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Course Name	: D. Pharm
Year	: Second Year
Subject Name	: Pharmacology
Topic Name	: Anti-Convulsant drugs

MULTIPLE CHOICE QUESTION

1. Which of the following is a primary indication for anticonvulsant drugs?

- A) Hypertension
- B) Diabetes mellitus
- C) Epilepsy
- D) Asthma

Answer: C) Epilepsy

2. Anticonvulsant drugs primarily work by:

- A) Increasing excitatory neurotransmitter release
- B) Decreasing excitatory neurotransmitter release
- C) Increasing inhibitory neurotransmitter release
- D) Decreasing inhibitory neurotransmitter release

Answer: C) Increasing inhibitory neurotransmitter release

3. Which neurotransmitter system is primarily targeted by anticonvulsant drugs?

- A) Dopaminergic
- B) Serotonergic
- C) GABAergic
- D) Glutamatergic

Answer: C) GABAergic

4. Which of the following medications is a first-line treatment for generalized tonic-clonic seizures?

- A) Phenobarbital
- B) Levetiracetam
- C) Phenytoin
- D) Gabapentin

Answer: B) Levetiracetam

5. Lamotrigine is commonly used as an anticonvulsant and is particularly effective in which type of seizures?

- A) Absence seizures
- B) Tonic-clonic seizures
- C) Myoclonic seizures
- D) Focal seizures

Answer: D) Focal seizures

6. Which anticonvulsant medication is commonly used for the treatment of trigeminal neuralgia?

- A) Carbamazepine
- B) Phenobarbital
- C) Pregabalin
- D) Topiramate

Answer: A) Carbamazepine

7. Which anticonvulsant medication is associated with the risk of Stevens-Johnson syndrome and toxic epidermal necrolysis?

- A) Valproic acid
- B) Lamotrigine
- C) Gabapentin
- D) Oxcarbazepine

Answer: B) Lamotrigine

8. Which anticonvulsant drug is commonly used for the treatment of absence seizures?

- A) Topiramate
- B) Levetiracetam
- C) Ethosuximide
- D) Pregabalin

Answer: C) Ethosuximide

9. Which of the following anticonvulsants is also used for the management of bipolar disorder?

- A) Carbamazepine
- B) Valproic acid
- C) Phenobarbital
- D) Gabapentin

Answer: B) Valproic acid

10. Gabapentin and pregabalin are structurally similar to which neurotransmitter?

- A) GABA
- B) Serotonin
- C) Dopamine
- D) Glutamate

Answer: A) GABA

11. Phenytoin is a medication primarily used for the treatment of:

- A) Focal seizures
- B) Absence seizures
- C) Myoclonic seizures
- D) Tonic-clonic seizures

Answer: A) Focal seizures

12. Which anticonvulsant medication is associated with the risk of aplastic anemia and agranulocytosis?

- A) Topiramate
- B) Carbamazepine
- C) Valproic acid
- D) Lamotrigine

Answer: B) Carbamazepine

13. Which anticonvulsant drug is commonly used for the treatment of neuropathic pain?

- A) Phenobarbital
- B) Levetiracetam
- C) Gabapentin
- D) Ethosuximide

Answer: C) Gabapentin

14. Oxcarbazepine is a structural derivative of which anticonvulsant medication?

- A) Carbamazepine
- B) Valproic acid
- C) Lamotrigine
- D) Phenytoin

Answer: A) Carbamazepine

15. Which of the following anticonvulsants is also used as a mood stabilizer in the treatment of bipolar disorder?

- A) Topiramate
- B) Lamotrigine
- C) Valproic acid
- D) Pregabalin

Answer: C) Valproic acid

16. Which anticonvulsant medication is commonly used for the treatment of neuropathic pain associated with diabetic peripheral neuropathy?

- A) Gabapentin
- B) Lamotrigine
- C) Levetiracetam
- D) Topiramate

Answer: A) Gabapentin

17. Topiramate is associated with which potential side effect?

- A) Weight gain
- B) Hyperglycemia
- C) Cognitive impairment
- D) Hyponatremia

Answer: C) Cognitive impairment

18. Which anticonvulsant medication is commonly used for the treatment of refractory focal seizures?

- A) Gabapentin
- B) Valproic acid
- C) Topiramate
- D) Levetiracetam

Answer: D) Levetiracetam

19. Which of the following anticonvulsants is commonly used for the treatment of neuropathic pain associated with postherpetic neuralgia?

- A) Carbamazepine
- B) Pregabalin
- C) Phenytoin
- D) Oxcarbazepine

Answer: B) Pregabalin

20. Which anticonvulsant medication is commonly used for the treatment of status epilepticus?

- A) Diazepam
- B) Lamotrigine
- C) Levetiracetam
- D) Phenobarbital

Answer: C) Levetiracetam