



Uganda
Virus
Research
Institute



Uganda Advanced Statistical Methods in Epidemiology

Course Dates: 20th–31st August 2018 | Venue: Uganda Virus Research Institute (UVRI) Entebbe

Organizers: Dr. Sylvia Kiwuwa and Dr. Christian Hansen

This is a two-week course designed to build on the Ugandan Intensive Epidemiology and Statistics Course (UIESC) and to enable participants to understand, apply and interpret a range of more advanced techniques for the design and analysis of epidemiological studies.

Course Overview

Revision of epidemiological and statistical concepts: measures of disease and effect, stratified analyses, regression models including logistic regression and the concept of likelihood.

Case-control studies: regression methods for case-control studies including unconditional and conditional logistic regression. Advanced design issues in case-control studies.

Cohort studies and survival analysis: regression methods for cohort studies. Poisson regression and Cox regression. Time dependent variables. Further issues in the analysis of cohort studies.

Analysis of clustered and longitudinal data: multilevel models (generalized linear mixed models) for analyzing clustered and longitudinal data. Design and analysis of cluster randomized trials

Missing data: introduce participants to the basics of patterns of missing data and methods of imputation of missing data

Applicant profile

- * Be actively involved in research or teaching
- * Have covered statistical and epidemiological methods roughly to the level of the UIESC; and so should be familiar with the basic principles of design and analysis of epidemiological studies and basic methods of statistical analysis of epidemiological studies including methods for dealing with confounding using stratification and also have some familiarity with regression analysis.
- * Have basic knowledge and skills in the use of the statistical package Stata, i.e. be able to write Stata do-files, understand Stata log-files and be conversant with simple Stata commands.

Application Procedure

Applicants should submit a completed application form and a letter of support from their supervisor, stating why the course is important for their work by email to training@mrcuganda.org.

Course Cost: 500 USD.

The course fee covers tuition, training materials, tea and lunch, but does not include accommodation. Participants should indicate on the application form whether they require accommodation and guidance on possible accommodation options will be provided.

Application deadline is Monday 30th June 2018.