

Introduction of Psychiatry

Confusing terms

1:00

Delusion

Hallucination

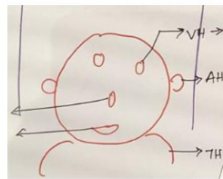
Illusion

Perception without a stimulus

Misinterpretation of a stimulus

Temporal Lobe Epilepsy

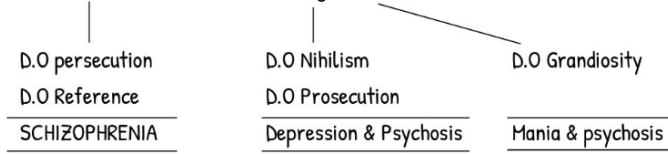
OH
GH



Delirium tremens (Alcohol withdrawal)
Schizophrenia
Cocaine Binge
(or)
Fornication
(or)
Meganin

Delusion

- False
- Fixed
- Firm belief
- Subjective certainty
- Outside one's socio-cultural background



Psychosis (-)

Neurosis (+)

- | | |
|---|---|
| <ul style="list-style-type: none"> • Schizophrenia • Delusional disorders | <ul style="list-style-type: none"> • OCD • Panic attack • Phobia |
|---|---|

ICD International classification of Disorder	DSM Diagnostic statistical manual
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← **Introduction to Psychiatry**

Topic Notes: 2

11
World
WHO

5
America
Apa → American
psychiatric



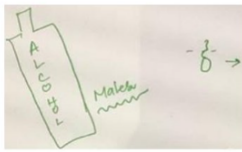
Delusional Disorders

Topic Notes: 2

Delusional Disorders

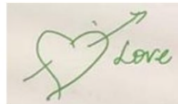
Delusional Disorders
↳ 3 MONTHS

- 1) OTHELLO Sx → Delusion of pathological jealousy
Delusion of morbid jealousy
Delusion of Marital Infidelity



Fixation → Fully formed Delusion

- 2) DE CLERAMBULYS. Delusion of



- Delusion of Erotomania
- Psychosis passionate



- 3) COTARD'S Sx - Delusion of nihilism - Depression Psychosis (AP + AD)

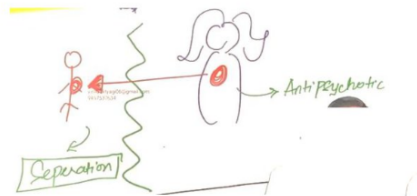
- 4) EDBOM'S Sx - Delusional parasitosis
Delusional infestation

- 5) Delusion of doubles → Capgras & Fregoli
↓
Familiar person is replaced by a non familiar
Familiar person is replaced by a ghost
Familiar person is replaced by imp

- 6) Shared psychotic disorder → **FALREY**
↳

Delusional Disorders

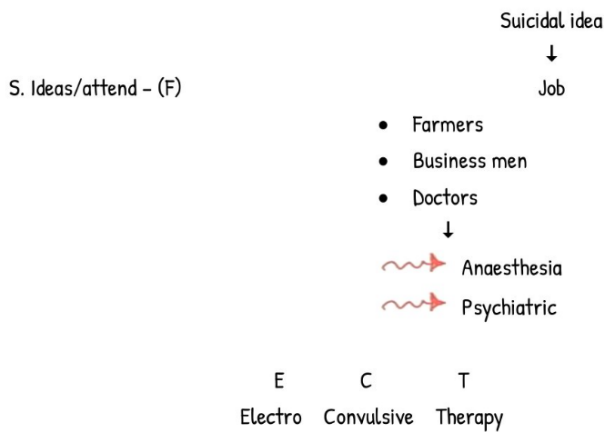
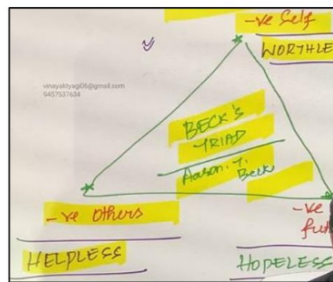
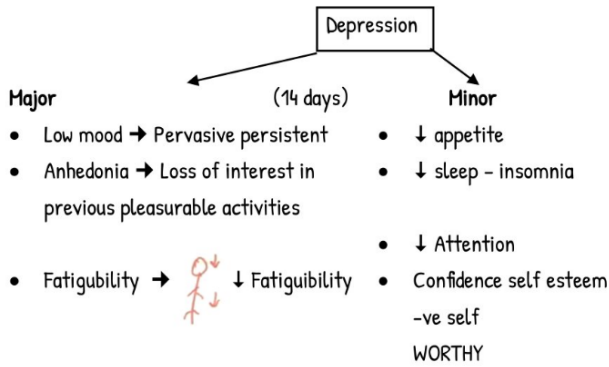
Topic Notes: 2



Mood Disorders

Topic Notes: 3

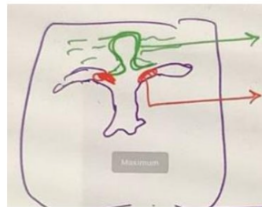
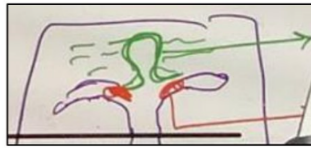
Mood Disorders



- | |
|---|
| <ul style="list-style-type: none"> • SEVERE DEPRESSION & SUICIDAL IDEAS • CATATONIA |
|---|

← **Mood Disorders**
Topic Notes: 3

UGO Cerletti
Lucio Bini



Omega sign
Verguath fold

Mild	Moderate	Severe D	Severe D + Psychosis	Severe D & Suicidal ideas	Suicidal ideas
<ul style="list-style-type: none"> • Counselling • CBT 	AD	AD	AD+ AP	ECT	Counselling

Melancholic depression	Atypical D	Seasonal affective disorder
<ul style="list-style-type: none"> • Early morning wakening • Early morning worsening • ↑ Guilt • ↑ tiredness <p>SSRI</p>	<ul style="list-style-type: none"> ↑ Sleep ↑ Appetite ↑ Interpersonal Rejection sensitivity <p>MAUI</p>	<p><u>Winter Depression</u></p> <p>↓</p> <ul style="list-style-type: none"> • Light therapy + • AD + • Counselling

Mania	
<ul style="list-style-type: none"> • Elated mood • ↑ interest in pleasurable • ↑ Psycho motor activity 	<ul style="list-style-type: none"> • ↓ need for sleep ↳ Hyposomnia • Pressure of speech • Flight of ideas.

