

Module code: MOD002450		Version: 5 Date Amended: 16/Jul/2024	
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1. Module Title			
Refractive Management Part 1			

2a. Module Leader			
Shabana Younus			

2b. School			
School of Psychology and Sport Science			

2c. Faculty			
Faculty of Science and Engineering			

3a. Level			
4			

3b. Module Type			
Standard (fine graded)			

4a. Credits			
15			

4b. Study Hours			
150			

5. Restrictions			
Type	Module Code	Module Name	Condition
Co-requisite:	MOD002465	Ophthalmic Practice 1	Compulsory
Exclusions:	None		
Courses to which this module is restricted:	BSc (Hons) Dispensing Optician (Registerable Award)		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

This module is designed for you, as a trainee dispensing optician working in an ophthalmic/optical practice under the supervision of a registered practitioner. The content of the module is constructed to provide a general and yet comprehensive knowledge of the "optics" of the human eye.

It consists of various "optical models" that have been proposed to define emmetropia, ametropia and astigmatism. The effect of age on the human eye is discussed along with an overview of the detection and correction of presbyopia. You will explore ways of explaining to the lay person the relevance of ocular conditions and how the vision will or will not be affected by these conditions. Basic understandings of the common ocular conditions and diseases will be sought, during the lectures, with further reading being necessary for the full and meaningful understanding of the topic. The module is designed to give you the basic anatomical and visual optical structure of the eye and adnexa so that you can successfully discuss with a patient the ocular condition and the causes of visual abnormalities. It is designed to allow you to communicate in an effective manner in a real patient scenario.

The module will give a base level of understanding of the eye and how it works, in preparation for Part 2 taught in the second year.

This module is relevant to the work you will undertake in practice.

6b. Outline Content

This module will cover the following aspects of the General Optical Council required Learning Objectives:

1.1

Actively listens to patients and their carers to ensure patients are involved in and are at the heart of decisions made about patient's care

Effectively communicates with patients and carers to obtain all relevant history and symptoms using a combination of verbal, non-verbal and written skills

Actively seeks confirmation of patient understanding and involves patients in decisions made regarding their own healthcare

1.2

Manages desired health outcomes of patients, taking into consideration any relevant medical, family and social history of the patient which may include personal beliefs or cultural factors

Recognises the importance and significance of family history, signs and symptoms

Recognises patients physical, emotional, intellectual and cultural background and adapts care and communication appropriately

1.7

Demonstrates effective clinical decision-making, diagnosis, evaluation and makes appropriate and timely referrals where needed to meet patient needs.

Designs and implements an appropriate management plan, in line with individual patient's clinical needs and preferences

3.1

Undertakes safe and appropriate ocular examinations using appropriate techniques and procedures to inform clinical decision making within individual scope of practice

Justifies the choice of clinical procedures used on appropriate techniques for clinical investigations

Appraises the risk balance of clinical techniques used to examine patients

Ensures patient and practitioner safety during all clinical processes and procedures

3.3

Engages with technological advances in eye health and broader healthcare delivery and the significance of specific developments for enhancing patient outcomes and service delivery.

Uses new technologies in diagnosis, treatment and management of ocular conditions

Uses appropriate technology in consultation, referral and clinical data exchange

Keeps abreast of emerging technologies and their potential application in clinical practice

3.4

Analyses visual function from a range of diagnostic sources and uses data to devise a clinical management plan in areas that include the following: dispensing of optical appliances, low vision/visual impairment, refractive management, anterior eye and contact lenses, ocular and systemic disease, binocular vision, paediatrics, patients with learning difficulties and special needs, occupational dispensing

Applies normative data in the interpretation of results of visual function tests

3.5 (i)

Acts as a first point of contact for patients for their eye health needs by investigating, diagnosing and managing individuals' functional and developmental visual conditions, including those related to age.

Records all aspects of the consultation, the findings of all tests and relevant communications with patients, their carers and colleagues, ensuring that records are accurate, legible, dated, signed, concise, contemporaneous and securely stored.

3.5 (ii)

Completes an informed clinical assessment of individual patients' needs and uses this to dispense, fit and advise on the safe and effective use of spectacles, low-vision appliances and ophthalmic appliances.

Manages and assesses vision, refractive error, binocular status, and visual acuity.

3.5 (iv)

Accurately identifies patients' conditions and their potential need for medical referral in a timely way, including when urgent or emergency attention is required.

Investigates and interprets the results of history-taking and clinical findings (i.e., a recognition of abnormality and correct interpretation of common investigative tests) to formulate an appropriate management plan, recognising and acting when a referral is appropriate.

4.4

Applies the relevant national law and takes appropriate actions i) to gain consent and ii) if consent cannot be obtained or is withdrawn.

Ability to explain clinical tests and referrals, together with the risk and benefits in a way the patient is able to understand in order to obtain informed consent.

4.5

Recognises and works within the limits of own knowledge and skills. Seeks support and refers to others where appropriate.

Shows evidence of appropriate referral to other professionals in a variety of situations.

6c. Key Texts/Literature

The reading list to support this module is available at: <https://readinglists.aru.ac.uk/>

6d. Specialist Learning Resources

None

7. Learning Outcomes (threshold standards)		
No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Show knowledge and understanding of how light travels through the eye
2	Knowledge and Understanding	Show knowledge and understanding of how altering the parameters of a standard eye will induce ametropia
3	Knowledge and Understanding	Show an understanding of the component structures of the eye
4	Intellectual, practical, affective and transferrable skills	Explain ocular conditions to a patient

8a. Module Occurrence to which this MDF Refers				
Year	Occurrence	Period	Location	Mode of Delivery
2024/5	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments
Lectures	24	1-4	12 x 2 hour lecture sessions
Other teacher managed learning	6	1-4	6 x 1 hour seminars
Student managed learning	120	1-4	Self practice (including Preparation of the poster 12 hours - student led research).
TOTAL:	150		

9. Assessment for the above Module Occurrence					
Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Coursework	1-4	100 (%)	Fine Grade	40 (%)
Written assignment - 2000 words					

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:

- (a) achieve the qualifying mark for each element of fine graded assessment as specified above**
- (b) pass any pass/fail elements**

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]