

## MODULE SPECIFICATION

### KEY FACTS

Module name	Contact Lens Practice
Module code	OVM032
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

The subject of contact lenses is part of the initial qualification obtained by an optometrist. It is a speciality that a significant number of the profession do not pursue following registration due to their reluctance to deal with the potential for causing short- and long-term changes to ocular health. The Contact Lens Practice module has been devised to enable optometrists to deal more confidently and effectively with the management of contact lens patients in the community or hospital setting.

This module aims to provide you with:

- an in-depth and systematic understanding of the complications induced by contact lens (CL) wear
- an in-depth and systematic understanding of specialist contact lens fitting
- the skills required in order to approach more specialist fitting
- the skills to fit contact lenses in patients with ocular pathology, e.g. scleral lenses
- a greater interest in new CL designs
- a foundation to enable a piece of research to be completed successfully in this field of study, towards an MSc

#### Content outline

Introduction to keratoconus  
Irregular Cornea  
Cornea-scleral and hybrid lenses  
Clinical applications of corneal topography  
Post-refractive surgery and post keratoplasty CL fitting  
Practical session – Fitting the irregular cornea  
Prosthetic uses of cosmetic CLs  
Correct of astigmatism – RGP/Soft/SiH lenses  
Children and CLs  
Myopia control  
Presbyopic lens choices  
Practical session – Presbyopia  
CL related infiltrative and inflammatory complications  
Detection of dry eye

Management of dry eye  
Modern CL materials  
Practical session – dry eye

## **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 advanced knowledge of the broad concepts of fitting CLs in keratoconics, aphakes, patients requiring medical cosmetic lenses and sclerals
- Provide a detailed explanation of and differentiate between the aspects of microbiology and immunology relevant to the in-eye situation
- Gain an in-depth and systematic understanding of the process of infection and inflammation related to CL wear
- Show an in-depth understanding of the ocular pathological processes that would benefit from contact lens wear
- Demonstrate a comprehensive understanding of the concepts of fitting contact lenses in patients requiring therapeutic lenses, those with dry eye, high prescriptions, presbyopia and following surgical procedures.

### Skills:

- Exercise and further develop the analytical skills required in the field of contact lenses
- Interpret and critically review research pertaining to contact lens practice
- Demonstrate a refinement of your analytical and problem-solving skills
- Make judgements from the presentation of a patient requiring contact lenses for therapeutic purposes
- Critically evaluate a therapeutic contact lens patient's problems and exercise professional judgement in patient management
- Advance your own knowledge and understanding and develop skills to a high level
- Analyse the implications of fitting complex contact lens designs
- Adapt skills and interpret clinical results appropriately and safely
- Fit therapeutic lenses
- Synthesise knowledge gained from the module and apply to clinical practice
- Be critically aware of the physiological consequences of specialist lenses
- Refine clinical problem-solving skills and operate in a complex and unpredictable environment with an overview of the issues governing best practice
- Fit advanced and specialist spherical and aspheric designs, lenses to correct astigmatism and lenses for presbyopia.

### Values and attitudes:

- Show an appropriate professional attitude towards patients and colleagues
- Show an awareness of ethical practice

### HOW WILL I LEARN?

The module is mainly didactic in learning with several practical sessions. The module runs over three days with at least 21 hours of learning, comprising of lectures, demonstrations/practical sessions and tutorials. You are given comprehensive notes at the beginning of the module to facilitate learning.

Teaching pattern:

Teaching component	Teaching type	Contact hours (scheduled)	Self-directed study hours (independent)	Placement hours	Total student learning hours
Lectures, practical classes and workshops and demonstrations	Lectures	21	129	0	150
Totals		21	129	0	150

### WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

The assessment will take the form of two written examinations. Questions will test your critical and evaluative understanding, clinical recognition skills, ability to differentially diagnose and application of knowledge. The assessment consists of:

MCQs (based on the content of the module)

Case scenarios (which test your ability to analyse clinical results and manage patients appropriately)

Assessment pattern:

Assessment component	Assessment type	Weighting	Minimum qualifying mark	Pass/Fail?
1.5 hour MCQ (approximately 75 MCQs)	Written Exam	50	-	N/A
1.5 hour case scenario/VRICS paper (4-6 cases)	Written Exam	50	-	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](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](http://www.city.ac.uk/data/assets/word_doc/0003/69249/s19.doc)

### INDICATIVE READING LIST

Douthwaite, W. (2006) Contact lens optics and lens design (3rd Edition). Oxford: Butterworth-Heinemann.

Efron, N. (2012) Contact lens complications. (3rd Edition) Oxford: Butterworth-Heinemann.

Efron, N. (2010) Contact lens practice Oxford: Butterworth-Heinemann.

Gasson, A. and Morris, J. (2010) The contact lens manual (4th Edition). Oxford: Butterworth-Heinemann

Keirl, A. and Christie, C. (2007) Clinical Optics and Refraction Oxford: Butterworth-Heinemann.

Morris, J, Christie, C and Gasson, A. (2008) The Advanced Contact Lens Manual. Oxford: Butterworth-Heinemann.

Phillips, A.J. and Speedwell, L. (2007) Contact lenses (5th Edition). Oxford: Butterworth-Heinemann.

Mountford, J., Ruston, D. and Dave, T. (2004) Orthokeratology Principles and Practice. Butterworth-Heinemann.

Sweeney, D. (2004) Silicone Hydrogels - continuous wear contact lenses (2nd Edition) Oxford: Butterworth-Heinemann.

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: 2014-15

### Appendix:

#### CODES

HESA Code	Description	Price Group
4	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