

Epilepsy in relation to psychiatry

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Our topics

Introduction

Relationship Between
Epilepsy and Psychiatric
Disorders

Psychiatric disorders
associated with epilepsy



Depression in Epilepsy.

Psychosis of Epilepsy.

Epilepsy and
personality changes

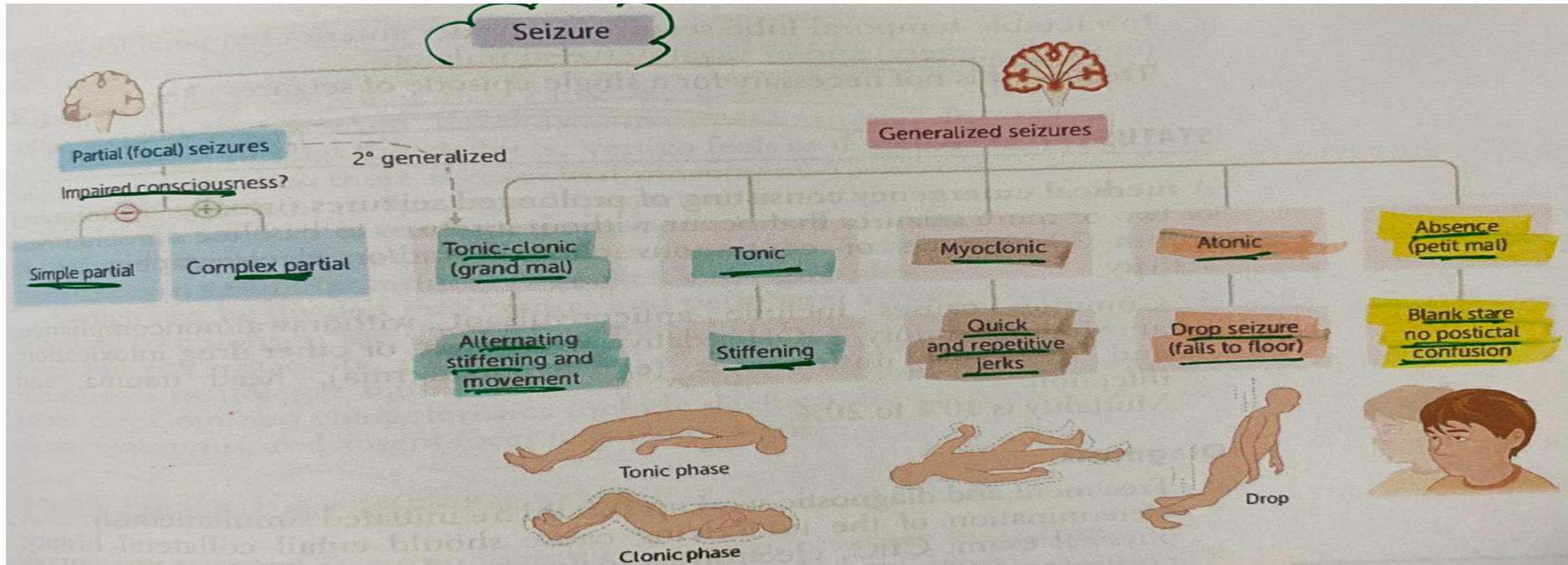


01

Seizure: sudden changes in neurologic activity caused by abnormal electrical activity in the brain.

02

Epilepsy: disorder of recurrent unprovoked seizure.



Patients with temporal lobe epilepsy more prone to psychiatric disorders due to disturbances in limbic system (amygdala >> emotions) and personality changes

Psychiatric disturbances are common in patients with complex partial seizure than GTCS.



