## Psych SAQs 2020

## **Prab Group Answers**

1)

## a) Classification of antidepressants.

They can be classified according to the Mechanism of Action.

SSRIs-Fluoxetine

SNRIs- Duloxetine and venflaxine

SARIs-Trazodone

MAOs- Selegiline, Tranycypromine

TCAs- Amitryptiline and Imipramine

Nassas

- Check on side effects
- These drugs have other indications aside from being antidepressants
- Symptoms of depression and mania... 2 different spectrums
- Drug refractory therapy- ECT

#### b) 3 Factors that affect increased adherence to medication.

Adherence- Factors not associated with patients...

- Drug factors- cost, availability, dosing frequency, side effects, route of administration
- Disease- insight, the severity,
- Social- family, work,

2)

## a) 6 symptoms of a panic attack

Cognitive- sense of impending danger, can't cope, feeling apprehensive Physiological- symphathetic ish... 4/13 for diagnosis... addd



Behavioural response- avoid certain situations and impaired task performance

## b) Medical conditions that may produce similar effects.

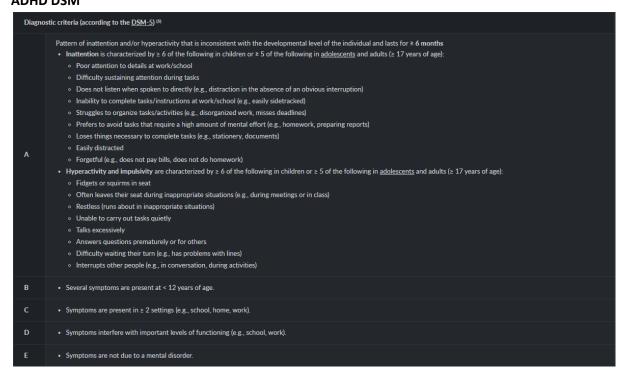
- i) CNS- Preclinical Parkinsonism,
- ii) CVS- MI, Tachyarrythmias, Pericarditis, Heart failure(PNDs)
- iii) Endocrine- Hypethyroidism, Hypoglycemia, Pheochromocytoma, Cushings
- iv) Resp- PE, Acute Asthmatic attack
- v) GIT- Acute Abdomen
- vi) Substance Use- Alcohol withdrawal/ toxicity, Cocaine use
- vii) Drugs- Overdose of symphathomimetics

# c) Treatment of panic attacks

Pharmcotherapy- Sympatholytics, anxiolytics, sedative hypnotics Psychotherapy- Behaviour Therapy

3)

# a) 4 differential diagnosis of ADHD ADHD DSM



Psychiatric Disorders	Medical
Conduct Disorders	TBIs
OCD	Sleeping Disorders
Specific learning Disorder	Hyperthyroidism
Autism Spectrum Disorder- Autistic, Pervasive Developmental disorder, Asperger Syndrome	Hypoglycemia
Substance	Anemia
	Lead Poisoning

#### b) Medications used in the treatment of ADHD.

Methylphenidate: Amphetamine like, MOA- promote release of NE

Dextroamphetamine

Atomoxetine: A selective reuptake inhibitor

Guanfacine

## 4) Antipsychotics

# a) Give examples of each. just add guys.... im tayad of typingggg.

a) Typical Antipsychotics	b) Atypical Antipsychotics
Haloperidol	Olanzapine
Chlorpromazine	Clozapine- refractory ish
Fluphenazine	quitepine
Pimazide	???
Trifluphenazine	

#### b) Outline examples of neurological side effects of antipsychotic medications

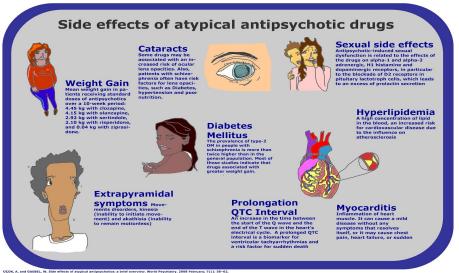
- Acute dystonia: features include spasm of tongue, throat, face, jaw, eyes, back muscle
- Akathisia: motor restlessness, inability to stay still
- Pseudo-parkinsonism: Bradykinesia, rigidity, resting tremor, stiff gait
- Tardive dyskinesia: involuntary movements of the mouth, tongue, limbs, face anf resp muscles