Mood Disorders

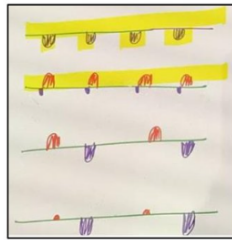
Topic Notes: 3

<p>Circumstantiality</p> 	<p>Flight of Ideas</p> 	<p>Loosenep of association</p> 
Organic brain syndrome	Mania	schizophrenia

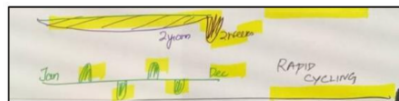
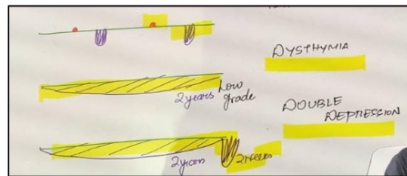
(N) → Goal

Mania = 7 days

Hypomania = 4 days



- UNIPOLAR
- BIPOLAR
- BIPOLAR I
- BIPOLAR II



Schizophrenia

Schizophrenia

History:

- 1) Bendedict Morel - Demence Precoce
- 2) Emil Krepelin - Dementia Frecox
- 3) Eugene Bleuler - Schizophrenia

A utism
mbivalence
ssociation loss
pathy

- 4) Kurt Schneider - First Rank Sx
- (11)

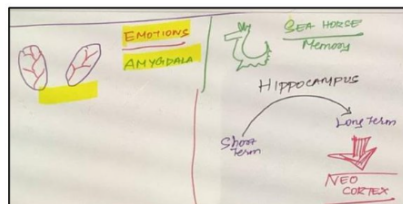
- Serotonin → Sense of wellbeing → TRYPTOPHAN → Raphe nucleus

- Melatonin → Sleep → TRYPTOPHAN → Pineal Gland
↓
Suprachiasmatic Nuclis
• Biological clock
• Circadian Rhythm

- Adrenaline / NA → Sympathetic → TYROSINE
↳ Locus cereleus

- Acetyl choline → Parasympathetic → Acetyleona
+
Choline
↳ Nucleus Basales of Mayernet

- Dopamine → pleasure → TYROSINE → Ventral fegmentarea
↓
Nucleus circumbens
↓
Pleasure centre on brain



Schizophrenia

Topic Notes: 3

Types

(1) Paranoid

- AH
- D.O persecution
- D.O Reference
- 30 yrs

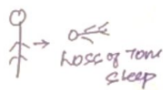
(2) Disorganised / Hebephrenio

- Loosening of association
- Neologism

(3) Catatonia

- Mutism
 - Stupor
 - Waxy flexibility
 - Echolalia
- Repeat examine words.

Cataplexy



Loss of tone sleep

Catalepsy



Abnormal posture against gravity

NARCOLEPSY

CATATONIA



- I.V LORAZEPAM
 - ECT
- Magical response to Lorazepam

BEST	Catatonia
BETTER	Paranoid
Good	Undifferentiated
BAD	Hebephrenic / Disorganised
WORSE	SIMPLE

- Women

Acute
Abrupt

Stressor





Schizophrenia

Topic Notes: 3

- Family history (No) Psychosis - Good
Family history of affective - Good
- Catatonia, paranoid
- Delusions, Hallucination (+ve Sx)
- Affective Sx
- Treatment compliance
- Response good
- DUP → Duration of Untreated Psychosis
- Developing
- Support - Emotional

Neurosis -OCD

Topic Notes: 2

Neurosis - OCD

- 1) OCD - Obsessive compulsive disorder
- Irrelevant, intrusive

Ego dystonic

• Thought possession →	Obsession
• Thought content →	Delusion

Types

M.C

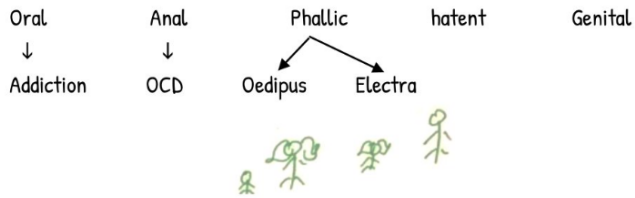
- Contamination → Washing
- Pathological doubt → checking M.C
- Aggressive
Blasphemous
sexual } → Avoidance

Neuroanatomy → Orbitofrontal cortex
Caudate cingulate

Neuro chemistry → Serotonia

Defence Mechanisms → SIGMUND FREUD
Undoing Pleasure Principle
Reaction formation Psycho analysis
1 Solation of affect
→ Psychosexual stages of development

(5)



Pharmacological → SSRI → Large doses

Non pharmacological → E R P T
Exposure Response Prevention Therapy

Neurosis -OCD

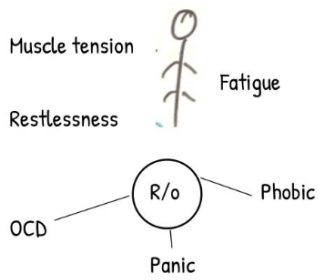
Topic Notes: 2

Surgery →



GAD

- Generalized anxiety disorders
- Free floating anxiety



Rx 1st - SSRI / SNRI
 2nd - BZD / BVSPIRONE
 5HT_{1A} partial

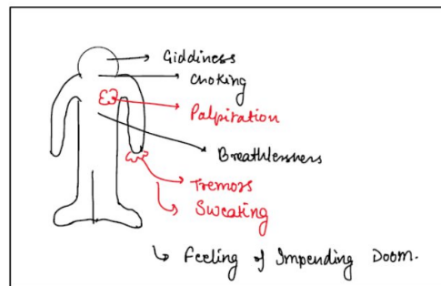
Neurosis-Panic Attack, Phobia, Adjustment Disorder, PTSD & GAD