Complex partial seizure involve :

Sensory symptoms

hallucinations of any sensory modality
,olfactory(burning rubber odor) visual
,auditory,gustatory (metallic or other tastes)

Affective symptoms

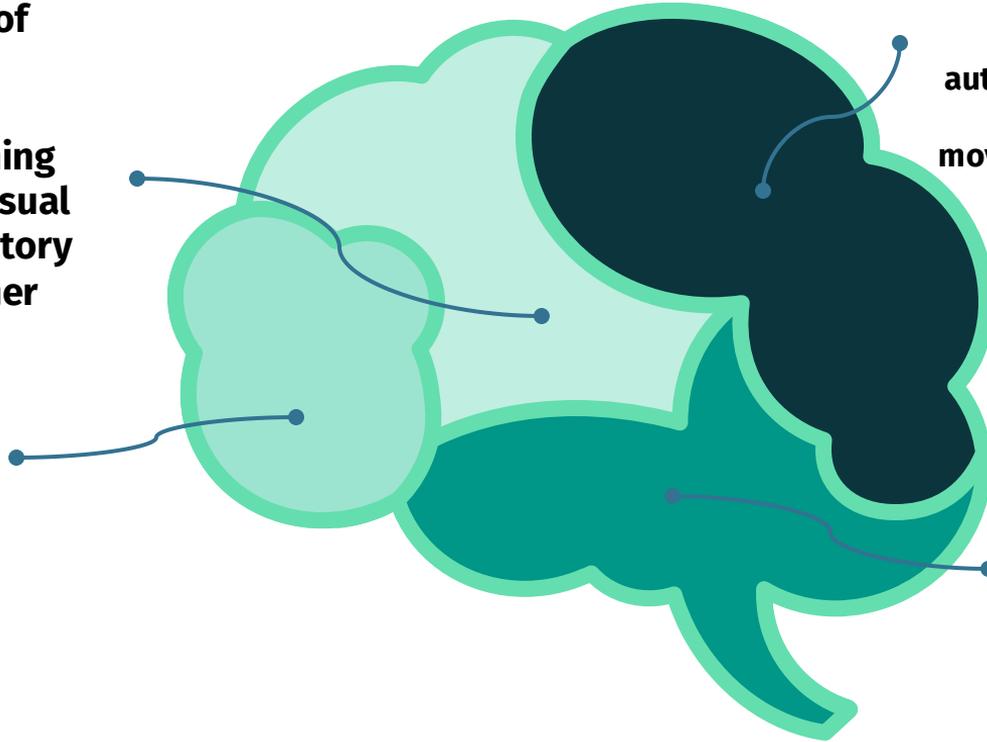
fear and anxiety
although depression .

Behavior symptoms

automatisms are common and may include oral or buccal movements such as lip smacking or chewing, picking behavior or prolonged staring .

Cognitive symptom

Déjà vu (feeling of familiarity) or Jamais vu (feeling of unfamiliarity)



Relationship Between Epilepsy and Psychiatric Disorders

Stigma + over
protection by family

Anti epileptic drugs
side effects

Age at onset+
chronicity

A bi-directional relationship
between psychiatric disorders
and epilepsy has been
suggested by many scholars.

