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D. Pharm Exit Exam - 2024

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

MULTIPLE CHOICE QUESTION

1. Which neurotransmitter system is primarily targeted by antipsychotic medications?

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

Answer: A) Dopamine

2. First-generation antipsychotics primarily block which type of dopamine receptors?

- A) D1 and D2
- B) D2 and D3
- C) D3 and D4
- D) D2 and D4

Answer: B) D2 and D3

3. Clozapine is known for its effectiveness in treating schizophrenia and its unique action on which neurotransmitter system?

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

Answer: B) Serotonin

4. Which of the following is a common side effect associated with first-generation antipsychotics?

- A) Weight gain
- B) Extrapyramidal symptoms (EPS)
- C) Sedation
- D) Orthostatic hypotension

Answer: B) Extrapyramidal symptoms (EPS)

5. Second-generation antipsychotics are also known as:

- A) Typical antipsychotics
- B) Atypical antipsychotics
- C) Dopamine agonists
- D) Serotonin reuptake inhibitors

Answer: B) Atypical antipsychotics

6. Which of the following is a common side effect associated with second-generation antipsychotics?

- A) Tardive dyskinesia
- B) Neuroleptic malignant syndrome (NMS)
- C) Metabolic syndrome
- D) Anticholinergic effects

Answer: C) Metabolic syndrome

7. Which first-generation antipsychotic is often used as a depot injection for long-term maintenance therapy?

- A) Haloperidol
- B) Chlorpromazine
- C) Fluphenazine
- D) Thioridazine

Answer: C) Fluphenazine

8. Agranulocytosis is a potentially life-threatening side effect associated with which atypical antipsychotic?

- A) Risperidone
- B) Olanzapine
- C) Quetiapine
- D) Clozapine

Answer: D) Clozapine

9. Which atypical antipsychotic is often used as a first-line treatment for bipolar disorder?

- A) Aripiprazole
- B) Olanzapine
- C) Quetiapine
- D) Ziprasidone

Answer: B) Olanzapine

10. Which neurotransmitter besides dopamine and serotonin is targeted by some atypical antipsychotics?

- A) GABA
- B) Glutamate
- C) Acetylcholine
- D) Norepinephrine

Answer: B) Glutamate

11. Which atypical antipsychotic is associated with a lower risk of weight gain compared to others in its class?

- A) Risperidone
- B) Clozapine
- C) Olanzapine
- D) Aripiprazole

Answer: D) Aripiprazole

12. Which of the following is a common extrapyramidal side effect associated with typical antipsychotics?

- A) Tardive dyskinesia
- B) Neuroleptic malignant syndrome (NMS)
- C) Akathisia
- D) Metabolic syndrome

Answer: C) Akathisia

13. Ziprasidone (Geodon) is known for its potential side effect of:

- A) Extrapyramidal symptoms (EPS)
- B) QT prolongation
- C) Metabolic syndrome
- D) Agranulocytosis

Answer: B) QT prolongation

14. Which atypical antipsychotic is often used as an adjunctive treatment for major depressive disorder?

- A) Risperidone
- B) Quetiapine
- C) Aripiprazole
- D) Clozapine

Answer: B) Quetiapine

15. Which atypical antipsychotic is associated with a high risk of orthostatic hypotension?

- A) Aripiprazole
- B) Risperidone
- C) Clozapine
- D) Quetiapine

Answer: D) Quetiapine

16. Which of the following is a potential side effect of clozapine that requires regular monitoring?

- A) Hyperprolactinemia
- B) Liver function abnormalities
- C) Myocarditis
- D) Agranulocytosis

Answer: D) Agranulocytosis

17. Which typical antipsychotic is associated with a high risk of causing tardive dyskinesia?

- A) Chlorpromazine
- B) Haloperidol
- C) Thioridazine
- D) Fluphenazine

Answer: B) Haloperidol

18. Which atypical antipsychotic has a unique mechanism of action as a partial dopamine agonist?

- A) Olanzapine
- B) Risperidone
- C) Aripiprazole
- D) Ziprasidone

Answer: C) Aripiprazole

19. Which second-generation antipsychotic is often used for the treatment of schizophrenia and bipolar disorder?

- A) Olanzapine
- B) Risperidone
- C) Quetiapine
- D) Clozapine

Answer: A) Olanzapine

20. Which atypical antipsychotic is available in a long-acting injectable formulation for maintenance therapy?

- A) Aripiprazole
- B) Olanzapine
- C) Risperidone
- D) Paliperidone

Answer: D) Paliperidone