

Short Course on Methods for Data Management With Software Application:

1-5 July 2019

School of Mathematics, Statistics, and Computer Science, University of KwaZulu-Natal, South Africa in collaboration with the Department of Biostatistics, Harvard T. H. Chan School of Public Health, U.S.A, the African Academy for Public Health (AAPH) and the DELTAS Southern Africa Consortium for Advanced Biostatistics (SSACAB) are pleased to announce a 5-day Course on Methods For Data Management With Software Application.

Course Facilitators:

- Dr Elysia Larson: Department of Biostatistics, Harvard T. H. Chan School of Public Health, United States of America.
- Professor Henry Mwambi: School of Mathematics, Statistics, and Computer Science, University of KwaZulu-Natal, Pietermaritzburg, South Africa.
- Jesca Batidzirai: School of Mathematics, Statistics, and Computer Science, University of KwaZulu-Natal, Pietermaritzburg, South Africa
- Danielle Roberts: School of Mathematics, Statistics, and Computer Science, University of KwaZulu-Natal, Durban, South Africa
- Innocent Mboya: School of Mathematics, Statistics, and Computer Science, University of KwaZulu-Natal, Pietermaritzburg, South Africa

Venue: G24. School of Mathematics, Statistics, and Computer Science, University of KwaZulu-Natal, Pietermaritzburg, South Africa

Dates: 1 – 5 July 2019

Expected Outcomes:

This course is an introduction to the common and innovative methods used for Data collection and production of summary statistics. Motivating examples of many topics will be given. By the end of the course, participants will be able to achieve the following:

- Understand qualities of a good questionnaire
- Identify common sources of error in data collection
- Design and code a questionnaire using SurveyCTO software
- Use surveyCTO as a data collection tool
- Collect data electronically using a smart phone/ tablet using surveyCTO
- Employ basic to intermediate, but common, statistical tools used in program Data Management.

Award: Candidates that successfully complete this course will be awarded a Certificate of Completion.

Course Outline:

- The foundation: preventing garbage in, garbage out
- Principles of questionnaire design
- Applying questionnaire design to build a database: Open Data Kit/SurveyCTO
- Applying questionnaire design to build a database: debugging and launching your survey
- Data are coming in, what do you do? Principles of data monitoring
- Introduction to Stata
- Applying the principles of data monitoring and cleaning in Stata
- Creating a clean dataset
- Use Stata for data cleaning/analysis
- Producing meaningful summary statistics and graphs

Eligibility:

Applications are being sought from persons with demonstrated interest in Research, (Questionnaire Design, Data Management Using Statistical Software, Descriptive Data Analysis Using Statistical Software) and those working in private or national departments.

Course Fees:

Attendance at this course is free. However, to meet the costs of break refreshments and lunches, a modest fee of **ZAR1500** will be required and payable in **cash** on registration. Please also note: Participants will be responsible for their own travel and accommodation arrangements.

Further details: Please contact Jesca Batidzirai (batidzirai@ukzn.ac.za)

Registration & Deadline: To register for the course, please send your full details (Name and contact details: Telephone or cell, email and your home institution) to Miss Christel Barnard (BarnardC@ukzn.ac.za). For logistical purposes please let this information be given to Miss Christel Barnard by no later than 12 noon on **17 June 2019**. Thank you in advance.

Accommodation Venues:

Please indicate to Miss Christel Barnard if you need information about places where you can book accommodation within a convenient distance from the venue. Note that accommodation will be booked and paid for by the participant.