Topic Notes: 3

Neurosis Panic Attack, Phobia, Adjustment Disorder, PTSD & GAD

Panic attack

- Female
- Middle ages
- Stress

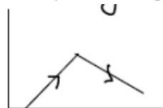


Differential diagnosis of panic attack

- 1) Heart conditions - Myocardial Infraction / myocardial Ischemic
- 2) Lung conditions - Asthma
Pulmonary embolism
- 3) Metabolic conditions - Hypoglycemia
- 4) Thyroid conditions - Hyperthyroidism
- 5) Substance intoxication - cocaine

Substance intoxication

- Cocaine
- Amphetamine
- Cannabis
- Withdrawal symptoms - Alcohol
Benzodiazepenes
- Treatment - Paroxetine + Alprazolam
- Non - pharmacological treatment - De - catastrophization



- Crescendo - decrescendo pattern



Neurosis-Panic Attack, Phobia, Adjustment Disorder, PTSD & GAD

Topic Notes: 3

Phobia

- Agora phobia - Open / market / crowded
- Aura phobia - Heights
- Claustrophobia - Closed / lift
- Aliuro phobia - Cats
- Zoo phobia - Animals
- Xene phobia - Strangers
- Ophido phobia - Snakes
- Thanto phobia - Death
- Nyctaphobia - Darkness / Night
- Blood injection Phobia - Increased Genetic etiology.
Patient has Hypotension & can fall.
Applied tension - can prevent Hypotensions by keeping vessels in vasoconstriction.

Treatment

- 1) Systemic Desensitization
 - Given by Joseph Wolpe
 - Eg: A person having phobia due to cockroaches is asked to do breathing exercise in a room with cockroach and finally given in hand.
- 2) Flooding: - Hay motivated patients.

Adjustment disorder

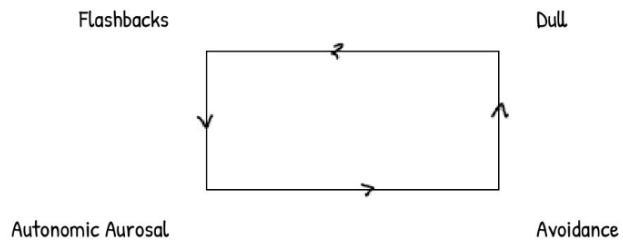
- Adjusting with some change in life.
Eg: Love failure
Facing an exam
Exam failure
Illness of oneself
Death of a loved one

PTSD - Post Traumatic Stress Disorder

- Near death experience
Eg: • War
 - Titanic / Ship wreck
 - Tsunami
 - Accident
 - Rape Victim

← Neurosis-Panic Attack, Phobia, Adjustment Disorder, PTSD & GAD

Topic Notes: 3



Treatment: EMDR

E - Eye

M - Movement

D - De sensitization

R - Re probing

Neurosis-Conversion Disorder, Dissociation Disorder & Other Neurotic Disorders

Topic Notes: 3

Neurosis Conversion Disorders, Dissociation Disorders & Other Neurotic Disorders

Conversion Disorders

- Conversion of Psychological pain to functional pain.
- Eg:
 - Seizures
 - Hemiplegia
 - Blindness
 - Deafness
- Symbolization - Cannot use right hand for few days.
- Modelling - Copy cat.

La Belle indifference - apparent unconcern to one's own illness

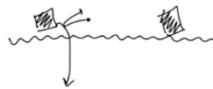
Dissociation Disorders

- Dissociation of Amnesia - (most common)
- Dissociation of fugue - Aimben wandering work/home
- Dissociation of Identity disorder



Assumption as second person

Treatment - Recovered memory therapy
- Narcoanalysis

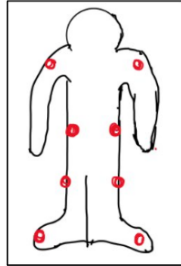


Repression
(Patient goes into Repression)

Neurosis-Conversion Disorder, Dissociation Disorder & Other Neurotic Disorders

Topic Notes: 3

Somatization / Somatic Syndrome Disorder / Briquets Syndrome



Aches & Pain

- Patient complains again & again about Aches & pain at various body parts & joints

Hypochondriasis / Illness Anxiety

- Patient constantly fear of serious illness
- They are prescribed for investigation which comes as normal
- Same thing repeats again & again.

Body Dismorphic Disorder / Dysmorphobia

- Patient complains of contour and keep asking for correcting facial features.

Manchhausen Syndrome / Factitious Disorder

- Patient produces symptoms to get treated as patient.



Sick role

- By proxy – when patient produces symptoms on loved ones like child.

CONVERSION DISORDER	Unconscious	Tide over Guilty
FACTITIOUS DISORDER	Conscious	Sick Role
MALINGERING	Conscious	Monetary gains Esseption over duty.

Ganser's Syndrome

- Seen in prison inmates
- They act as if they are mentally ill.

← **Neurosis-Conversion Disorder, Dissociation Disorder & Other Neurotic Disorders**

Topic Notes: 3

Vorbigeht

- Passing over intentionally.
- Understands the question.

Culture Bond Syndrome [PYQ]

1) DHAT Syndrome

- Semen lost in urine
- Will become impotent due to masturbation
- Common in south India & West Bengal.

