PIONEERS IN THE FIELD OF PSYCHIATRY

- Emil Kraepelin: Divided major mental illness into Dementia precox and Manic depressive insanity
- Sigmund Freud:
 - o Founder of Psychoanalysis
 - o Dream interpretation
 - Theory of infantile sexuality
 - Structural and topographical model of mind
 - o Theory of instincts
 - o Ego defence mechanisms
 - o Id, ego and superego
 - Stages of psychosexual development
- **Eugen Blueler:** Gave 4 A's of schizophrenia. (Autism, Affective flattening, Ambivalence, loosening of Association)
- Leo Kanner defined autism
- Skinner operant conditioning
- Pavlov- classical conditioning
- John F cade Lithium
- Reserpine First drug used in treating psychosis
- Ugo Cerletti and Lucio Bini ECT
- Egas Moniz and Almenda Lima Psychosurgery (prefrontal leucotomy)
- **Emil Durkeim** Sociology theory of suicide
- Thomas Sydenham Hysteria
- Adolf Meyer: founder of psychobiology
- John Broadus Watson: founder of behaviorism
- Philippe Pinel: abandoned forceful restraints, proposed morale & humane Rx of the mentally ill.
- Paolo Zacchia first forensic psychiatrist
- Johann Weyer Father of modern psychiatry

Personality	Coined the term
Eugen Bleuler	Schizophrenia
James Braid	Hypnosis
Reil Johan Christian	Psychiatry
Eward Hecker	Hebephrenia
Emil Kraeplin	Dementia precox
Sigmund Freud	Free association
2	Oedipus complex, Electra complex
	Penis envy, Psychoanalysis
	Ego defence mechanism
	Pleasure principle, Reality principle
Alfred Adler	Inferiority complex



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Diagnosis and Classification in Psychiatry

The Five Axes of DSM-IV-TR

- AXIS I: Clinical Psychiatric Diagnosis
- AXIS II: Personality Disorder and Mental Retardation
- AXIS III: General Medical Conditions
- AXIS IV: Psychosocial and Environment Problems

II.

AXIS V: Global Assessment of functioning: Current and in past one year (Rated on a scale)

Normal experiences

- Hypnagogic hallucinations (Abnormal perception at the time of falling asleep)
- Hypnopompic hallucinations (Abnormal perception at the time of waking up)
- Near death experiences (complex hallucinatory phenomenon in people who perceive death to be imminent)
- Pseudo hallucinations
- Ideas of reference
- Panoramic memory

THINKING PROCESSES

- **Abstract thinking:** thinker can conceptualize or generalize, understanding that each concept can have multiple meanings.
- Concrete thinking: thinking is limited to what's in front of the face, and the here and now.

Freud's Primary and Secondary thinking processes:

Primary Process:

- Drive-dominated, prelogical, preverbal, imaginative thinking
- Consists of those mental processes which are directly related to functions of the primitive life forces associated with the Id
- The Id has no contact with reality and works on the Pleasure Principle.
- Primary Process is characteristic of unconscious mental activity; marked by unorganized, non-logical thinking and by the tendency to seek immediate discharge and gratification of instinctual urges.
- When Primary Process plays a significant role in a person's thinking he is incapable of being inner-directed.

Secondary Process:

- Reality oriented, goal-directed, logically ordered, rational, concrete and/or abstract conceptual thinking
- Consists of those mental processes which are directly related to learned and acquired functions of the Ego
- Characteristic of **conscious and preconscious mental activity**; marked by **logical thinking** and by the tendency to **delay gratification by regulation** of the discharge of instinctual demands.

TERMINOLOGIES IN PSYCHIATRY

- Apraxia: Inability to perform skilled motor movements in the presence of normal comprehension, muscle strength and coordination
- Aphasia: Loss or impairment of linguistic ability as a result of brain damage
- Agnosia: Deficits in self-experience (anosognosia denial of illness)
- Anhedonia: Lack of interest in pleasurable activities (depression)
- Catastrophic reaction: Sudden agitation, anger when demented persons or persons with head injury are asked to perform tasks beyond their capacity
- Compulsion: An act performed repeatedly to reduce anxiety in response to obsessive thought
- Confabulation: falsification of memory in clear consciousness (Korsakoff's psychosis)
 - o Due to hypothalamic-diencephalic lesions
 - Does not occur in bilateral hippocampal lesions (insight also preserved)
 - O Two types:
 - 1. Momentary brief in content and has to be provoked; can be traced to a time-dislocated true memory



2. Fantastic - sustained; spontawww. FitstRankevicom ndiose, farwwwe FirstRanker.com

- Coprolalia: Forced vocalization of obscene words or phrases (Tourette's syndrome)
- **Deja vu:** Familiarity of unfamiliar situation
- Jamais vu: Unfamiliarity of the familiar situation (temporal lobe epilepsy/schizophrenia)
- Echolalia: Repetition of phrases or sentences (schizophrenia/Mental retardation/learning disability/dementia/head injury/Tourette's syndrome)
- Echopraxia: Repetition of acts done by examiner
- **Perseveration:** Persisting with same reply beyond point of relevance (Organic brain lesions) "where do you live?", "London", "How old are you", "London"...
- Palilalia perseverated word is repeated with increasing frequency
- Logoclonia perseveration of the last syllable of the last word
- Neologism: New word formation (schizophrenia)
- Palimpsest: Also called as alcoholic black out
- Stereotypy: Repetitive and bizarre movement, non-goal directed (schizophrenia, autism)
- **Verbal stereotypy** repetition of a word or phrase (Stock word) which has no immediate relevance to the context.
- Abreaction: A process by which repressed material, particularly painful experience or a conflict is brought back to consciousness.
- Alexithymia: Inability to describe or being aware of one's emotions.
- **Mood** is the pervasive feeling tone which is sustained (lasts for some length of time) and colours the total experience of the person.
- Affect is the outward objective expression of the immediate, cross-sectional experience of emotion at a given time.

Neurotransmitters & Associated Disorders

- OCD: decrease in serotonin.
- Alzheimer's disease: decrease in Ach & Nor-adrenaline.
- **Schizophrenia**: increased serotonin, nor adrenaline & dopamine.
- **Depression**: decreased serotonin, nor adrenaline & dopamine.

Features	Psychosis	Neurosis	
Judgment Insight Personality Contact with reality	Lacking or impaired	Present	
Delusions/ Hallucinations	Common	Usually not present	
Examples	 Schizophrenia Delusional disorder Mood disorder Mania Depression Bipolar disorder 	 Phobia Dissociative disorder Conversion / somatoform disorder OCD (Obsession Compulsive Disorder) Anxiety: Generalized anxiety & Panic disorder 	

DISORDERS OF PERCEPTION

- Hallucination
- Illusion
- Derealization
- Depersonalization

Hallucination

- Perceptions which arise in the absence of any external stimulus.
- Characteristics:
 - o Unwilled not subject to conscious manipulation
 - Has the same qualities of a real perception, i.e. Vivid, solid



o Perceived as being located in the www.fiirstRankerscome sensory model is (stRankerscome olfactory, gustatory, tactile)

- Auditory hallucination commonest type in psychiatric disorders
- **Visual** hallucination Suspect **organic** etiology/ withdrawal states)
 - Unformed hallucinations flashing or steady spots, colored lines and shapes
 - o Formed hallucinations vivid objects, flowers, animals and persons
 - Visual hallucinations of temporal lobe are usually complex, formed hallucinations
 - Unformed hallucinations are common with disorders of the occipital lobe
- Olfactory hallucination- Temporal lobe epilepsy
- Tactile hallucination Cocaine/alcohol abusers
- Gustatory hallucination schizophrenia/temporal lobe epilepsy/ Lithium/disuifiram users
- Hypnagogic hallucinations (Abnormal perception at the time of falling asleep)
- Hypnopompic hallucinations (Abnormal perception at the time of waking up)
- Extracampine hallucinations: hallucinations outside the field of sensory perception (eg: outside visual field).

HALLUCINATIONS	PSEUDOHALLUCINATIONS
Bright vivid perception just like reality	The lack of vividness (e.g., impossible to distinguish male and female voices)
Patient gets it with natural way of perception (with eyes, ears etc.) from the real perpetual space (extraprojection)	Patient got it with other perception (internal vision or hearing) from out of perpetual space (e.g., intraprojection)
Confidence in the fact that other people have the same perceptions	Ideas of distant influence organized especially for the patient
Excitement or attempts to act with the false objects. More frequent in the evening and night	Indifferent behavior or passive defence (e.g., attempts to shield with metal net or screen)
Typical delirium and other organic disorders	Typical for paranoid schizophrenia

Charles Bonnet Syndrome (CBS)

- A disorder in which patients with normal cognition experience consistent or periodic complex (formed) visual hallucinations
- Have no evidence of dementia, drug abuse, neurological or psychiatric abnormalities

Illusion three types

- A type of false perception in which the perception of a real world object is combined with internal imagery to produce a false internal perception
- Affect illusion: Misperception + heightened emotion (e.g., while walking across a lonely park at night, briefly seeing a tree moving in the wind as an attacker)
- Completion illusion: it depends on inattention such as misreading words in newspapers
- Pareidolic illusion: These are meaningful perceptions produced when experiencing a poorly defined stimulus (seeing faces in fire or clouds)

Depersonalization-Derealisation syndrome

- Depersonalization alteration in the **perception of self**, so that feeling of one's own reality is temporarily changed or lost
- The person affected is not delusionally convinced about the change, and instead describes it to have occurred, as-f
- Derealisation alteration in the **perception of the external world**, so that feeling of reality of external world s temporarily changed or lost
- Both are 'as if' phenomenon
- Insight is present
- Episodes occur in the presence of a clear sensorium

DISORDERS OF CONTENT OF THOUGHT www.FirstRanker.com

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- Thought insertion/withdrawal
- Thought broadcast
- Delusion
- Passivity phenomenon: Made action/Made impulse/Made affect

DELUSION

- Disorder of thought
- Fixed, (usually) false or firm unshakeable idea, held in the face of evidence to the contrary, and out of keeping with the patient's social milieu'

Primary (Autochthonous) delusions

- Arise de novo
- Cannot be explained on the basis of other experiences or perceptions
- Characteristic of schizophrenia (early stages)
- Types
 - Delusional intuition (autochthonous)
 - Delusional perception
 - Delusional atmosphere
 - Delusional memory.

Secondary delusions

- Commonest type
- Can be seen in other psychoses
- Types:
 - Persecutory (most common type) believe that people are conspiring against them.
 - o **Grandiose** believe they have a special ability or mission.
 - Poverty believe they have been rendered penniless.
 - o Guilt believe they have committed a crime and deserve punishment.
 - Nihilistic believe they are worthless or non-existent.
 - o Reference believe they are being referred to by magazines/television.
 - o Amorous believe another person is in love with them.
 - Passivity experiences believe they are being made to do something, or to feel emotions, or are being controlled from the outside; somatic passivity – feel as though they are being moved from outside.
 - Capgras syndrome (Delusion of doubles) thinks that a familiar person is replaced by an identical looking stranger
 - o Fregoli syndrome thinks that a stranger is replaced by a familiar person
 - Othello syndrome or Conjugal paranoia: When the content of delusion is predominantly jealousy or infidelity involving the spouse
 - Hypochondriacal paranoia or Delusional dysmorphophobia delusion of body parts being ugly
 - Clerambault's syndrome or Erotomania
 - ➤ Mostly in women
 - > She thinks that a person (usually a higher status) is in love with her

Catatonia (Karl Kahlbaum, 1874)

- Predominantly motor disorder thought to be related to affective disorder
- May be found as part of chronic schizophrenia and occasionally in organic cerebral disorders
- Core features are
 - Posturing
 - Stereotypies
 - Waxy flexibility



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- Absence of relational functions, i.e. action and speech
- Usually involves clouding of consciousness
- Occurs in:
 - Schizophrenia (30 %)
 - Depression (25 %)
 - o Psychological trauma (psychogenic stupor)
 - Mania
 - o Organic brain lesions (20 %):
 - > Diencephalon and upper brain stem
 - > Frontal lobe
 - > Basal ganglia
- The 'locked in' syndrome is due to lesions in the ventral pons
- Severe stupor seems to have a better prognosis
- Spontaneous resolution occurs in 30 % of cases

Sigmund Freud's psychoanalytic theories

Topographic theory of mind

Mind is divided into

- The unconscious
- The preconscious
- The conscious

Structural theory of mind

The mental apparatus is divided into

- The Id
- The Ego
- The Super-ego

COMMONLY USED EGO DEFENSE MECHANISMS:

	Defense Mechanism	Clinical situations	
Narcissistic	Denial	Psychoses	
		Alcohol dependence	
	Projection	Persecutory delusions	
		Hallucinations	
	Distortion	Hallucinations	
		Delusion of grandiosity	
Immature	Acting out	Impulse control disorders	
	Hypochondriasis	Hypochondriasis	
	Introjection	Depression	
	Regression	Neuroses, Psychoses	
		Severe, prolonged physical illness	
	Schizoid fantasy	Schizoid personality disorder	
		Schizotypal personality disorder	
	Somatization	Somatoform disorders	
Neurotic	Displacement	Phobia	
		OCD	
	Inhibition	OCD	
		Phobia	
	Reaction formation	OCD	
	Dissociation	Dissociative disorders disorder	
	Isolation	Obsessional thoughts	