The **causes of
psychopathology in epilepsy
are
Multifactorial:**

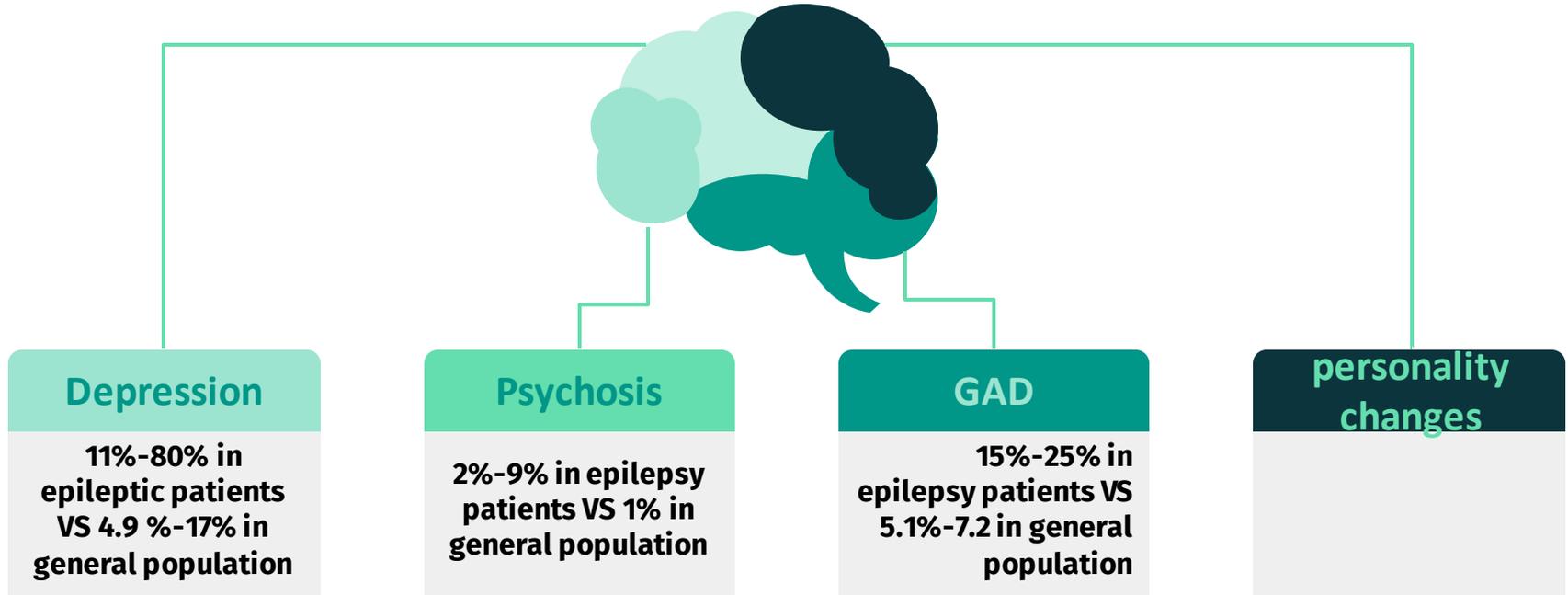
Kindling effect

phenomenon where repeated exposure
to sub-threshold electrical or chemical
stimuli gradually lowers the threshold
for triggering seizures in the brain. This
increased sensitivity can lead to more
frequent and severe seizures over time.

Secondary
epileptogenesis

Altered receptor
sensitivity

20-30% of patients with epilepsy have psychiatric disturbances .



Depression in epilepsy

Depressive Disorder Due to Another Medical Condition

Diagnostic Criteria

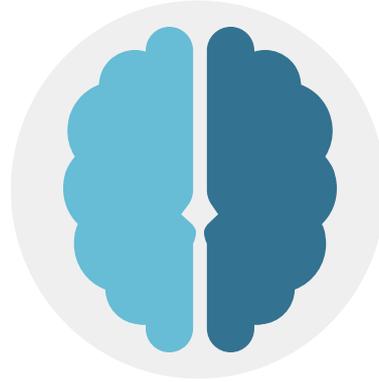
- A. A prominent and persistent disturbance in mood that predominates in the clinical picture and is characterized by depressed mood or markedly diminished interest or pleasure in all, or almost all, activities.
- B. There is evidence from the history, physical examination, or laboratory findings that the disturbance is the direct pathophysiological consequence of another medical condition.
- C. The disturbance is not better explained by another mental disorder (e.g., adjustment disorder, with depressed mood, in which the stressor is a serious medical condition).
- D. The disturbance does not occur exclusively during the course of a delirium.
- E. The disturbance causes clinically significant distress or impairment in social, occupational, or other important areas of functioning.

Depression in Epilepsy



Depression as an
iatrogenic process.