2) KORO Syndrome

- China
- Penis might shrink to abdomen

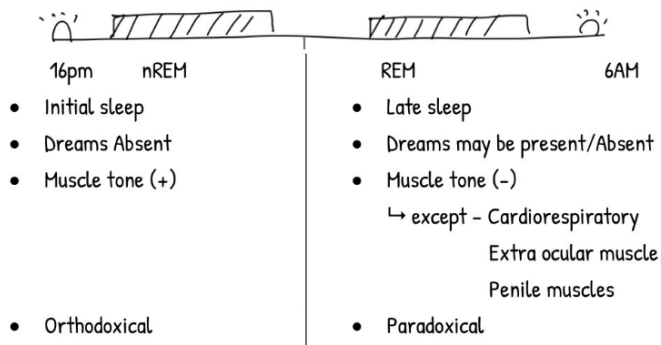
Not to be confused with Kuru disease (prion)

← Sleep Disorders

Topic Notes: 2

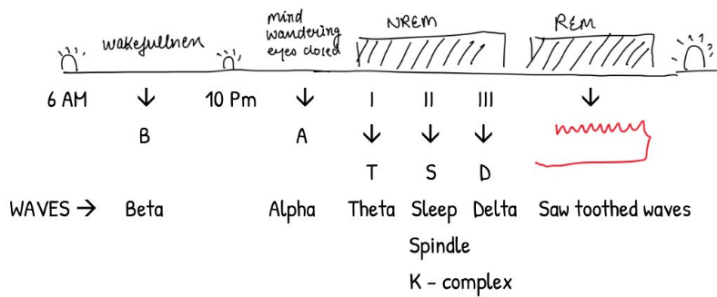
Sleep Disorders

Physiology



Extra encephalogram

- Given by Hans Burger



Treatment

Type	Time of Action	Drug	Side Effect
1) Long acting	12-18 hrs	Chlordiazepoxide	Rick of falls
2) Intermediate	10 hrs	Diazepam	Hang over
3) Short acting	6 hrs	Lorazepam	Addiction
4) Ultra short acting	1-5 hrs	Zolpitone	Sleep onset insomnia

NREM Sleep Disorder - Somnambulism, Night terror
↳ Not able to remember thing

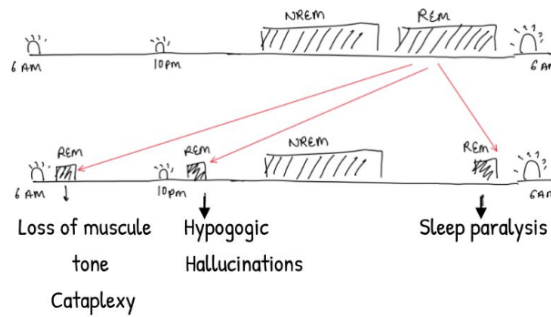
R&M - Sleep disorders - Night Mare
- Able to remember things

← Sleep Disorders

Topic Notes: 2

Narcolepsy

- CATAPLEPSY - Loss of muscle tone - goes to sleep.
- Hypnagogic Hallucination
- Hypnopompic Hallucination
- Sleep paralysis
- Day time drowsiness



- Due to deficiency of - Hypocretin / orexin.
- Treatment - Modafinil ← Psychostimulants.

Restless L&G Syndrome

- Due to
 - Iron deficiency anemia
 - Hypothyroidism

Treatment

- Pramipexole } Previous drug
- Ropinirole } Previous drug
- Pregalsaline } Newer drugs.
- Galscepentine } Newer drugs.

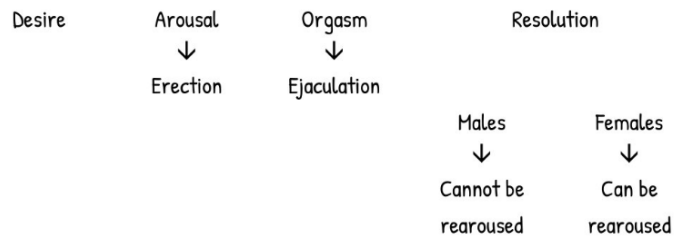
- Insomnia → Depression
- Hyposomnia → Mania
- Hypersomnia → Klein - Levin Syndrome
 - Sleep
 - Eating
 - Irritability

Sex Disorders

Topic Notes: 3

Sex Disorders

Physiology



Hypoactive Sexual Desire Disorder

- First rule out
 - 1) Marital conflicts
 - 2) Homosexuality
- Treatment - Bupropion
 - NDRI
 - ↓ sexual side effects

Erectile Dysfunction

- Two types
 - 1) Organic - Treatment - Phosphodiesterase inhibitors.
 - Eg: Sildenafil
 - Vardenafil
 - Tadalafil - 1 week and pill)
 - They cause vasodilation hence can't be used in
 - Cardiac patients
 - Nitrates
 - Blue tinged vision
 - NAION (Non - artertic ischemic optic neuropathy)
 - Myalgia
 - 2) Psychogenic
 - Master A Johnson
 - Dual Sex therapy
 - Sensate Focus therapy
 - Early morning erection is present

Sex Disorders

Topic Notes: 3

Ejaculation

- Can be
 - 1) Delayed
 - 2) Pre mature ejaculation (PME)

Organic


Treatment – Dapoxetine

↳ SSRI

↳ For PME

- Do not confuse with Duloxetine – SNRI for Neuropathy

Psychogenic

- Sex education
 - Start & stop – James Seeman
- 
- Stopping on verge of ejaculation
 - Squeeze (PYQ)
 - Tight squeeze at coronal ridge



- Nymphomania – Increased sexual desire in female
- Don Juanism } Increased sexual desire in male
- Satyriasis }
- Frigidity – Decreased sexual desire in female

Paraphillias:

Exhibitioscism – undressing

Voyeurism – Peeping tom / scopophilia

Frotteurism – rubbing genitals on unexpected part

Sadism } – Bondage sex

Masochism }

Transvestism – opposite gender clothing

Pedophilia – sex urge with less than 13 yrs age.

- Sex – something born with.
- Gender – someone identified as, usually at age of 3 years.

