

The Assessment and Management of Binocular Vision

Module Code:	OPT5008-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Optometry and Vision Science
Subject Area:	Optometry
FHEQ Level:	FHEQ Level 5

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	48
Laboratory	12
Directed Study	138
Examinations DO NOT USE	2

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims

To develop an understanding of the normal and abnormal development of binocular vision and to enable students to apply this understanding in the clinical evaluation and management of patients with binocular vision dysfunction.

Outline Syllabus

Spatial localisation and stereoscopic vision. Clinical assessment of stereopsis. The identification and measurement of ocular deviations using objective and subjective methods. Evaluation of the motor control of ocular deviations. Measurement of vergence. Fixation disparity. Mallett units. The near vision complex and AC/A ratio. Sensory adaptations to strabismus. The classification and management of concomitant ocular

deviations. Characteristics and investigation of incomitant strabismus and its optometric management. Introduction to nystagmus and neuro-ophthalmology. Development of binocular vision and the consequences of its abnormal development. Amblyopia. Paediatric optometry: managing the child patient; children's tests.

The clinical portfolio is a completed portfolio of evidence of clinical experience and skills, to include competence in practical techniques and interpretation of results. Although this element does not contribute to the final mark for this module, this element must be passed.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 Describe the basic principles of normal development of binocular vision.
- 2 Explain anomalies of visual development.
- 3 Describe the incidence and demographics of binocular vision anomalies.
- 4 Identify and classify anomalies of binocular vision.
- 5 Analyse clinical information from binocular vision tests and formulate appropriate tentative diagnoses.
- 6 Analyse clinical information from binocular vision tests and formulate appropriate management options for patient care.
- 7 Refine problem-solving skills.
- 8 Examine web-sites, CD-ROMs and video-tapes through directed study.
- 9 Review new information, concepts and evidence from a range of sources.

Learning, Teaching and Assessment Strategy

The module is based on a lecture series and supported by video-taped and CD-ROM material.

1. The fundamental principles relating to the assessment and management of binocular vision anomalies are covered in formal lectures.
2. Practical classes are used to develop basic skills and assess competence in fundamental clinical examination techniques. In order to provide exposure to the appearance of a variety of binocular vision anomalies the interpretation of video recordings of patient examinations is used.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Other form of	Clinical portfolio of evidence of	0 hours	%	No

	assessment DO NOT USE	clinical experience and skills PASS/FAIL			
Summative	Computerised examination	Closed book computerised examination via QMP (including MCQ) at the end of the module	2 hours	100%	Yes

Legacy Code (if applicable)

OP-0408L

Reading List

To view Reading List, please go to [rebus:list](#).