

Epilepsy

- Defined as a Chronic Neurological Disorder, uncontrolled paroxysmal neuronal discharges ▶ motor movement or
- Incontrolled epilepsy 7% ... can be sever & shorten the life span & causes injuries. ▶ loss of awareness

→ Causes

1. *Genetic / Developmental NF*
2. *Post traumatic.*
3. *Brain tumor, Strokes, Infections*
4. *Prenatal fetal brain damage due to lack of oxygen, maternal infx*

→ Risk .F

1. Age: childhood.
2. Family history.
3. Brain infections.
4. Head trauma.
5. Fever in children.
6. Strokes.

→ Classification

- 1) Generalized
Tonic clonic / Absence / Myoclonic / Clonic / Tonic/ Atonic (drop attacks)
- 2) Focal (partial).
Simple partial (without LOC)/
Complex partial (with LOC) / Partial.

→ Diagnosis :

- **Good history** ▶ aura ? LOC ? Wet himself ? Bite his tongue ?
- **Neurological examination**
- **Tests** ▶ CBC, EEG, CT, MRI, Video EEG

→ Treatment:

- 1- **Removable cause** : remove it ! 🤪
- 2- **Medical** : anticonvulsant... check it's plasma level

Toxic side effects >>> change it or reduction the dose

Pt become free from seizures 3 yrs & normal EGG >>> stop medications

Pregnant mothers >>> continue the medication... but STOP the anticonvulsant drug / teratogenic

- 3- **Surgical** : uncontrolled, not respond to 2 >> do intracranial EEG , PET, SPECT... before the surgery
To detect the site

Curative:

- a) **Anteromesial temporal resection.**
- b) **Amygdalohippocampectomy.**
- c) **Extensive lesionectomy.**
- d) **Cortical resection.**
- e) **Hemispherectomy.**

Palliative:

- a) **Corpus callosotomy**
- b) **Vagal nerve stimulation (VNS) / ¶ vagus CN**