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irstranke	Repression	www	. Fiyst Rankencom	www.FirstRanker.con
	Conversion		Conversion disorder (Hyste	eria)
	Undoing		Compulsive acts in OCD	
	Others: Intellect	ualization, F	Rationalization, Externalizati	ion, Controlling, Sexualization
Mature	Altruism			
	Anticipation			
	Asceticism			
	Suppression			
	Sublimation			
	Humour			

Theory of Psychosexual development

Oral phase	Birth – 18 months	Mouth is the site of gratification (schizophrenia, mood disorder, alcohol dependence)	
Anal phase	1– 3years	Involved in bladder and bowel control Fixation at this phase leads to OCD	
Phallic phase	3 – 5 years	Genital area is the site of satisfaction. Oedipus complex – fear that the wish to get rid of the rival father will result in retaliatory castration	
Latency phase	5 to 11 years	Formation of superego	
Genital phase	11 years – adulthood	Capacity for true intimacy	

Duration criteria of Mental illness (ICD-10)

Adjustment disorder	Onset < 1 month till 6 months
Persistent delusional disorder	3 months
Acute psychosis (brief psychotic disorder in DSM-	weeks (less than 1 month in DSM IV)
Dementia	6 months
Schizophrenia	1 month (6 months as per DSM IV)
Schizotypal disorder	2 years
(included under personality disorders in DSM-IV and under schizophrenia in ICD-10)	
Somatisation disorder	2 years
PTSD	Onset within 6 months of trauma, Duration of the disturbance is more than 1 month.
Acute stress reaction	Onset within minutes of life event resolves within 3
Hypomania	4 days
Mania	1 week
Obsessive compulsive disorder	2 weeks
Panic disorder	1 month
Dysthymia	2 years
Depression	2 weeks

Kubler-Ross stages of Death and Dying

- Stage 1: Shock and Denial
- Stage 2: Anger
- Stage 3: Bargaining
- Stage 4: Depression
- Stage 5: Acceptance

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Firstranker's choice COMMON EMERGENCIES IN PSYCHIA		www.FirstRanker.com
Syndrome	Emergency Manifestations	Treatment Issues
Abuse of child or adult	Signs of physical trauma	Management of medical problems;
Acquired immune deficiency	Changes in behavior secondary to	Management of neurological illness;
syndrome (AIDS)	organic causes; changes in behavior	management of psychological
	secondary to fear and anxiety;	concomitants; reinforcement of
	suicidal behaviour	social support
Adolescent crises	Suicidal attempts and ideation;	Crisis-oriented family and individual
	substance abuse, truancy, trouble	therapy; hospitalization if necessary;
	with law, pregnancy, running away;	consultation with appropriate
	eating disorders; psychosis	extrafamilial authorities
Agoraphobia	Panic; depression	Alprazolam, propranolol;
		antidepressant medication
Agranulocytosis (clozapine-induced)	High fever, pharyngitis, oral and	Discontinue medication immediately
	perianal ulcerations	administer granulocyte colony-
	'	stimulating factor
Akathisia	Agitation, restlessness, muscle	Reduce antipsychotic dosage;
, matrisia	discomfort; dysphoria	propranolol; benzodiazepines;
	a.comor, ayapirona	diphenhydramine orally or IV;
		benztropine IM
Alcohol-related emergencies	I	SCHZU OPINE IIVI
Alcohol delirium	Confusion, disorientation, fluctuating	Chlordiazepoxide; haloperidol
Alcohol delil lulli	1	Chiordiazepoxide, haloperidoi
	consciousness and perception,	
	autonomic hyperactivity; may be	
	fatal	
Alcohol intoxication	Disinhibited behavior, sedation at	With time and protective
	high doses	environment, symptoms abate
Alcohol persisting amnestic disorder	Confusion, loss of memory even for	Hospitalization; hypnosis;
	all personal identification data	amobarbital interview; rule out
		organic cause
Alcohol persisting dementia	Confusion, agitation, impulsivity	Rule out other causes for dementia;
		no effective treatment;
	0,0	hospitalization if necessary
Alcohol psychotic disorder with	Vivid auditory (fat times visual)	Haloperidol for psychotic symptoms
hallucinations	hallucinations with affect	
	appropriate to content (often	
	fearful); clear sensorium	
Alcohol seizures	Grand mal seizures; rarely status	Diazepam, phenytoin; prevent by
711001101 301201 03	epilepticus	using chlordiazepoxide during
The state of the s	cpricas	detoxification
Alcohol withdrawal	Irritability, nausea, vomiting,	Fluid and electrolytes maintained;
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	insomnia, malaise, autonomic	sedation with benzodiazepines;
	hyperactivity, shakiness	restraints; monitoring of vital signs;
		100 mg thiamine IM
Idiosyncratic alcohol intoxication	Marked aggressive or assaultive	Generally no treatment required
	behaviour	other than protective environment
Korsakoff's syndrome	Alcohol stigmata, amnesia,	No effective treatment;
	confabulation	institutionalization often needed
Wernicke's encephalopathy	Oculomotor disturbances, cerebellar	Thiamine, 100 mg IV or IM, with
1 1 1 2 7	ataxia; mental confusion	MgSO4
	,	given before glucose loading
	1	1 0.1 511 Serore Biacose rouding
Amnhetamine (or related substance)	Delusions paranoia: violence:	Antingychotics, restraints,
Amphetamine (or related substance)	Delusions, paranoia; violence;	Antipsychotics; restraints;
Amphetamine (or related substance) intoxication	depression (from withdrawal);	hospitalization if necessary; no need
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Anorexia nervosa	Los swinzw: Frir St R, and kent. Grone norm for age and sex	Hosp www.foir;stRankeri.gom (ECG), fluid and electrolytes;		
Anticholinergic intoxication	Psychotic symptoms, dry skin and mouth, hyperpyrexia, mydriasis, tachycardia, restlessness, visual hallucinations	Discontinue drug, IV physostigmine 0.5 to 2 mg, for severe agitation or fever, benzodiazepines; antipsychotics contraindicated		
Anticonvulsant intoxication	Psychosis; delirium	Dosage of anticonvulsant is reduced		
Benzodiazepine intoxication	Sedation, somnolence, and ataxia	Supportive measures; flumazenil, 7.5 to 45 mg a day, titrated as needed, should be used only by skilled personnel with resuscitative equipment available		
Bereavement	Guilt feelings, irritability; insomnia; somatic complaints	Must be differentiated from major depressive disorder; antidepressants not indicated; benzodiazepines for sleep; encouragement of ventilation		
Borderline personality disorder	Suicidal ideation and gestures; homicidal ideations and gestures; substance abuse; micropsychotic episodes; burns, cut marks on body	Suicidal and homicidal evaluation (if great, hospitalization); small dosages of antipsychotics; clear follow-up plan		
Brief psychotic disorder	Emotional turmoil, extreme lability; acutely impaired reality testing after obvious psychosocial stress	Hospitalization often necessary; low dosage of antipsychotics may be necessary but often resolves spontaneously		
Bromide intoxication	Delirium; mania; depression; psychosis	Serum levels obtained (>50 mg a day); bromide intake discontinued; large quantities of sodium chloride IV or orally; if agitation, paraldehyde or antipsychoticis used		
Caffeine intoxication	Severe anxiety, resembling panic disorder; mania; delirium; agitated depression; sleep disturbance	Cessation of caffeine-containing substances; benzodiazepines		
Cannabis intoxication	Delusions; panic; dysphoria; cognitive impairment	Benzodiazepines and antipsychotics as needed; evaluation of suicidal or homicidal risk; symptoms usually abate with time and reassurance		
Catatonic schizophrenia	Marked psychomotor disturbance (either excitement or stupor); exhaustion; can be fatal	Rapid tranquilization with antipsychotics; monitor vital signs; amobarbital may release patient from catatonic mutism or stupor but can precipitate violent behavior		
Cimetidine psychotic disorder	Delirium; delusions	Reduce dosage or discontinue drug		
Clonidine withdrawal	Irritability; psychosis; violence; seizures	Symptoms abate with time, but antipsychotics may be necessary; gradual lowering of dosage		

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Eirstranker's choice Cocaine intoxication and withdrawal	Parawww.fbirstRankerecom anxiety; manic state; delirium: schizophreniform psychosis;	Antiwww:EirstRankeracomes; antidepressants or ECT for withdrawal depression if persistent;				
	tachycardia, hypertension, myocardial infarction, cerebrovascular disease; depression and suicidal ideation	hospitalization				
Delirium	Fluctuating sensorium; suicidal and homicidal risk; cognitive clouding; visual, tactile, and auditory	Evaluate all potential contributing factors and treat each accordingly; reassurance, structure, clues to orientation;				
	hallucinations; paranoia	benzodiazepines and low-dosage, high- potency antipsychotics must be used with extreme care because of their potential to act paradoxically and increase agitation				
Delusional disorder	Most often brought in to emergency room involuntarily; threats directed toward others	Antipsychotics if patient will comply (IM if necessary); intensive family intervention; hospitalization if necessary				
Dementia	Unable to care for self; violent outbursts; psychosis; depression and suicidal ideation; confusion Small dosages of high-potenc antipsychotics; clues to orient organic evaluation, including medication use; family interv					
Depressive disorders	Suicidal ideation and attempts; self- neglect; substance abuse hospitalization if necessary, nonpsychiatric causes of dep must be evaluated					
L-Dopa intoxication	Mania; depression; schizophreniform disorder, may induce rapid cycling in patients with bipolar I disorder	Lower dosage or discontinue drug				
Dystonia, acute	Intense involuntary spasm of muscles of neck, tongue, face, jaw, eyes, or trunk Decrease dosage of antips benztropine or diphenhydromatical benzione or diphenhydromatical benztropine or diphenhydromatical benz					
Group hysteria	Groups of people exhibit extremes of grief or other disruptive behavior	Group is dispersed with help of other health care workers; ventilation, crisis- oriented therapy; if necessary, small dosages of benzodiazepines				
Hallucinogen-induced psychotic disorder with hallucinations	Symptom picture is result of interaction of type of substance, dose taken, duration of action, user's premorbid personality, setting; panic; agitation; atropine psychosis	Serum and urine screens; rule out underlying medical or mental disorder; benzodiazepines (2 to 20 mg) orally; reassurance and orientation; rapid tranquilization; often responds spontaneously				
Homicidal and assaultive behavior	Marked agitation with verbal threats	Seclusion, restraints, medication				

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Homosexual panic	NotwearwwFiinstRankencomo	Ventwaw, EinstRanker.com
	are comfortable with their sexual	structuring, and, in some instances,
	orientation; occurs in those who	medication for acute panic (e.g.,
	adamantly deny having any	alprazolam, 0.25 to 2 mg) or
	homoerotic impulses; impulses are	antipsychotics may be required;
	aroused by talk, a physical overture,	opposite-sex clinician should
	or play among same-sex friends,	evaluate the patient whenever
	such as wrestling, sleeping together,	possible, and the patient should not
	or touching each other in a shower	be touched save for the routine
	or hot tub; panicked person sees	examination; patients have attached
	others as sexually interested in him	physicians who were examining an
	or her and defends against them	abdomen or performing a rectal
	or mor and decemberagement them.	examination (e.g., on a man who
		harbors thinly veiled unintegrated
		homosexual impulses)
Lhunguta naiya awisia	Life threatening by mortansing	
Hypertensive crisis	Life-threatening hypertensive	Adrenergic blockers (e.g.,
	reaction secondary to ingestion of	phentolamine); nifedipine 10 mg
	tyramine-containing foods in	orally; chlorpromazine; make sure
	combination with MAOIs; headache,	symptoms are not secondary to
	stiff neck, sweating, nausea,	hypotension (side effect of
	vomiting	monoamine oxidase inhibitors
		[MAOIs] alone)
Hyperthermia	Extreme excitement or catatonic	Hydrate and cool; may be drug
	stupor or both; extremely elevated	reaction, so discontinue any drug;
	temperature; violent hyperagitation	rule out infection
Hyperventilation	Anxiety, terror, clouded	Shift alkalosis by having patient
,,	consciousness; giddiness, faintness;	breathe into paper bag; patient
	blurring vision	education; antianxiety agents
Hypothermia	Confusion; lethargy; combativeness;	IV fluids and rewarming, cardiac
Пуротпенна	low body temperature and shivering;	status must be carefully monitored;
	paradoxical feeling of warmth	avoidance of alcohol
Incest and sexual abuse of child	Suicidal behavior; adolescent crises;	Corroboration of charge, protection
	substance abuse	of victim; contact social services;
	: 15	medical and psychiatric evaluation;
		crisis intervention
Insomnia	Depression and irritability; early	Hypnotics only in short term; e.g.,
III30IIIIIIa	morning agitation; frightening	triazolam, 0.25 to 0.5 mg, at
77	dreams; fatigue	bedtime; treat any underlying
		mental disorder; rules of sleep
Intermittant avalative discades	Drief outhursts of violes as a said it	hygiene Reprodictions or antipsychotics
Intermittent explosive disorder	Brief outbursts of violence; periodic	Benzodiazepines or antipsychotics
	episodes of suicide attempts	for short term; long-term evaluation
		with computed tomography (CT)
		scan, sleep- deprived
		electroencephalogram (EEG),
		glucose tolerance curve
Jaundice	Uncommon complication of low-	Change drug to low dosage of a low-
	potency phenothiazine use (e.g.,	potency agent in a different class
	chlorpromazine)	
Leukopenia and agranulocytosis	Side effects within the first 2 months	Patient should call immediately for
	of treatment with antipsychotics	sore throat, fever, etc., and obtain
		immediate blood count; discontinue
		drug; hospitalize if necessary
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Firstranker's choice Lithium toxicity	Von www.abdratRankerpcome diarrhea; severe tremor, ataxia; coma; seizures; confusion; dysarthria; focal neurological signs	Lava yewwh First Rankee; com tic diuresis; medical consultation; may require ICU treatment
Major depressive episode with psychotic features	Major depressive episode symptoms with delusions; agitation, severe guilt; ideas of reference; suicide and homicide risk	Antipsychotics plus antidepressants; evaluation of suicide and homicide risk; hospitalization and ECT if necessary
Manic episode	Violent, impulsive behavior; indiscriminate sexual or spending behavior; psychosis; substance abuse	Hospitalization; restraints if necessary; rapid tranquilization with antipsychotics; restoration of lithium levels
Marital crises	Precipitant may be discovery of an extramarital affair, onset of serious illness, announcement of intent to divorce, or problems with children or work; one or both members of the couple may be in therapy or may be psychiatrically ill; one spouse may be seeking hospitalization for the other	Each should be questioned alone regarding extramarital affairs, consultations with lawyers regarding divorce, and willingness to work in crisis- oriented or long-term therapy to resolve the problem; sexual, financial, and psychiatric treatment histories from both, psychiatric evaluation at the time of presentation; may be precipitated by onset of untreated mood disorder or affective symptoms caused by medical illness or insidious-onset dementia; referral for management of the illness reduces immediate stress and enhances the healthier spouse's coping capacity; children may give insights available only to someone intimately involved in the social system
Migraine	Throbbing, unilateral headache	Sumatriptan 6 mg IM
Mitral valve prolapse	Associated with panic disorder; dyspnea and palpitations; fear and anxiety	Echocardiogram; alprazolam or propranolol
Neuroleptic malignant syndrome	Hyperthermia; muscle rigidity; autonomic instability; parkinsonian symptoms; catatonic stupor; neurological signs; 10% to 30% fatality; elevated creatine phosphokinase	Discontinue antipsychotic; IV dantrolene; bromocriptine orally; hydration and cooling; monitor CPK levels
Nitrous oxide toxicity	Euphoria and light-headedness	Symptoms abate without treatment within hours of use
Nutmeg intoxication	Agitation; hallucinations; severe headaches; numbness in extremities	Symptoms abate within hours of use without treatment
Opioid intoxication and withdrawal	Intoxication can lead to coma and death; withdrawal is not life-threatening	IV naloxone, narcotic antagonist; urine and serum screens; psychiatric and medical illnesses (e.g., AIDS) may complicate picture

