Statistics for Population Health (IEHC0080)

Description

‘Statistics for Population Health’ is a module which will provide you with the skills to carry out basic statistical analyses using STATA so that you are able to complete a quantitative dissertation. You will cover a variety of topics important for statistical analysis in the field of population health. These will include variable types, summarising and visualising data, normal distribution, statistical significance, hypothesis testing, confidence intervals, power and sample size, chi-square tests, Z & t-tests, measuring associations between numerical or categorical variables, and finally linear regression and logistic regression.

By the end of the module, you will be able to

1. Select appropriate statistical analysis based on the hypotheses and data types.
2. Carry out statistical analysis using STATA suitable for analysing large health datasets.
3. Write and apply STATA syntax to conduct analyses and interpret results accordingly.

This is an introductory module for Year 1 students on the BSc Population Health programme running in Term 1 of the academic year. There is limited availability for UCL elective students from other departments. Places are allocated on a ‘first come, first served’ basis on Portico when the module selection opens. Spaces are limited to 30 with preference given to the BSc Population Health students.

Teaching for this module will take place in the form of lectures, self-paced independent study, and practicum sessions using the statistical software STATA.

The module will be assessed based on two written 500-word reports (25% each of your total mark for this module) based on a Stata practicum and an unseen written exam (50% of your total mark for this module).

Selected Reading List

978-1-59718-135-8, 2014 Stata Press.


- STATA User’s Guide


- National Statistics and Survey websites including ONS, UK Data Archive, stats Canada, WHO, etc.