

MODULE SPECIFICATION

KEY FACTS

Module name	Diabetic Eye Disease
Module code	OVM005
School	School of Health Sciences
Department or equivalent	Division of Optometry and Visual Science
UK credits	15
ECTS	7.5
Level	M

MODULE SUMMARY

Module outline and aims

Diabetic retinopathy is one of the surprisingly few medical conditions for which fully controlled clinical trials have demonstrated the effectiveness of early treatment. Over the last few years, shared care schemes have developed throughout the UK. Pivotal to all these schemes is that the optometrists involved have a full understanding of the disease, its ocular complications and their management. The high level of information imparted on this module is informed by developments at the forefront of vision research. The competences gained in this module match those required for Unit 302 of the City and Guild's qualification.

This module aims to provide you with:

- In-depth knowledge of the systemic effects of diabetes mellitus on the eye (retinal and non-retinal)
- The ability to identify clear diagnostic criteria, referral guidelines and information regarding different modes of treatment following the in-depth analysis and synthesis of presenting features
- The ability to facilitate the appropriate management of the diabetic patient with a critical awareness of new treatment modalities

Content outline

- On this module you will learn about:
- Hypo- and hyperglycemia
- Non-retinal complications of diabetes mellitus
- Histopathology of diabetic retinopathy
- Principles of diabetic screening
- Diabetic retinopathy screening services
- Disease components of diabetic retinopathy
- Digital imaging including optical coherence tomography
- Classification of diabetic retinopathy
- Criteria for referral

- Treatment of Diabetic retinopathy and post surgery complications

Practical sessions:

- Case studies
- Optical coherence tomography
- Fluorescein angiography
- Patients
- Image station

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 an in-depth knowledge of the ocular consequences of diabetes
- Demonstrate a comprehensive understanding of the pathogenesis and systemic effects of diabetes following analysis of current research
- Provide a detailed explanation of, and differentiate between, different methods of monitoring and treating diabetic retinopathy

Skills:

- Interpret and critically review research pertaining to diabetes in order to review current clinical standards
- Exercise and further develop the skills required for the identification and management of the diabetic patient
- Demonstrate a refinement of your analytical and problem-solving skills
- Advance your own knowledge and understanding and develop your skills to a high level
- Critically evaluate a variety of clinical results relating to diabetes
- Demonstrate the ability to make appropriate clinical judgements from the presentation of an individual with diabetes
- Refine clinical problem-solving skills in relation to diabetes
- Demonstrate the ability to exercise professional judgement with regards to referral of patients for diabetic treatment or review of their current medical

management

- Synthesise information from a number of conflicting sources in order to gain knowledge and understanding
- Provide optometric advice to diabetic patients informed by the forefront of research

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?

It is well-established that adult learners learn best in smaller groups and with greater interaction. The module is therefore designed using a blended learning approach so that we can use the most appropriate teaching methods: the first day is delivered online using our Virtual Learning Environment (VLE) called Moodle. This allows you to study the background materials in your own time and as needed. This flexible approach also reduces time away from your practice with all of its cost implications. However, it is very important that you have significant face to face learning and so the remainder of the module is taught in didactic sessions of up to 32 students with the addition of group work and case discussions. All lecturers are experts and encourage questions and discussion during their teaching. Some will also include specific interaction sessions to encourage critical thinking and to allow you put what you have learnt into practice. Practical sessions work in groups of about 5/6 allowing you some hands-on experience and the chance to ask in-depth questions. Finally, virtual case discussions allow group discussion about specific cases.

Teaching pattern:

Teaching component	Teaching type	Contact hours (scheduled)	Self-directed study hours (independent)	Placement hours	Total student learning hours
8 hours of online materials	Online lectures and tutorials delivered via Moodle	8	22	0	30
13 hours of lectures, practical classes and	13 hours of lectures, practical classes and workshops,	13	107	0	120

workshops, demonstrations	demonstrations				
Totals		21	129	0	150

WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

Assessments

The assessment will consist of a closed book written assessment, questions will test your critical and evaluative understanding, clinical recognition skills, ability to diagnose differentially and application of knowledge:

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

Assessment pattern:

Assessment component	Assessment type	Weighting	Minimum qualifying mark	Pass/Fail?
MCQ Exam	Written Exam	50	0	N/A
PMCS Exam	Written Exam	50	0	N/A

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

Assessment Regulations

The Pass mark for each module is 50%. Where the module requires more than one assessment, the contribution of each to the final mark is stated in the module specification.

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

Resit: You will normally be offered one resit attempt. However, if you did not participate in the first assessment and have no extenuating circumstances, you may not be offered a resit.

If you are successful in the resit, you shall be awarded the credit for that module. The mark used for the purpose of calculation towards your Award shall be calculated from the original marks for the component(s) that you passed at first attempt and the minimum pass mark for the component(s) for which you took a resit.

If you do not satisfy your resit by the date specified you will not progress and the Assessment Board shall require that you withdraw 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

INDICATIVE READING LIST

Birch, J. and Rudnicka, A. (2000) Diabetic eye disease: identification and co-management. Oxford: Butterworth- Heineman.

Casser, L., Fingeret, M. and Woodcome, H.T. (1997). Atlas of primary eyecare procedures (2nd Edition). Connecticut: Appleton and Lange.

Hamilton, A.M.P., Gregson, R. and Fish, G.E. (1998) Text atlas of the retina. London: Martin Dunitz. Harry, J. and Mission, G. (2001) Clinical Ophthalmic Pathology, Oxford: Butterworth-Heinemann

Kanski, J. (2007) Clinical ophthalmology: a systematic approach (6th Edition). Oxford: Butterworth-Heinemann.

Kanski, J.J., Pavesio, C.E. and Tuft, S.J. (2006) Ocular Inflammatory Disease, London: Mosby

Muchnick, E.D. (2007) Clinical medicine in optometric practice (2nd Edition). St Louis: Mosby.

Saine, P.J. and Tyler, M.E. (1997) Ophthalmic Photography: A textbook of Fundus Photography, Angiography, and Electronic Imaging, Boston: Butterworth-Heinemann

Spalton, D. (2004) Atlas of clinical ophthalmology (3rd Edition). London: Mosby.

Yanoff, M. and Duker, J.S. (2008) Ophthalmology (3rd Edition). London: Mosby.

Websites

<http://medweb.bham.ac.uk/easdec/eyetextbook/eyetextbook.htm>

<http://www.mrcophth.com/oxfordpd.htm>

<http://www.webmd.com/>

<http://www.diabeticretinopathy.org.uk>

The Washington Advisory Group (2005) Eye Diseases in Diverse Populations, Washington (copy this title into search engine and PDF will appear)

Diabetes Mellitus in the USA:

<http://ndep.nih.gov/publications/OnlineVersion.aspx?NdepId=NDEP-54>

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

Version: 2.0

Version date: July 2014

For use from: 2013-14

Appendix:

CODES		
HESA Code	Description	Price Group
106	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