

## **DATA ANALYSIS REPORT**

Uganda Society for Health Scientists held a data analysis workshop from the 24<sup>th</sup> to 27<sup>th</sup> June 2008 at the Physiology lecture theatre. This is the second series of the research methodology workshop. We received 85 applications for the workshop, however due to financial constraints and limited space for conducting the training 55 applicants were short listed.

The workshop had 54 persons in attendance comprising of 39 participants, 11 facilitators, 2 staff members and 2 volunteers. The participants were drawn from Makerere medical School, Nsambya Hospital, Infectious Diseases Institute, Mulago Hospital, Mildmay International center, Ministry of Education and Sports, MUJHU, PIDC, Gulu University among others.

The Chairperson of USHS Dr. Pauline Byakika welcomed participants to the workshop and encouraged non society members to join the society.

### **Objectives of Participants**

Some participants had the following workshop objectives:

- Hands on data analysis
- Improve qualitative and quantitative data skills
- Learn statistical packages
- Participants should be able to have basic data analysis
- To know the different types of data
- To have data management skills

The following topics were taught during the workshop:

1. Type of data analysis software package (SPSS) by Mr. Albert Maganda
2. Type of data analysis software package (STATA) by Ms. Agnes Kiragga
3. Data management prior to analysis by Dr. Danstan Bagenda
4. Methods of data presentation by Dr. Roy Mayega
5. Methods of data location and dispersion by Dr. Nazarius Mbona
6. Bivariate analysis and ANOVA by Ms. Joan Nakayaga
7. Multivariable analysis by Dr. Fredrick Makumbi
8. Logistic regression by Dr. Fredrick Makumbi
9. Linear regression by Dr. Nazarius Mbona
10. Introduction to survival analysis Dr. Fredrick Makumbi
11. Non Parametric tests by Dr. Nazarius Mbona
12. Qualitative analysis by Dr. Stella Neema

Other facilitators

13. Dr. Pauline Byakika – Kibwika (Chairperson USHS)
14. Dr. Kenneth Kintu (Committee member)
15. Dr. Carolyne Onyango (Committee member)
16. Ms. Isabella Achokotho (Administrator USHS)

17. Mr. Richard Senvewo (Administrative Assistant USHS)
18. Mr. David Maiki (Volunteer USHS)
19. Mr. John Ochowun (volunteer USHS)

An Evaluation was given at the end of each day.

#### Evaluation analysis

Particulars	Below Average	Average	Good	Very Good	Excellent
Venue	3%	19%	52%	21%	5%
Meals	3%	12%	42%	30%	13%
Administrative support			29%	50%	21%
<b>Topics taught</b>					
Types of data analysis soft ware packages, a demonstration of SPSS and STATA packages		22%	45%	22%	11%
Data management prior to analysis. Review and preparation for statistical Analytical stage	11%	11%	45%	22%	11%
Methods of Data Presentation			11%	56%	33%
Measures of data location and desperation			30%	60%	10%
Practical session	11%	13%	50%	13%	13%
Bivariate Analysis ANOVA	4%	5%	45%	41%	5%
Multivariate Analysis Logistic regression	4%	14%	43%	26%	13%
Linear regression		9%	39%	39%	13%
Introduction to survival analysis			29%	50%	21%
Practical session on Bivariate/ Multivariate			21%	36%	43%
One to one with statisticians for personal problems		18%	18%	55%	9%
Non parametric tests	5%	19%	52%	24%	
Qualitative analysis & practical			43%	43%	14%

#### Additional comments made by participants:

- Need for a better venue with accessible power and toilets
- The workshop should be for at least 5 days so as not to congest the program
- Venue was hot especially at the back
- Some presenters are too fast
- Clinical examples used are too complex for some participants
- 8:00am is too early to start the sessions
- Time management of some facilitators is still lacking
- More time for practicals
- Preparations before starting the workshop for example loading soft wares on laptops and presentations on the first day will save some time
- All topics selected were very relevant

- Soft wares should be availed on CDs even if at cost to save time and avoid transmission of virus to our laptops.
- Send emails of the files prior to the workshop
- We need to know when to use STATA and SPSS
- Facilitators concentrate too much on STATA which some of us don't need
- A least we have the workshop four times a year
- We need also writing Academic skills
- Participants should pay some amount to assist in facilitating
- Such workshops at regional level and up country
- We gained a lot thanks USHS
- Every society member should have a certificate of registration and registration number.
- Encourage more non-medical profession to join the society

### **Attendance List of participants**

1. Mr. Michael Angel Mugerwa - MU-CWRU Research Collaboration
2. Ms. Florence Namutiibwa - Center for Social Science Research on AIDS
3. Mr. Joseph Kyebuzibwa - “
4. Dr. William Tamale - Joint Center for Research Collaboration
5. Dr. Robert Kalysubula - Makerere Medical School
6. Mr. Mustafah Mubiru - CESSRA
7. Ms. Sawsan Abdalla - MU-JHU Research Collaboration
8. Dr. Isaac Kajja - Department of Orthopaedics
9. Mr. Alvin Tendo - Ministry of Education & Sports
10. Mr. Tonny Kyagulanyi - “
11. Dr. Annet Nanvubya - UVRI/AIVI
12. Dr. Herbert Kisamba - Entebbe General hospital
13. Dr. Sophie Namasopo - Jinja Referral Hospital
14. Mr. Paul Kasigaire - Mulago Paramedic Schools
15. Ms. Annet Nankwanga - Makerere University Kampala
16. Ms. Ruth Nabaggala - The Mildmay International Center
17. Dr. Patrick Musinguzi - Department of Medicine
18. Ms. Rehma Nanfuka - MRC
19. Ms. Jane Wanyama - Infectious Disease Institute
20. Dr. Joseph Kabanda - JCRC
21. Dr. Rejani Opio - Department of Internal Medicine
22. Dr. Grace Ndeezi - Department of Paediatrics
23. Dr. James Sande Obondo - Department of Microbiology
24. Dr. Anne Ampaire Musika - Department of Ophthalmology
25. Ms. Christine Nsungwa - School of Public Health
26. Dr. Paska Apiyo - Department of Medicine
27. Ms. Jacqueline Kobusingye - Mulago School of Paramedics
28. Dr. Sandra Nabachwa - Nsambya Hospital
29. Dr. Kakyama Serubidde - AAR
30. Ms. Esther Kawuma - The Mildmay International Centre
31. Dr. Linda Barlow - MUJHU

- 32. Ms. Tahirih Olinga Wadada - Mulago School of Paramedics
- 33. Ms. Rose Kaggwa - Plan International Uganda
- 34. Dr. Mohammed Lamorde - Infectious Disease Institute
- 35. Dr. Herman Sempewo - St. Francis Nsambya Hospital
- 36. Dr. Rosemary Musiime - School of Public Health
- 37. Mr. Stephen Bogere - CESSRA