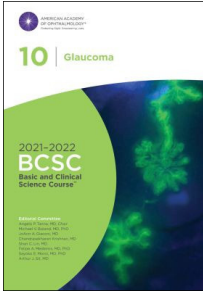


**GLAUCOMA (Basic and Clinical Science Course 2021-2022)**

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**DESCRIPTION:**

The Academy's Basic and Clinical Science Course is ophthalmology's definitive source of clinical information. Practicing ophthalmologists and residents worldwide use the BCSC® to ensure the highest-quality patient care. Lean on the 100+ ophthalmologists who target the most beneficial clinical updates for this key ophthalmic reference each year.

Section 10 provides a comprehensive discussion of glaucoma, including epidemiology and the social and economic impacts of the disease hereditary and genetic factors intraocular pressure and aqueous humor dynamics and clinical evaluation and surgical therapy.

Includes greatly expanded content on MIGS, coverage of new medications such as netarsudil and latanoprostene bunod and analysis of new literature on angle closure management.

The various classes of medical therapy for glaucoma are described in terms of efficacy, mechanism of action and safety. Contains numerous images illustrating disease entities and surgical techniques. Enhanced with eight surgical videos that will aid your understanding. Print users have access to the videos.

Upon completion of Section 10, readers should be able to:

- List recent advances in the understanding of the contribution of genetic factors in glaucoma.
- Describe the physiology of aqueous humor dynamics and the control of intraocular pressure (IOP).
- Describe the clinical evaluation of the glaucoma patient, including gonioscopy, optic nerve examination, OCT imaging and perimetry.
- List the various clinical features of and therapeutic approaches for the secondary open-angle glaucomas.
- Describe the mechanisms, pathophysiology and treatment of angle-closure glaucomas.
- Describe how and when to use surgical interventions for glaucoma, including minimally invasive glaucoma surgery (MIGS).

**CONTENTS:**

- 1 Introduction to Glaucoma: Terminology, Epidemiology, and Genetics
- 2 Intraocular Pressure and Aqueous Humor Dynamics
- 3 Clinical Evaluation: History
- 4 Clinical Evaluation and Imaging of the Anterior Segment
- 5 Clinical Evaluation and Imaging of the Posterior Segment: Optic Nerve, Retinal Nerve Fiber Layer, and Macula in Glaucoma
- 6 Perimetry
- 7 Primary Open-Angle Glaucoma
- 8 Secondary Open-Angle Glaucoma
- 9 Primary Angle Closure
- 10 Secondary Angle Closure
- 11 Glaucoma in Children and Adolescents
- 12 Medical Management of Glaucoma and Ocular Hypertension
- 13 Surgical Therapy for Glaucoma