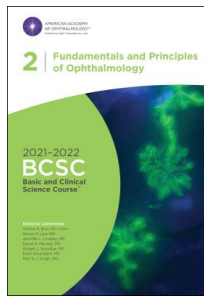


FUNDAMENTALS AND PRINCIPLES OF OPHTHALMOLOGY (Basic and Clinical Science Course 2021-2022)



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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 2 provides the essential scientific grounding for current ophthalmic practice.

It also includes an imaging chapter, Ophthalmic Radiology, with figures and tables covering relevant topics, including comparing MRI and CT and ordering imaging studies. Efficiently study with newly added sidebars highlighting key points and take-away information in each chapter.

Discusses ocular anatomy, embryology, biochemistry and metabolism in the eye, and ocular pharmacology. Features genetics information, including an overview of appropriate uses for the latest genetic techniques.

Three clinical videos and three interactive activities that aid your understanding are included. Print users have access to the videos and interactive activities.

Upon completion of Section 2, readers should be able to:

- Identify the bones making up the orbital walls and the orbital foramina.
- Identify the biochemical composition of the various parts of the eye and the eye's secretions.
- Demonstrate how appropriate diagnosis and management of genetic diseases can lead to better patient care.
- Describe the features of the eye that facilitate or impede drug delivery.
- Describe the mechanisms of action of antibiotic, antiviral, and antifungal medications.
- Discuss the anesthetic agents used in ophthalmology.

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1 Orbit and Ocular Adnexa

2 The Eye

3 Cranial Nerves: Central and Peripheral Connections

PART II Embryology

4 Ocular Development

PART III Genetics

5 Molecular Genetics

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PART IV Biochemistry and Metabolism

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9 Aqueous Humor, Iris, and Ciliary Body

10 Lens

11 Vitreous

12 Retina

13 Retinal Pigment Epithelium

14 Reactive Oxygen Species and Antioxidants

PART V Ocular Pharmacology

15 Pharmacologic Principles

16 Ocular Pharmacotherapeutics

PART VI Imaging

17 Principles of Radiology for the Comprehensive Ophthalmologist

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