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Course Name : D. Pharm

Year : Second Year

Subject Name : Pharmacology

Topic Name : Drugs used in Glaucoma

MULTIPLE CHOICE QUESTION

1. Which class of drugs is commonly used as first-line treatment for glaucoma?

- A) Beta blockers
- B) Alpha agonists
- C) Prostaglandin analogs
- D) Carbonic anhydrase inhibitors

Answer: C) Prostaglandin analogs

2. Which of the following drugs is a prostaglandin analog used in the treatment of glaucoma?

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

Answer: C) Latanoprost

3. Carbonic anhydrase inhibitors reduce intraocular pressure by:

- A) Increasing aqueous humor production
- B) Decreasing aqueous humor production
- C) Increasing aqueous humor outflow
- D) Dilating the pupil

Answer: B) Decreasing aqueous humor production

4. Which of the following drugs is a carbonic anhydrase inhibitor used in the treatment of glaucoma?

- A) Latanoprost
- B) Brinzolamide
- C) Apraclonidine
- D) Dorzolamide

Answer: D) Dorzolamide

5. Beta blockers lower intraocular pressure by:

- A) Increasing aqueous humor production
- B) Decreasing aqueous humor production
- C) Increasing aqueous humor outflow
- D) Constricting the pupil

Answer: C) Increasing aqueous humor outflow

6. Which of the following drugs is a beta blocker used in the treatment of glaucoma?

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

Answer: C) Timolol

7. Alpha agonists reduce intraocular pressure primarily by:

- A) Increasing aqueous humor production
- B) Decreasing aqueous humor production
- C) Increasing aqueous humor outflow
- D) Constricting the pupil

Answer: C) Increasing aqueous humor outflow

8. Which of the following drugs is an alpha agonist used in the treatment of glaucoma?

- A) Dorzolamide
- B) Brimonidine
- C) Travoprost
- D) Brinzolamide

Answer: B) Brimonidine

9. Which class of drugs is known to have potential systemic side effects such as bradycardia and bronchospasm?

- A) Prostaglandin analogs
- B) Carbonic anhydrase inhibitors
- C) Beta blockers
- D) Alpha agonists

Answer: C) Beta blockers

10. Which of the following statements about prostaglandin analogs is true?

- A) They primarily work by reducing aqueous humor outflow.
- B) They are typically used as second-line treatment for glaucoma.
- C) They may cause iris pigmentation as a side effect.
- D) They are contraindicated in patients with asthma.

Answer: C) They may cause iris pigmentation as a side effect.

11. Which of the following is a potential side effect of carbonic anhydrase inhibitors?

- A) Bradycardia
- B) Ocular surface irritation

- C) Increased appetite
- D) Photosensitivity

Answer: B) Ocular surface irritation

12. The primary route of administration for glaucoma medications is:

- A) Intravenous injection
- B) Oral tablets
- C) Topical eye drops
- D) Intramuscular injection

Answer: C) Topical eye drops

13. Which of the following statements about alpha agonists is true?

- A) They primarily work by increasing aqueous humor production.
- B) They are contraindicated in patients with Raynaud's disease.
- C) They are typically used as first-line treatment for glaucoma.
- D) They have no effect on pupil size.

Answer: B) They are contraindicated in patients with Raynaud's disease.

14. Which class of glaucoma medications is associated with a risk of corneal toxicity?

- A) Prostaglandin analogs
- B) Carbonic anhydrase inhibitors
- C) Beta blockers
- D) Alpha agonists

Answer: B) Carbonic anhydrase inhibitors

15. Which of the following drugs is used as an osmotic agent in acute angle-closure glaucoma?

- A) Latanoprost
- B) Brimonidine
- C) Mannitol
- D) Dorzolamide

Answer: C) Mannitol

16. Which class of glaucoma medications is typically avoided in patients with sulfa allergies?

- A) Prostaglandin analogs
- B) Carbonic anhydrase inhibitors
- C) Beta blockers
- D) Alpha agonists

Answer: B) Carbonic anhydrase inhibitors

17. Which of the following statements about glaucoma medications is false?

- A) They can be used to treat both open-angle and closed-angle glaucoma.
- B) They are intended to reduce intraocular pressure.
- C) They can cause changes in iris color over time.
- D) They have no potential systemic side effects.

Answer: D) They have no potential systemic side effects.

18. Which class of glaucoma medications is associated with the potential side effect of conjunctival hyperemia?

- A) Prostaglandin analogs
- B) Carbonic anhydrase inhibitors
- C) Beta blockers
- D) Alpha agonists

Answer: A) Prostaglandin analogs

19. Which of the following is a fixed combination medication used in the treatment of glaucoma?

- A) Timolol/dorzolamide
- B) Latanoprost/brimonidine
- C) Travoprost/brinzolamide
- D) Pilocarpine/timolol

Answer: A) Timolol/dorzolamide

20. Which class of glaucoma medications is known to have the potential side effect of blurred vision?

- A) Prostaglandin analogs
- B) Carbonic anhydrase inhibitors
- C) Beta blockers
- D) Alpha agonists

Answer: B) Carbonic anhydrase inhibitors