← **Sex Disorders**

Topic Notes: 3

Gender Identity Disorder / Gender Dysphonia

Homosexuality

- Male born as male
- Identified as male
- Attracted towards male

Transvestism

- Born as male
- Identified as male
- Weak female clothing

GID

- Born as male
- Identified as female

← Personality Disorders

Topic Notes: 2

Personality Disorders

Type A Personality

- 1) Paranoid - Born doubtful
 - 2) Schizoid - Born loners
 - Cold
 - Indifference to praise or criticism
 - 3) Schizotypal - Odd dressing
 - Odd Behaviour
- Schizophrenia & personality disorders.

Type B Personality

- 1) Histrionic - Attention
 - Appreciation
 - Affection
 - Dramatic
 - Seductive
- 2) Narcissistic - Males
 - Exploit relationships
- 3) Antisocial - Dissocial
 - Criminal
 - High substance use
 - No Guilt
 - No shame
- 4) Borderline - EUPD
 - Emotionally unstable personality disorder
 - Impulsive & Intense
 - Suicidal attempts
 - Treatment DBT

Type C Personality

- 1) Anxious - Avoidant
- 2) Dependent - On Father, Brother, Husband, Sister
 - Constantly dependent
- 3) Obsessive - OCPD
 - Punctual
 - Perfectionist

← **Personality Disorders**

Topic Notes: 2

- Persistent
- Follow rules
- Ego syntonic

Rosenmann types

- He was a cardiologist
- 1) Type - A
 - Born warriors → end up MI.
 - Have tendency to acute, loin, & full of energy.
 - 2) Type - D
 - Born worriers → end up MI.
 - Have tendency to loose, down on energy.

← Personality Disorders

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Eating Disorders


Topic Notes: 2

Eating Disorders


ANOREXIA NERVOSA

- Female 
- Young
- Has a body image
- Lean
- But scared of getting fat.
- Less than 17.5 BMI
- Amenorrhea is no more criteria
- Mortality - 8.15%
- Suicide - 10%
- 75.80% → ↓ BMI → Impatient
- Prevent Re-feeding syndrome
- Restrict 2 hrs after meal.

BULIMIA NERVOSA

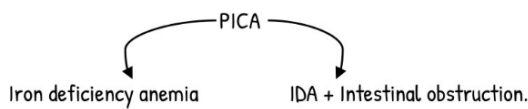
- Impulsive 
- Binge eating
- Self induced vomiting causes Hypochloremic Alkalosis
- Normal weight
- Russel sign

BINGE EATING

- Obesity 
- Eats fast & to much
- Is guilty about it
- Treatment
 - 1) Orlistal
 - Pancreatic lipase inhibitor
 - Steatorrhea
 - 2) Sibutramine
 - 3) Topimate - Anti convulsant

PICA

- Non edible eating. Like clay & mud.



Rumination disorder

- Children around 2 year old
- Bring back contents
- Keep on chewing
- Foul smell + refusal to goods
- ↓
- Failure to thrive
- Attachment & bonding issues.
 - Postpartum blues → 75.95% → sleep regulation & emotional support

← **Eating Disorders**

Topic Notes: 2

- Postpartum depression → Rx. Brexanolone, Zuranolone, electro convulsive therapy
- Postpartum psychosis

Substance Use Disorders

Topic Notes: 6

Substance Use Disorders

Substances

00:18

- Alcohol
 - Beer : 6-8%
 - Wine : 15%
 - Brandy & other 40%
- Diagnosis :
 - Tolerance → ↑ amount → to same euphoria
 - Withdrawal

6-8 hrs	12-18 / 24 / 48 hrs	72 hrs
Tremors	GTCS Rum fits	DT

- Characteristic features of delirium
 - Altered sensorium
 - Clouding of consciousness
 - Attention & concentration
 - Disorientation to time, place & person
 - Visual hallucinations
 - Lilliputian hallucinations
 - Sun downing phenomenon - late evening
- Delirium – neurology / medicine
 - Cerebral malaria & altered sensorium
 - A person after Appendicectomy
 - A person after femur fracture
 - MI - altered sensorium
- 72 hrs → Tremors → DT

Attention & concentration

03:02

- Test for attention - Digit forward test (random nos are cited)
- Test for concentration - serial subtraction test
- Salience - loss of interest in other pleasurable activity

← Substance Use Disorders

Topic Notes: 6

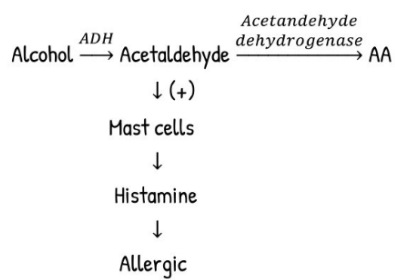
VITAMIN B1 (Thiamine) DEFICIENCY

- 1) Wernicke's encephalopathy - triad
 - G - global confusion
 - O - ophthalmoplegia
 - A - ataxia
 - It is 100% reversible with thiamine
- 2) Korsakoff psychosis
 - Confabulation - filling up of memory gap

Treatment

05:04

- Detoxification
 - Benzodiazepine
 - Normal LFT → Chlordiazepoxide
 - Abnormal LFT → Lorazepam (short-acting)
- De-additions
 - Naltrexone
 - Acamprosate
 - Disulfiram
 - Acts by blocking acetaldehyde dehydrogenase
 - Antabuse / Deterrent



- Aversion therapy - painful
- CAGE
 - C - cut down
 - A - Annoyed



Substance Use Disorders

Topic Notes: 6

- G - guilt
- E - eye opener
- More than 2 will quantify person with addiction
- Cycle of change
 - Pre-contemplation stage - explanation of alcohol behavior
 - ↓
 - Contemplation
 - ↓
 - Preparation - approaching a doctor
 - ↓
 - Action - stopped drinking
 - ↓
 - Maintenance - stoppage of alcohols for an appreciable time
 - ↓
 - Lapse - cheat day

Nicotine

09:33

- Prevalent substance - coffee
- Abuse - nicotine

TREATMENT

- Nicotine replacement therapy
 - Gums
 - Patches
 - Inhalers
- Bupropion - NDRI
 - Smoking cessation
 - Zyban
 - It can cause seizures
 - Least sexual S/E
- Varenicline
 - MoA : $\alpha_4 \beta_2$ partial agonist