#### c) What would you do to alleviate above mentioned side effects

- Acute dystonia: benztropine
- Akathisia: reduce dose of antipsychotic, add Beta-blokers,
- Pseudo-parkinsonism: Add anticholinergics or amantadine, benzodiazepines may also be effective

## d) Mention other side effects of antipsychotics

https://next.amboss.com/us/article/ANORdg?q=antipsychotics#Ze835049c732df10f537fba a3b64fe88c



#### 5) ECT

- a) **Give 4 indications of ECT** refractory to drugs, compliance, tolerating side effects, contraindication of pharmacotherapy, adjunct to treatment
- Major depression disorder
- Schizoaffective disorder
- Bipolar mood disorder: manic episodes not responding to mood stabilizers
- Highly suicidal or pregnant depressed patients
- Neuroleptic malignant syndrome
- Post partum psychosis

#### b) What medications should be withdrawn before ECT and why?

- Benzodiazepines- anticonvulsant action
- Lithium carbonate- increased post ictal delirium, prolonged seizure activity
- Metformin??
- Anticonvulsants- bcz of their anticonvulsant effect

## c) What are the steps to be followed in management of patients post ECT

- Observe and record the vitals of the patient
- Place the patient on the side lying position, clean secretions
- Transfer the patient to the recovery room
- Allow the patient to sleep for 30mins to 1 hour
- Let the patient feed when fully conscious (start with drinks)

# d) What are the complications of ECT

- Headache
- Memory loss
- Confusion
- Death
  - More common [2]
    - o Reversible memory loss: retrograde more often than anterograde amnesia (typically resolves within 6 months of last treatment) 🖅
    - ∘ <u>Tension-type headache</u> (=
    - Nausea
  - o Transient muscle <u>pain</u>
  - o <u>Disorientation</u>
  - Less common
    - o Skin burns
    - $\circ~$  Temporary, short-term functional disorders (such as amnesic  $\underline{aphasia})$
    - o Prolonged seizure

6)

## a) Give 5 symptoms of opiod intoxication

- Resp: Resp depression
- GIT: Constipation, reduced gag reflex
- Cvs: low HR, BP
- Vitals: hypothermia
- Musculosk: rhabdomyolysis, myoclonic jerks
- CNS: Slurred speech, drowsiness, confusion, seizures

- Clinical features
  - <u>Altered mental status</u>, euphoria, <u>CNS</u> depression (intensifies in combination with other <u>CNS</u>-depressing substances, such as alcohol, <u>benzodiazepines</u>)
  - ∘ Bilateral <u>miosis</u> (pinpoint <u>pupils</u>) (=
  - ∘ Respiratory depression (↓ respiratory rate and ↓ tidal volume), hemorrhagic lung edema ∈
  - ∘ Myoclonic jerks (=), seizures (=)
  - Constipation
  - ↓ Gag reflex
  - ↓ Bowel sounds
  - ↓ <u>Heart rate</u> and ↓ blood pressure, <u>hypothermia</u> {=
  - ∘ <u>Rhabdomyolysis</u> <del>=</del>



<u>Altered mental status</u>, respiratory depression, and <u>miosis</u> are the classic triad of <u>opioid intoxication</u>. However, the absence of <u>miosis</u> does not rule out <u>opioid intoxication</u>.

