



Course Summary

Considerations in Medical Management of Glaucoma

Pinakin Davey, OD, PhD, FAAO

Course Description

This course will discuss all the medical management options available in managing glaucoma, its efficacy, its side effects and when, what and how to prescribe.

Course Learning Objectives

- Know the mechanism of actions of the major agents used in medical management
- Know the side effects both ocular and systemic side effects of the medications
- Contraindications and drug interactions of various agents
- Dosage of various medications
- First line of therapy and considerations when first line of therapy fails.
- Know the combination agents available in USA
- Know the lowering intraocular pressure in office setting
- Know the effects of preservatives and chronic therapy and preservative free options of medications in glaucoma management
- Neuroprotection and future drugs

Course outline

- Prostaglandins
 - Mechanism of action
 - Dosage considerations
 - Side effects
 - Ocular and systemic considerations

- Beta blockers
 - Mechanism of action
 - Dosage considerations once daily versus twice daily
 - Side effects
 - Ocular and systemic considerations

- Alpha 2 adrenergic agents
 - Mechanism of action
 - Dosage considerations
 - Side effects
 - Ocular and systemic considerations

- Carbonic anhydrase inhibitors
 - Mechanism of action
 - Dosage considerations
 - Side effects
 - Ocular and systemic considerations

- Cholinergic stimulators and hyperosmotic agents
 - Mechanism of action
 - Dosage considerations
 - Side effects
 - Ocular and systemic considerations

- Combination topical medications and considerations

- Neuroprotection and future medications

- Side effects of chronic medical use and preservatives

- Possible course of first line of therapy and alternative plans when medications do not work.

- Decreasing pressure in office when intraocular pressure is elevated to unsafe levels.
 - Protocol and considerations for lowering intraocular pressure for an acute angle closure glaucoma and or open angle glaucoma with elevated intraocular pressure

- Case reports