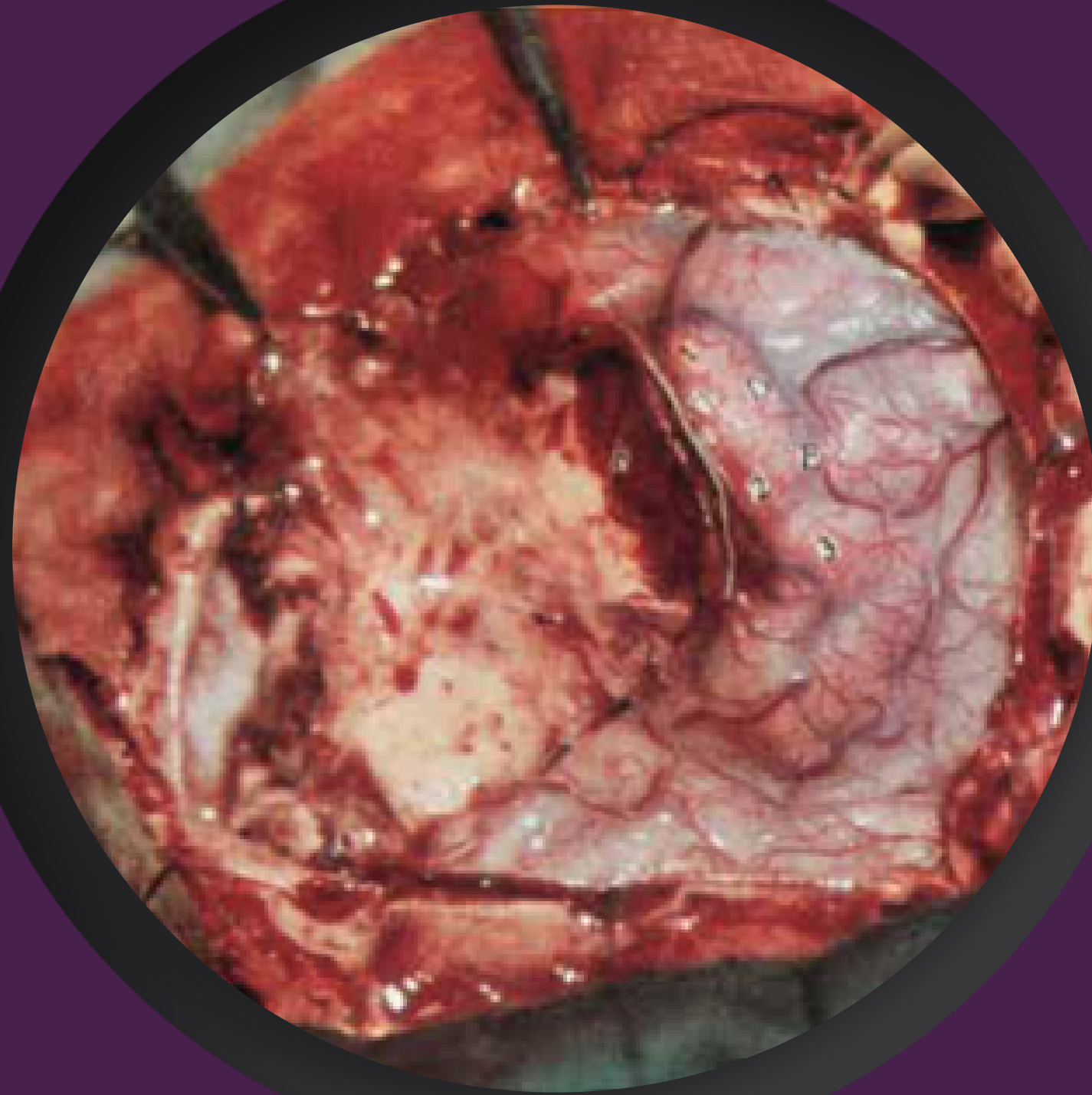
Open Surgery vs Laser-Surgery



Brain Surgery

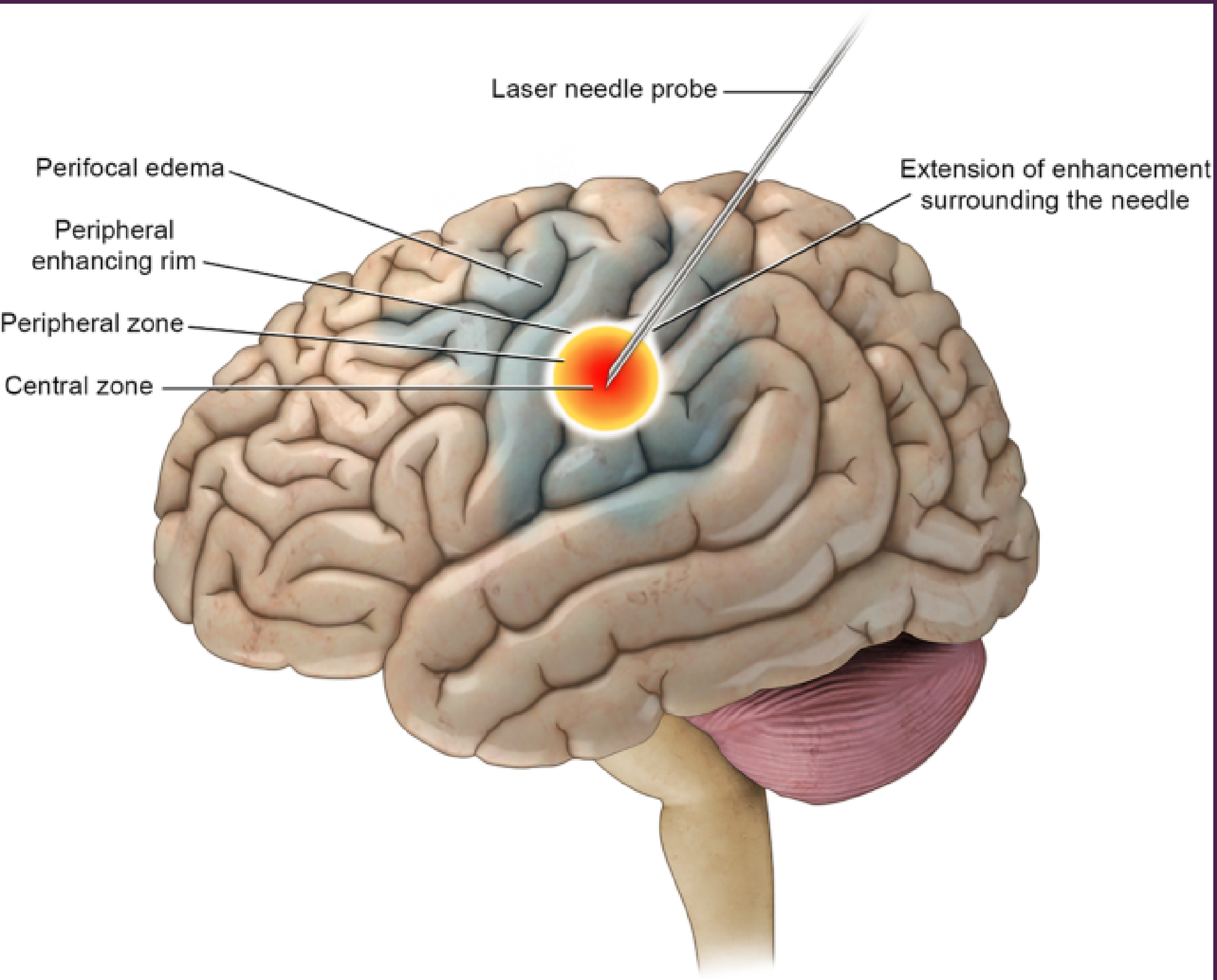
- 2% of people with epilepsy undergo surgery to control their seizures

Open Surgery vs Laser-Surgery



Open Brain Surgery

Open Surgery vs Laser-Surgery



Stereotactic Surgery with Laser Wire

Epilepsy, How To Adjust To This Disability

Oscar , Booklets and EEA

Oscar and His Second Life