## b) 5 features of alcohol use disorder

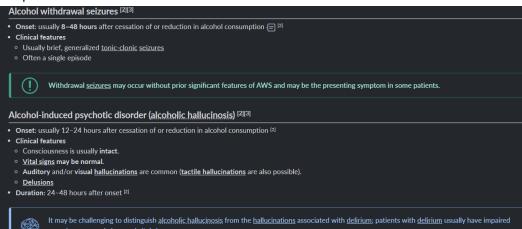
- Persistent desire or unsuccessful effort to cut down or control alcohol use
- Alcohol taken in large amounts or longer periods
- Strong desire, craving or urge to take alcohol
- Developed tolerance: need to increase amount of alcohol to achieve intoxication
- Alcohol is taken to relieve or avoid withdrawal
- Behavioural changes and bad company
  - 11 criteria based on the patient's history within the past 12 months
  - A diagnosis of AUD is established once ≥ 2 criteria are met.
    - 1. Drinking more or over a longer period than intended
    - 2. Tried to cut down or stop more than once, but couldn't
    - 3. Spends a lot of time drinking or recovering from aftereffects
    - 4. Strong desire to drink alcohol
    - 5. Drinking has a negative impact on everyday function (social, work etc)
    - 6. Continued drinking despite social or interpersonal problems
    - 7. Given up interests and activities that were important because of drinking
    - 8. Drinking in physically hazardous situations more than once
    - 9. Continued drinking despite physical or psychological problems
  - 10. Increasing amount of drinks to maintain same effects as before
  - 11. Features of withdrawal when the effects of alcohol wear off (see alcohol withdrawal below)
  - Severity
    - Mild: presence of 2-3 criteria
    - o Moderate: presence of 4-5 criteria
    - Severe: presence of ≥ 6 criteria
- c) List two drugs used in the treatment of opiod use disorder
- Naltrexone
- Buprenophine

#### Acute management

- 1. Airway management: head-tilt/chin-lift maneuver and assisted breathing (=) to improve oxygenation)
- 2. Naloxone
  - o Slow administration to prevent acute withdrawal syndrome
  - Neutralization of opioid effects → restoration of ventilation and counteraction of <u>CNS</u> depression
- 3. Management of complications (e.g., diazepam for seizures)
- 4. Naltrexone: after detoxification to prevent relapse

## d) 5 symptoms of alcohol withdrawal

- Autonomic symptoms: sweating, palpitations, tachycardia
- CNS: Headaches, Anxiety, Insomia & vivid dreams
- GI: Anorexia, nausea, vomiting
- Complicated



# Alcohol withdrawal delirium (delirium tremens) [2][3]

- Definition: persistent alteration of consciousness and sympathetic hyperactivity due to alcohol withdrawal
- Onset: usually 72-96 hours after cessation of or reduction in alcohol consumption
- Clinical features
  - Symptoms of <u>altered mental status</u>
    - Impaired consciousness and <u>disorientation</u>
    - Visual and <u>tactile hallucinations</u> (usually small moving objects, e.g., mice, crawling insects)
    - Increased suggestibility (=)
  - o Worsening symptoms of autonomic instability
    - <u>Tachycardia</u>
    - Hypertension
    - Anxiety
    - Nausea
    - Sweating
  - Worsening symptoms of neurological impairment
    - <u>Psychomotor agitation</u> (e.g., fidgeting, restlessness, tearfulness)
    - Alcohol withdrawal seizures can occur during this phase.
    - Insomnia
    - Rest and intention tremor (first high frequency, then low frequency)
- Duration: usually 2-3 days; may be lethal

7)

## a) 3 indications?? Question not clear

## b) List 3 mature and 3 immature defenses mechanisms

Mature: Suppression, sublimation, altruism

Immature: Regression, Acting out, Denial, Displacement, Projection, Rationalization, Reaction formation

# c) What are the benefits of family therapy

Just mouth stuff....

## d) Define the following terms- confirm this answer:(

- i) Systemic desensitization- Pt attains a state of complete relaxation and is then exposed to stimulus that elicit anxiety.
- ii) Flooding- Pt is encouraged to confront a maximum intensity anxiety provoking stimulus directly or through imagining without initial relaxation.