

MODULE SPECIFICATION

KEY FACTS

Module name	Professional Certificate in Glaucoma
Module code	OVM006
School	School of Health Sciences
Department or equivalent	Division of Optometry and Visual Science
UK credits	15
ECTS	7.5
Level	7

MODULE SUMMARY

Module outline and aims

Primary open angle glaucoma is one of the chronic ophthalmic conditions selected by the Department of Health, the Royal College of Ophthalmologists and the College of Optometrists as being appropriate for shared care between primary and secondary healthcare sectors. Following successful pilot schemes, it is clear that monitoring in the form of co-management by the HES and optometrists in the community will eventually become usual practice. It is thus essential that, in addition, to simply being able to detect the condition, optometrists should have a comprehensive understanding of the natural history of the disease and its surgical and pharmacological management. The information imparted on this module is informed by current research and incorporates all of the most recent developments relating to glaucoma identification, progression and treatment modalities.

This module aims to provide you with:

- the specialised and advanced theoretical and practical base necessary to become a member of a glaucoma shared care/co-management scheme
- the Professional Certificate in Glaucoma. The Professional Certificate in Glaucoma is the first level of award on the path to the Higher Certificate and Diploma in Glaucoma awarded by the College of Optometrists.

Content outline

On this module, you will learn about:

- The glaucomas: epidemiology, classification, clinical features
- Visual fields: instrumentation, testing and sources of error, interpretation of results
- Examination and evaluation of the ONH: Technique and normal optic nerve head (ONH), features of glaucomatous optic neuropathy
- Differential diagnosis of glaucoma and influence of co-morbidity
- History taking and methods of anterior segment examination

- Tonometry/pachymetry: Calibration technique, sources of error, infection control
- Ocular hypertension
- Principles of monitoring
- Professional and National guidance on COAG and OHT/Clinical governance, patient information and decision support
- Case based discussions
 - Tutorials/Practicals
 - Field interpretation
 - Assessment of ONH
 - Interpretation of glaucomatous discs
 - Modern imaging
 - Tonometry
 - Volk
 - Slit lamp/van Herick
 - Case discussions
 - Pachymetry

WHAT WILL I BE EXPECTED TO ACHIEVE?

On successful completion of this module, you will be expected to be able to:

Knowledge and understanding:

- Demonstrate specialised knowledge of the pathophysiology of the primary and secondary glaucomas in all segments of the eye
- Provide a detailed explanation of, and differentiate between the various techniques of ophthalmic investigation appropriate to the glaucomas, including fundus photography and binocular indirect ophthalmoscopy
- Demonstrate a critical awareness of the various interdisciplinary patient management options
- Demonstrate the awareness and ability to manage patients suffering from glaucoma synthesising research-based knowledge at the forefront of optometry and treatment methodologies

Skills:

- Interpret and critically review research pertaining to glaucoma in order to review current clinical standards
- Interpret and critically review research in order to review current clinical standards

- Exercise and further develop the analytical skills required for academic study and enquiry
- Refine clinical problem-solving skills
- Analyse the clinical results of investigations relevant to the assessment of a patient with glaucoma following in-depth analysis and synthesis of the presenting features
- Advance your own knowledge and understanding and develop your skills to a high level
- Operate in a complex and unpredictable clinical environment with an overview of the issues governing best practice
- Exercise professional judgement as regards referral of patients for glaucoma treatment or review of their current medical management
- Demonstrate the independent learning ability required for continuing professional study
- Critically evaluate clinical signs together with results from psychophysical tests in order to diagnose and monitor glaucoma

Values and attitudes:

- Use appropriate interpersonal and communication skills
- Show an appropriate professional attitude towards patients and colleagues
- Show an awareness of ethical practice

HOW WILL I LEARN?

This module runs over three days with at least 21 hours of teaching, comprising formal lectures (with the opportunity for questions), and demonstrations/practical sessions. You will be given comprehensive notes at the beginning of the module to facilitate learning.

Examples of demonstrations/practical sessions

Instrumentation

Patient assessment

Teaching pattern:

Teaching component	Teaching type	Contact hours (scheduled)	Self-directed study hours (independent)	Placement hours	Total student learning hours
21 hrs of lectures and demonstrations/ practical classes and workshops	Lecture	21	129	0	150
Totals		21	129	0	150

WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

Assessments

The final assessment will consist of two components: 1) a written component (consisting of three assessments (MCQs, SAQs and PMCSs)) and 2) six practical skills assessments. Questions will test your critical and evaluative understanding, clinical recognition skills, ability to differentially diagnose and application of knowledge:

Assessment component 1 - written

- Multiple choice questions (MCQs) (covering all aspects of the module)
- Patient management case scenarios (PMCS) (which test your ability to analyse clinical results and manage patients appropriately)
- Short answer questions (SAQs) (covering all aspects of the module)

