



## Short course announcement DHS Data and Complex Survey Analysis

**Venue:** MUHAS – CHPE BUILDING

**Dates:** 27 July – 31<sup>\*\*\*</sup> July 2020 (\*\* date may change due to Eid El-Hajj celebrations)

**Target audience:** MUHAS Faculty and Students

**Available Slots:** 25

**Course fee:** Sponsored

**Course instructors:** Departments of Epidemiology/Biostatistics and Development Studies, MUHAS

### Course overview

This course is meant to expose participants to sample surveys and how to use them appropriately to answer public health research questions. We focus on the use of existing surveys, specifically the Demographic and Health Surveys (DHS). Topics include the theoretical underpinnings of surveys, data analysis, data interpretation, and inference. Participants will develop a research question that can be answered using the DHS survey of their choice, and use Stata to begin analysis for their question. This course is adapted from Dana Thompson's course "Population Survey Analysis", which can be accessed online at <http://www.populationurveyanalysis.com>, as well as Professor Marcello Pagano's course "Health Survey Samples".

The pre-requisite for this short course is basic training in biostatistics. Participants should come into the course with a research question identified where they plan to apply the skills they learn in this course. Participants should submit a research question that can be addressed using TDHS dataset with their applications through <https://forms.gle/papSKqxEzJoSNtU86>.

### Learning Objectives

By the end of this course, participants should be able to:

1. Identify and critically discuss the methods and type of data collected in a typical DHS and how they can be used to measure the public health
2. Distinguish between simple random sampling and complex sampling
3. Conceptualize a research question that can be answered using DHS data
4. Create a data analysis plan and perform basic level data analysis required in a scientific publication
5. Identify and critically evaluate low-response, and thus non-representative and biased surveys, that proliferate the public market place

## **Course structure**

The content of this course is best learned through hands-on experience. We will, therefore, limit the number of traditional lecture presentations. We expect all participants to be present during each of the scheduled sessions. If you must miss a session due to illness, please speak with the course instructor to determine a plan for making up the missed material.

## **Assignments**

Throughout the course, there will be a series of “knowledge checks” quizzes to allow participants to immediately apply what they have learned during the course. Because this is a short course and the sessions build on each other, we expect each of the exercises to be completed on time.

## **Expected outcomes**

- Competencies in secondary data analyses with TDHS focus
- Result tables from TDHS analyses
- Manuscript using TDHS data in the next 3 months following the course

## **Contacts**

*Dr Linda Paulo,*  
Department of Development Studies,  
The School of Public Health and Social Sciences,  
MUHAS  
**Email:** [muhasdhs665@gmail.com](mailto:muhasdhs665@gmail.com)  
**Phone:** +255 712 021 602

**To apply, follow the following link:** <https://forms.gle/papSKqxEzJoSNtU86>

**Deadline for applications:** Sunday, 19<sup>th</sup> July 2020