Due to anti epileptic
drugs side effects



Para ictal
symptoms

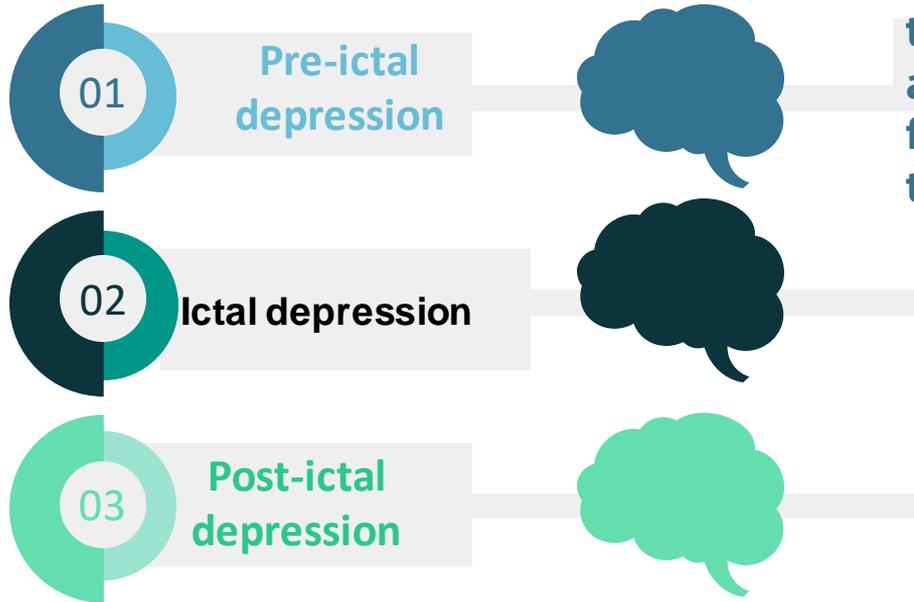
a) Ictal depression.
b) Preictal depression.
c) Postictal depression.



interictal
symptoms

Between seizures

Paraictal expressions of depression in epilepsy



present as a dysphoric mood that precedes a seizure by several hours to days, it becomes more accentuated during the 24 hours prior to the seizure and remits postictally or persists for a few days after the seizure

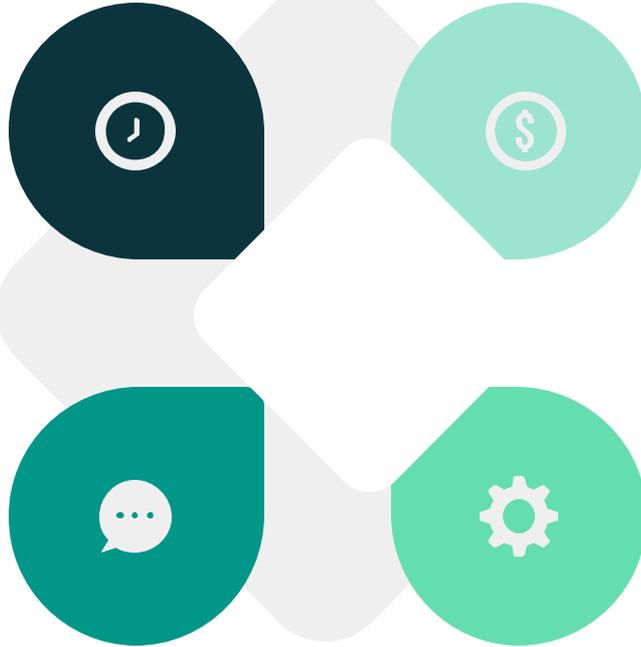
Such mood changes typically are brief, The most frequent symptoms include feelings of anhedonia, guilt, and suicidal ideation

Depressive symptoms can outlast the ictus for up to 2 weeks, and, at times, have led patients to suicide.

