

Evidence Based Optometry 1

Module Code:	OPT5003-A
Academic Year:	2018-19
Credit Rating:	10
School:	School of Optometry and Vision Science
Subject Area:	Optometry
FHEQ Level:	FHEQ Level 5
Module Leader:	Dr William Mcilhagga

Additional Tutors:
Dr Srimant Tripathy

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	24
Tutorials	2
Laboratory	2
Directed Study	72

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 1 (Sep - Jan)

Module Aims

To introduce students to the ideas of probability and randomness. To enable students to read and analyze statistical tests in clinical literature. To introduce students to proper design of clinical trials and fair tests.

Outline Syllabus

Basic Statistics: Randomness. Probability. Risk. Graphs of data. Distributions. Mean and variance. Scatter plots. Regression Lines. Psychology & probability (prospect theory, framing).

Epidemiology: Cohort studies. Prevalence and Incidence. Surveys. Case-control studies. Odds-ratio. Relative risk.

Testing Treatments: Fair & unfair tests. Sample and population. t-test, NNT, ANOVA. Significance. Regulation.

Evidence in Practice: Reading and interpreting the literature. Clinical error. Optimal decisions. NICE. Screening.

Module Learning Outcomes

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

- 1 Do basic statistical calculations.
- 2 Describe the principles behind statistical tests/
- 3 Describe basic epidemiological procedures.
- 4 Critique the use of statistics in clinical papers.
- 5 Interpret and explain statistical procedures in clinical literature.
- 6 Improve application of numbers through collection, recording and presentation of data.

Learning, Teaching and Assessment Strategy

The module will be taught as a series of 24 lectures. The lectures divide into four general topics. At the end of each topic there will be a short (1/2 hour) written test, each worth 5% of the final mark, to encourage students to learn the material as they go. The written tests are essentially formative, and feedback will be given. The marks allocated to the tests are merely to provide an incentive for students to learn the material.

Each week there will also be two hours of bookable individual tutorial sessions.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	Four 30 minute in-class topic tests		20%	Yes
Summative	Computerised examination	Closed book unseen computerised examination	1 hour	80%	No

Referral	Computerised examination	SUPPLEMENTARY ASSESSMENT: Closed book unseen computerised examination	1 hour	100%	No
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Legacy Code (if applicable)

OP-0308M

Reading List

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