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SCHZORHRENIA



EUGEN BLEULER: Coined the term as

"SCHIZOPHRENIA" (Split Brain)ss

There is dispute of relation between

Thought, Emotion and Behavior (TEB)

Epidemiology: Life time Prevalence is 1%

Age of onset: Men - 10 to 25 yrs.

Women- 25 to 35 yrs.

M:F- 1:1

Those who born in winter and early spring having more risk as compare to summer and late spring.

Reproductive factors: First degree biological relatives of Patient have a 10 times risk.

ETIOLOGY

Exact Etiology Is Not Known.

Theories:-

- Biological Theory.
- Genetic Theory.
- Psychosocial Theory.



Emotion (भावना)

Behavior (कृती)

- आनंदी वाटणे.
- आनंदी होणे.
- आनंदी राहणे.

भावांक (EQ) > बुध्यांक(IQ)



ETIOLOGY

Neurobiology: Dysfunction in.

Limbic system

Frontal cortex

Cerebellum

Basal ganglia may involve in pathological process.

Neuropathology: Decrease in size of brain including Amygdala, Hippocampus and Para hippocampal gyrus.

Few studies showed increase number of D2 Receptors in Caudate, Putamen.

NEUROIMAGING:

- MRI Brain: Reduction in volume of Hippocampus, Amygdala, Para hippocampal Gyrus.
- CT Scan: Lateral and Third Ventricular Enlargement and Reduction in cortical volume
- MRS: Lower levels of Phosphomonoesters and Inorganic Phosphate.

Higher levels of Phosphodiesters and ATP.

NAA-N acetyl aspartate-marker of neuron –low in Hippocampus and Frontal lobes.

- PET(Glucose and Cerebral blood flow): Hypoactivity of Frontal lobes and Hyperactivity of Basal ganglia.
- EEG: Decreased alpha activity. Increased theta and delta activity.
- EYE MOVEMENT DYSFUNCTION: 50-85 % pts of Schizophrenia has abnormal eye movement suggestive of Frontal lobe pathology (Hypothesis).
- Psychoneuroimmunology: Abnormal Cellular and Humoral reactivity of neurons.
- Psych neuroendocrinology: Decreased concentration of LH, FSH etc.

Change in Neurotransmitter levels like...

- Dopamine.
- Serotonin.
- Norepinephrine.
- o GABA.
- Glutamate.
- Neuropeptides.

(Cholecystokinin, Neurotensin Etc.)



ETIOLOGY – Genetic Factors

Abnormality:

in long arm of chromosomes

i.e.5,6,8,11,18 & 22 and short arm of 9 and X chromosome

O Prevalence :

- General population: 1 %.
- monozygotic twin of Schizophrenia Patient: 47 %
- Dizygotic twin of Schizophrenia Patient : 12 %
- Nontwin sibling of Schizophrenia Patient: 8 %
- Child with one Schizophrenia Patient: 12%
- Child with both Schizophrenia Patient : 40 %

PSYCHOSOCIAL FACTORS

- Learning theories: Children learn irrational reactions and ways of thinking by imitating parents who have their own emotional problems.
- Schism Family: If one parent is close to a child of opposite sex.
- Skewed Family: Power struggle between two parents and resulting dominance of one parent.
- Social theories: Industrialization and Urbanization have major effect on timing of onset and severity of illness.

PHASES OF ILLNESS

- Prodromal phase: Back pain, neck pain, somatic complaints. No Active Psychotic symptoms.
- Acute Phase: Florid psychotic phase with active symptoms like delusions or hallucinations etc.
- Post Acute Phase: Phase begins once the acute symptoms reduce in severity or remit. It lasts for about 6 months.
- Stable or Maintenance Phase: Symptoms are stable.

CLINICAL FEATURES

No Any Sign Or Symptom Is Path gnomic Of Schizophrenia



PREMORBID SIGNS AND SYMPTOMS

- Premorbid signs and symptoms appear before the prodromal phase of illness.
- Prodromal signs and symptoms are parts of evolving disorder.
- In Premorbid history- Patient has usually Schizoid or Schizotypal personalities. They may enjoy watching movies or television or listening to music instead of attending social activities.
- Illness can start with symptoms like Headache, Back and muscle pain, weakness or digestive problems. Later can get positive or negative symptoms.