Substance Use Disorders

Topic Notes: 6

Cannabis

10:09

- Types
 - Tea - Bhang
 - Roll - joints
 - Ganja
- Intake - reddening of eyes, vasodilation
- Dream like feeling
- Increased appetite
- Problems
 - Gateway drug
 - Hemp insanity - psychosis caused by plant
 - Amotivation syndrome
- Medical use
 - Glaucoma
 - Cancer cachexia
 - Analgesic
 - Anti-spasmodic
 - Anti-emetic

Opioids

11:36

- Short-acting (addiction potential)
 - Heroin
 - Morphine
 - Opioid intoxication
 - Miosis
 - Respiratory depression
 - Rx : IV Naloxone
- Long-acting (Rx potential)
 - Methadone
 - LAAM : Levo Alpha Acetyl Methadone

← Substance Use Disorders

Topic Notes: 6

- Opioid withdrawal
 - Mydriases
 - Lacrimation
 - Rhinorrhea
 - Vomiting
 - Sweating
 - Diarrhea
 - Abdominal cramps
 - Yawning
 - Leg cramps
- Rx : anti-emetics & Anti-diarrhea

TREATMENT

- Detoxification
 - Methadone
 - Buprenorphine
- De-addiction
 - Naloxone
 - Naltrexone
 - Nalmefene
- Cocaine, Amphetamine
 - Snorting → vasoconstriction → septal perforation
 - Vasoconstriction → MI
 - Vasoconstriction → blood bond viral infections
 - Crack → high potent
 - Crash → post cocaine depression
- Inhalation
 - Fecicol
 - Fevibond
 - Huffing / bagging - inhalation of vapors

Hallucinogens

13:07

- LSD
 - Lysergic acid Diethylamide

← Substance Use Disorders

Topic Notes: 6

- Yellow sunshine
- Introduced by Albert Hoffmann

- PCP
 - Phencyclidine
 - Angel dust

- Ketamine
 - Special 'K'
 - Dissociative anesthetic
 - Has Anti-suicidal properties

- Mushrooms - Psilocybin (natural hallucination)

Anabolic Androgenic Steroids

14:12

- Consumption causes
 - Alopecia
 - Roid rage
 - Testicular atrophy

DATE RAPE DRUGS

- Flunitrazepam (Rohypnol)
- Ketamine
- MDMA (Ecstasy)
- GHB (gamma hydroxy butyrate)

- Pathological gambling
 - Impulse control disorders → addiction disorders

Psychopharmacology - Anti Depressants

Topic Notes: 3

Psychopharmacology - Anti Depressants

First class anti-depressants

00:24

- Mono Amine Oxidase Inhibitors (MAOI)
 - 1) Phenezine
 - 2) Tranylcypromine

↓
- Atypical depression
- Problem → cheese reaction, hypertensive crisis

- Cheese (Tyramine) reaction
 - Cheese / tyramine rich intake → increased monoamine (Adrenaline / Noradrenaline / Dopamine)
 - Monoamines are degraded by MAO
 - MAO inhibitors $\xrightarrow{(-)}$ MAO

RIMA

- Reversible Inhibitor of Monoamine Oxidase
- Mechlobemide
- Inhibits MAO-A - weak bond
- Intake of cheese / tyramine rich foods
 - Monoamines are released
 - Excess monoamines are sensitized
 - No HT crisis
 - No cheese reaction
 - No diet restriction

TCA

- Tricyclic Anti-depressants
- Imipramine - nocturnal enuresis
- Amitriphlline - pain + depression

- S/E
 - Anti-histaminergic - sedation & weight gain
 - Anti-muscurinic - dryness of mouth
 - Anti-adrenergic - hypotension, Giddiness
 - Arrhythmia

Psychopharmacology - Anti Depressants

Topic Notes: 3

- TCA toxicity symptoms
 - Altered sensorium
 - Confusion
 - Arrhythmia changes
 - Hyperthermia
 - Dilated pupil
- Rx : Sodium Bicarbonate
- Depression Rx = AD
- Depression + previous H/o mania Rx = mood stabilizers → switching

Ssri

04:21

- Selective serotonin reuptake inhibitors
- Panic attack - Paroxetine
- Childhood depression - Fluoxetine
- Pre-Mature Ejaculation - Dapoxetine
- Heart safe - Escitalopran
- Pathological emotions - Escitalopran
- Problem
 - When it acts on 5HT₂ & 3 receptors :
 - Gastritis
 - Wt. gain
 - Insomnia
 - Vivid dreams

SNRI

- Duloxetine - neuropathy
- Venlafaxine & Desvenlafaxine
 - Diastolic HTN
 - Discontinuation syndrome - cannot stopped suddenly

NDRI

- Bupropion
- For smoking cessation
- Also called Zyban

← Psychopharmacology - Anti Depressants

Topic Notes: 3

- Problem - seizures
- No sexual S/E
- Used in hypoactive sexual desire disorder

Nassa

06:02

- Noradrenergic Specific Serotonergic Anti-depressant
- Neurotransmitter on post-synaptic terminal receptor - 2nd / 3rd messenger, transcription, translation
- Neurotransmitter on post-synaptic receptor - break
- NaSSA acts on pre-synaptic α_2 receptor
 - Break is removed
 - Increased availability of neurotransmitters
- Mirtazapine → Elderly depression → Dyslipidemia

SARI

07:02

- Serotonin antagonist reuptake inhibitor
- SSRI like action without S/E
- 5HT 2₂ & 3 antagonist
- Nefazadone - hepato-toxicity
- Trazadone - priapism (painful erection of penis)

← Psychopharmacology- Anti Psychotics

Topic Notes: 2

Psychopharmacology - Anti Psychotics

- 1st gen anti-psychotics - chlorpromazine
- Class of phenothiazine
- Introduced by Delay & Denniker

