

OPT-1710: INTRODUCTION TO PATIENT CARE

Cuyahoga Community College

Viewing: OPT-1710 : Introduction to Patient Care

Board of Trustees:

January 2023

Academic Term:

Fall 2023

Subject Code

OPT - Optical Technology

Course Number:

1710

Title:

Introduction to Patient Care

Catalog Description:

Introduction to concepts and skills important to an allied health professional in the field of Ophthalmology such as ocular anatomy and physiology, patient history, and lensometry.

Credit Hour(s):

3

Lecture Hour(s):

3

Lab Hour(s):

0

Requisites

Prerequisite and Corequisite

Departmental approval.

Outcomes

Course Outcome(s):

Discuss the role of an ophthalmic assistant within ophthalmology including scope of practice, clinical roles, ethics and professional behavior.

Objective(s):

1. Identify the guidelines for informed consent, confidentiality, truth telling, and pediatric ethics in ophthalmology.
2. Identify boundary issues when working with ophthalmic patients.
3. Describe how multiculturalism affects ophthalmic patient care.
4. Explain the difference between medical errors, insurance, and malpractice.
5. Summarize the scope of practice for an Ophthalmic Assistant.

Course Outcome(s):

Accurately document the medical history of an ophthalmic patient.

Objective(s):

- a. Identify the guidelines for informed consent, confidentiality, and truth telling, and pediatric ethics in ophthalmology.
- b. Describe normal and abnormal ocular anatomy and physiology
- c. Document patient medical history using appropriate medical terminology.
- d. Explain the difference between medical errors, insurance, and malpractice.

Course Outcome(s):

Describe the ophthalmic equipment used during an ophthalmic exam and discuss proper maintenance and microbial control of ophthalmic equipment.

Objective(s):

1. Employ ophthalmic equipment.
 2. Maintain ophthalmic equipment.
 3. Convert units from the English system of measurement into the metric system.
 4. Utilize appropriate microbial control including hand washing, disinfection and sterilization, handling of sterile articles, and decontamination of contaminated articles.
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Methods of Evaluation:

- a. Examinations
- b. Quizzes
- c. Participation in group learning activities
- d. Assignments

Course Content Outline:

- a. Overview of allied health personnel in ophthalmology
 - i. Clinical roles
 - ii. Certification process
 - iii. Scope of practice
- b. Medical terminology
 - i. Rules for proper medical term formation
 - ii. Word elements
 1. Prefix
 2. Suffix
- c. Metric system
 - i. Overview of the metric system
 - ii. Conversion
 1. English to metric
 2. Metric to metric
- d. Ophthalmology ethics
 - i. Informed consent
 - ii. Confidentiality
 - iii. Truth telling
 - iv. Boundary issues
 - v. Multiculturalism
 - vi. Pediatric ethics
 - vii. Medical error
 - viii. Advertising
 - ix. Fee splitting
 - x. Trainees in patient care
- e. Review of anatomy and physiology of the eye
 - i. Anatomy of the eye
 1. Orbit
 2. Adnexa
 - a. Eyebrow
 - b. Eyelids
 - c. Conjunctive
 - i. Bulbar
 - ii. Fornix
 - iii. Palpebral
 - iv. Plica semilunaris
 - d. Tears

- i. Lipid layer
 - ii. Aqueous layer
 - iii. Mucin layer
- e. Extraocular muscles
 - i. Superior rectus
 - ii. Inferior rectus
 - iii. Medial rectus
 - iv. Lateral rectus
 - v. Superior oblique
 - vi. Inferior oblique
- f. Globe
 - i. Limbus
 - ii. Sclera
 - iii. Anterior segment
 - 1. Cornea
 - a. Epithelium
 - b. Bowman's layer
 - c. Stroma
 - d. Descemet's membrane
 - e. Endothelium
 - 2. Anterior chamber
 - 3. Posterior chamber
 - 4. Iris
 - 5. Crystalline lens
 - 6. Ciliary body
 - iv. Posterior segment
 - 1. Vitreous
 - 2. Retina
 - a. Photoreceptors
 - i. Rods
 - ii. Cones
 - b. Regions of the fundus
 - i. Macula lutea
 - ii. Fovea centralis
 - iii. Peripheral retina
 - c. Retinal pigment epithelium
 - d. Choroid
 - v. Optic nerve
- ii. Physiology of the eye
 - 1. Tear production
 - a. Lipid layer production by meibomian glands
 - b. Aqueous layer production by lacrimal gland
 - c. Mucin layer production by goblet cells
 - d. Tear dynamics
 - 2. Ocular motility
 - a. Cardinal positions
 - b. Innervation of the extraocular muscles
 - i. Oculomotor nerve
 - ii. Trochlear nerve
 - iii. Abducens nerve
 - c. Corneal function
 - d. Accommodation
 - e. Intraocular pressure
 - f. Retinal function
 - i. Scotopic vision
 - ii. Photopic vision
 - g. Uvea
- f. Diseases and disorders of the eye

- i. Refractive error
 - 1. Myopia
 - 2. Hyperopia
- ii. Astigmatism
- iii. Presbyopia
- iv. Amblyopia
- v. Neovascularization
- vi. Corneal ulcer
- vii. Edema
- viii. Trauma
 - 1. Blow out fracture
 - 2. Chemical burn
 - 3. Corneal abrasion
- ix. Blepharitis
- x. Dry eye
- xi. Afferent pupillary defect
- xii. Conjunctivitis
 - 1. Bacterial
 - 2. Giant papillary
 - 3. Viral
- xiii. Strabismus
 - 1. Tropia
 - 2. Phoria
- xiv. Diplopia
- xv. Glaucoma
- xvi. Vitreous detachment
- xvii. Floaters
- xviii. Diabetic retinopathy
- xix. Macular degeneration
- xx. Uveitis
- g. History taking
 - i. Presenting complaint
 - ii. Past ocular history
 - iii. Family history
 - iv. Systemic illness
 - 1. Past
 - 2. Present
 - v. Medications
 - vi. Allergies and drug reactions
 - vii. Partially sighted patient
- h. Ophthalmic equipment
 - i. Equipment use
 - ii. Equipment maintenance
 - iii. Microbial control
- i. Basic skills and lensometry
 - i. Basic optics
 - ii. Basic lensometry
 - 1. Parts of the lensometer
 - 2. Neutralization of lenses

Resources

American Academy of Ophthalmology. *Introducing Ophthalmology: A Primer for Office Staff*. 2nd ed. American Academy of Ophthalmology, 2002.

Newmark,, Emanuel. ed. *Ophthalmic Medical Assisting*. 5th ed. San Francisco: American Academy of Ophthalmology, 2012.

Ledford, Janice. *Principles and Practice in Ophthalmic Assisting (A Comprehensive Textbook)*. Thorofare, NJ: Slack Incorporated, 2018.

O'Hara, Mary A. *Ophthalmic Medical Assisting: An Independent Study Course*. 6th ed. American Academy of Ophthalmology, 2022.

Stein, Harold A. et al. *The Ophthalmic Assistant: A Text for Allied and Associated Ophthalmic Personnel*. 11th ed. St. Louis: Elsevier, 2022.

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