

Lecture 1

General Anesthesia

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CNS-Pharmacology Lecture 1 1.Which of the following is wrong about anesthesia? A patient may experience delirium and violent behavior in stage III of anesthesia 2.Regarding ketamine: Which one of the following is false? Select one: a. It produces analgesia with hypnosis; however, the eyes remain open. b. Itis derived from phencyclidine and block NMDA glutamate receptors c. It increases blood pressure as well as intracranial and intraocular pressures d. It may produce delirium and hallucinations on recovery e. It increases respiratory rate and lowers PaCO2. Answer: e 3.Anesthetic drug which has a good analgesic effect + act as a strong bronchodilator? **Answer: Ketamine** 4. Which of the following anesthetic drugs cause hepatic toxicity? Answer: Halothane 5.General anesthesia MOA? a. Direct act at GABA-A b. Potentiate GABA in GABA-A with no direct effect on NMDA receptor c. Activation of nicotine on K+ currents d. Increase chloride efflux Answer: a

6.Which of the following drugs is contraindicated in a stroke case?

- a. Ketamine
- b. Halothane
- c. Desflurane

Answer: a

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Halothane and sevoflurane inhalation anesthetics: Which one of the following is false?

- a. Sevoflurane is chemically unstable; it decomposes on contact with lime water.
- b. Sevoflurane produce faster induction of anaesthesia than halothane.
- c. Sevoflurane has pleasant smell, and produces less respiratory depression
- d. Halothane causes higher incidence of ventricular arrhythmia.
- e. Metabolism of sevoflurane in liver produces large amount of fluoride radicals.

Something false about halothane?

Potent anesthetic and strong analgesic

Which of the following is not true about anesthetics?

Opioids cause hypertension and respiratory depression

The following side effects may be observed with halothane except? Select one:

- a. Hypotension.
- **b. Jaundice**
- c. Diffusion anoxia
- d. Ventricular premature contractions.
- e. Hypercapnia

Answer: e

Which one of the following is false about isoflurane?

- a. It has a pleasant smell.
- b. It has lower blood solubility than halothane
- c. It lowers blood pressure due to lowering of total peripheral resistance.
- d. It can be used with CO2 absorption system (lime water) in the semiclosed method
- e. It depresses respiration insignificantly

Ans:(d)



Lecture 2

Sedative hypnotics (1) Benzodiazepines and related drugs

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CNS-Pharmacology Lecture 2 1. False about adverse effect of benzodiazepines? a. Decrease reaction time b. Motor incoordination c. Confusion d Fatigue e. amnesia Answer: A 2. Which of the following is not used as a hypnotic? A. Amphetamine **B.** Zolpidem C. Zaleplon d. Eszopiclone Answer: A 3. Which of the following is incorrect about benzodiazepines? a. Safe to use with alcohol b. Motor incoordination c. Confusion d Fatigue e. amnesia Answer: A 4. All are false according to sedative hypnotics EXCEPT : a. Phenobarbital long acting on Cl channels b. Lorazepam activate GABA A directly Answer: B

- 5. Which one of the following is false about benzodiazepines?
- a. They increase entry of chloride ions into neurons acted upon by GABA.
- **b.** They can cause skeletal muscle 1 relaxation.
- c. They can cause psychomotor slowing.
- d. They can reduce delusions and hallucinations in psychotic patients.
- e. Use of large doses can induce sleep and cause anterograde amnesia.

Answer: D

Answer: C

6. The following may be adverse effects of therapeutic doses of BDZs except?

- a. Impaired cognition and judgement.
- b. Hangover.
- c. Respiratory depression.
- d. Enhancement of CNS depressant action of 1 ethanol.
- e. Disinhibition.
- 7. Zolpidem: Which one of the following is false?
- a. It has low incidence of dependence.
- b. It is not helpful for jet-lag insomnia.

c. It does not bind to BDZ receptors when the GABA-A receptor contains alpha2-subunits.

d. It has skeletal muscle relaxing and anticonvulsant action.

e. It is a hypnotic that does not produce hangover or rebound insomnia after sleep.

Answer: D

- 8. The following have active hepatic metabolite except?
- a. Alprazolam.
- b. Lorazepam.
- c. Diazepam.
- d. Chlordiazepoxide.
- e. Flurazepam

Answer: B

9. All of the following is true about flumazenil except: Answer: Patients with suspected benzodiazepine overdose should respond adequately to a cumulative dose of 1-50 mg given over 2-10 minutes

