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**Course Name : D. Pharm**  
**Year : Second Year**  
**Subject Name : Pharmacology**  
**Topic Name : Adrenergic drugs**

1. Adrenergic receptors are primarily activated by which neurotransmitter?

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

**Answer: C)** Norepinephrine

2. Which of the following is NOT a subtype of adrenergic receptors?

- A) Alpha-3
- B) Beta-1
- C) Beta-2
- D) Beta-3

**Answer: A)** Alpha-3

3. Activation of beta-2 adrenergic receptors causes:

- A) Vasodilation
- B) Bronchodilation
- C) Decreased heart rate
- D) Pupil constriction

**Answer: B)** Bronchodilation

4. Adrenergic receptors are classified into how many main types?

- A) Two
- B) Three
- C) Four
- D) Five

**Answer: B)** Three

5. Selective activation of alpha-1 adrenergic receptors leads to:

- A) Vasodilation
- B) Bronchodilation
- C) Increased heart rate
- D) Pupil dilation

**Answer: A)** Vasodilation

6. Which adrenergic receptor subtype is primarily located in the heart?

- A) Alpha-1
- B) Alpha-2
- C) Beta-1
- D) Beta-2

**Answer: C)** Beta-1

7. Which of the following is a non-selective adrenergic agonist?

- A) Albuterol
- B) Phenylephrine
- C) Isoproterenol
- D) Clonidine

**Answer: C)** Isoproterenol

8. Adrenergic antagonists are commonly used to treat:

- A) Hypertension
- B) Asthma
- C) Bradycardia
- D) Glaucoma

**Answer: A)** Hypertension

9. The primary mechanism of action of alpha-adrenergic blockers is:

- A) Stimulation of adrenergic receptors
- B) Inhibition of adrenergic receptors
- C) Inhibition of catecholamine synthesis
- D) Inhibition of catecholamine release

**Answer: B)** Inhibition of adrenergic receptors

10. Which adrenergic drug is commonly used as a nasal decongestant?

- A) Epinephrine
- B) Phenylephrine
- C) Isoproterenol
- D) Norepinephrine

**Answer: B)** Phenylephrine

11. The primary mechanism of action of beta-adrenergic antagonists is:

- A) Stimulation of adrenergic receptors
- B) Inhibition of adrenergic receptors
- C) Inhibition of catecholamine synthesis
- D) Inhibition of catecholamine release

**Answer: B)** Inhibition of adrenergic receptors

12. Which adrenergic drug is commonly used as a vasopressor in emergency situations?

- A) Isoproterenol
- B) Phenylephrine
- C) Dopamine
- D) Norepinephrine

**Answer: D)** Norepinephrine

13. The drug dobutamine primarily acts on which adrenergic receptor subtype?

- A) Alpha-1
- B) Alpha-2
- C) Beta-1
- D) Beta-2

**Answer: C)** Beta-1

14. Which of the following adrenergic drugs is used to treat anaphylaxis?

- A) Epinephrine
- B) Phenylephrine
- C) Isoproterenol
- D) Norepinephrine

**Answer: A)** Epinephrine

15. The term "sympathomimetic" refers to drugs that:

- A) Inhibit sympathetic nervous system activity
- B) Mimic the action of the parasympathetic nervous system
- C) Mimic the action of the sympathetic nervous system
- D) Inhibit the action of the parasympathetic nervous system

**Answer: C)** Mimic the action of the sympathetic nervous system

16. Adrenergic drugs are contraindicated in patients with:

- A) Hypertension
- B) Asthma
- C) Bradycardia
- D) Glaucoma

**Answer: C)** Bradycardia

17. The drug epinephrine acts on which adrenergic receptors?

- A) Alpha-1 and beta-1
- B) Alpha-1 and beta-2
- C) Alpha-2 and beta-1
- D) Alpha-2 and beta-2

**Answer: A)** Alpha-1 and beta-1

18. Which adrenergic drug is commonly used as a bronchodilator in asthma?

- A) Isoproterenol
- B) Albuterol
- C) Phenylephrine
- D) Dobutamine

**Answer: B)** Albuterol

**19.** The drug phenylephrine primarily acts on which adrenergic receptor subtype?

- A) Alpha-1
- B) Alpha-2
- C) Beta-1
- D) Beta-2

**Answer: A)** Alpha-1

**20.** The primary mechanism of action of alpha-adrenergic agonists is:

- A) Stimulation of adrenergic receptors
- B) Inhibition of adrenergic receptors
- C) Inhibition of catecholamine synthesis
- D) Inhibition of catecholamine release

**Answer: A)** Stimulation of adrenergic receptors