Classification

00:39

- Typical
 - First gen
 - Dopamine antagonist
 - 1) Low potency - more doses for small effect
 - Chlorpromazine
 - Skin S/E - blue grey discoloration
 - Liver S/E - obstructive jaundice
 - Eye S/E - reversible lens granular deposits
 - Sexual S/E - retrograde ejaculation
 - Thioridazine
 - S/E - irreversible retinal pigmentation
 - 2) High potency - small dose for increased effect
 - Haloperidol
 - Fluphenazine
- Atypical
 - 2nd gen
 - Serotonin dopamine antagonist
- Clozapine
 - 1st SGA
 - Anti-suicidal
 - Rx resistant Schizophrenia
 - When a patient fails 1 AP + 1 AP = 2AP
 - Life threatening S/E
 - Agranulocytosis
 - Myocarditis
 - Seizures
 - Paralytic ileus



Psychopharmacology- Anti Psychotics

Topic Notes: 2

- Common S/E :
 - Sialorrhea
 - Constipation
 - Obesity
- Risperidone
 - SGA → FGA high doses
- Olanzapine
- S/E :
 - Wt gain
 - DM
 - HTN
 - Dyslipidemia
 - Metabolic syndrome
- Quetiapine
 - Causes cataract & sedation
- Ziprasidone
 - QT interval prolongation
 - Torsades De pointes

Psychopharmacology- Mood Stabilizers

Topic Notes: 2

Psychopharmacology - Mood Stabilizers

Lithium

00:22

- Introduced John F. cade
- Liver friendly drug
- Goes via kidney
- Anti-suicidal property
- Narrow therapeutic index
- 0.8 - 1.2 mEq/L
- 2.5 mEq/L - toxicity
 - Gold standard Rx - hemodialysis
- S/E:
 - Acne
 - Nephrogenic DI
 - Nephrotic syndrome
 - Hypothyroidism
 - Fine tremors
 - Ebstein's anomaly
- Drug interactions
 - Thiazide
 - ACE inhibitors
 - NSAIDs
- Fine tremors → coarse tremors & GIT S/E = Li toxicity
- Pregnant patient on Li n 3rd trimester without S/E - maintain the dose
 - In 3rd trimester - increased blood levels of Li
 - Look for toxicity symptoms
 - Decrease dose of Li

Valproate

03:17

- S/E
 - Hyperammonia
 - Liver failure
 - PCOD
 - Neural tube defects



Psychopharmacology- Mood Stabilizers

Topic Notes: 2

- Decreases platelets causing thrombocytopenia

Cbz

03:36

- Causes
 - 1) Steven Johnson syndrome
 - 2) Toxic epidermal neurolysis
- Finger nail hypoplasia
- Cleft lip
- Cleft palate
- Aplastic anemia

OXCARBAMAZEPINE

- More risk of hyponatremia
- Rapid cycling DOC - Valproate
- Predominantly mania, few episodes of depression DOC - Lithium
- Predominantly depression, few ep of mania DOC - Lamotrigine



Pediatrics Disorders

- Mental retardation
 - Intellectual disability
 - Intellectual developmental disorder
 - $$IQ = \frac{\text{mental age}}{\text{chronological age}} \times 100$$
- Normal : 90-110
- Borderline : 70-90
- Mild : 50-70
- Mod : 35-50
- Severe : 20-35
- Profound : <20

ADHD

01:03

- Attention deficit hyperactivity disorder
- Triad
 - Inattention
 - Hyperactivity
 - Impulsivity
- Diagnosed in 2 settings
- Continuous performance test
- Rx
 - Stimulant
 - Methylphenidate
 - Dextroamphetamine
 - Non-stimulant
 - Atomoxetine
 - Clonidine

Autism

02:21

- Autism spectrum disorder
- Pervasive developmental disorder
- Triad
 - Decreased verbal & nonverbal communication
 - Reduced social interaction
 - RRBI - restricted range of behavior and interest



Pediatrics Disorders

Topic Notes: 4

- Retts syndrome – along with the triad, the child will have
 - Seizures
 - Irregular respiration
 - Coliosis
 - Ataxia
- More common in females
- Hyperammonemia can occur
- FDA approved drug for Rx – Trofinetide
- Asperger's syndrome
 - Normal verbal communication
 - Reduced social interaction
 - RRBI – restricted range of behavior and interest
- Specific learning disorder (SLD)
 - Dyslexia
 - Dysgraphia
 - Dyscalculia

TICS

03:42

- Rapid brief stereotyped involuntary movements
- Suppressed in few seconds
- Premonitory urge
- Simple motor
 - Shoulder shrugging
 - Eye blinking
- Simple vocal
 - Throat clearing
- Complex motor
 - Echopraxia
 - Copropraxia

← Pediatrics Disorders

Topic Notes: 4

- Complex vocal
 - Echolalia
 - Coprolalia
- Touretts disorder : 1VT + 1MT + 1 yr + <18 yrs (onset)
- Rx :
 - Risperidone / Clonidine
 - Habit reversal training

Impulse control disorders

05:19

- Pyromania → fire → more common in boys
- Kleptomania
 - More common in girls
 - Act → goal
 - Object → goal
- Trichifallomania – hair pulling disorder
 - Common sites : scalp & eyebrows
 - MC in females
 - Pulls hair & throws down – Trichitallomania
 - Pulls hair & puts it in mouth – trichophagia
 - Pulls hair, eats & causes obstruction – trichobizare

Odd

06:29

- Oppositional defiant disorder
- Diagnosed around 8 yrs
 - Annoys
 - Annoyed by others
 - Angry
- No proper Rx : ODD → CD (conduct disorders) – teenagers
 - Bullying
 - Breaking rules

← **Pediatrics Disorders**
Topic Notes: 4

- Stealing money
- Truancy
- No proper Rx : CD → ASPD (antisocial personal disorder)
 - Diagnosed at 18 yrs

Punishment & Reinforcement

07:36

- Operant conditioning
- Given by B.F skinner
- Classical conditioning – given by Ivan parlor

