

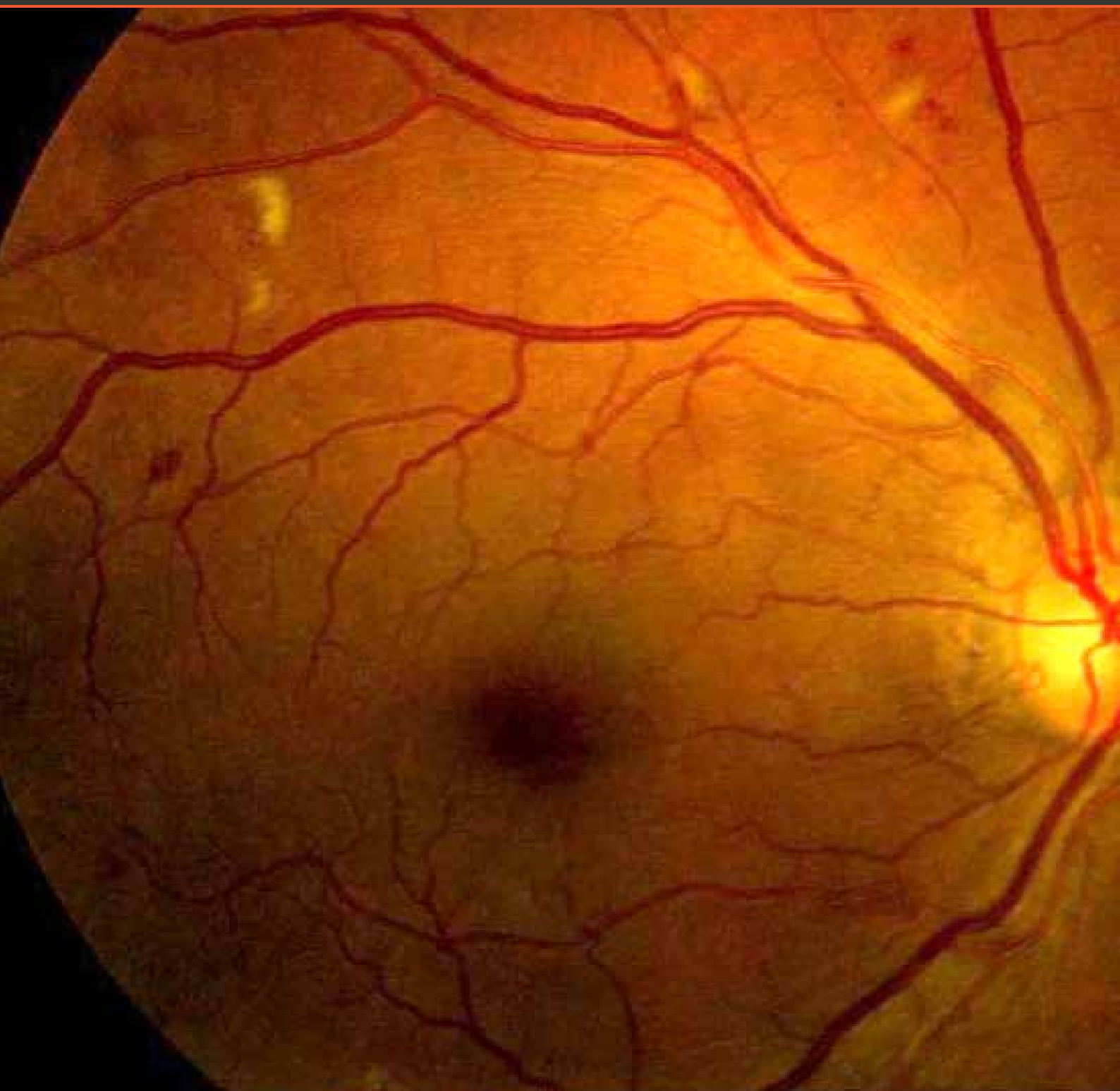


Brien Holden[®]
VISION INSTITUTE

ACADEMY

Global Optometry Resources

Posterior Eye Disease



POSTERIOR EYE DISEASE

STUDENT MANUAL

AUTHORS

Michele Madigan: University of New South Wales
Luigi Bilotto: Brien Holden Vision Institute
Tony Cullen: University of Waterloo
Bruce Muchnik: Coatesville VA Medical Center
Pirindha Govender: Brien Holden Vision Institute
David Elliott: University of Bradford
Steven Ferrucci: Southern California College of Optometry
Rachel North: Cardiff University
Sarah MacIver: University of Waterloo
Joseph J. Pizzimenti: Nova Southeastern University
Leonard Messner: Illinois College of Optometry

PEER REVIEWERS

Bernard H Blaustein: Salus University
Ian Gutteridge: University of Melbourne
Marc Myers: Coatesville VA Medical Center
Richa Verma: Deakin University
Rachel North: Cardiff University
Sarah MacIver: University of Waterloo

EDITORS AND GRAPHICS

Brien Holden Vision Institute Staff – Public Health Division

Brien Holden Vision Institute Foundation (formerly ICEE) is a Public Health division of Brien Holden Vision Institute

DISCLAIMER:

DISCLAIMER

The material and tools provided in this publication are provided for purposes of general information only. Brien Holden Vision Institute is not providing specific advice concerning the clinical management of any case or condition that may be mentioned in this publication, and the information must not be used as a substitute for specific advice from a qualified professional.

