


Mediversal



Ophthalmology

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Ophthalmology

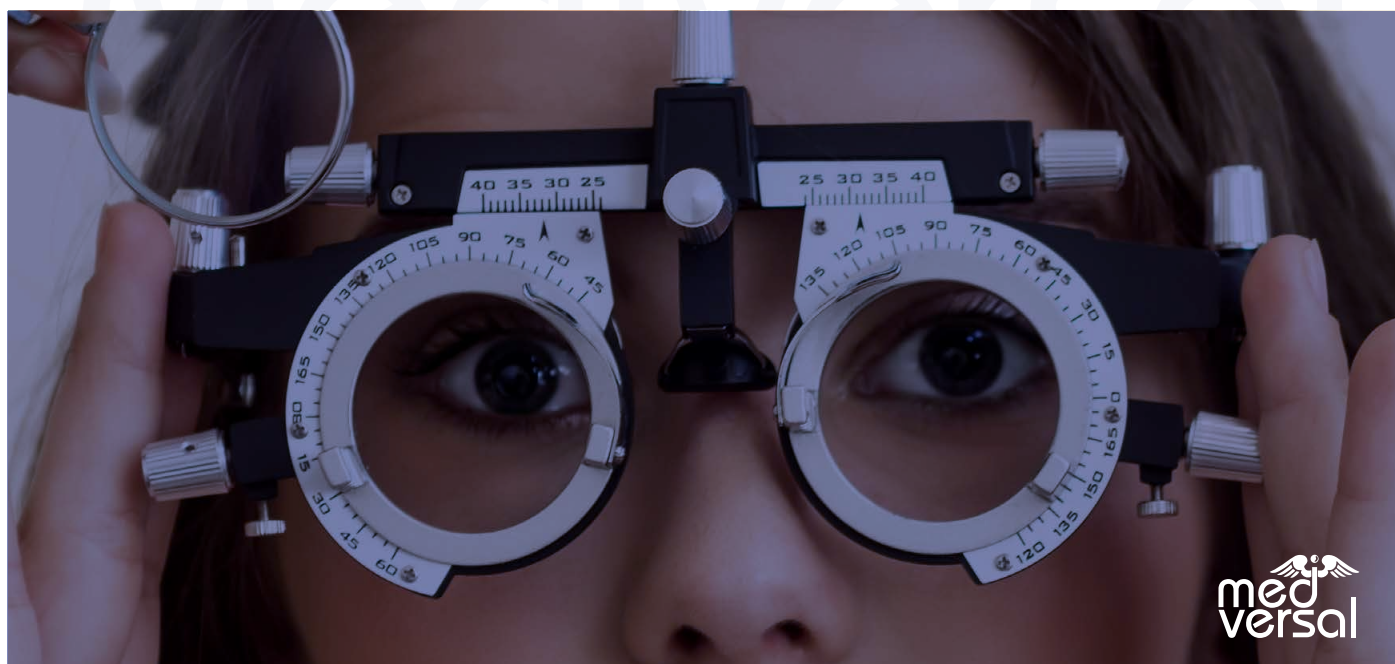
Overview

Ophthalmology is the branch of medicine that focuses on the diagnosis and management of diseases affecting the eye and its surrounding structures. The eyes and their adequate functioning are key determinants in the functionality of an individual, conditioning their ability to traverse the world and perform complex tasks. The study of ophthalmology relies on the previous comprehension of the anatomy and physiology of the related structures, including the eyelid, lacrimal apparatus, extraocular muscles, ocular globe, and visual pathway. A solid grasp of these structures allows for the early detection, diagnosis, and treatment of dozens of conditions. Likewise, mastery of the medications used within this field is crucial. Physicians must be familiar with the basic concepts of ophthalmology and common ocular pathologies since complaints related to the eyes, such as redness, pain, and changes in visual acuity, are very frequent in clinical practice.

Full comprehension of ophthalmic pathologies requires an understanding of ocular anatomy. This includes the specific structures, division, segments, irrigation, and innervation of the ocular globe and its surrounding structures. Likewise, the basic concepts of ocular physiology are crucial. This includes the fundamentals of light refraction within the eye chambers and the conjugation of the image coming from both eyes into a panoramic view in the occipital lobe. A solid grasp of these concepts allows for the early detection, diagnosis, and treatment of dozens of conditions.

Topics

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Ophthalmology

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Introduction to Ophthalmology

- Review of Anatomy of the Eye
- Lacrimal Apparatus and Extraocular Muscles – Anatomy Review
- Innervation of the Ocular Muscles – Anatomy Review
- Emmetropia and Ametropia – Anatomy and Physiology Review
- Saggital Section of the Eye – Anatomy Review
- Anterior Segment of the Eye – Anatomy Review
- Posterior Segment of the Eye and Fundoscopic Exam – Anatomy Review

12 Cranial Nerves & Their Functions

- Overview of the Cranial Nerves I—VI and Their Functional Components
- Cranial Nerve I: Olfactory Nerve
- Cranial Nerve II: Optic Nerve
- Cranial Nerve III: Oculomotor Nerve
- Cranial Nerve IV: Trochlear Nerve
- Cranial Nerve V: Trigeminal nerve
- Cranial Nerve VI: Abducens Nerve
- Overview of the Cranial Nerves VII—XII and Their Functional Components
- Cranial Nerve VII: Facial Nerve
- Cranial Nerve VIII: Vestibulocochlear Nerve
- Cranial Nerve IX: Glossopharyngeal Nerve