- Gender recognition : 3yrs
- Encoperosis diagnosis : 4 yrs
- Enuresis : 5 yrs
 - Biological
 - Local
 - Psychological

- Bell & pad technique
 - Bladder full → urine → pad stimulated → bell → awake

- Rx : Imipramine, Desmopressin

Psychology-Contribution of Psychologist

Topic Notes: 2

Psychology - Contribution of Psychologist

- Alfred Adler
 - Concept of birth order
 - Inferiority complex
- Karl Justav Jung
 - Archetypes - collective unconscious
- Mortein Seligman - Learned helplessness
- Elizebeth Kubler Ross
 - Death and dying
 - Sigh of death
 - Denial → Anger → Bargain → Depression → Acceptance
- Abraham Maslow
 - Motivational ladder
 - Hierarchy of needs
 - Physiological needs
 - Safety needs
 - Love needs
 - Self esteem needs
 - Self-actualization
- Sigmund frued
 - Psychoanalysis
 - Pleasure principle
 - Defence mechanism
 - Psychosexual stages (5)
 - Oral
 - Anal
 - Phallic
 - Conversion disorder
 - Couch technique
 - Free association
 - Interpretation of dreams

← Psychology-Contribution of Psychologist

Topic Notes: 2

- Structural theory of mind
 - Instinctual disorders
 - Ego
 - Super ego
- Transference & counter transference
 - Transference : Patient has extreme +ve / -ve attitude towards examiner
 - Counter transference : unconscious analyzation of emotions from patient towards therapist
- Erik – Erikson – psychosocial stage (8)
 - Trust vs Mistrust
 - ↓
 - Industry vs inferiority
 - ↓
 - Identity vs role confusion
 - ↓
 - Intimacy vs isolation
 - ↓
 - Generativity vs stagnation
 - ↓
 - Integrity vs disparity
- Psychosexual – S. Freud – 5
- Psychosocial – E. Erickson – 8
- Cognitive – Jean piaget – 4

Psychology- Defence Mechanism

Topic Notes: 1

Psychology - Defence Mechanism

- Psychotic narcissistic
 - Denial
 - Distortion
 - Projection

- Immature
 - Repression
 - Displacement
 - Rationalization

- Mature
 - Anticipation
 - Altruism
 - Ascetism
 - Sublimation
 - Suppression
 - Humor

- Defense mechanism - given by Sigmund Freud

Forensic Psychiatry

Topic Notes: 1

Forensic Psychiatry

- Mc Naughtans rule - sec 84 IPC - insanity defense
- **Lucid interval** : Abnormal - Normal - Abnormal
 - Normal → punishable
- De-criminalization of suicide - 309 IPC
- POCSO - Protection of Child from Sexual Offences
- Narcotic & Psychotropic substances Act
 - Coffee
 - Alcohol
 - Nicotine
 - Smaller amount of substances → rehabilitation (only applicable to small amounts)

Dementia

Dementia vs Delirium

00:23

DEMENTIA	DELIRIUM
Normal sensorium	Altered sensorium
Consciousness normal	Clouding of consciousness
Memory	Attention & concentration
Insidious onset	Acute / abrupt onset

Dementia

01:07

- Characteristic features of dementia
 - Amnesia - memory
 - Apraxia - movement learned
 - Agnosia - familiar things will not be able to identify
 - Executive dysfunction - planning, perform, feedback

Cortical	Subcortical
Amnesia	Psychiatric
Apraxia	Movement
Agnosia	
Executive dysfunction	
Alzheimers	Huntington's
Fronto temporal (picks)	Dementia lewy body
	Wilson disease

- Causes of reversible dementia
 - Very high B1 deficiency, B12, niacin
 - Hypothyroidism
 - Normal pressure hydrocephalus
 - Dementia
 - Ataxia
 - Urinary incontinence

Types

02:57

- Alzheimer's dementia
 - MC

← **Dementia**
Topic Notes: 2

- Amyloid plaques neurofibrillary tangles
- Gradual decline

- Vascular dementia
 - Step wise progression

- Huntington's dementia
 - Dementia
 - Depression
 - Death by suicides
 - Chorea

- Lewy Body Dementia
 - Altered sensorium
 - +
 - Visual hallucinations
 - +
 - Sensitivity to anti-psychotics

- Rx [MeGaDoRiTa]
 - Memantine → NMDA antagonist
 - Galantamine
 - Donepezil
 - Rivastigmine
 - Tacrine

} Ach esterase inhibitor

- Transdermal patches of Donepezil & Rivastigmine are available
- Aducanumab – targeted intervention



Mental State Examination in Psychiatry

Topic Notes: 2

Mental State Examination in Psychiatry

- ↑ psychomotor activity - mania
- ↓ psychomotor activity - depression, catatonia
- Catalepsy : abnormal posture against gravity - catatonia
- Stereotype : non-purposeful repetitive - catatonia
- Mannerisms : purposeful repetitive movements - catatonia

- Mood
 - Depressed - depression
 - Elated mood - mania
 - Labile affect - mania

- Thought
 - Form - Derailment, Loosening of association, Tangentiality, Neologism
 - Stream - flight of ideas, circumstantiality, prolixity (hypomania)
 - Possession - obsession
 - Content - delusion

- Speech
 - Clang association
 - Man Van Ran Can Pan Tan - mania

- Puns - double meaning → mania

- Hallucinations
 - Auditory - psychiatry, functional
 - Visual - neurologic, organic
 - Both are +ve symptoms

- Higher mental functions
 - Attention → digit forward
 - Concentration → serial subtraction
 - Memory
 - Immediate → attention test
 - Recent → Van, Blue, water → repeat after 5 mins
 - Remote → 10yrs of life VIIth std



Mental State Examination in Psychiatry

Topic Notes: 2

- Abstract thinking
 - Similarity
 - Orange , apple
 - Car , bicycle
 - Proverb
 - Make hay while the sun shines
 - All that glitters is not gold
- Judgement test
 - House on fire
 - Envelope on road