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Firstranker's choice Panic disorder	Pan w, wew oF, is a tilk a niker.com	Muswww.firatRanken.com anxiety- producing disorders, both medical and psychiatric; ECG to rule out mitral valve prolapse; propranolol (10 to 30 mg); alprazolam (0.25 to 2.0 mg); long- term management may include an antidepressant
Paranoid schizophrenia	Command hallucinations; threat to others or themselves	Rapid tranquilization; hospitalization; long-acting depot medication; threatened persons must be notified and protected
Parkinsonism	Stiffness, tremor, bradykinesia, flattened affect, shuffling gait, salivation, secondary to antipsychotic medication	Oral antiparkinsonian drug for 4 weeks to 3 months; decrease dosage of the antipsychotic
Perioral (rabbit) tremor .	Perioral tumor (rabbitlike facial grimacing) usually appearing after long-term therapy with antipsychotics	Decrease dosage or change to a medication in another class
Phencyclidine (or phencyclidine-like intoxication)	Paranoid psychosis; can lead to death; acute danger to self and others	Serum and urine assay; benzodiazepines may interfere with excretion; antipsychotics may worsen symptoms because of anticholinergic side effects; medical monitoring and hospitalization for severe intoxication
Phenelzine-induced psychotic disorder	Psychosis and mania in predisposed people	Reduce dosage or discontinue drug
Phenylpropanolamine toxicity	Psychosis; paranoia; insomnia; restlessness; nervousness; headache	Symptoms abate with dosage reduction or discontinuation (found in overthe-counter diet aids and oral and nasal decongestants)
Phobias	Panic, anxiety; fear	Treatment same as for panic
Photosensitivity	Easy sunburning secondary to use of antipsychotic medication	Patient should avoid strong sunlight and use high-level sunscreens
Pigmentary retinopathy	Reported with dosages of thioridazine (Mellaril) of 800 mg a day or above	Remain below 800 mg a day of thioridazine
Postpartum psychosis	Childbirth can precipitate schizophrenia, depression, reactive psychoses, mania, and depression; affective symptoms are most common; suicide risk is reduced during pregnancy but increased in the postpartum period	Danger to self and others (including infant) must be evaluated and proper precautions taken; medical illness presenting with behavioral aberrations is included in the differential diagnosis and must be sought and treated; care must be paid to the effects on father, infant, grandparents, and other children

Firstranker's choice Posttraumatic stress disorder	Pan wwoFirstRanker.com flashbacks	Reaswww.af.instRanker.com return to responsibilities; avoid hospitalization if possible to prever chronic invalidism; monitor suicida ideation
Priapism (trazodone [Desyrel]-induced)	Persistent penile erection accompanied by severe pain	Intracorporeal epinephrine; mechanical or surgical drainage
Propranolol toxicity	Profound depression; confusional states	Reduce dosage or discontinue drug monitor suicidality
Rape	Not all sexual violations are reported; silent rape reaction is characterized by loss of appetite, sleep disturbance, anxiety, and, sometimes, agoraphobia; long periods of silence, mounting anxiety, stuttering, blocking, and physical symptoms during the interview when the sexual history is taken; fear of violence and death and of contracting a sexually transmitted disease or being pregnant	Rape is a major psychiatric emergency; victim may have enduring patterns of sexual dysfunction; crisis-oriented therap social support, ventilation, reinforcement of healthy traits, an encouragement to return to the previous level of functioning as rapidly as possible; legal counsel; it woman, methoxyprogesterone or diethylstilbestrol orally for 5 days to prevent pregnancy; if the victim has contracted a venereal disease, appropriate antibiotics; witnessed written permission is required for the physician to examine, photograph, collect specimens, and
	eiRanker.com	release information to the authorities; obtain consent, record the history in the patient's own words, obtain required tests, record the results of the examination, saviall clothing, defer diagnosis, and provide protection against disease psychic trauma, and pregnancy;
Reserpine intoxication	Major depressive episodes; suicidal ideation; nightmares	Evaluation of suicidal ideation; low dosage or change drug; antidepressants of ECT may be indicated
Schizoaffective disorder	Severe depression; manic symptoms; paranoia	Evaluation of dangerousness to sel or others; rapid tranquilization if necessary; treatment of depression (antidepressants alone can enhance schizophrenic symptoms); use of antimanic agents
Schizophrenia	Extreme self-neglect; severe paranoia; suicidal ideation or assaultiveness; extreme psychotic symptoms	Evaluation of suicidal and homicidal potential; identification of any illne other than schizophrenia; rapid tranquilization
Schizophrenia in exacerbation	Withdrawn; agitation; suicidal and homicidal risk	Suicide and homicide evaluation; screen for medical illness; restrain and rapid tranquilization if

necessary; hospitalization if necessary; reevaluation of medication regimen

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Firstranker's choice Sedative, hypnotic, or anxiolytic intoxication and withdrawal	Altewwws FirstRankericom thought-delirium; derealization and depersonalization; untreated, can be fatal; seizures	NalowwwoFiirstBankercom opioid intoxication; slow withdrawal with phenobarbital or sodium thiopental or benzodiazepine; hospitalization
Seizure disorder	Confusion; anxiety; derealization and depersonalization; feelings of impending doom; gustatory or olfactory hallucinations; fuguelike state	Immediate EEG; admission and sleep- deprived and 24-hour EEG; rule out pseudoseizures; anticonvulsants
Substance withdrawal	Abdominal pain; insomnia, drowsiness; delirium; seizures; symptoms of tardive dyskinesia may emerge; eruption of manic or schizophrenic symptoms	Symptoms of psychotropic drug withdrawal disappear with time or disappear with reinstitution of the substance; symptoms of antidepressant withdrawal can be successfully treated with anticholinergic agents, such as atropine; gradual withdrawal of psychotropic substances over two to four weeks generally obviates development of symptoms
Sudden death associated with Antipsychotic medication	Seizures; asphyxiation; cardiovascular causes; postural hypotension; laryngeal-pharyngeal dystonia; suppression of gag reflex	Specific medical treatments
Sudden death of psychogenic origin	Myocardial infarction after sudden psychic stress; voodoo and hexes; hopelessness, especially associated with serious physical illness	Specific medical treatments; folk healers
Suicide	Suicidal ideation; hopelessness	Hospitalization, antidepressants
Sympathomimetic withdrawal	Paranoia; confusional states; depression	Most symptoms abate without treatment; antipsychotics; antidepressants if necessary
Tardive dyskinesia	Dyskinesia of mouth, tongue, face, neck, and trunk; choreoathetoid movements of extremities; usually but not always appearing after long-term treatment with antipsychotics, especially after a reduction in dosage; incidence highest in the elderly and brain-damaged; symptoms are intensified by antiparkinsonian drugs and masked but not cured by increased dosages of antipsychotic	No effective treatment reported; may be prevented by prescribing the least amount of drug possible for as little time as is clinically feasible and using drug-free holidays for patients who need to continue taking the drug; decrease or discontinue drug at first sign of dyskinetic movements
Thyrotoxicosis	Tachycardia; gastrointestinal dysfunction; hyperthermia; panic, anxiety, agitation; mania; dementia; psychosis	Thyroid function test (T3, T4, thyroid- stimulating hormone [TSH]); medical consultation
Toluene abuse	Anxiety; confusion; cognitive impairment	Neurological damage is nonprogressive and reversible if toluene use in discontinued early

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Firstranker's choice		
Vitamin B12 deficiency	Con www. First Ranker vcom	Trea www.uFiinstRankerz.com
	changes; ataxia	
Volatile nitrates	Alternations of mood and behavior; light-headedness; pulsating	Symptoms abate with cessation of use

PSYCHOLOGICAL TESTING

- Reliability assesses the reproducibility of results.
- Validity assesses whether the test measures what it purports to measure.
- The two types of tests are:
- Objective tests:
 - Typically pencil-and-paper tests based on specific items and questions.
 - Yield numerical scores and profiles easily subjected to mathematical or statistical analysis.
- Projective tests:
 - Have no right or wrong answers.

Objective Measures of Personality in Adults	Projective Measures of Personality
Minnesota-Multiphasic Personality Inventory (MMPI)	Rorschach test
Minnesota Multiphasic Personality Inventory-2 (MMPI-2)	Thematic Apperception Test (TAT)
Million Clinical Multiaxial Inventory (MCMI)	Sentence Completion Test
Million Clinical Multiaxial Inventory-II (MCMI-11)	Holtzman Inkblot Technique (HIT)
16 Personality Factor Questionnaire (16 PF)	Figure drawing
Personality Assessment Inventory (PAI)	Make-a-Picture Story (MAPS)
California Personality Inventory (CPI)	The Draw-a-Person test
Jackson Personality Inventory (JPI)	.0
Edwards Personal Preference Schedule (EPPS)	601
Psychological Screening Inventory (PSI)	, 0
Eysenck Personality Questionnaire (EPQ)	0
Adjective Checklist (ACL)	
Comrey Personality Scales (CPS)	
Tennessee Self-Concept Scale (TSCS)	
MMKilist	



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DELIRIUM

• Most common organic mental disorder seen in clinical practice

Etiology:

- Seen in approximately 10 to 30 % of medically ill patients who are hospitalized
- The incidence is higher in postoperative patients
- Predisposing factors
 - Preexisting brain damage (e.g., dementia, cerebrovascular disease, tumor)
 - History of delirium
 - Alcohol or drug dependence & withdrawal
 - > Generalized or focal cerebral lesion
 - Chronic medical illness
 - Surgical procedure and postoperative period
 - > Treatment with psychotropic medicines
 - Present or past history of head injury
 - Diabetes, Cancer
 - Sensory impairment (e.g., blindness)
 - Male gender

Diagnostic Criteria for Delirium, Not Induced by Alcohol and Other Psychoactive Substances

- A. There is **clouding of consciousness**, i.e., reduced clarity of awareness of the environment, with reduced ability to focus, sustain, or shift attention.
- B. Disturbance of cognition is manifest by both:
 - 1. impairment of immediate recall and recent memory, with relatively intact remote memory;
 - 2. **disorientation** in time, place, or person.
- C. At least one of the following psychomotor disturbances is present:
 - 1. rapid, unpredictable shifts from hypoactivity to hyperactivity;
 - 2. increased reaction time;
 - 3. increased or decreased flow of speech;
 - 4. enhanced startle reaction.
- D. There is disturbance of sleep or of the sleep-wake cycle, manifest by at least one of the following:
 - 1. insomnia, which in severe cases may involve total sleep loss, with or without daytime drowsiness, or reversal of the sleep-wake cycle;
 - 2. nocturnal worsening of symptoms;
 - 3. disturbing dreams and nightmares, which may continue as hallucinations or illusions after awakening.
- E. Symptoms have rapid onset and show fluctuations over the course of the day.
- F. There is objective evidence from history, physical and neurological examination, or laboratory tests of an underlying cerebral or systemic disease (other than psychoactive substance-related) that can be presumed to be responsible for the clinical manifestations in Criteria A to D.

