

DEFINITION

- Schizophrenia is a psychotic disorder.
- It is a mental illness characterised by continuous or relapsing episodes of psychosis.
- It is a type of psychosis causing severe thoughts and personality changes without any natural cerebral damage.

TYPES

- Paranoid- persecution thoughts (fear, behavioral disturbances)
- Catatonic- frozen behavior
- Schizoaffective disorder- Schizophrenia and depression.

SYMPTOMS

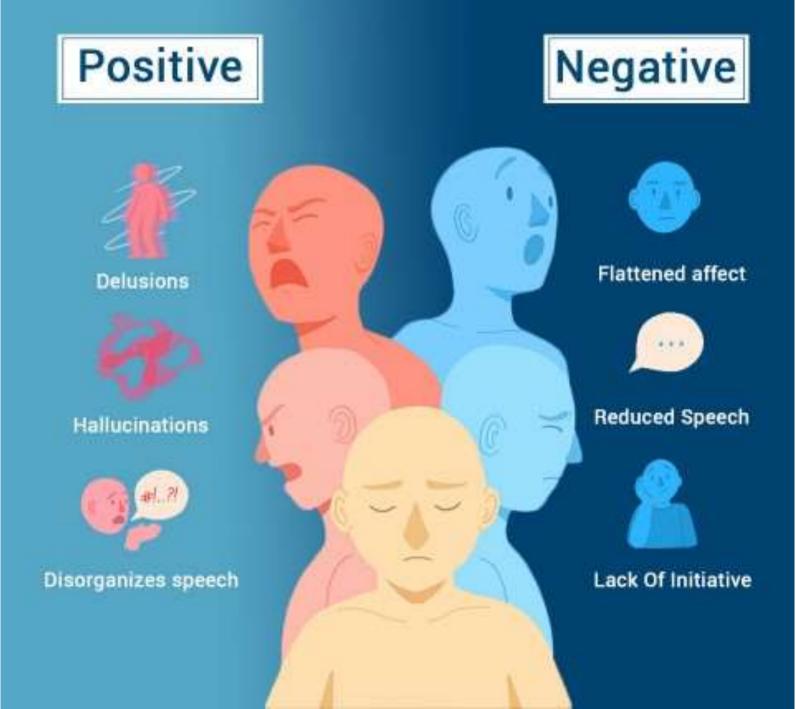
Positive symptoms

- Delusion
- Illusion
- Hallucinations
- Irrational conclusion
- Non sequential sentence
- Aggression
- Stereotype behavior

Negative symptoms

- Poor socialization
- Emotional blunting
- Demotivation
- Cognitive decline

SYMPTOMS



ETIOLOGY

Genetic predisposition

- Genes on chromosome on
- 1,5,6,8,11,12. Neuregulin-1
- Neuregulin-1 is responsible for normal development of muscles and nerves. Mutation
- of Neuregulin-1 cause Schizophrenia Neurotransmitter hypothesis

It includes;

- Dopamine hypothesis
- Serotonin hypothesis
- Glutamate hypothesis

PATHOGENESIS

Dopamine hypothesis

- Increased Dopamine activity in the brain.
- Increased expression of Dopamine receptor in the brain.
- Dopamine modulators can increase Dopamine activity in the brain.
- Such as;
- Levodopa- precursor
- Amphetamine- release
- Apomorphine- agonist.

Serotonin hypothesis

- Increased expression of 5-HT cause Schizophrenia.
- Normally, 5-HT regulates Dopamine release in mesolimbic and striatal areas.

7 Dopamene ? \$5HT@ SHT2 neeptor Scanned with lamScanner

Glutamate hypothesis

- Decreased level of glutamate produce hallucinations and thought disorder.
- Decreased expression of glutamate receptor are seen in Schizophrenia patients.

Schutamate (11) MATT CABA Newron TAT & BA (TT) Scanned with CS CamScanner

Classification of antipsychotic drugs

Typical antipsychotics

Phenothiazines

- Chlorpromazine: 40-800 mg
- Perphenazine: 12-64 mg
- Fluphenazine: 1-40 mg
- Thioridazine: 150-800 mg

Thioxanthenes

Thiothixene: 6-30 mg

Butyrophenones

Haloperidol: 1-100 mg

Dibenzothiazepine

• Quetiapine: 150-750 mg

Atypical antipsychotics Clozapine: 300-900 mg Risperidone: 4-16 mg Olanzapine: 5-20 mg