10. One of the following is INCORRECT? Zolpidem use in acute anticonvulsant

11. Patient taking 2 tablets from lorazepam, doctor says he is in toxicity state, what appropriate action?

- A) Gastric lavage
- **B) IV Flumazenil**
- C) IV sodium bicarbonate

Answer: B



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Lecture 4

Antiepileptic Drugs

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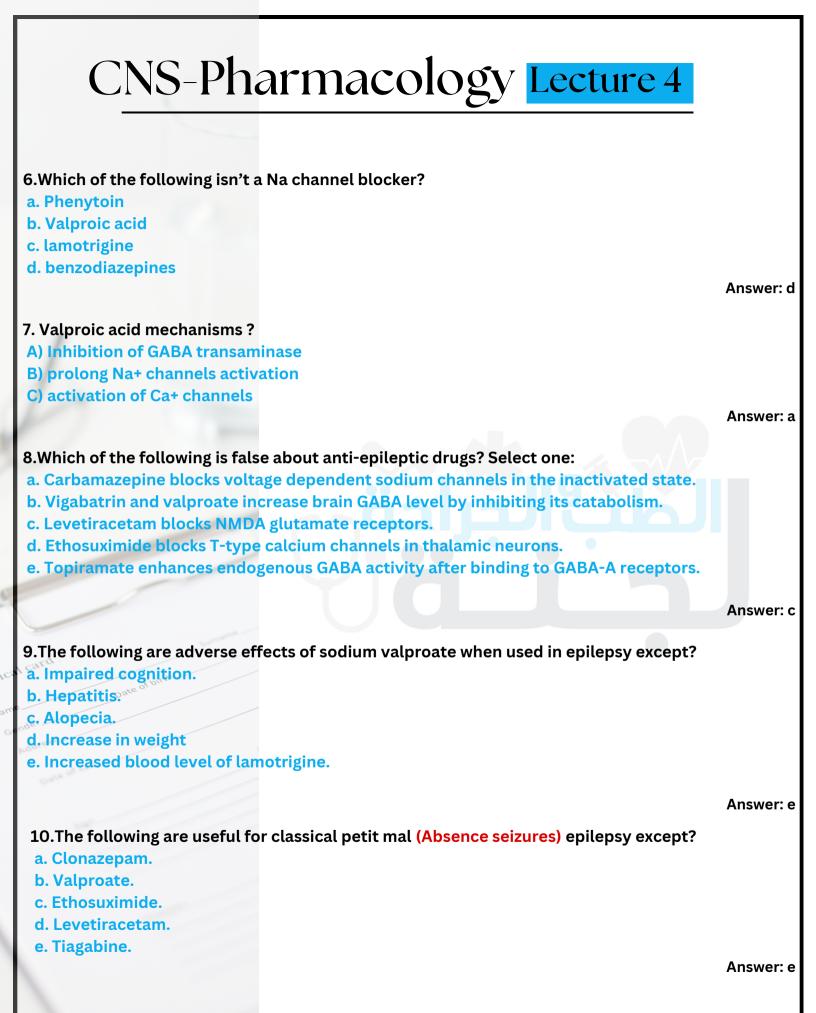
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CNS-Pharmacology Lecture 4 1. The following adverse effects match except? a. Phenytoin: Hypertrophy of the gums. b. Carbamazepine: worsening of petit mal and myoclonic epilepsy. c. Vigabatrin: constriction of visual field. d. Topiramate: myopia and glaucoma e. Sodium valproate: impaired cognition in children Answer: d 2.Regarding diazepam : Which one of the following is true? It is effective for stopping convulsions of status epilepticus 3. The followings are useful for treatment epilepsy except? a. Clonazepam. b. Valproate. c. Pregabalin. d. Gabapentin e. Oxycodone Answer: e 4.All are Mechanisms of action of antiepileptic drugs except? a. Block sodium channels b. Block calcium channels c. Enhance inhibitory GABAergic impulse d, Interference with glutamate e. Selective serotonin reuptake inhibitor Answer: e 5.Which of the following is a Ca channel blocker? a. Valproic acid b. carbamazepine

- c. benzodiazepines
- d. Tiagabine

Answer: a



11.Carbamazepine: Which one of the following is false?

- a. It induces hepatic microsomal enzymes which shortens its own half-life
- b, It is useful for chronic control of both grand mal and partial epilepsy.
- c. It is first choice drug for treatment of trigeminal neuralgia in adults.
- d. It can cause dizziness and diplopia as side effects at beginning of its use.
- e. It inhibits repetitive neuronal firing by increasing brain GABA level.

Answer: e

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The following may be useful in treatment of myoclonic epilepsy except?

- a. Clonazepam.
- b. Oxcarbazepine
- c. Lamotrigine.
- d. Topiramate

Answer: b



Anti-Parkinson Drugs

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All the following are true except? Select one:

- a. Carbidopa increases the availability of levodopa to the CNS
- b. Concomitant administration of levodopa and monoamine reductase (MAO) inhibitors
- c. Selegiline decreases metabolism of dopamine and increases dopamine levels in brain
- d. Catechol-O-methyltransferase metabolizes levodopa to 3-O-methyldopa

e. Rotigotine activates the dopamine receptors to in patients with advanced Parkinson's disease complicated by motor fluctuations and dyskinesias

Ans:(e)

Ans:(a)

Ans:(c)

One of the following is catechol O methyltrabsferase inhibitor?