Comments

- Emotional disturbances such as depression, anxiety or fear, irritability, euphoria, apathy, or wondering perplexity, disturbances of perception (illusions or hallucinations, often visual), and transient delusions are typical but are not specific indications for the diagnosis. A fourth character may be used to indicate whether or not the delirium is superimposed on dementia
 - Delirium, not superimposed on dementia
 - o Delirium, superimposed on dementia
 - o Other delirium
 - Delirium, unspecified

Clinical Features:

- Sudden onset with fluctuating course
- Cognitive impairment



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- Clouding of consciousness decrease www.firstRanker.com
 environmental stimuli
- Disorientation (mostly in time)
- Perceptual disturbances Illusions, hallucinations
- Delirium may first present with daytime drowsiness and night time insomnia (sun downing)
- Motor symptoms: asterixis, incoordination, carphologia or floccillation (picking movements at cover-sheets and clothes), Multifocal myoclonus
- When a psychiatric illness causes symptoms of delirium, patients are said to have a pseudodelirium
- Delirium can occur in older patients wearing eye patches after cataract surgery (black-patch delirium)

Treatment

- Primary goal: treat the underlying cause.
- Commonly used drug: haloperidol.

DEMENTIA

- Impairment of intellectual functions
- Impairment of memory (predominantly of recent memory, especially in early stages),
- Deterioration of personality with lack of personal care.
- Impairment of judgment and impulse control
- Impairment of abstract thinking.
- No impairment of consciousness

Additional features:

- Emotional lability (marked variation in emotional expression)
- **Catastrophic reaction** (when confronted with an assignment which is beyond the residual intellectual capacity, patient may go into a sudden rage).
- Thought abnormalities, e.g. perseveration, delusions.
- Urinary and faecal incontinence may develop in later stages.
- Disorientation in time; disorientation in place and person may also develop in later stages.
- Neurological signs may or may not be present, depending on the underlying cause.

Dementia	Pseudodementia (Depression)
Patient rarely complains of cognitive	Patient usually always complains about memory
Patient often emphasizes achievements	Patient often emphasizes disability
Patients often appears unconcerned	Patient very often communicates distress
Usually labile affect	Severe depression on examination
Patient makes errors on cognitive examination	Do not know' answers are more frequent
Impairment of recent memory	Rarely impaired
Confabulation may be present	Confabulation very rare
Consistently poor performance on similar tests	Marked variability in performance on similar tests
History of depression less common	Past history of manic and/ or depression episodes

Features	Cortical Dementia	Subcortical Dementia
Site of lesion	Cortex (frontal and temporo parieto- occipital association areas, hippocampus)	Subcortical grey matter (thalamus, basal ganglia, and rostral brain stem)
Examples	Alzheimer's disease, Pick's disease	Huntington' chorea, Parkinson's disease, Progressive supranuclear palsy, Wilson's disease
Severity	Severe	Mild to moderate
Motor system	Usually normal	Dysarthria, flexed/extended posture, tremors, dystonic, chorea, ataxia, rigidity

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Other features	Simple delusions; dep ayawa. FritstRank severe aphasia, amnesia, agnosia, apraxia, acalculia, slowed cognitive speed (bradyphrenia)	eccomex delusions ydayweFirstRanker.com rarely mania
Memory deficit (Short-term)	Recall helped very little by cues	Recall partially helped by cues and recognition tasks

Reversible causes of dementia:

- Hypothyroidism
- Infections
- B1 B12 deficiency
- Wilsons disease
- NPH

Feature	Dementia	Delirium
Onset	Slow	Rapid
Duration	Months to years	Hours to weeks
Consciousness	Normal	Clouded
Orientation	Normal until late stages	Disturbed
Memory	Immediate retention and recall normal Recent memory disturbed Impaired remote memory in late stages	Impaired recent and immediate memory
Attention and concentration	Usually normal	Disturbed
Comprehension	Impaired only in late stages	Impaired
Speech	Word-finding difficulty	Incoherent (slow or rapid)
Sleep-wake cycle	Normal	Frequent disruption (e.g., day & night reversal)
Thoughts	Impoverished	Disorganized
Awareness	Unchanged	Reduced

ALZHEIMER'S DISEASE

• Most common cause of dementia (> 50%)

NINCDS-ARDRA CRITERIA used for diagnosis

- Presence of dementia
- Deficits in at least two areas of cognition
- Progressive deterioration
- No clouding of consciousness
- Age between 40 and 90
- Absence of systemic disorders
- Neurofibrillary tangles
- Beta amyloid plaques
- Apolipoprotein E4

Clinical features:

- Delayed recall is the best overall discriminator for early Alzheimer's disease
- Early dementia is probable with a MMSE score of 24-27
- CT- cortical atrophy over parietal and temporal lobes



MRI- atrophy of grey matter (hippowwww.FirstRanker.com)

Multi — infarct Dementia

- Second most common cause of dementia (10-15%)
- Some studies indicate that multi-infarct dementia is probably far more common in India.
- It is also one of the important treatable causes of dementia.
- Characterized by :
 - An abrupt onset
 - Acute exacerbations (due to repeated infarctions),
 - Stepwise clinical deterioration (step-ladder pattern),
 - Fluctuating course,
 - o Presence of hypertension (most commonly) or any other significant cardiovascular disease, and
 - o History of previous **stroke or transient ischemic attacks** (TIAs).
- Focal neurological signs are frequently present.
- Insight into the illness is usually present in the early part of the course.
- Emotional lability is common.
- EEG focal area of slowing
- CT scan or MRI multiple infarcts

AIDS Dementia Complex

- Seen in about 50-70% of patients suffering from AIDS
- Triad of cognitive, behavioral and motoric deficits of subcortical dementia type.
- Cranial CT scan can show cortical atrophy 1-4 months before the onset of clinical dementia

Lewy Body Dementia

- Second most common cause of the degenerative dementias
- Typically, the clinical features include:
 - Fluctuating cognitive impairment over weeks or months
 - Lucid intervals can be present in between fluctuations.
 - Recurrent and detailed visual hallucinations.
 - Spontaneous extrapyramidal symptoms such as rigidity and tremors.
 - **Neuroleptic sensitivity syndrome** marked sensitivity typical doses of antipsychotic drugs (resulting in severe extrapyramidal side-effects with use of antipsychotics).
- Antipsychotics (Haloperidol and Risperidone) use to treat disruptive behavior in dementia has decreased markedly due to possible association with increased mortality
- Antipsychotics should be avoided if Lewy body dementia is suspected

ORGANIC HALLUCINOSIS

- Presence of persistent or recurrent hallucinations due to an underlying organic cause.
- Usually visual (most common) or auditory in nature.

Etiology

- Drugs: Hallucinogens (LSD, psilocybin, mescaline), cocaine, cannabis, phencyclidine etc.
- Alcohol: In alcoholic hallucinosis, auditory hallucinations are usually more common.
- Sensory deprivation.
- 'Release' hallucinations due to sensory pathway disease, e.g. bilateral cataracts, otosclerosis, optic neuritis.
- Brain stem lesions (peduncular hallucinosis).



Neurofibrillary tangles www.FirstRanker.com www.FirstRanker.com Seen in Alzheimer's disease Lewy body dementia Punch-drunk' syndrome Pick's disease Postencephalitic Parkinsonism

Amyloid plaques

Seen in	Not in
Alzheimer's disease	Pick's disease
 Lewy body dementia 	`Punch-drunk' syndrome

Lewy bodies

Seen in

- Alzheimer's disease
- Ataxia-telengectasia
- Progressive supranuclear palsy

Amyotrophic lateral sclerosis Progressive supranuclear palsy

Lewy body dementia

Clinical Tests of Attention and Concentration:

- **Subtract** sevens or threes, serially, from 100
- Reverse the days of the week or months of the year
- Spell simple words backwards (eg, world).
- Repeat digits (two, three, four, or more) forward and backward
- Wind Life Ranker Perform mental arithmetic (Number of nickels in \$1.35? Interest on \$200 at 4% for 18 months?



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Complications of alcoholism

DELIRIUM TREMENS

Most severe alcohol withdrawal syndrome

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- It occurs usually within 2-4 days of complete or significant abstinence from heavy alcohol drinking
- The course is short, with recovery occurring within 3-7 days.
- This is an acute organic brain syndrome (delirium) with characteristic features of:
 - Clouding of consciousness
 - Disorientation in time and place.
 - Poor attention span and distractibility.
 - Visual (also auditory) hallucinations and illusions, which are often vivid and very frightening.
 - Marked autonomic disturbance tachycardia, fever, hypertension, sweating, mydriasis
 - o Psychomotor agitation and ataxia.
 - o Insomnia, with a reversal of sleep-wake pattern.
 - o Dehydration with electrolyte imbalance.
- It is extremely important not to administer 5% dextrose in delirium tremens without thiamine

Alcoholic seizures ('rum fits')

- Generalized tonic clonic seizures
- Usually occurs 12-48 hours after a heavy bout of drinking
- Often these patients have been drinking alcohol in large amounts on a regular basis for many years.
- Multiple seizures (2-6 at one time) are more common than single seizures.
- In 30% of the cases, delirium tremens follows.

Alcoholic hallucinosis

- Presence of hallucinations (usually auditory) during partial or complete abstinence
- They occur during clear consciousness

WERNICKE'S ENCEPHALOPATHY

- An acute reaction to a severe deficiency of thiamine
- Commonest cause chronic alcohol use.
- Ophthalmoplegia with bilateral external rectus paralysis
- **Higher mental function disturbance: disorientation**, confusion, recent memory disturbances, poor attention span and distractibility
- Apathy and ataxia.
- Neuronal degeneration and haemorrhage are seen in thalamus, hypothalamus, mammillary bodies and midbrain.
- Completely reversible with treatment

Korsakoff's psychosis

- Often follows Wernicke's encephalopathy; and referred to as Wernicke-Korsakoff syndrome.
- Gross memory disturbances, with confabulation
- 20 percent of patients with Korsakoff's syndrome recover
- Insight is often impaired.
- Neuropathological lesions are symmetrical and paraventricular, involving the mammillary bodies, the thalamus, the hypothalamus, the midbrain, the pons, the medulla, the fornix, and the cerebellum.

Marchiafava — Bignami disease

- Disorientation, epilepsy, ataxia, dysarthria, hallucinations, spastic limb paralysis, and deterioration of personality and intellectual functioning
- There is a widespread demyelination of corpus callosum, optic tracts and cerebellar peduncles.
- Legal limit for driving in India: 30 mg/100 ml (Section 185 of the Motor Vehicle Act, 1988)



Screening test for alcoholism:

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- MAST (Michigan Alcoholism Screening Test)
- CAGE questionnaire test

CAGE Questionnaire

- Ever had to **C**ut down the amount of alcohol
- Been Annoyed by people's criticism of alcoholism
- Felt **G**uilty of drinking.
- Need of an <u>Eye</u> opener.

Withdrawal syndrome: Drugs of 1st choice — Chlordiazepoxide (diazepam 2nd)

Treatment of Alcohol Dependence

- Behaviour therapy
- Psychotherapy
- Group therapy
- Deterrent agents
 - > The deterrent agents are also known as alcohol sensitizing drugs.
 - Disulfiram (tetraethyl thiuram disulfide) most commonly used
 - > Other deterrent agents: Citrated calcium carbimide (CCC), Metronidazole. animal charcoal, a fungus (coprinus atramentarius), sulfonylureas and certain cephalsoporins
- Anti craving agents
 - Acamprosate interacts with NMDA receptor mediated glutamatergic neurotransmission in the various brain regions and reduces Ca⁺⁺ fluxes through voltage operated channels.
 - ➤ **Naltrexone** probably interferes with alcohol induced reinforcement by blocking opioid receptors
 - SSRIs (such as fluoxetine)

OPIUM ABUSE

- Opium use has increased markedly all over the world in the past few decades
- India is surrounded both sides by the infamous routes of illicit transport Golden triangle (BurmaThailand-Laos) and Golden Crescent (Iran-Afghanistan-Pakistan)
- Heroin (Di-acetyl-morphine) can be smoked or chased (chasing the dragon)
- Tolerance to heroin occurs very rapidly

Withdrawal syndrome

- Occurs typically within 12-24 hours
- Lacrimation, rhinorrhea, pupillary dilation. sweating, diarrhea, yawning, tachycardia, insomnia, raised body temperature, muscle cramps, piloerection

Treatment

• Overdose: Naloxone

• Withdrawal: Methadone (1st choice), Clonidine (2' choice); others: LAAM, buprenorphine

• Maintenance: Methadone

Nicotine withdrawal

- Anxiety, restlessness, poor concentration, decreased sleep, increased appetite, exacerbation of psychiatric symptoms
- Drugs used in smoking cessation: Bupropion (amfebutamone), Varenicline

Substance	Characteristic feature	
Cocaine	Magnus symptom (cocaine bugs/tactile hallucinations)	
Cannabis	Run amok, Amotivation syndrome, Flash backs, Hemp insanity,	
Alcohol	Mc-Evan's sign, Morbid jealousy	
LSD	Bad trips, Flash backs	
Amphetamine	Paranoid hallucinatory syndrome (like paranoid schizophrenia)	



Phencyclidine (angel dust)

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- LSD: No withdrawal syndrome
- ❖ Cannabis: No physical dependence; mild to marked psychological dependence
- **Cocaine**: Mild physical dependence; severe psychological dependence
- **Amok** is an episode of acute violent behavior for which the person claims amnesia. Seen in cannabis abuse.