The mention of specific companies or certain manufacturers' products does not imply that those companies or products are endorsed or recommended by the Institute in preference to others of a similar nature that are not mentioned. The Institute makes no representation or warranty that the information contained in this publication is complete or free of omissions or errors. To the extent permitted by law, The Institute excludes all implied warranties, including regarding merchantability and fitness for purpose, and disclaims any and all liability for any loss or damage incurred as a result of the use of the material and tools provided.

COPYRIGHT:

COPYRIGHT © 2015 Brien Holden Vision Institute. All rights reserved.

This publication is protected by laws relating to copyright. Except as permitted under applicable legislation, no part of this publication may be adapted, modified, stored in a retrieval system, transmitted or reproduced in any form or by any process, electronic or otherwise, without Brien Holden Vision Institutes prior written permission. You may, especially if you are from a not-for-profit organisation, be eligible for a free licence to use and make limited copies of parts of this manual in certain limited circumstances. To see if you are eligible for such a licence, please visit: education.brienholdenvision.org.

COURSE OUTLINE

COURSE AIM

This module aims to provide the student with an understanding of posterior segment ocular diseases, their management and their related systemic components.

COURSE OBJECTIVES

Upon successful completion of the module the student should be able to understand the management of various pathological conditions of the posterior eye segment.

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

- Describe the symptoms, signs and assessment of various pathological conditions of the posterior eye segment
- Describe the management of various pathological conditions of the posterior eye segment

COURSE CONTENT

The topics covered in this course include:

- Diseases of the episclera and sclera
- Uveitis
- Normal & abnormal lens
- Fundus spots
- Hypertensive retinopathy
- Diabetic retinopathy
- Retinal venous occlusions
- Acquired retinal degenerations
- Inherited retinal degenerations
- Peripheral retina and vitreous
- Intraocular tumours
- Neurocutaneous syndromes

COURSE DELIVERY

This module is designed to be delivered over 1 semester. Total delivery time for Posterior Eye Disease is 42 hours of lectures.

Learning and Teaching Methods & Resources

The suggested teaching methods for this course include: PowerPoint presentations, case studies, clinical attachments, laboratory assignments, and clinical assessments.

Suggested equipment for teaching includes:

- Computer & projector
- White, smart board
- Handouts

RECOMMENDED ASSESSMENT

- Written examination
- Assignments

TEXT BOOKS

Prescribed texts

- Brien Holden Vision Institute. Global Optometric Resource Modules, Brien Holden Vision Institute; 2014.
- Bowling B. Kanski's Clinical Ophthalmology: A systematic approach. 8th Edition. Saunders; 2015.
- Riordan-Eva P and Whitcher JP. Vaughan and Asbury's General Ophthalmology. 17th Edition. USA: Lange Medical Books/MacGraw-Hill. 2004.
- Battery M and Bowling B. Ophthalmology. 2nd Edition. Philadelphia. Lippincott. Raven Publishing Company. 2001.
- Pavan-Langston D. Manual of Ocular Diagnosis and Therapy. Lippincott; 2007.
- Fechner PU and Teichmann KD. Ocular therapeutics pharmacology and clinical application. SLACK Incorporated. 1997.
- Spalton D, Hitching R, Hunter P. Atlas of Clinical Ophthalmology with CD-ROM; 2004.
- Tasman W. Duane's Ophthalmology. Lippincott Williams and Wilkins. 2010.
- Gerstenblith, AT, Rabinowitz, M. The Wills Eye Manual: Office and Emergency Room Diagnosis & Treatment of Eye Disease. Lippincott Williams and Wilkins; 2012.
- Yanoff M, Duker J; Augsburger JJ. Ophthalmology. St. Louis, MO: Mosby; 2013.
- Alexander LJ. Primary Care of the Posterior Segment. 3rd Edition. Norwalk: MacGraw-Hill Companies, Inc. 2002.
- Yannuzzi LA. The Retinal Atlas: Expert consult. Britain: Saunders/Elsevier. 2010
- Fechner PU and Teichmann KD. Ocular therapeutics pharmacology and clinical application. SLACK Incorporated. 1997.



TABLE OF CONTENTS

STUDENT MANUAL

1. Diseases of the episclera and sclera
2. Uveitis
3. Normal & abnormal lens
4. Fundus spots
5. Hypertensive retinopathy
6. Diabetic retinopathy
7. Retinal venous occlusions
8. Acquired retinal degenerations
9. Inherited retinal degenerations
10. Peripheral retina and vitreous
11. Intraocular tumours
12. Neurocutaneous syndromes



Brien Holden®
VISION INSTITUTE

ACADEMY

Level 4 North Wing Rupert Myers Building
Gate 14 Barker Street UNSW Sydney 2052
PO Box 6328 UNSW 1466 Sydney NSW

www.brienholdenvision.org
academy.brienholdenvision.org
academy@brienholdenvision.org

Brien Holden Vision Institute Academy is the education branch of the
Brien Holden Vision Institute.

Copyright © 2015 Brien Holden Vision Institute