Eugen Bleuler :- Described symptoms as

Fundamental (Primary):- 4 A's

Association (Looseness)

Affect

Autism

Ambivalence

Secondary(Accessory):- Delusion and Hallucination

Kurt Schneider Criteria for Schizophrenia

First Rank Symptoms:

- Audible Thoughts.
- Voices Commenting.
- Voices arguing or discussing or both.
- Thought control.
- Delusional Perceptions.

Second Rank Symptoms:

- Other disorder of Perceptions.
- Sudden delusional Ideas.
- Perplexity.
- Dysphoric and Euphoric mood changes.

Sir T. J. Crow --- Positive Symptoms

- Hallucinations:- Auditory, Visual, Tactile, Olfactory, Gustatory.
- Delusions:- Persecution/ Reference
 Delusion of being controlled,
 Thought Broadcasting/ Thought Withdrawal
 Thought Insertion/ Thought Reading
- Bizarre behavior :- Aggressive/agitated behavior, Repeated /
 Stereotyped behavior
- Positive formal thought disorder: Tangentiality, Circumstantiality,
 Pressure of speech, Clanging, Derailment Etc..

Negative Symptoms

- Affective flattening:- Unchanging facial expression, Decreased spontaneous movements, Poor eye contact, Inappropriate affect.
- Alogia: Poverty of speech, blocking.
- Avolition /Apathy:- Poor grooming and hygiene,
 Impersistance at work or school.

- Anhedonia/A sociality:- Recreational interests, activities, Sexual interest,, Closeness, Relationship with friends & peers.
- Attention:- Social Inattentiveness, Inattentiveness during testing.

TYPES OF SCHIZOPHRENIA

- Paranoid Type:- Preoccupied with one or more delusion and frequent Auditory hallucinations. Classically Delusion of persecution.
- Disorganized (Hebephrenic):- Disinhibited or Disorganized behavior.
- Catatonic Schizophrenia: Marked disturbance in motor function.

Characterized by, Negativism, Catatonic excitement, Waxy flexibility, Mutism. Echolalia, Echopraxia.

- Undifferentiated type: Can not differentiate. May get mixed presentation.
- Residual Schizophrenia: Absence of active symptoms but evidence of some disturbances or symptom.

OTHER SUBTYPES OF SCHIZOPHRENIA

- Simple Schizophrenia: Progressive development for a least one year of all of the following-
- Marked decline in occupational or academic functioning.
- Gradual appearance and deepening of negative symptoms such as affective flattening, alogia or avolition.
- Poor interpersonal Support, social isolation or social withdrawal.
- Oneroid Schizophrenia: Dreamlike state in which Patients is deeply perplexed and not fully oriented to time and place.
- Pseudo neurotic Schizophrenia: Pan anxiety, Panphobia, Pan ambivalence, Obsessions and Compulsions
- **Early onset Schizophrenia :- Children**
- Late onset Schizophrenia:- >45 yrs.

Differential Diagnosis Of Schizophrenia

Psychiatric Illness	Medical or Neurological Conditions
Brief psychotic disorder	Substance Induced
Schizophreniform Disorder	Neoplasm, CVA, Trauma
Schizoaffective disorder	Epilepsy
Delusional disorder	AIDS
Personality Disorders-Schizoid, Schizotypal Etc.	Vit B 12 Deficiency, Pellagra
Mood Disorder	Poisoning Example: CO or heavy metal
Psychosis NOS	SLE, Neurosyphilis, Wilson disease, Huntington disease
	Normal Press Hydrocephalus
	Metabolic disorder.

MENTAL STATUS EXAMINATION(MSE)

- General appearance: Agitated, Violent or completely silent, poorly groomed. We can see Gesticulating, Hallucinating or Muttering Behavior.
 - May show abnormal postures, Mootness, Negativism, Automatic Obedience, waxy flexibility or Echopraxia.
- Mood:- Reduced emotional responsiveness, may be anxious or perplexed.
- Affect:- Inappropriate/ Restricted/Blunt/Flat.
- Thought:- Poverty of Speech, Tangentiality, Loosening of association, echolalia, Derailment, Delusion of Reference/ Persecution/Infidelity. Thought Blocking/Thought Reading/ Insertion/Withdrawal/Broadcasting
- Perception:- Hallucinations.
- Concept:- Impaired.
- Orientation and Memory:- Intact.
- Insight:- Absent.
- Judgement:- Impaired.