- Emil Kraeplin- In 1896, described dementia precox
- Eugen Bleuler- renamed dementia precox as schizophrenia (fundamental symptom), developed 4 A's of schizophrenia
- Kurt Schneider- First rank symptoms
- Point prevalence: 0.5-1%
- Incidence: 0.5 per 1000
- 8-10% of first degree relatives of patients can present with schizophrenia

Schneider's first rank symptoms	Schneider's second rank symptoms
 Hallucination Audible thoughts (thought echo) Voices heard arguing Voices commenting on one's action Delusional perception Thoughts Alienation phenomena Thoughts withdrawal Thoughts insertion Thought diffusion / broadcasting Passivity phenomena Made feeling (affect) Made impulses Made volition or act Somatic passivity 	 Other disorders of perception Sudden delusional ideas Perplexity Depressive and euphoric mood changes Feelings of emotional impoverishment Several others as well

Bleuler's '4-A'

- Ambivalence (inability to decide for or against)
- Autism (withdrawal into self)
- Affect disturbance
- Association disturbance

DSM-IV CRITERIA FOR DIAGNOSIS OF SCHIZOPHRENIA:

Two (or more) of the following, each present for a significant portion of time during a **1-month period** (or less if successfully treated):

- Delusions
- Hallucinations
- Disorganized speech (e.g., frequent derailment or incoherence)
- Grossly disorganized or catatonic behavior
- Negative symptoms, i.e., affective flattening, alogia, or avolition

Only one Criterion symptom is required if **delusions are bizarre** or hallucinations consist of a voice keeping up a running commentary on the person's behavior or thoughts, or two or more voices conversing with each other.

- All patients with schizophrenia have **psychotic symptoms (reality distortion or disorganization)** at some point in the course of their illness, but there is no single pattern of psychotic symptoms.
- Continuous signs of the disturbance persist for at least 6 months.
- This 6-month period must include at least 1 month of symptoms.

Types

- Commonest type Paranoid
- Amphetamine induced Paranoid
- Early onset & bad prognosis Hebephrenic
- Late onset & best prognosis Catatonic



Firstranker's choice

Very late (3rd 4th decade) – Paranoidwww.FirstRanker.com

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- Worst prognosis & most difficult to diagnosis Simple
- Associated with mental retardation Ptropf

DSM-IV-TR Diagnostic Criteria for Schizophrenia Subtypes

Paranoid type (Paraphrenia)

- A. Preoccupation with one or more delusions or frequent auditory hallucinations.
- B. Absence of disorganized speech, disorganized or catatonic behavior, or flat or inappropriate affect.

Disorganized type (Hebephrenic)

Prominence of disorganized speech, disorganized behavior & flat or inappropriate affect

Catatonic type: Presence of at least two of:

- 1. Catalepsy (including waxy flexibility) or stupor
- 2. Excessive motor activity (purposeless and not influenced by external stimuli)
- 3. Negativism or mutism
- 4. peculiarities of posturing (voluntary assumption of inappropriate or bizarre postures), stereotyped
- 5. movements, prominent mannerisms, or prominent grimacing
- 6. echolalia or echopraxia

Undifferentiated type

Residual type: Absence of prominent delusions, hallucinations, disorganized speech, and grossly disorganized or catatonic behavior.

- Schizophreniform disorder -patients who meet the symptom requirements but not the duration
- **Schizoaffective disorder** -manifest symptoms of schizophrenia and independent periods of mood disturbance.
- Other subtypes:
 - Bouff Dlirante (Acute Delusional
 - Psychosis)
 - Latent schizophrenia
 - Oneiroid state

- Pseudoneurotic schizophrenia
- Deficit schizophrenia
- Early onset schizophrenia
- Late onset schizophrenia

CATATONIC SCHIZOPHRENIA

Excited catatonic:

- Known as Acute lethal catatonic or pernicious catatonia
- Increased psychomotor activity
- Death may occur.

Retorted (stupor) catatonic:

- Decreased psychomotor activity
- Mutism: absence of speech
- Rigidity 2
- Waxy flexibility: parts of body placed in position that will be maintained for long period even if very uncomfortable
- **Stupor:** no movement with mutism but preservation of consciousness.
- Negativism
- Echolalia, Echopraxia
- Mannerism & Grimacing
- Automatic obedience
- Ambitendancy: due to ambivalence, tentative actions occurs
- Verbigeration: Incomprehensible speech
- All specific terminologies like Echolalia, Echopraxia, waxy flexibility, grimacing etc... are seen in catatonic schizophrenia except senseless giggling and mirror gazing (hebephrenic schizophrenia).



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- Most common Auditory Hallucinations.
- 3rd person hallucinations consist of voice keeping up a running commentary on the person's behavior or thoughts or two or more voices conversing with each other
- The **oneiroid state** a dream-like state in which patients may be deeply perplexed and not fully oriented in time and place.
- **Cenesthetic hallucinations** are unfounded sensations of altered states in bodily organs. Examples: a burning sensation in the brain, a pushing sensation in the blood vessels.
- Hallucination 1st symptom to go with treatment & the 1st symptom to reappear after resistance

Symptom clusters in Schizophrenia

Positive symptoms	Negative symptoms	Disorganized symptoms
 Delusions 	Affective flattening	 Inappropriate affect
 Hallucinations 	 Attentional impairment 	 Disorganized behavior
	 Avolition-apathy (lack of initiative 	 Thought disorder
	associated with psychomotor	 Loosening of association
	slowing)	
	 Asociality (social withdrawal) 	
	 Alogia (lack of speech output) 	
	 Anhedonia 	

- The delusions included in 1st rank symptoms are primary or autoconthous delusions characteristic of schizophrenia.
- **Von-Gogh syndrome** is dramatic self-mutilation in schizophrenia (named after famous painter Von Gogh who had cut his ear during active schizophrenia)
- Schizophrenia is thought to be due to a functional increase of **dopamine** at the postsynaptic receptor
- Other neurotransmitters serotonin, GABA, acetylcholine may also be involved
- PET scan: hypofrontality and decreased glucose utilization in the dominant temporal lobe

Pharmacological treatment

- First drug used with beneficial effect: Reserpine (not used now)
- Atypical or second generation antipsychotics are more commonly used
- Atypical antipsychotics are more useful when negative symptoms are prominent
- Clozapine effective in patients who had no response to commonly used drugs

Prognosis

Good Prognosis	Poor Prognosis
Late onset > 35 years	Early onset < 20 years
Obvious precipitating factors	No precipitating factors
Acute onset	Insidious onset
Good premorbid social, sexual &work histories	Poor premorbid social, sexual & work histories
Short duration < 6 months	Chronic course > 2 years
Fat physique	Thin physique
Female sex	Male sex
Good social support	Poor social support
Married	Single, divorced, or widowed
Family history of mood disorders	Family history of schizophrenia
Presence of depression	Absence of depression
Confusion, perplexity, disorientation	Flat or blunt affect
Positive symptoms	Negative symptoms
	Neurological signs and symptoms
	History of perinatal trauma /assaultiveness
	Many relapses/No remissions in 3 years



Catatonic subtype	vww.Fi <mark>rst&eakerdcom</mark> ple, undiffe wewww.Edrat&	amker.com
Paranoid – intermediate prognosis	catatonic subtypes	
Outpatient treatment	Long term hospitalization	
Normal cranial CT scan	Evidence of ventricular enlargement	

Indications for ECT in schizophrenia

- Catatonic stupor
- Uncontrolled catatonic excitement
- Acute exacerbation not controlled with drugs
- Severe side effect with drugs, in presence of untreated schizophrenia

Psychosurgery

- Very rarely performed
- Limbic leucotomy is the procedure of choice

Acute (brief) psychotic disorder

- Differentiated from other related disorders by its sudden onset, relatively **short duration (< 1 month),** and the full return of functioning
- Abrupt onset of one or more of the following symptoms
 - o Delusions
 - o Hallucinations
 - o Bizarre behavior and posture
 - Disorganized speech



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TYPES OF ANXIETY DISORDERS (DSM-IV-TR)

• Panic disorder with or without agoraphobia

VI.

- Agoraphobia with or without panic disorder
- Specific phobia
- Social phobia
- Obsessive-compulsive disorder (OCD)
- Posttraumatic stress disorder (PTSD)
- Acute stress disorder
- Generalized anxiety disorder

Anxiety

- It is the most common psychiatric symptom
- Physical symptoms
 - Motor: tremors, muscle twitching
 - Autonomic and visceral: sweating, palpitation, tachycardia, flushes, hyperventilation, dry mouth, dizziness, diarrhea, mydriasis
- Psychological symptoms
 - o Cognitive: poor concentration, hyperarousal, vigilance or scanning, negative automatic thoughts
 - o Perceptual: derealisation, depersonalization
 - o Affective: fearfulness, irritability, inability to relax, fear of impending
 - o Others: insomnia, increased sensitivity to noise, exaggerated startle response

DIFFERENTIAL DIAGNOSIS OF ANXIETY:

Medic	al Illnesses	Substance Use/Abuse	Psychiatric Disorders
 Cardiac Angina Arrhythmias Congestive failure Infarction Mitral valve prolapse Paroxysmal atrial tachycardia 	 Endocrinologic Hyperthyroidism Cushing's disease Hyperparathyroidism Hypoglycemia Premenstrual syndrome 	Prescription or over-the-counter drug use Antidepressants Fenfluramine/phentermine Psychostimulants (eg, methylphenidate, amphetamine) Steroids Sympathomimetics	 Adjustment disorders Affective disorder Dissociative disorders Personality disorders Somatoform disorders Schizophrenia (and other psychotic disorders)
Neoplastic Carcinoid Insulinoma Pheocromocytoma	Neurologic Huntington's disease Meniere's disease Migraine Multiple sclerosis Seizure disorder Transient ischemic attack Vertigo Wilson's disease	Substance abuse Alcohol/sedative withdrawal Caffeine Hallucinogen Stimulant abuse (eg, cocaine)	
Pulmonary	Other		

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	Firstranker's cho	nice			
	 Asthma 	Porphyria www.FirstRanker.com	www.FirstRanker.com		
	 Embolism 	Uremia			
	 Obstruction 				
	 Obstructive 				
	 pulmonary 				

PANIC DISORDER

disease

Panic attacks

- Occur in panic disorder, specific phobia, social phobia and PTSD
- Unexpected panic attacks occur at any time and are not associated with identifiable situational stimulus
- A discrete period of **intense fear or discomfort** in which four (or more) of the following symptoms develop abruptly and reached a peak within 10 minutes.
 - Palpitations, pounding heart, or accelerated heart rate
 - Sweating
 - Trembling or shaking

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- Sensations of shortness of breath or smothering
- Feeling of choking
- o Chest pain or discomfort
- o Nausea or abdominal distress-
- o Feeling dizzy, unsteady, lightheaded, or faint
- Derealization or depersonalization
- Fear of losing control or going crazy
- Fear of dying
- Paresthesias (numbness or tingling)
- Chills or hot flashes

Panic disorder

- Recurrent panic attacks
- Extreme fear and sense of impending death and doom
- Patients usually cannot name the source of their fear
- Generally lasts 20-30 minutes
- Depression and depersonalization may be seen
- Mental status examination: rumination, difficulty speaking, impaired memory
- Between attacks they have anticipatory anxiety about another attack

PHOBIA

- Insight is present.
- Agoraphobia
 - Fear of **open places, crowded places** or any place from where there is no escape to safe place
 - o Most common & most disabling type
 - More common in women
 - Only one or two persons are relied upon phobia companions.
- Social phobia irrational fear of activities or social interaction
 - Shy-Bladder: fear of urinating in public lavatory
 - Erythro phobia: Fear of blushing.
- Simple (specific) phobia irrational fear of objects or situations
 - Claustro phobia- Fear of closed spaces
 - Acrophobia fear of high places.
 - o Algophobia fear of pain
 - o **Arachnophobia** fear of spiders
 - Xeno phobia –fear of strangers
 - Zoophobia fear of animals
 - Sito phobia fear of eating
 - Thanatophobia fear of death



O Cynophobia: fear of dogs

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Mysophobia: fear of dirt & germs

Pyrophobia: fear of fireAilurophobia: fear of cats

Behavior therapy for phobia

- Flooding
- Systematic desensitization
- Exposure and response prevention
- Relaxation techniques

OBSESSIVE COMPULSIVE DISORDER

• Prevalence in the world 2-3%

Obsessions	Compulsions	
 An idea, impulse or image which intrudes into the conscious awareness repeatedly It is recognized as one's own idea, but perceived as ego-alien (foreign to one's personality) It is recognized as irrational and absurd (insight present) Patient tries to resist but is unable to Failure to resist leads to marked distress 	 A form of behaviour which usually follows obsessions It is aimed at preventing or neutralizing the distress or fear arising out of obsession The behaviour is not realistic and is either irrational or excessive Insight is present The behaviour is performed with a sense of subjective compulsion (urge or impulse to act) 	

Delusion is differentiated from obsession by

- The thought is not recognized as ego-alien
- The thought is not recognized as irrational
- The thought is never resisted

Clinical Manifestations

- Washers
 - Most common type
 - Obsession is of contamination with dirt, germs
 - Compulsion washing hands or body repeatedly, many times a day
 - o Spreads on to washing clothes, bathroom, bedroom, personal articles etc
- In all cases obsessive-compulsive activities take up >1 hour per day
- Depression is very commonly associated with OCD
- The disorder usually has a waxing and waning course

Psychodynamic theory of Freud

- Explains OCD by a defensive regression to anal-sadistic phase of development
- New defences are needed as reaction formation is not enough
- **Isolation of affect** → Obsessive thoughts
- Undoing → Compulsive acts
- Displacement → Phobias

Treatment of choice:

- First: Behavior therapy Exposure & response prevention
- Second: Systematic desensitization

