

SUBSTANCE USE & RELATED DISORDERS

→ Concept of dependence :-



→ All substance have Psychological Dependence
All substance Don't have physical Dependence.

≡ No physical Dependence
Only Psychological Dependence } → LSD

Substance	Intoxication	withdrawal
↓ Action ↓ ⊗	↓ ⊗	↓ Reverse of ⊗
eg. ALCOHOL (CNS depressant)	Drowsiness Nystagmus Blackouts (AG Amnesia) (Pt. appears normal to onlookers) COMA , DEATH.	Mild 8-12 hours of last drink • Tremors • Autonomic Hyperactivity (↑HR, ↑BP) • Alcoholic Paranoia (fixed delusion) (moderate)

8-12 hrs of last Drink (moderate)	• Alcoholic Hallucination (Auditory Hallucination in clear sensorium)
Severe	- GTLS } 12-24 hrs
24-72 hrs (life threatening)	• Delirium Tremens (visual Hallucinations in altered sensorium)

Alcohol withdrawal :- Tremors .

↳ 1st, key, Mc Symptom.

↳ appear @ 6-8 hours after last drink.

Substance	Intoxication	Withdrawal.
Caffeine (CNS stimulant)	→ Insomnia → Restlessness → GI Irritation → Diuresis	→ lethargy → Drowsiness → Headache
Cocaine (↑ Dopamine, ↑ NE)	→ Psychosis (Delusion) → Paranoia TACTILE HALLUCINATIONS	→ Depression (↓ Dopamine)
Amphetamine including MDMA	Tachycardia, Hypertension	Bradycardia, Hypotension
	Paranoid SCHIZO like Symptoms.	
OPIUM → Miosis → Dryness of secretions → ↓ Gut motility (morphine, Codeine, Smack, Heroin)	→ Pin-point pupils → Respiratory depression (MCC of drug overdose death) (Antidote = i/v Naloxone)	→ Mydriasis → Rhinorrhoea, Diarrhoea → lacrimation, Yawning → sweating, Piloerection (COLD TURKEY Autonomic hyperactivity) → Cramps

Substance	Intoxication	Withdrawal.
NICOTINE (CNS Stimulant)	→ Insomnia → Restlessness	→ Drowsiness with Paradoxical trouble Sleeping (Anxiety) → Wt. Gain, ↑ Appetite → Constipation
CANNABIS (↑ Appetite)	→ Munchies (eats a lot) → Run Amok - Run Aimlessly.	→ Wt. loss, ↓ Appetite → Depression → Low mood.

MANAGEMENT

↓
2 steps

① Withdrawal Management

1a Detoxification

② Deaddiction Proper

Relapse Prevention

↓
Anticraving Medicines.

should ideally be given after withdrawal is over.

- 1) Alcohol → 1) Naltrexone
2) Acamprosate
- 2) Opium → Naltrexone
- 3) Nicotine → Varenicline
Bupropine

Treatment of Alcohol withdrawal

→ BZD (benzodiazepine) is drug of choice.



Note) Thiamine : is to prevent WERNICKE'S ENCEPHALOPATHY.

Alcohol Deaddiction

→ Aversive Therapy : (DETERANT Agent)

• Disulfiram :-

- Aldehyde dehydrogenase inhibitor
- Causes accumulation of acetaldehyde
- Starting dose = 250 mg/day.
- Pt. must be off alcohol & related drugs for last 12 hours.

Opium Deaddiction		
	Detoxification	Relapse prevention
→ ORAL & NASAL	CLONIDINE	NALTREXONE (μ Receptor Antagonist)
→ Injectable (Heroin) (>3m)	" OPIUM SUBSTITUTION THERAPY "	
	Buprenorphine (μ Partial Agonist)	Methadone (μ Agonist)

Q. MC substance used /abused India/world.

Nicotine > Alcohol > Cannabis > opium.

LSD

→ BAD Trip (MC)
Panic like Reaction

→ Synaesthesia (Reflex Hallucination)