Interictal forms of depression

These are the most common presentation of affective disorders among patients with epilepsy

Symptoms remit completely with sertraline(SSRI) in two thirds of patients



Interictal depression in epilepsy commonly presents as a chronic depression that tends to mimic a dysthymic disorder (Persistent depressive disorder which is milder than MDD)with an intermittent course.

Symptoms are severe enough to disrupt patients' activities, interpersonal relations, and overall quality of life, and to make them seek treatment

Depression as an iatrogenic process

01

Every AED can cause psychiatric symptoms in patients with epilepsy.

02

Primidone, tiagabine, vigabatrin, felbamate and topiramate are known to cause depressive symptoms.

03

Phenobarbital can cause depression that may be associated with both suicidal ideation and behavior.

04

AEDs with mood stabilizing properties, such as carbamazepine and valproic acid, have a lower possibility to cause depressive symptoms.

Epilepsy with psychosis
2-9%

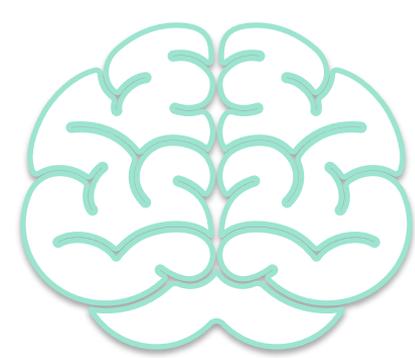
01

Psychosis is general term used to describe a distorted perception of realization

02

Poor reality testing may be accompanied by delusions, hallucinations, disorganized thinking/behavior