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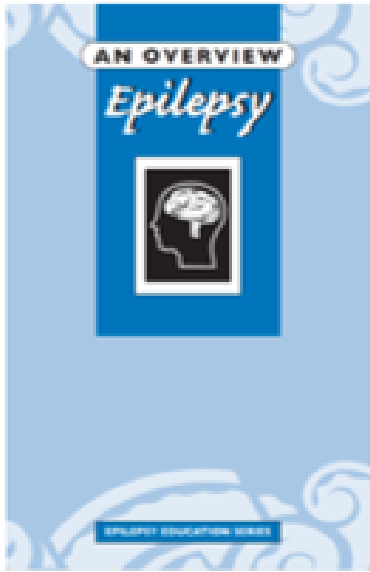


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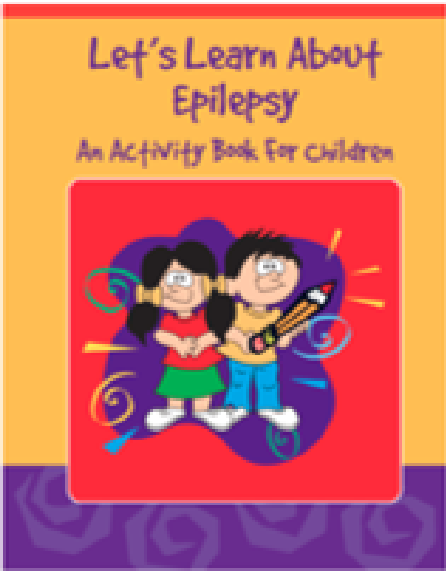
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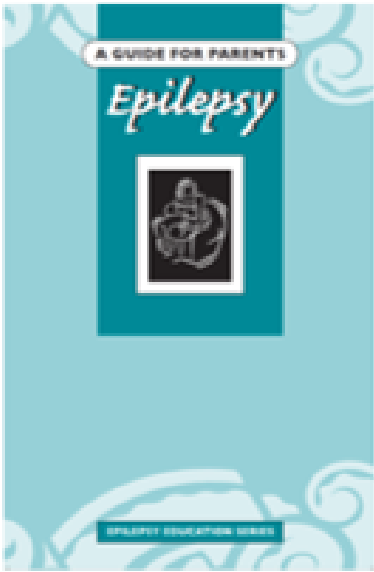
Epilepsy An Overview



Let's Learn About Epilepsy



Epilepsy Seizures First Aid



Epilepsy A Guide for

The Edmonton Epilepsy Association



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Questions