- a. Entacapone
- **b.** Selegiline
- c. Bromocriptine
- d. Rotigotine
- e. Apomorphine

All the following are true except?

- a. Benztropine, trihexyphenidyl, procyclidine and biperiden are antimuscarinic agents
- b. Amantadine has several effects including Inhibiting N-methyl-D-aspartate type of glutamate receptors
- c. Rotigotine has duration of action longer than that of levodopa and therefore less effective in patients exhibiting fluctuations in their response to levodopa
- d. Antimuscarinic agents interfere with gastrointestinal peristalsis and are contraindicated in patients with glaucoma, prostatic hyperplasia, or pyloric stenosis.
- e. Stalevo is an excellent combination of drugs for the management of Parkinson disease

All the following are true except? Select one:

- a. Haloperidol and pramipexole antagonize the dopamine receptors and causes secondary parkinsonism
- b. Levodopa is a metabolic precursor of dopamine restoring dopaminergic system by enhancing synthesis of dopamine
- c. levodopa is actively transported into CNS and is converted to dopamine in brain
- d. Carbidopa diminishes metabolism of levodopa in gastrointestinal tract and peripheral tissues; thus, it increases availability of levodopa to CNS
- e. Levodopa has short half-life causing fluctuations in plasma concentration and may produce fluctuations in motor response

Ans:(a)

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e. Stalevo is an excellent combination of drugs for the management of Parkinson disease

Answer: c



Lecture 6

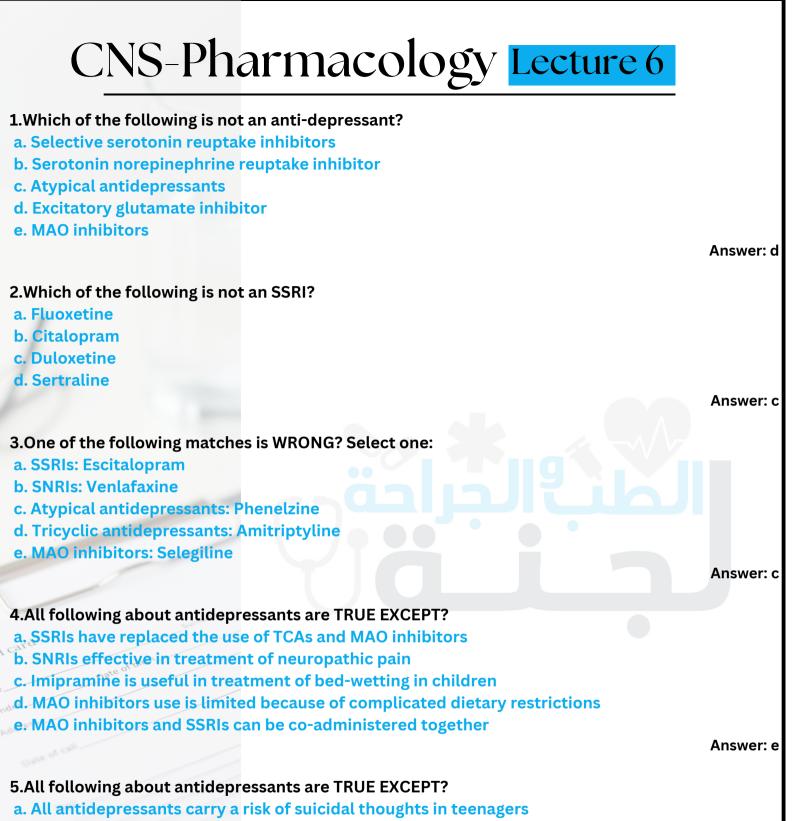
Antidepressant Drugs

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- b. SNRIs have no activity at muscarinic and histaminic receptors
- c. Tricyclic antidepressants block alpha-adrenergic, histamine and muscarinic receptors
- d. MAO inhibitors adverse effects: orthostatic hypotension and dry mouth
- e. Serotonin syndrome manifestations: muscle rigidity and confusion

Answer: a

6.Selective serotonin reuptake inhibitors, one is FALSE? a. Have little blocking activity at muscarinic, alpha-adrenergic, and histaminic receptors b. Safe in overdose c. Half-life 16-36 hours d. It takes 4 weeks to produce significant improvement in mood e. Adverse effects: delayed ejaculation Marswer: d

- a. Fluoxetine
- b. Amitriptyline
- c. Venlafaxine
- d. Bupropion

Answer: c

8. A 36 year old patient smokes 2 packs of cigarettes a day, he tried to stop smoking by using nicotine patches but he was unsuccessful, what medication would be beneficial in this case ?

- a. Phenelzine
- **b. Bupropion**
- c. Imipramine
- d. Buspirone
- e. Citalopram

Answer: b

9.One of the following is a norepinephrine & serotonin reuptake inhibitor

- a. citalopram
- b. Venlafaxin
- c. Fluvoxiamine
- d. Sertraline

Answer: b