Assessment component 2 - practical

- Practical skills assessment (which test your ability to examine patients and discuss observations and management options)

Assessment pattern:

Assessment component 1	Assessment type	Weighting	Minimum qualifying mark	Pass/Fail?
PMCS Exam	Written Exam	30	50%	N/A
MCQ Exam	Written Exam	35		
SAQ Exam	Written Exam	35		

Assessment component 2	Assessment type	Weighting	Minimum qualifying mark	Pass/Fail?
Practical skills assessment (6x10 minute) stations that will test: <ul style="list-style-type: none"> • History taking • van Herick • Goldmann applanation tonometry (GAT) (x2) • Slit-lamp binocular ophthalmoscopy (x2) 	Practical skills	-	-	Yes

Assessment Regulations

The pass mark for the written component (assessment component 1) is an aggregate mark of 50%. The weighting of the different components can be found above. You are required to pass four out of the six practical skills assessment (assessment component 2) and at least one pass must be from the GAT station and one pass must be from the slit-lamp binocular ophthalmoscopy station.

In the event of a fail mark being awarded, the following will apply

Resit: You will normally be offered one resit attempt.

If you are successful in the resit, you will be awarded the credit for that module. The mark for each assessment component that is subject to a resit will be capped at the pass mark for the module. This capped mark will be used in the calculation of the final module mark together with the original marks for the components that you passed at first attempt.

If you do not meet the requirements for a module and do not complete your resit by the date specified you will not progress and the Assessment Board will require that you be withdrawn from the Programme.

If you would like to know more about the way in which assessment works at City, please see the full version of the Assessment Regulations at:

http://www.city.ac.uk/_data/assets/word_doc/0003/69249/s19.doc

Assessment Criteria

Assessment Criteria are descriptions, based on the intended learning outcomes, of the skills, knowledge or attitudes that you need to demonstrate in order to complete an

assessment successfully, providing a mechanism by which the quality of work can be measured. Grade-Related Criteria are descriptions of the level of skills, knowledge or attributes that you need to demonstrate in order to achieve a certain grade or mark in an assessment, providing a mechanism by which the quality of an assessment can be measured and placed within the overall set of marks. Assessment Criteria and Grade-Related Criteria will be made available to you to support you in completing assessments. These will be provided on the virtual learning environment or attached to a specific assessment task.

Feedback on assessment

Feedback will be provided in line with our Assessment and Feedback Policy. For end of module examinations or an equivalent significant task, feedback will normally be provided within four weeks of the submission deadline or assessment date. In the case of smaller pieces of work you will normally be provided with feedback within three weeks. This would normally include a provisional grade or mark. The timescale for feedback on final year projects or dissertations may be longer. The full policy can be found at:

https://www.city.ac.uk/_data/assets/pdf_file/0008/68921/assessment_and_feedback_policy.pdf

INDICATIVE READING LIST

Cubbidge, R.P. (2005) Eye essentials: Visual fields. London: Butterworth-Heinemann.

Edgar, D. and Rudnicka, A. (2002) Glaucoma, identification and co-management. Oxford: Butterworth-Heinemann.

Gupta, A, Gupta, A and Dogra MR (2010). Atlas of optical coherence tomography of macular disease and glaucoma. New Delhi: Jaypee Brothers Medical Publishers.

Henson, D. (2000) Visual Fields. (2nd Edition). Oxford: Butterworth-Heinemann.

Henson, D. (1996) Optometric instrumentation (2nd Edition). Oxford: Butterworth-Heinemann.

Hopkins, G. and Pearson, R. (1998) O'Connor Davies' ophthalmic drugs: Diagnostic and therapeutic uses (4th Edition). Oxford: Butterworth-Heinemann.

Kanski, J.J. (2010) Signs in ophthalmology: Causes and differential diagnosis. London: Mosby.

Kanski, J.J. and Bowling, B. (2011) Clinical ophthalmology: a systematic approach (7th Edition). Oxford: Butterworth-Heinemann.

Robin, A.L., Krishnadas, R. And Khurana, M. (2012) Diagnosis and management of glaucoma. New Delhi: Jaypee Brothers Medical Publishers.

Shields, M.B. (2010) Textbook of Glaucoma (6th Edition). Baltimore: Williams.

Shaarawy, T.M., Hitchings, R.A. and Crowston J.G. (2009) Glaucoma: Expert consult premium edition. Harvard: Saunders Ltd.

Notes relating to each lecture are provided on-line. Individual lecture notes also specify recommended further reading (including journal articles and research reports).

Version: 6.0

Version date: August 2018

For use from: 2018-19

Appendix:

CODES

HESA Code	Description	Price Group
103	Anatomy of Physiology	B

JACS Code	Description	Percentage (%)
B510	The study of the principles and techniques for examining, diagnosing and treating conditions of the human visual system	100