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Course Name : D. Pharm

Year : Second Year

Subject Name : Pharmacology

Topic Name : Miotics

MULTIPLE CHOICE QUESTION

1. What are miotics primarily used for?

- A) Dilating the pupils
- B) Constricting the pupils
- C) Relieving pain
- D) Inducing sleep

Answer: B) Constricting the pupils

2. Which of the following conditions is typically treated with miotics?

- A) Glaucoma
- B) Cataracts
- C) Macular degeneration
- D) Conjunctivitis

Answer: A) Glaucoma

3. Which neurotransmitter is primarily targeted by miotic drugs?

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

Answer: C) Acetylcholine

4. Which class of medication includes pilocarpine?

- A) Beta blockers
- B) Alpha agonists
- C) Miotics
- D) Prostaglandin analogs

Answer: C) Miotics

5. Miotics work by:

- A) Blocking the production of aqueous humor
- B) Increasing the drainage of aqueous humor
- C) Constricting the pupil and opening the trabecular meshwork
- D) Dilating the pupil and relaxing the ciliary muscles

Answer: C) Constricting the pupil and opening the trabecular meshwork

6. Pilocarpine is most commonly administered in which form for the treatment of

glaucoma?

- A) Oral tablets
- B) Eye drops
- C) Intravenous injection
- D) Transdermal patch

Answer: B) Eye drops

7. Which of the following is a potential side effect of miotic drugs?

- A) Mydriasis
- B) Hypotension
- C) Dry mouth
- D) Blurred vision

Answer: D) Blurred vision

8. What is the main mechanism of action of miotics in treating glaucoma?

- A) Decreasing intraocular pressure
- B) Increasing intraocular pressure
- C) Reducing eye redness
- D) Expanding the visual field

Answer: A) Decreasing intraocular pressure

9. Which of the following statements about miotics is true?

- A) They are primarily used to treat retinal detachment.
- B) They cause the dilation of the pupil.
- C) They decrease the drainage of aqueous humor.
- D) They can worsen narrow-angle glaucoma.

Answer: D) They can worsen narrow-angle glaucoma.

10. Which of the following is a contraindication for using miotics?

- A) Open-angle glaucoma
- B) Myopia
- C) Retinal detachment
- D) Dry eye syndrome

Answer: C) Retinal detachment

11. Miotics are least likely to be effective in which type of glaucoma?

- A) Open-angle glaucoma
- B) Angle-closure glaucoma
- C) Normal-tension glaucoma
- D) Pigmentary glaucoma

Answer: B) Angle-closure glaucoma

12. Which of the following is a long-acting miotic agent?

- A) Carbachol
- B) Pilocarpine
- C) Echothiophate iodide
- D) Apraclonidine

Answer: C) Echothiophate iodide

13. Which of the following is not a common side effect of miotic drugs?

- A) Headache
- B) Blurred vision
- C) Dry eyes
- D) Increased tearing

Answer: C) Dry eyes

14. Which of the following is a cholinergic agonist used as a miotic agent?

- A) Latanoprost
- B) Timolol
- C) Brimonidine
- D) Pilocarpine

Answer: D) Pilocarpine

15. Miotics primarily act on which part of the eye?

- A) Cornea
- B) Lens
- C) Retina
- D) Iris and ciliary body

Answer: D) Iris and ciliary body

16. Which of the following is a potential systemic side effect of miotic drugs?

- A) Hypertension
- B) Bradycardia
- C) Hyperglycemia
- D) Hyperthyroidism

Answer: B) Bradycardia

17. Which of the following miotic agents is typically reserved for severe cases of

glaucoma due to its potency and potential for side effects?

- A) Pilocarpine
- B) Carbachol
- C) Echothiophate iodide
- D) Timolol

Answer: C) Echothiophate iodide

18. Which of the following is an example of a direct-acting miotic agent?

- A) Echothiophate iodide
- B) Brimonidine
- C) Latanoprost
- D) Timolol

Answer: A) Echothiophate iodide

19. Miotic drugs are least likely to be used in the treatment of:

- A) Angle-closure glaucoma
- B) Open-angle glaucoma
- C) Secondary glaucoma
- D) Normal-tension glaucoma

Answer: D) Normal-tension glaucoma

20. Which of the following statements about miotics is false?

- A) They may cause headaches as a side effect.
- B) They are contraindicated in angle-closure glaucoma.
- C) They primarily work by increasing the production of aqueous humor.
- D) They can cause blurry vision due to constriction of the pupils.

Answer: C) They primarily work by increasing the production of aqueous humor.