- Cranial Nerve X: Vagus Nerve
- Cranial Nerve XI: Accessory Nerve
- Cranial Nerve XII: Hypoglossal Nerve

Sensory Histology

- The Eye: Overview
- The Eye: General Structure
- Iris
- Ciliary Body and Processes
- Lens
- Choroid and the Retina
- Optic Nerve
- Eyelid
- Ear: Overview
- Ear: General Structure
- Bony and Membranous Labyrinth
- Ear: Receptor Cells
- Vestibular System
- Cochlear Duct
- Organ of Corti
- Conduction of Sound
- Ear: Summary

Neurovasculature of the Head

- Arterial Supply of the Head
- Venous Drainage of the Head
- Dermatomes of the Head
- Cranial Nerves: Introduction

- Olfactory Nerve (CN I)
- Optic Nerve (CN II)
- Oculomotor Nerve (CN III)
- Trochlear Nerve (CN IV)
- Abducens Nerve (CN VI)
- Trigeminal Nerve (CN V)
- Facial Nerve (CN VII)
- Vestibulocochlear Nerve (CN VIII)
- Glossopharyngeal Nerve (CN IX)
- Vagus Nerve (CN X)
- Accessory Nerve (CN XI)
- Hypoglossal Nerve (CN XII)

Neurology—Histology

- Organization of the Nervous System
- Major Components of Nerve Tissue
- Neuron
- Major Types of Neurons
- Synapses are Junctions Between Neurons
- Spinal Cord
- The Size of the Gray Matter Varies
- Introduction to the Autonomic Nervous System
- Arrangement and Locations of Motor and Sensory Neurons
- Dorsal Root Ganglion
- Functional Divisions of the Autonomic Nervous System
- Autonomic Ganglion
- Enteric Ganglion
- Structure of Peripheral Nerves and Brain
- The Structure of a Peripheral Nerve

- Myelinated and Unmyelinated Axons
- Neuroglial Cells
- Brain
- Meninges
- The Eye: Overview
- The Eye: General Structure
- Iris
- Ciliary Body and Processes
- Lens
- Choroid and the Retina
- Optic Nerve
- Eyelid
- Ear: Overview
- Ear: General Structure
- Bony and Membranous Labyrinth
- Ear: Receptor Cells
- Vestibular System
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Geometrical Optics

- Reflection and Refraction
- Snell's Law, Total Internal Reflection, and Dispersion
- Mirrors and Lenses
- Convex Mirrors, Mirror Properties, and Concave Mirrors
- Lenses
- Optical Instruments

- Lens Maker's Formula
- Microscopes, Telescopes and Visual Angle
- The Human Eye

Ocular Examination & Visual Acuity Assessment

- Organization of the Nervous System
- Major Components of Nerve Tissue
- Neuron
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- Synapses are Junctions Between Neurons
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Trauma and Neoplasms of the Eye

- Corneal Abrasion and Ulcer – Traumatic Injuries
- Fracture of the Orbit – Traumatic Injuries
- Retinoblastoma: Epidemiology, Mortality Rate and Etiology
- Retinoblastoma: Proliferation and Types
- Retinoblastoma: Signs, Symptoms and Diagnosis
- Ocular Melanomas

Why Mediversal?

	Mediversal	
CPD hours/ Credit	✓ 110 hours/Credit	⚠ 3—50 hours/Credit
NMC Guideline	✓ Advantages in accordance with provision 1.4.2 of NMC regulations	⚠ Not all. (Very few)
Renowned International faculties	✓ Yes	⚠ Only for few subjects
Faculty to learner ratio	✓ 1:10	✓ 1:50 or 1:75
Case based learning	✓ Yes	✗ No
AI supported learning	✓ Yes	✗ No
Live Interaction Sessions	✓ Yes	✗ No
Clinical Attachments	✓ Yes (Case to Case basis)	✓ Yes
Associated with Hospitals for Clinical Training	✓ Yes	✓ Yes
Books	✓ Yes (Printable Pdf copy)	✗ No
Complementary e-Learning Module & Certification	✓ Yes	✗ No
Learner Support	✓ Yes	✗ No
Community of Doctors for peer support (Mediversal Alumni only)	✓ Yes	✗ No
Alumni Support	✓ Yes	⚠ Only a few
e-Certification	✓ Yes	✓ Yes
Physical Certification	✓ Yes	⚠ Only a few
Lifetime certificate validity	✓ Yes	✓ Yes
Digital Marketing and Business Support for your hospital/clinic	✓ Yes	✗ No
Admission process	✓ Smooth, Transparent & all details provided	⚠ Spamming through multiple channels.
Data and privacy protection	✓ Yes	✗ No
CME access	✓ Yes (Lifetime)	✗ No
Medico Legal Session	✓ Yes (Free. By renowned high court advocates)	✗ No
National Level Felicitation Award (for Mediversal Alumni)	✓ Yes	✗ No



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