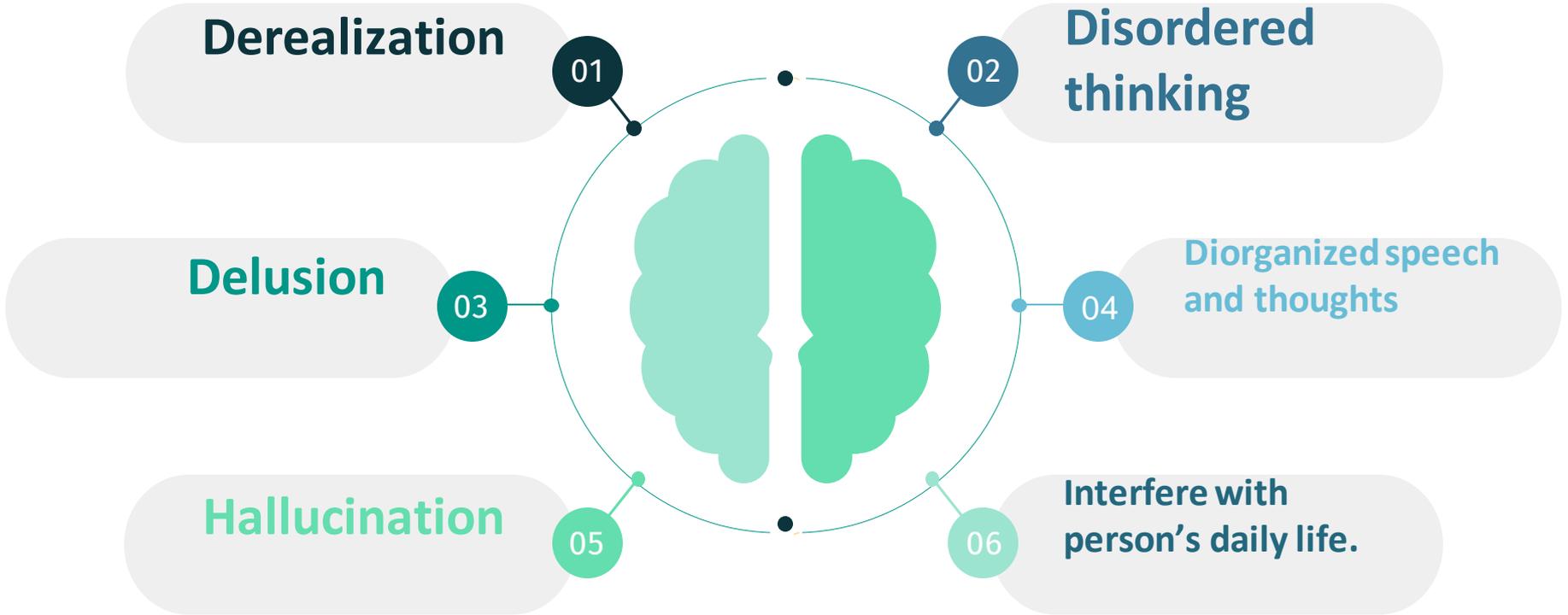


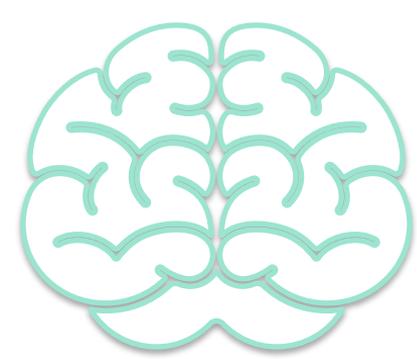


DSM-5 criteria for psychotic disorder due to another medical condition include:

- Prominent hallucinations or delusions.
- Symptoms do not occur only during an episode of delirium.
- Evidence from history, physical, or lab data to support another medical cause (i.e., not a primary psychiatric disorder).

Characterized by:





Psychosis in epilepsy:

- 1. Ictal psychosis**
- 2. Post ictal**
- 3. Inter ictal**
- 4. Iatrogenic**

Less common

-Seen more in status epilepticus, mimic psychosis

-Common features:

Hallucinations, paranoid and grandiose thoughts

-Last Hours to days

Treatment:

AntiConvulsant

Ictal psychosis



Most common.

-Psychosis after seizure, mainly 24h post seizure.

-Last Days to weeks

At least 15H and less than 2months

-No evidence of psychosis in previous 3months, recent head trauma, recent intoxication.

Spontaneous recovery in most cases.

Low dose of antipsychotic is effective.

Post Ictal psychosis



Not related to seizure occurrence

-More common when seizure infrequent or fully controlled.

-Tends to last days to weeks.

-Either chronic or episodic

-EEG normalize during such episode generating the term (forced normalization)

Antipsychotic drugs is effective in such cases.

Inter Ictal psychosis





Forced normalization

-Specific phenomenon characterized by the fact that , with the occurrence of psychotic states, the EEG becomes more normal compared with previous and subsequent EEG findings.

CLINICAL CHARACTERISTICS OF PSYCHOSIS IN RELATION TO SEIZURE ACTIVITY

	Ictal psychosis	Post ictal psychosis	Peri ictal psychosis	Inter ictal psychosis
Consciousness	impaired	Impaired or normal	Impaired	normal
Duration	Hours to days	Days to weeks	Days to weeks	months
EEG	Status epilepticus	Increased epileptic and Slow activity	Increased epileptic and Slow activity	unchanged
Treatment	Anticonvulsants (i/v)	Spontaneous recovery in many cases	Improved seizure control	Neuroleptic drugs

iatrogenic psychotic disorders

- Expression of a toxic phenomenon that have been reported with most of AEDs .
- Can occur follow the discontinuation of AEDs
- Acute withdrawal of BNZ is well known to result in acute psychotic episodes

Epilepsy and personality changes

01

Personality changes in patients with epilepsy are very important and can greatly impact a person's daily activities and quality of life

These feelings may be present most of the time, or appear just before, during, or after a seizure

02

03

Commonly seen in uncontrolled epilepsy, and more in Temporal lobe epilepsy.

What causes such changes to emotions and behavior? psychosocial circumstances, medication, and seizures effects

04

In 1975, Stephen Waxman and Geschwind described a characteristic personality syndrome in temporal lobe epilepsy patients called : Geschwind syndrome