Neurological Findings

- Soft signs:- Impaired fine motor skills, abnormal movements, Dysdiadochokinesia, Astereognosis etc.
- Eye examination:- Increased blink rate.

Systemic Examination

- Cardiovascular System
- Abdomen
- Respiratory System

DSM IV TR Diagnostic Criteria for Schizophrenia

- A) Characteristic Symptom of two or more of the following.
- Delusion.
- Hallucination.
- Disorganized Speech.
 (Example:- Derailment, Loosening of Association)
- Disorganized or Catatonic Behavior.
- Negative symptoms.
- B) Social or Occupational Impairment.
- C) Duration of illness should be at least 6 months.
- D) Exclusion of Substance Use or General Medical Condition.

OTHER DIAGNOSTIC CRITERIA

Projective tests:- Rorschach test.

Thematic apperception test.

May indicate Bizarre ideations.

Personality inventory test:- MMPI.

COURSE OF ILLNESS

- Positive symptoms tend to become less severe with time.
- Negative symptoms increase in severity with time.
- Exacerbation or Remission can occur.

PROGNOSIS

10 - 20% Patients - Good outcome.

Complete Remission - 20-30 %.

Remission with Moderate symptoms - 20-30 %.

No Significant Remission - 30-40 %

MANAGEMENT

Investigations.

Treatment.

Pharmacotherapy and Psychotherapy



INVESTIGATION

All Routine Investigations should be done.

Urine:- Routine and Microscopic examination.

Hb, CBC

BSL:- Fasting and PP SOS.

Liver function tests:- Sr. Bilirubin, SGOT, SGPT Etc.

Renal function tests:- Sr. Creatinine, BUN Etc.

Serum Electrolytes:- i.e. Sodium and Potassium.

Chest X ray and ECG:- If age is > 40 yrs.

Fundoscopy:- SOS.

CT Scan and MRI Brain: SOS.

Treatment – Pharmacotherapy And Psychotherapy

Acute Phase:

- Aim- Reduction of Symptoms.
- If co-operative : Orally
- Non co-operative Patient : IM or IV

Inj. Haloperidol 5 mg with Inj. Phenergan 25 mg IM or IV. Orally -For **Positive symptoms:** Tb. Haloperidol 5-20 mg with Tb. Trihexyphenidyl 2-8 mg/day Tb. Chlorpromazine 25 Mg HS for sleep.

For Negative symptoms: Olanzapine 5-20 mg or

Risperidone 2-8 mg or

Quetiapine 50-400 mg or

Clozapine 50-300 mg can be given.

TREATMENT — Continued...

- IF Patient is Violent not controlled with medications or situations where rapid control of symptoms is required ECT i.e. Electro convulsive therapy is treatment of option.
- During Acute Phase: Educate the family about Illness, role of medication.

TREATMENT - Continued...

Post Acute Phase:-

- Aim:- Continued reduction of symptoms
 Prevention of relapse.
- Antipsychotic Drugs:- Drugs used in acute phase should continue on same dose for next 6-12 months.
- ECT:- 6-8 ECT should be given if required under General Anesthesia.
- Psychosocial Intervention: Further Psychoeducation of family members.
- Educate Patient about medications and relatives about side effects and supervision by relatives.

TREATMENT - Continued...

Stable / Maintenance Phase:-

- Aims:- 1.To Maintain or Improve functioning and Quality of life.
 2.Prevention of Recurrence.
- Antipsychotic Drugs:-

Reduce dose gradually at rate about **20%** every **6 months** till a minimum effective dose is reached. Eg. 2.5 mg of Tb. Haloperidol

- Monitor signs and symptoms for evidence of relapse.
- Duration of Treatment: 1st Episode: 6 months of maintaince treatment.
 2nd Episode: for 2 yrs.
 3rd or more Episodes: for 5 yrs. or life long
- Psychosocial Intervention: Find out Key Member or Case Manager from family who should take responsibility pf patients treatment. Educate him about illness, treatment, side effects, warning signs etc.
- Other Interventions:- Imparting social skills like Shopping, Cooking etc.
 Vocational Rehabilitation: In case of problems at work places.

SCAN ME



अधिक माहितीसाठी संपर्क करा...

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Please Give Feedback

THANK YOU

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