Medical treatment:

- Fluoxetine (Drug of choice) & other SSRI
- Fluvoxamine: Specific anti-obsession actions.
- Clomipramine (this TCA is most selective for serotonin reuptake) (Drug of IInd choice)



POST —TRAUMATIC STRESS DISORDER (PT90)vw.FirstRanker.com

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- Arises as a **delayed/protracted response** to an exceptionally stressful or catastrophic life event or situation (e.g. war, rape, torture, serious accident)
- Recurrent and intrusive recollections of the stressful event either in flashbacks (image, thoughts or perceptions) and/or in dreams
- Avoidance of the events or situations that arouse recollections of the stressful event
- Numbing of general responsiveness
- Amnesia for some aspects of the event
- Anhedonia (inability to experience pleasure)
- Hyperarousal

DSM-IV-TR definitions

- Acute stress disorder: symptoms appear within 4 weeks of the event and remits within 2 days to 4 weeks
- PTSD: occurs after 4 weeks of a stressful event and duration of symptoms > 1 month
- Delayed onset PTSD: occurs after 6 months
- Acute PTSD duration of symptoms < 3 months; chronic PTSD: duration > 3 months

Treatment

- SSRIs
- MAO inhibitors
- Benzodiazepines
- Behavior therapy, cognitive therapy

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MOOD DISORDERS

- Manic episode
- Depressive episode
- · Bipolar mood disorder
- Recurrent depressive disorder
- Persistent mood disorder

MANIC EPISODE Symptoms should last for atleast 1 week for diagnosis

- Elevated, Expansive or Irritable mood:
 - Euphoria: mild elevation of mood, seen in hypomania [STAGE-1]
 - o **Elation**: moderate elevation of mood, seen in **mania** (STAGE-2)
 - o **Exaltation**: severe elevation of mood, seen in severe mania [STAGE-3]
 - Ecstasy: very severe elevation of mood, seen in delirious/ stuporous mania [STAGE-4]
- Psychomotor activity
 - Increased
 - o Rarely manic stupor
- Speech and though
 - Flight of ideas
 - Prolixity
 - Mood congruent psychotic features
 - hallucinations
- Goal directed activity
- Reduced sleep

Treatment:

- Atypical antipsychotics (Risperidone, olanzapine, quetiapine, haloperidol)
- Mood stabilizers (Sodium valproate, Carbamazepine, Benzodiazepines, Lithium, Lamotrigine)

DEPRESSION Diagnostic Criteria

A. At least 2 weeks of duration

B. > 5 features should be present most of the day

- Depressant mood
- Loss of interest/pleasure (Absence of pleasure in normally pleasurable environment: **Anhedonia**) (Among these two, one is essential for the diagnosis), plus
- Decrease or increase in appetite or significant weight loss/gain
- Decrease / increase psychomotor activity (psychomotor retardation or agitation)
- Decrease / increase sleep (Insomnia/ hypersomnia)
- Fatigue
- Feeling of worthlessness or guilt
- Decreased concentration
- Recurrent thoughts of death.

Depressive ideation/Cognition:

- Sadness of mood (depression) is usually associated with pessimism, which can result in
 - Hopelessness
 - Helplessness
 - Worthlessness
- Difficulty in thinking, concentration, indecisiveness
- Nihilistic delusions (e.g. world is coming to an end)

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Somatic syndrome (Melancholia) in depresyionw.FirstRanker.com

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- Significant decrease in appetite or weight
- Early morning awakening (atleast 2 hours early than the usual time)
- Diurnal variation (depression worst in the morning)
- Pervasive loss of interest and loss of reactivity to pleasurable stimuli
- Psychomotor agitation or retardation

Other features

- Pseudo-dementia
- Otto veraguth fold
- Depression is seen in Myxedema, AIDS, Cancer, post MI, surgery & post-partum
- Depression is most common in middle age females

Theories

- Cognitive theory: Postulated by Aaron Beck consists of the following triad
 - About self Negative self-precept
 - About the environment Tendency to experience the world as hostile and demanding
 - About the future the expectation of suffering and failure
- Learned helplessness theory

Sleep studies

- Decreased REM latency (the time between falling asleep and the first REM period is decreased)
- Increased duration of the first REM period
- Delayed sleep onset

SUICIDE

- Suicide is intentional self-destruction.
- The term **parasuicide** refers to suicidal attempts or gestures.
- Patients suffering from severe depression with suicidal intent or attempt have a marked decrease in the serotonergic function
- Official suicide rate in India in 2008 10.8 per 100000 population per year
- Most common mode of committing suicide ingestion of poison (35%) hanging (32%)
- The psychiatric disorder with greatest risk of suicide in both sexes Mood disorder
- Widely accepted theory for suicide:
 - Sociological factors: Durkheim's Theory:
 - Egoistic suicide applies to those who are not strongly integrated into any social group
 - Altruistic suicide applies to those susceptible to suicide stemming from their excessive integration into a group, with suicide being the outgrowth of the integration., for example, a soldier who sacrifices his life in battle.
 - Anomic suicide applies to persons whose integration into society is disturbed so that they cannot follow customary norms of behavior.
 - Psychological Factors: Freud's Theory/ Menninger's Theory

Evaluation of Suicide Risk

Variable	High Risk	Low Risk
Demographic and Social Profile		
Age	Over 45 years	Below 45 years
Sex	Male	Female
Marital status	Divorced or widowed	Married
Employment	Unemployed	Employed
Interpersonal relationship	Conflictual	Stable
Family background	Chaotic or conflictual	Stable
Heelth		

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Physical	Chronic illnewww.FirstRanker	.comd health www.FirstRanker.com	
	Hypochondriac	Feels healthy	
	Excessive substance intake	Low substance use	
Mental	Severe depression	Mild depression	
	Psychosis	Neurosis	
	Severe personality disorder	Normal personality	
	Substance abuse	Social drinker	
	Hopelessness	Optimism	
Suicidal activity		•	
Suicidal ideation	Frequent, intense, prolonged	Infrequent, low intensity, transient	
Suicide attempt	Multiple attempts	First attempt	
	Planned	Impulsive	
	Rescue unlikely	Rescue inevitable	
	Unambiguous wish to die	Primary wish for change	
	Communication internalized (self-	Communication externalized (anger)	
	blame)		
	Method lethal and available	Method of low lethality or not readily	
Resources	•		
Personal	Poor achievement	Good achievement	
	Poor insight	Insightful	
	Affect unavailable/ poorly	Affect available and appropriately controlled	
Social	Poor rapport	Good rapport	
	Socially isolated	Socially integrated	
	Unresponsive family	Concerned family	

Risk Factors

- Age> 40 years
- Male sex
- Staying single
- Previous suicidal attempts
- Suicidal pre occupation (e.g. a written suicidal note)
- Depression
- Alcohol/ drug dependence
- Severe/ painful physical illness
- Recent serious loss or major stressful event
- Social isolation
- · High degree of impulsivity

Risk factors for suicide in depression

- Early stages of depression
- Recovering from depression
- With mood disorder, personality disorder, psychosis, hypochondriac
- Child with conduct disorder or substance abuse
- 45 years male, unemployed, single, separated, divorced, widowed, recently bereaved, chronically ill
- Positive family history

Treatment

- Tricyclic anti-depressants: imipramine, amitriptyline
- SSRIs: fluoxetine, sertraline, citaprolam
- SNRIs: venlafaxine, duloxetine



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Neurotransmitters

- Mania: increased norepinephrine at the synaptic cleft
- Depression: decreased norepinephrine and/or 5-HT

BIPOLAR MOOD DISORDER

- Previous called as Manic depressive psychosis (MDP)
- Unpredictable swings in mood from mania to depression at different times
- In the intervening period, patient may be normal
 - Bipolar-1: episodes of severe mania and depression.
 - o **Bipolar-2:** episodes of hypomania and severe depression
- Rapid cyclers: > 4 episodes per year; mostly women
- Ultra-rapid cycling: episodes of mania and depression alternate very rapidly (in hours or days)

Poor prognostic factors		
 Comorbid medical disorder, personality disorder or alcohol dependence Double depression (acute depressive episode superimposed on chronic depression or dysthymia) Catastrophic stress or chronic ongoing stress Unfavorable early environment Marked Hypochondriacal features Mood incongruent psychotic features 		

Other forms of depression

- * Atypical depression a term that has been applied to a variety of presentations, but particularly to patients who present with mild to moderate depression, some mood reactivity, reverse diurnal variation in mood (i.e. worse in the evening), overeating, hypersomnia and fatigue.
- ❖ Dysthymia depressive symptoms which are insufficient to meet the criteria for a clinical depression. The patient's symptoms are present for 2 or more years. Can be associated with other psychiatric conditions such as borderline personality disorder. Sufferers often go on to develop more serious mood disorder.
- Cyclothymic disorder chronic mood fluctuations over at least 2 years with episodes of elation and of depression insufficient to meet the criteria for a hypomanic depressive episode.
- ❖ Masked depression a state in which depressed mood is not particularly prominent, but other features of depressive disorder are present, e.g. sleep disturbance, diurnal mood variation, depressive cognitions.
- Mild depressive disorders milder forms of the symptoms of depression, with less disruption to social functioning. These are likely to be accompanied by prominent anxiety, phobic or obsessional symptoms.
- * Recurrent brief depressive disorder lasts for <2 weeks, usually around 2-3 days. Occurs around once per month, with complete recovery between episodes. The actual symptoms collectively may fulfil the criteria for mild, moderate or severe depression, but the difference is in the duration of the episode.
- ❖ SAD a temporal relationship between the season of the year and the onset of depression. The depression starts in autumn/winter and resolves in spring/ summer. There may be symptoms of depression and additional atypical biological features such as carbohydrate craving, fatigue and hypersomnia.

Note:

- ❖ **Dysthymia** if the symptoms consist of persistent mild depression
- Cyclothymia frequent mood swings of mild depression and mild elation.



VIII. SOMATOFORM, WYSGUSTRAMER PERSONALWYWGGSKBanker.com

Type of Somatoform Disorder	Features	
Hypochondriasis	Persistent preoccupation with fear or belief of having serious disease based on own interpretation	
	 Detailed physical examination and investigations do not reveal any abnormality 	
	Belief persists even after seeing his normal lab reports	
	The fear or belief is not a delusion	
Somatization disorder or	Multiple somatic symptoms	
Briquet Disorder or	• 4 pain symptoms (2 in GIT, 1 sexual, 1 pseudo neurological)	
Brissaud Marie Syndrome	Atleast 2 years duration needed for diagnosis	
	Frequent change of treating physicians	
	Refusal to accept reassurance	
	More common in females	
Conversion disorder	Features common to Conversion and Dissociative disorders	
 Symptoms/sign affecting motor or 	Sudden onset	
sensory function or convulsions	Presence of precipitating stress	
suggesting a neurological disorder	Clear temporal relationship between stressor and development	
 No ANS involvement 	of symptoms	
 Not intentionally produced 	There is usually a secondary gain	
	Detailed physical examination and investigations do not reveal	
Dissociative disorder	any abnormality that can explain the symptoms adequately	
Disturbance in normally integrated	More common in women	
functions of consciousness,	Onset usually in 2 nd or 3 rd decade	
identity and/or memory		
Body dysmorphic disorder	Preoccupation with an imagined defect in appearance.	
Somatoform pain disorder	Pain does not vary in intensity & insensitive to emotional, cognitive attentional & situational influence.	

• The word Hysteria is removed from ICD-10 and replaced by 'Conversion and Dissociative disorders'

Dissociative disorders

DISSOCIATIVE AMNESIA

- **Circumscribed amnesia** (M/C form) failure to recall all events occurring during a circumscribed period of time.
- Selective amnesia failure to recall some but not all of the events during a circumscribed period of time.
- Continuous amnesia failure to recall all personal events following a stressful event, till the present time
- Generalized amnesia failure of recall all personal events of the whole life, in the face of a stressful life
 event
- **Systematized amnesia** is a loss of memory for specific categories of information, such as all memory relating to one's family or a particular person.

DISSOCIATIVE FUGUE

- Episodes of wandering away (usually away from home)
- During the episode, the person usually adopts a new identity with complete amnesia for the earlier life
- Sudden onset, often in the presence of severe stress
- Abrupt termination of the episode and followed by amnesia for the episode with recovery of memories of earlier life
- The characteristic feature assumption of a purposeful new identity, with absence of awareness of amnesia
- Complex partial seizures no assumption of new identity, confusion present during the episode, no precipitating stress

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Clinical features	Epilep McWMz.Fresst Ranke	r.comsociative communicating styramicating om
Attack pattern	Stereotyped, known clinical patterns	Absence of any established clinical pattern Purposive body movements occur
Place of occurrence	Any where	Usually indoor or at safe places
Sleep	Can occur during sleep	Never occur during sleep
Tongue bite	Present	Absent
Incontinence of urine and faeces	Present	Absent
Neurological signs	Present	Absent
Post ictal confusion	Present	Absent
Injury	Can occur	Very rare
Speech	No verbalization during seizure	Verbalization can occur during seizure
Duration	Short (30 – 70 secs)	Prolonged
Head turning	Unilateral	Side to side
Eye gaze	Staring, if eyes are open	Avoidant gaze
Amnesia	Complete	Partial
EEG	Abnormal	Normal
Serum prolactin	Increased in post ictal period (15-20 minutes after seizure, returns to normal in one hour)	Normal

GANSER SYNDROME (HYSTERICAL PSEUDODEMENTIA)

- Commonly found in prison inmates
- Characteristic feature vorbeireden (approximate answers)
- The answers are wrong, but show that the person understands the nature of question asked

La Belle Indifference

- Patient's lack of concern towards serious symptoms, despite the apparent severity of the disability produced
- Previously thought as hallmark of dissociative (conversion) disorders, it is now known to be present even in physical illness

Treatment of conversion and dissociative disorders

- Aversion therapy (liquor ammonia, electrical stimulus, pressure just above eyeballs or tragus of ear etc)
- Psychotherapy with abreaction

PERSONALITY

- The four components in the concept of personality are:
- Adjustment
- Agreeableness
- Sociability
- Openness

PERSONALITY DISORDERS

- Cluster A (paranoid, schizoid, schizotypal), which includes individuals who are odd or eccentric.
- **Cluster B (antisocial, borderline, histrionic, narcissistic),** which includes individuals with dramatic, acting-out behaviors and who have problems with empathy.
- **Cluster C (avoidant, dependent, obsessive-compulsive),** which includes personality styles marked by prominent anxiety and novelty avoidance.



