

Patho of Schizophrenia Cheat Sheet

by Shelbi (kfisher17) via cheatography.com/79317/cs/21873/

PSYCHOSIS

A Sx of mental illness characterized by the loss of contact with reality

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Manifestations	Hallucinations			
	Disorganized thoughts and speech			
	Emotions exhibited in an abnormal manner			
Causes				
Functional	Schizophrenia			
	Manic phase of bipolar disorders			
	Psychotic depression			
Organic	Alzheimer's Disease			

	Other causes of dementia
	Brain tumors
Drug Abuse	Cocaine
	Amphetamines

STRUCTURAL ABNORMALITIES IN SZ

Decreased cortical thickness in the absence of gliosis

PCP ("angel dust")

Reduction in the volume of the frontal love, medial temporal lobe, thalamus, and hippocampus ⇒ increased ventricular size

Decreased blood flow and glucose metabolism in the frontal lobe and left temporal lobe

Abnormal (excessive) **synaptic pruning** ⇒ decreased umber of glutamatergic dendritic spines in PFC

Risk is increased if a specific variant in a gene related to synaptic pruning ⇒ Complement Component 4 (C4)

Gliosis: the proliferation of glial cells ⇒ occurs as a compensatory change in the degenerative diseases in the brain (typically later in life)

Synaptic Pruning: the process of synapse elimination that occurs between age 2 and onset of puberty

C4: plays a role in the immune system and also in brain development

Neurotransmitters

Multiple NT systems interact to cause the signs and sx of SZ

Functional abnormalities are related to alterations in:

Dopamine

Glutamate

Serotonin

Positive Symptoms

Disorganized speech, thoughts, and beliefs

- May lose track of their ideas, meanings, and words (word salad)
- Thought processes are disconnected (loose associations)
- Ideas and images may become jumbled or linked together illogically
- Words and meanings that should be linked may become diconnected

Disorganized Movement and Behaviors

- May use exaggerated or repeated gestures
- May seem to be fidgeting, hyperactive, or preoccupied with meaningless physical movements

Cognitive Symptoms

Impaired Attention

• Trouble focusing or paying attention

Impaired Working Memory

· Ability to use information immediately after learning it

Poor Executive Function

Ability to understand information and use it to make decisions

Patients often have difficulty learning from their experiences and can repeatedly make the same mistakes in situations requiring judgment

Poor insight into the severity of their disorder; tend to d/c therapy

SCHIZOPHRENIA (SZ)

Epidemiology

Lpideimology			
Onset	Most common in young adults		
	Onset before adolescence or after 40 yr is extremely		
	rare		
	Onset in males occurs earlier than females		
Prevalence	Equal (male vs female)		
	In general, better outcomes in females		



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SCHIZOPHRENIA (SZ) (cont)		Dopaminergic Pathways in the Brain	
Suicide	~ 15%	Nigrostriatal	
Etiology	Unknown	Originates in the substantia nigra	Projects to the striatum
	Cause is multifactorial		
Genetics	Significant genetic component with a	Negative Symptoms Alogia and Poverty of Speech	
	complex, non-Mendelian inheritance Greatest risk factor ⇒ positive family hx	May speak very little	
	Many genes involved ⇒ pt's inherit several	Speech may have little meaningful content	
	risk genes	May have long delays between words and sentences	
	⇒ SNP's and CNVs	Flattening or Blunting of Affect	
Environmental	Pt's more likely to experience:	May have reduced emotional expression	
	premature birth	May not smile or frown in response to happy or sad events	
	low birth weight	Voices may not change tone or pitch	
	perinatal hypoxia	May not maintain eye contact or other kinds of emotional links with people	
	Maternal viral infxn during pregnancy (espe-		
	cially during the 2nd trimester)	Anhedonia and Avolition	
Early Neurodeve- Brain vulnerability by genetic predisposition lopmental Defect		May seem to lose interest in and energy for pleasurable activities	
		and achievements	
	Combined with environmental factors or	Lack of desire, drive, or motivation to pursue meaningful goals	
	stressors	Catatonia and Posturing	
	⇒ Abnormal migration of neurons during CNS development	May freeze into unusual body positions	
		May stop moving entirely	
	⇒ Results in Abnormal neuronal connectivity and abnormal brain circuits	Sometimes hold rigid poses for hours and will ignore external stimuli	
	⇒ Schizophrenia	May show stereotyped repetitive mo	vements
SZ is more frequent in people born in cities and born between January and April (northern hemisphere) SNPs: single nucleotide polymorphisms		Lack of Motivation and Social With	
		Contribute to poor-self care skills	
		Difficulties maintaining employment	and living independently
CNVs: Specific copy number variations			



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