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**Course Name : D. Pharm**

**Year : Second Year**

**Subject Name : Pharmacology**

**Topic Name : Cholinergic Drugs**

## MULTIPLE CHOICE QUESTION

1. Cholinergic drugs can be classified based on their mechanism of action. Which of the following is a direct-acting cholinergic agonist?

- a) Neostigmine
- b) Physostigmine
- c) Pilocarpine
- d) Atropine

**Answer: c)** Pilocarpine

2. Which of the following drugs inhibits the enzyme acetylcholinesterase, leading to increased levels of acetylcholine at the synaptic junction?

- a) Neostigmine
- b) Atropine
- c) Scopolamine
- d) Epinephrine

**Answer: a)** Neostigmine

3. Which classification of cholinergic drugs acts directly on muscarinic receptors?

- a) Muscarinic agonists
- b) Muscarinic antagonists
- c) Nicotinic agonists
- d) Nicotinic antagonists

**Answer: a)** Muscarinic agonists

4. Which of the following drugs blocks the action of acetylcholine at muscarinic receptors?

- a) Neostigmine
- b) Physostigmine
- c) Atropine
- d) Pilocarpine

**Answer: c)** Atropine

5. Cholinergic drugs can also be classified based on their site of action. Which of the following drugs primarily acts on the gastrointestinal tract to increase motility?

- a) Neostigmine
- b) Pilocarpine
- c) Bethanechol
- d) Epinephrine

**Answer: c)** Bethanechol

6. Which classification of cholinergic drugs primarily acts on nicotinic receptors at the neuromuscular junction?

- a) Muscarinic agonists
- b) Muscarinic antagonists
- c) Nicotinic agonists
- d) Nicotinic antagonists

**Answer: c)** Nicotinic agonists

7. Which of the following drugs is commonly used as a neuromuscular blocking agent in surgical procedures?

- a) Neostigmine
- b) Pilocarpine
- c) Succinylcholine
- d) Atropine

**Answer: c)** Succinylcholine

8. Which classification of cholinergic drugs is used to treat myasthenia gravis by inhibiting the breakdown of acetylcholine?

- a) Muscarinic agonists
- b) Muscarinic antagonists
- c) Acetylcholinesterase inhibitors
- d) Nicotinic antagonists

**Answer: c)** Acetylcholinesterase inhibitors

9. Which of the following drugs is commonly used to reverse the effects of neuromuscular blocking agents after surgery?

- a) Neostigmine
- b) Pilocarpine
- c) Bethanechol
- d) Scopolamine

**Answer: a)** Neostigmine

10. Which classification of cholinergic drugs is commonly used to treat glaucoma by increasing the outflow of aqueous humor from the eye?

- a) Muscarinic agonists
- b) Muscarinic antagonists
- c) Acetylcholinesterase inhibitors
- d) Nicotinic antagonists

**Answer: a)** Muscarinic agonists

**11.** What is the primary mechanism of action of cholinergic drugs?

- a) Inhibition of acetylcholine release
- b) Stimulation of acetylcholine receptors
- c) Blockade of acetylcholinesterase enzyme
- d) Inhibition of cholinergic receptors

**Answer: b)** Stimulation of acetylcholine receptors

**12.** Which neurotransmitter is primarily affected by cholinergic drugs?

- a) Serotonin
- b) Dopamine
- c) Acetylcholine
- d) Norepinephrine

**Answer: c)** Acetylcholine

**13.** Which of the following is NOT a therapeutic use of cholinergic drugs?

- a) Treatment of myasthenia gravis
- b) Management of Alzheimer's disease
- c) Relief of symptoms in Parkinson's disease
- d) Improvement of gastrointestinal motility

**Answer: c)** Relief of symptoms in Parkinson's disease

**14.** Which receptor subtype is primarily targeted by cholinergic drugs in the treatment of Alzheimer's disease?

- a) Muscarinic receptors
- b) Nicotinic receptors
- c) Alpha receptors
- d) Beta receptors

**Answer: a)** Muscarinic receptors

**15.** Which of the following is a common adverse effect of cholinergic drugs?

- a) Hypertension
- b) Tachycardia
- c) Diarrhea
- d) Bronchodilation

**Answer: c)** Diarrhea

**16.** Which cholinergic drug is commonly used as a miotic agent in ophthalmology?

- a) Atropine
- b) Scopolamine
- c) Pilocarpine
- d) Bethanechol

**Answer: c)** Pilocarpine

17. What is the primary indication for using cholinergic drugs in the treatment of myasthenia gravis?

- a) To increase muscle strength
- b) To decrease muscle tone
- c) To improve cognitive function
- d) To reduce gastrointestinal motility

**Answer: a)** To increase muscle strength

18. Which of the following is a contraindication for the use of cholinergic drugs?

- a) Urinary retention
- b) Bradycardia
- c) Dry mouth
- d) Hypertension

**Answer: a)** Urinary retention

19. Which cholinergic drug is commonly used to stimulate gastrointestinal motility?

- a) Atropine
- b) Physostigmine
- c) Neostigmine
- d) Bethanechol

**Answer: d)** Bethanechol

20. Which of the following is NOT a characteristic of cholinergic crisis?

- a) Bradycardia
- b) Hypertension
- c) Profuse sweating
- d) Excessive salivation

**Answer: b)** Hypertension