Firstranker's choice DSM-IV-TR and ICD-10 classifications of pe**www.litFillstiRanker.com**

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DSM-IV-TR	ICD-10	Description
Paranoid	Paranoid	Excessive sensitiveness, tendency to bear grudges persistently, suspiciousness, preoccupied with conspiratorial explanations, self-referential, distrust of others.
Schizoid	Schizoid	Emotional coldness , lack of pleasure from activities, little interest in sex, excessive preoccupation with introspection and fantasy .
Schizotypal	(classified with schizophrenia and related disorders)	Inappropriate affect, odd, eccentric or peculiar behavior, social withdrawal, magical thinking, obsessive ruminations, transient quasi-psychotic episodes
Antisocial	Dissocial	Callous lack of concern for others, irresponsibility, aggression, inability to maintain enduring relationships, disregard and violation social norms, evidence of childhood conduct disorder.
Borderline	Emotionally unstable— borderline type	Disturbance of identity, unstable relationships , unpredictable affect, acts of self-harm , suicidal gestures, impulsivity, unstable emotions
Histrionic	Histrionic	Self-dramatization, exaggerated emotions, shallow affect, attention seeking, easily influenced by others, over-concern for physical attractiveness
Narcissistic		Grandiosity, lack of empathy, need for admiration, preoccupation with fantasies of unlimited success
Avoidant	Anxious (avoidant)	Tension, self-consciousness, fear of negative evaluation by others, timid, insecure.
Obsessive- compulsive	Anankastic	Doubt, indecisiveness, caution, pedantry, rigidity, perfectionism, preoccupation with orderliness and control.
Dependent	Dependent	Clinging, submissive, excess need for care, feels helpless when not in relationship.
	MANK	In relationship.

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EATING DISORDERS

ANOREXIA NERVOSA

- More often in females, Common age of onset is adolescence (13-19 years)
- It is seen with greatest frequency among young women in professions that require thinness (modeling and ballet)
- Intense fear of becoming obese
- There is often a **body-image disturbance** (inability to perceive size of body image correctly)
- Significant weight loss occurs, usually > 25% of the original weight.
- The final weight is usually 15% less than the minimum limit of normal weight (for that age, sex and height) or a **BMI of 17.5 or less**
- No known medical illness, which can account for the weight loss, is present
- Amenorrhea, primary or secondary, is often present
- Absence of primary psychiatric disorder
- Depressive symptoms are common and so are obsessive-compulsive personality traits.
- Anorexia (a misnomer) no decrease in appetite
- Poor sexual adjustment
- In severe cases, fine lanugo hair may develop all over the body.
- Bulimic episodes
 - Rapid consumption of large amount of food in a relatively short period of time, usually occurring when alone (binges or binge-eating)
 - These binges are followed by intense **guilt and attempts to remove eaten food,** for example, by self-induced vomiting, laxative abuse, and/or diuretic abuse
- Death may occur due to **hypokalemia** (caused by self-induced vomiting), dehydration, malnutrition or **congestive cardiac failure (caused by anemia)**

BULIMIA NERVOSA

- Onset in early teens or adolescence
- Intense fear of becoming obese and h/o anorexia nervosa present sometimes
- There is often a body-image disturbance.
- There is a persistent preoccupation with eating and an irresistible craving for food.
- There are attempts to 'counteract' the effects of overeating by one or more of the following
 - Self-induced vomiting
 - Purgative abuse
 - Periods of starvation
 - Use of drugs such as appetite suppressants.

FEATURES	ANOREXIA NERVOSA	BULIMIA NERVOSA
Feature	Refusal to maintain body weight above a minimal normal	Irresistible craving for food with episodes of over eating in less time (being eating)
Method of weight control	Very less eating	Attempts to counter act the effects of over eating
Weight	Markedly decreased	Usually normal
Binge eating	25-50%	Required for diagnosis
Amenorrhea	100%	50%
Ritualized exercise, decreased vitals (BP, PR), hypothermia, skin changes (hirsutism)	Common	Rare



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	body as a whole, or some par

of their body, is too fat.

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-Antisocial behavior &drug abuse is common -Prognosis is worse

CULTURE BOUND SYNDROMES

- **Dhat syndrome** → fear of losing semen
- **Amok** → sudden, unprovoked episode of rage
- **Koro** → strong belief that his penis is shrinking
- Wihtigo (windigo) → belief that he has been transformed to a cannibal.
- Pibloktoq → Arctic Hysteria→ Eskimos, extreme excitement of as long as 30 minutes' duration and frequently followed by convulsive seizures and coma lasting as long as 12 hours
- Suchi-bai → purity mania
- Hwa-Byung / Wool-Hwa-Byung: Korean folk syndrome [anger syndrome] and is attributed to the suppression of anger.
- Latah: hypersensitivity to sudden fright, often with echopraxia, echolalia, command obedience, and dissociative or trance-like behavior.
- Locura: severe form of chronic psychosis [inherited vulnerability, the effect of multiple life difficulties, or a combination of both factors]
- Mal de ojo: evil eye
- Ideas of nerves/Nervios: general state of vulnerability to stressful life experiences and to a syndrome brought on by difficult life circumstances.

FACTITIOUS DISORDER (MUNCHAUSEN SYNDROME)

- Also known as hospital addiction, hospital hoboes, professional patients
- Simulate or fake diseases for the **sole purpose of obtaining medical attention**.
- No other recognized motive.
- Pseudologia fantastica distort their clinical histories, lab reports and even facts about their lives
- Drug abuse is common
- They have superficial knowledge of medical terms
- Evidence of earlier treatment, usually surgical procedures, is often found in the form of multiple scars (e.g. grid iron abdomen)
- They often tell lies and leave the hospital against medical advise

SLEEP

Two phases:

- 1. **D-Sleep** (desynchronized or dreaming sleep) OR **REM-sleep** (rapid eye movement sleep), active sleep or paradoxical sleep.
- 2. **S-Sleep** (synchronized sleep), or **NREM sleep** (non-REM sleep), quiet sleep, or orthodox sleep. S-sleep or NREM-sleep is further divided into four stages, 1 to 4.

The EEG recording

- During the awake state shows **alpha waves** of 8-12 cycles/sec. frequency
- The onset of sleep is characterized by a disappearance of the alpha activity.
- NREM -sleep
 - Stage 1: first and the lightest stage of sleep, absence of alpha-waves, and low voltage, predominantly
 - Stage 2: characterized by two typical EEG changes:
 - > Sleep spindles: Regular spindle shaped waves of 13-15 cycles/sec. frequency, lasting 0.5-2.0 seconds, with a characteristic waxing and waning amplitude.
 - **K-complexes:** High voltage spikes present intermittently.
 - Stage 3: appearance of high voltage, 751.1V, 6-waves of 0.5-3.0 cycles/sec.
 - Stage 4: predominant δ-activity

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The important time periods of the various Meanws FigestRanker.com

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- In an 8 hour sleep, usually 6-6^{1/2} hours are spent in NREM -sleep & 1^{1/2} 2 hours in REM-sleep.
- Out of 6-6112 hours NREM-sleep period, only about 70-80 minutes are spent in Stage 4 sleep.
- The maximum Stage 4 sleep occurs in the first one-third of the night
- In the later part, the REM-sleep follows the Stage 3 NREM —sleep directly.
- **REM-sleep** occurs maximally in the **last one-third** of the night.
- REM-sleep occurs regularly after every 90-100 mins, with progressive lengthening of each REM period.
- The first REM period typically lasts for less than 10 minutes.
- Usually, there are **4-5 REM periods** in the whole night of sleep.
- The usual sleep duration in newborn children is 16-18 hours/day, with nearly 8-10 hours spent in the REM-sleep.

DISORDERS OF SLEEP

Nightmares

- Almost always occur during REM sleep and usually after a long REM period late in the night.
- The awakening may occur during any part of the sleep period, but typically during the second half.

Sleep terror: Arousal in the first third of the night during deep NREM (stages III and IV) sleep.

Kleine Levin syndrome

 Recurrent periods of prolonged sleep (from which patients may be aroused) with intervening periods of normal sleep and alert waking

PARASOMNIAS

- Sleep walking and sleep terrors
- Common in preschool (3-6years) children

Characteristic	Sleep walking	Sleep terrors	Night mares	Nocturnal seizures
Timing during sleep	First third	First third	Last third	Variable, often during sleep-wake transition
Stage of sleep	Slow wave	Slow wave	REM	Non REM > SWS
Arousal threshold	High	High	Low	High
Day time sleepiness	None	None	Yes	Probable '
Recall of event	None	None	Frequent, vivid	None
Incidence	Common	Rare	Very common	Rare
Family history	Common	Common	None	Variable

GENDER IDENTITY DISORDERS

- Common feature is a strong, persistent preference for living as a person of the other sex.
- Discontent with one's designated birth sex and a desire to have the body of the other sex, and to be regarded socially as a person of the other sex.
- Gender identity disorder in adults → transsexualism.
- Cross-dressing is commonly known as transvestism, and the cross-dresser as a transvestite.

IMPULSE CONTROL DISORDERS

Kleptomania (pathological stealing)

- Failure to resist the impulse to **steal useless objects** that have little monetary value.
- Usually women
- No apparent motive
- Usually there is a feeling of tension before the act and sense of relief afterwards
- **Differential diagnosis:** Shoplifting (actions are usually well-planned and motivated by need or monetary gain)

Pyromania (pathological fire-setting)

Deliberate and purposeful fire setting on two or more occasions



No apparent motive

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- 90% are male.
- ❖ Pathological Gambling: Two or more gambling episodes per year which have not profitable outcome
- ❖ Trichotillomania: Recurrent pulling out of one's hair resulting in noticeable hair loss
- ❖ Dipsomania irresistible urge to drink alcohol at regular intervals
- ❖ Mutilomania irresistible urge to mutilate animals
 - De Clerambult's syndrome: Erotic delusions
 - Alice in Wonderland syndrome: Disturbance of one's view of self.
 - Couvade syndrome: experiencing the symptoms of pregnancy in males
 - Kanner's syndrome is autism with a normal ICI.

Asperger's syndrome, or schizoid personality of childhood, may be a mild form of autism and comprises eccentric isolated behavior with circumscribed interests and stilted speech:

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ANTIPSYCHOTIC DRUGS

TYPICAL (Neuroleptics, D ₂ blockers)				ATYPICAL
Phenothiazines	Thioxanthines	Butyrophenones	Miscellaneous	Clozapine , Olanzapine
Chlorpromazine	Flupenthixol	Haloperidol	Pimozide	Quetiapine,
Thioridazine	Thiothixene	Droperidol	Loxapine	Risperidone
Trifluoperazine		Penfluridol		Ziprasidone,
Fluphenazine				lloperidone,
·				Lurasidone,
				Aripiprazole,
				Asenapine

Longest acting: Fluphenazine (2-4 weeks), Penfluridol (1 week).

• Longest half- life: Aripiprazole (75 hours)

• Shortest half-life: Quetiapine (6 hours)

• Least potent: Chlorpromazine

• With antidepressant action: Flupenthixol.

• More emetic potential: Clozapine/ Olanzapine/ Risperidone/ Molindone

Actions

Extra pyramidal symptoms	Sedation	Hypotension	Anti emetic
Maximum: Haloperidol	Maximum: Chlorpromazine,	Maximum:	Triflupromazine,
Least: Thioridazine	Triflupromazine,	Thioridazine,	Trifluoperazine
Almost nil: Clozapine,	Thioridazine, Clozapine &	Clozapine &	Fluphenazine,
Risperidone	Quetiapine	Risperidone	Haloperidol

- All anti psychotics are potent antiemetics except Thioridazine & atypical drugs.
- Low potency drugs possess significant α blocking (maximum with chlorpromazine) and anticholinergic (maximum with thioridazine) properties.
- D₂ receptors blockage in hypothalamus & pituitary → increase prolactin release → galactorrhoea & amenorrhea.
- Aripiprazole: acts as a partial agonist at 5-HT_{1A} and D₂ receptors and antagonist at 5-HT_{2A} receptors. It is also known as dopamine- serotonin stabilizer.
- **Ziprasidone**: $D_2 + 5 FIT_{2A/2c} + H_1 \alpha 1$ blocker
- Thioridazine: interferes with ejaculation, can cause cardiac arrhythmias and retinal damage.
- **Asenapine**: used sublingually for schizophrenia & acute mania.
- Amisulpiride: congener of sulpiride (typical antipsychotic) is categorized with the atypical antipsychotics because it produces few extrapyramidal side effects and improves many negative symptoms of schizophrenia as well. However, it retains high affinity for D2 (and D3) receptors and has low-affinity for 5-HT₂ receptors.

