Brien Holden VISION INSTITUTE ACADEMY

Global Optometry Resources

Clinical Optometric Procedures 2

CLINICAL OPTOMETRIC PROCEDURES 2

STUDENT MANUAL

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COURSE OUTLINE

COURSE AIM

This course aims to build on and advance the student's theoretical knowledge of the various clinical procedures used in the practice of optometry to determine an individual's visual and ocular status.

COURSE OBJECTIVES

By the end of the module students should be able to use the knowledge gained to perform a wider set of diagnostic procedures necessary to provide more comprehensive eye care.

By the end of the module the student should be able to:

- describe the purpose and methodology of standard diagnostic procedures in eye care
- differentiate normal from abnormal ocular clinical findings
- integrate all clinical procedures into a comprehensive eye exam
- apply formal chart keeping modalities to eye care

COURSE CONTENT

The topics covered in this course include:

STANDARD OCULAR HEALTH ASSESSMENT

- Sphygmomanometry
- Biomicroscopy common findings of the anterior segment
- Fundus methods
- Gonioscopy

VISUAL FIELDS ASSESSMENT AND INTERPRETATION

- Introduction to visual fields
- Testing the visual field
- Campimetry
- Perimetry
- Anatomical correlation of visual field defects

ANCILLARY PROCEDURES

- Corneal procedures

- Eyelid procedures
- Carotid artery and orbital auscultation
- Brightness & color comparison; photostress recovery
- Deceptive testing
- Contrast sensitivity function
- Glare Evaluation and potential acuity testing
- Ocular coherence tomography
- Ultrasonography (ocular echography)
- Fluorescein angiography
- Electrodiagnostic tests
- Radiological examination of the visual system
- Ophthalmic laser therapy

COURSE DELIVERY

This module is designed to be delivered over 1 semester. Total delivery time for Clinical Optometric Procedures 2 is 56 hours of lectures.

Learning and Teaching Methods & Resources

The suggested teaching methods for this course include: PowerPoint presentations, discussions, practical sessions, clinical attachments, question and answer sessions, and general observation.

Suggested equipment for teaching includes:

- Computer & projector
- White board
- Handouts
- Standard optometric clinical equipment

RECOMMENDED ASSESSMENT

- Written examination
- Laboratory assignments
- Clinical attachments

TEXT BOOKS

Prescribed texts

- Brien Holden Vision Institute Global Optometric Resources: http://www.brienholdenvision.org/education/optometry-resources.html
- Alexander LJ. Primary Care of the Posterior Segment. 3rd Edition. Norwalk: MacGraw-Hill Companies, Inc. 2002.
- Alward WLM, Longmuir RA and American Academy of Ophthalmology. Color atlas of gonioscopy. San Francisco: American Academy of Ophthalmology. 2008.
- Carlson NB and Kurtz D. Clinical procedures for ocular examination. 3rd Edition. USA: MacGraw-Hill Companies, Inc. 2004.
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- Catania LJ. Primary Care of the Anterior Segment. 2nd Edition. Conneticut: Appleton and Lange. 1995.
- Elliott DB. Clinical procedures in primary eye care. 3rd Edition. Oxford: Elsevier. 2008.
- Eskridge JB, Amos Jfand Bartlett JD. Clinical Procedures in Optometry, Philadelphia: J.B.Lippincott Company. 1991.
- Jones W. Peripheral Ocular Fundus. 3rd Edition. St Louis: Butterworth-Heinemann, 2007.

Recommended texts

- American Academy of Ophthalmology, Basic and Clinical Science Course CD, The Foundation of American Academy Ophthalmology. 2005
- Anderson DR. Patella VM, Automated Static Perimetry, 2nd Edition. Mobsy, St. Louis, 1999.
- Anderson, D., Testing The Field of Vision, The C.V. Mosby Company, St-Louis, MI, 1982.
- Bajandas, FJ, Kline LB. Neuro Opthalmology Review Manual. 6/e. Slack Inc.: Thorofare, NJ, 2008
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- Benjamin W, Borish's Clinical Refraction, Butterworth-Heinnemann, 2007
- Bennett AG and Rabbetts RB, Clinical Visual Optics 4/e. Butterworth Heinemann. London, 2007
- Bennett ES, Fiscella RG, Jaanus SD, Rowsey JJ. Ophthalmic Drug Facts, Facts & Comparisons, 21/e, Woulter Kluwer, St-Louis, Missouri, 2009
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- Fingeret M, Casser L, Woodcome HT. Atlas of Primary Eyecare Procedures. Norwalk, CT: Appleton & Lange; 1997.
- Fisch BM, Gonioscopy and the Glaucomas. Butterworth-Heinemann, 1993.
- Haley MJ., The Field Analyzer Primer, 2nd ed., Allergan Humphrey, San Leandro, California, 1986.
- Harrington DO, Drake MV, The Visual Fields: Text & Atlas of Clinical Perimetry, C.V. Mosby, 1990.
- Heijl A, Patella VM. Essential Perimetry: the Field Analyser Primer, 3rd Edition, Carl Zeiss Meditec, Dublin, CA, 2002.
- Humphrey Field Analyzer II, User’s Guide, Humphrey Instruments Inc., 1994.
- Humphrey Field Analyzer, Capabilities & Applications, Allergan Humphrey, 1989.
- Lewis TL, Fingeret M, Primary Care of the Glaucomas, Norwalk, CT: Appleton & Lange; 2001.
- Milder B, Rubin ML, The Fine Art of Prescribing Glasses Without Making a Spectacle of Yourself, 3/e, Gainesville, Fla. : Triad Pub. Co., 2004.
- Scheiman M, Wick B. Clinical Management of Binocular Vision: Heterophoric, Accommodative, and Eye Movement Disorders. 3rd Ed. Philadelphia, PA: Lippincott Williams & Wilkins, 2009.
- Zadnik K, Lampert R. The Ocular Examination: Measurements and findings, WB Saunders 1997

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2. Biomicroscopy common findings of the anterior segment
3. Fundus methods
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