Clozapine:

- Most potent with least extrapyramidal S.E. & least antiemetic property
- Has weak D₂ blocking action
- Reserve drug for resistant schizophrenia
- Most important side effect is agranulocytosis.

SIDE EFFECTS

- Extra pyramidal symptoms are due to D₂ blockade in limbic system.
- Perioral movements [Rabbit syndrome]
 - Within 7 days of starting or rapidly raising the dose of drugs Neuroleptic induced dystonia



- Drugs is taken for less than 3 mowww.oFinstRankenopem), within 4 www.dfinstRankerocomg
 - Neurolept induced tardive dyskinesia.
- Neuroleptic induced akathisia
 - > Inner restlessness (feeling of discomfort & agitation)
 - > External restlessness (compulsion to move extremities, pacing, rocking, fidgety movements)
 - \triangleright **\beta-Blocker** (Propanolol) is the drug of choice.
- NEUROLEPTIC MALIGNANT SYNDROME
 - More common with high potency D2 antagonists
 - > Severe muscle rigidity & elevated temperature with diaphoresis (sweating), tachycardia, elevated or labile BP, leucocytosis & lab
 - > Evidence of muscle injury e.g. elevated CPK
- Hyperprolactinemia is associated with blockade of D2 receptors in the **tuberoinfundibular dopamine system**→ hypogonadism, infertility, **amenorrhea**, **galactorrhoea** and gynecomastia.
- Hyperprolactinemia is more common with typical antipsychotics and risperidone

Reaction	Features	Time of maximal risk	Mechanism	Treatment
Acute dystonia	Spasm of muscles of tongue, face, neck, back, may mimic seizures, not hysteria	1-5 days	Unknown	Anti parkinsonian agents are diagnostic and curative
Akathisia	Motor restlessness, not anxiety or agitation	5-60 days	Unknown	Reduce dose or change drug; anti parkinsonian drugs, BDZ / propranolol may help
Parkinsonism	Bradykinesia, rigidity, variable tremor, mask facies, shuffling gait	5-30 days; can recur even after a single dose	Antagonism of dopamine	Anti parkinsonian agents helpful
Neuroleptic malignant syndrome	Catatonia, stupor, fever, unstable BP, myoglobinemia, can be fatal	Weeks; can persist for days after stopping neuroleptic	Antagonism of dopamine	Stop neuroleptic; Dantrolene / bromocriptine may help. Anti parkinsonian agents not useful
Perioral tremor " rabbit syndrome"	Perioral tremor (may be a late variant of parkinsonism)	After months or years of treatment	Unknown	Anti parkinsonian agents often help
Tardive dyskinesia	Oral- facial dyskinesia; Widespread choreoathetosis or dystonia	After months or years of treatment (worse on withdrawal)	Excess function of dopamine hypothesized	Prevention crucial; Treatment unsatisfactory

Adverse effect	Maximum with	Minimum with
Dry mouth, constipation, cycloplegia	Chlorpromazine	Haloperidol, Risperidone
Impotence, orthostatic hypotension	Chlorpromazine	Aripiprazole
Impaired ejaculation	Thioridazine	Haloperidol
Parkinsonian features [tremor]	Haloperidol	Clozapine, quetiapine, aripiprazole
Akathisia, acute dystonia, rabbit syndrome	Haloperidol	Clozapine, quetiapine



Tardive dyskinesia	www.FirstRanker.com	Cloza Www.FirstRanker.com
Neuroleptic malignant syndrome	Probably haloperidol	-
Seizures	Clozapine, chlorpromazine	Trifluperazine
Sedation	Clozapine, chlorpromazine	Haloperidol , aripiprazole
Weight gain	Clozapine , olanzapine	Haloperidol , aripiprazole
Diabetes	Clozapine , olanzapine	Ziprasidone, aripiprazole
Agranulocytosis	Clozapine	-
ECG changes	Thioridazine, pimozide	Aripiprazole
Ocular granular deposits	Chlorpromazine	Haloperidol
Pigmentary retinopathy	Thioridazine	-
Contact dermatitis, photosensitive reactions, Blue- gray metallic discoloration	Chlorpromazine	-

ANTI ANXIETY DRUGS

Reduction in the GABAergic activity or increase in serotonergic activity → anxiety.

BENZODIAZEPINES

- Chlordiazepoxide is used for chronic anxiety states
- Oxazepam, lorazepam, alprazolam and diazepam for short lasting anxiety.

AZAPIRONES

- Buspirone, gepirone and ipsapirone (partial agonists of presynaptic 5-HT1A) → decrease the release of serotonin.
- Sedation, cognitive impairment, abuse potential, muscle relaxant, anticonvulsant activity are not seen
- Ineffective in acute anxiety states like panic attacks.
- These are indicated for mild to moderate generalized anxiety states.

BETA BLOCKERS - Propranolol is indicated for performance anxiety.

Other drugs

- Hydroxyzine is H₁ antihistaminic having anti-anxiety activity but profound sedation limits its usefulness.
- SSRIs like Fluoxetine agent of choice for acute conditions like panic attacks.

ANTI-DEPRESSANTS

ANTIDEPRESSANTS/ MOOD ELEVATORS/ THYMOLEPTICS:

Cyclic anti- depressants	Tricyclic tertiary amines	Imipramine, amitriptyline, doxepine, Clomipramine, Dothiepine [Dosulepin]
	Tricyclic secondary amines	Nortriptyline, protriptyline, desipramine
	Tetracyclic	Mianserin, maprotiline, amoxapine
	Bicyclic	Viloxazine
Selective serotonin reuptake inhibitor [SSRIs]		Fluoxetine, paroxetine, fluvoxamine, sertraline, citalopram, escitalopram
Serotonin norepinephrine reuptake inhibitors [SNRIs]		Venlafaxine, duloxetine
Norepinephrine serotonin reuptake enhancers [NSRE's]		Tianeptin
Noradrenergic and specific serotonergic antidepressant [NaSSA]		Mirtazepine
Norepinephrine dopamine reuptake inhibitors [NDRIs]		Bupropion
Serotonin antagonists and reuptake inhibitors [SARIS]		Trazadone, nefazodone

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Noradrenergic reuptake inhibitors [NARINWW.FirstRanker.com					
Mono amine oxidase inhibitors	Irreversible				
	Reversible	MAGI-B	Selegiline		
		MAGI-A	Moclobemide		

- Bupropion's most potent blocker of DA reuptake, indicated for cessation of smoking.
- Venlafaxine is a potent inhibitor of NE reuptake and a weak inhibitor of DA reuptake.
- **Mirtazapine** enhances central noradrenergic and serotonergic activity through the antagonism of central presynaptic β_2 -adrenergic autoreceptors and heteroreceptors.
- **St John's Wart**, an herbal over-the-counter medication, may be effective for mild to moderate depression, but it is associated with several drug interactions.
- Maprotiline and Amoxapine are inhibitors of NE reuptake, with less effect on 5-HT reuptake.

NOTE:

- Other noradrenaline reuptake inhibitors: atomoxetine
- Most potent blocker of 5-HT reuptake Paroxetine
- Least potent blocker of 5-HT reuptake Bupropion
- Most potent blocker of NA reuptake Desipramine
- Least potent blocker of NA reuptake Mirtazapine
- Most selective inhibitor of 5-HT reuptake Escitalopram
- Most selective inhibitor of DA reuptake Bupropion
- Most selective inhibitor of NA reuptake Oxaprotiline
- Maximum antimuscarinic activity Amitriptyline
- Maximum antihistaminic activity Nefazodone
- Maximum α₁ blocking activity Doxepin
- Minimum antimuscarinic, α_1 blocking and antihistaminic activity Venlafaxine
- Doxepin contains high antimuscarinic, antihistaminic and α blocking (maximum) activities.
- Fluoxetine is longest acting and nefazodone is shortest acting antidepressant.
- Amoxapine: chemically related to the antipsychotic drug loxapine, has mixed antidepressant **+neuroleptic properties-**offers advantage for patients with psychotic depression.
- Atomoxetine is the first drug for ADHD that is not a stimulant under the Controlled Substances Act.
- Many other drugs like Protriptyline, Maprotiline, Nafazodone, etc. are marketed in other countries.

MOOD STABILIZERS

Drugs used in prophylaxis of bipolar disorder (Mood Stabilizers)

Established	New
• Lithium	• Lamotrigine
Carbamazepine	• Levo thyroxine (T ₃)
 Valproate 	Calcium channel blockers
	 Clorgyline
	 Clonazepam
	Gabapentin

LITHIUM

- Discovered in 1817 by **Arfeudson**
- First used in the treatment of gout & salt replacement in cardiac disease
- Starting dose for acute mania: 900-2100 mg/day lithium carbonate.

Blood lithium levels:

- Therapeutic levels [for treatment of acute mania]: 0.6 -1.2 mEq /1;
- Prophylactic levels [for relapse prevention in bipolar disorder]: 0.6 –1.0 mEq/L
- Toxic levels: > 1.5 mEq/L



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Effects:

- Most affected organ is kidney > thyroid, Least affected organ is liver.
- Most common side effect is tremor
- Lithium can induce a fine postural tremor of the hands (8 to 12 Hz)
- Most common ECG finding: T wave depression
- Secreted in breast milk & hence contra indicated in pregnancy and lactation.
- Reduce thyroxine synthesis & leads to goiter & hypothyroidism.

Indications

- Acute mania
- Bipolar mood disorders
- Schizo-affective disorder
- Prophylaxis of unipolar mood disorder
- Cyclothymia
- Acute depression
- Chronic alcoholism (in the presence of significant depressive symptoms)
- Impulsive aggression
- Kleine-Levin syndrome
- Chemotherapy induced leucopenia & agranulocytosis (Leucocyte count is increased)
- SIADH (Inhibits ADH action on distal tube)

ELECTRO CONVULSIVE THERAPY

• Developed by Cerletti & Beni in 1938 as electro shock therapy.

Indications

- Major severe depression with
- Suicidal risk first, most important and most common indication
 - Stupor
 - o Poor intake of food and fluids
 - Melancholia
 - Psychotic features
 - Unsatisfactory response to drug therapy
 - Contraindication to drugs
- Severe psychosis (Schizophrenia or mania) with
- Risk of suicide, homicide or physical assault
 - Unsatisfactory response to drug therapy
 - Contraindication to drugs
 - o Prominent depressive features (e.g. schizo-affective disorder)
- Severe catatonia (non-organic) with
- Stupor
- Poor intake of food and fluids
- Unsatisfactory response to drug therapy
- Contraindication to drugs

Contraindications:

- ABSOLUTE: Raised intra cranial tension (fear of brain herniation)
- Relative
 - Cerebro vascular accident (CVA)
 - Recent MI
 - Severe hypertension
 - o Pheochromocytoma
 - Severe pulmonary disease
 - Retinal detachment



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- **Direct ECT (unmodified):** ECT is given without muscle relaxants and anesthesia. Direct ECT causes decreased intra ocular tension.
- Modified ECT: given with drug induced muscle relaxation and anesthesia.

Complications:

- ECT- Direct: Most common side effect is fracture T₄T₈ spine
- Modified —ECT: Most common is **retrograde amnesia** (ante grade amnesia is also found)

Light & melatonin therapy

- Based on the concept that humans are subject to circadian rhythms that affect physiological processes in predictable ways
- By varying light exposure, circadian rhythms can be altered
- The concentration of melatonin in blood is highest at night and lowest or absent during the daylight
- Artificial bright light therapy is a proved method to treat depressive disorder with seasonal pattern which is seen in winter months when daylight hours are reduced

BEHAVIOR THERAPY

Туре	Based on	Used in
Systemic desensitization	Reciprocal inhibition	Phobias (treatment of choice) OCD (treatment of choice) Psycho-sexual dysfunctions
Aversion therapy	Pairing of pleasant stimulus with an unpleasant responses e.g. Pairing alcohol with electric shock	Drug abuse Sexual deviations
Flooding	Direct exposure to phobia but escape not possible	Phobias
Operant conditioning for increasing a behavior	Positive reinforcement Negative reinforcement Modeling	For augmenting an adaptive behavior
Operant conditioning for decreasing a behavior	Time out Punishment Satiation(negative practice procedure)	For demoting maladaptive behavior

Other physical treatments for Depression

Light therapy (phototherapy):

- For the treatment of "seasonal affective disorder" (SAD) by Rosenthal
- Effects of phototherapy may be independent of melatonin and produce a "phase advance" in circadian rhythms (hence treatment may be best given first thing in the morning).
- Usually administered by use of a light box.
- Optimal intensity of light appears to be 10,000 lux.
- Ideal treatment duration is for 30 minutes (at 10,000 lux) a day.
- Although treatment response is generally noticeable within five days.
- For patients with seasonal depressive symptoms, maintenance therapy is recommended throughout the winter months

Vagus nerve stimulation (VNS) therapy:

- Approved for severe, recurrent unipolar and bipolar depression in July 2005.
- Left cervical vagus nerve stimulation is accomplished through leads attached to a pulse generator implanted in the left chest area.



Firstranker's choice

- Response rates of 40-46% have been www.fisstRanker.com nt depress www.fisstRanker.com 9 months, with a remission rate of 29% at one year, suggesting that the effectiveness of VNS may have a slow trajectory.
- VNS may be combined with essentially all existing treatments for depressive disorders.
- It has been safely used with antidepressants (including MAOIs) and can be temporarily shut off to allow for ECT and restarted immediately post-ECT.

*****END*****

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