

## **Outline of Course Report**

**Name/Title: Data Analysis Workshop Report**

**Place & Course took place: MUJHU II Training Room**

**Days and time: 11<sup>th</sup> - 15<sup>th</sup> April 2011, 8:30am to 5:00pm**

**Course Organizer: Uganda Society for Health Scientists**

**Course Coordinators: Dr. Achilles Katamba & Ms. Evelyn Akello**

**Course Facilitators: Dr. Roy Mayega & Dr. Jayne Byakika-Tusiime**

**General Objective of the Course:**

- To equip participants with knowledge and skills to conduct and interpret quantitative data.

**Course topics:**

- Principles of Data Management
- Bivariate analysis
- Univariate analysis
- Linear regression
- Logistic regression
- Survival analysis
- Basics of SPSS/STATA software

**Participants' expectations:**

1. Learn to compute and interpret chi square values RR & OR.
2. Acquire knowledge and skill of data analysis
3. To be able to analyze my own data and understand interpretation of odds ratio.
4. Come up with final results ready for manuscript writing from my dataset.
5. Data analysis SPSS.
6. How to select relevant information and export it to word.
7. Use of chi-square to get valid statistical information.
8. To learn what is involved in Data Analysis & Data Management
9. To be able to do my own data analysis

## Final evaluation

### Key performance indicators

- 51% of the participants said that the general workshop organisation was very good
- Workshop facilitation was rated between good, very good and excellent.

### Course Evaluations

Sessions	Below Average	Average	Good	Very Good	Excellent
Principles of Data Management			3(15%)	14(70%)	3(15%)
Basics of Data Analysis			7(30.5%)	14(60.9%)	2(8.7%)
- Basics of SPSS/ STATA		1(4.4%)	5(21.8%)	12(52.2%)	5(21.8%)
- Analysis plan					
-Univariable analysis for categorical data. - OR & chi-square		1(6.7%)	2(13.4%)	10(66.7%)	2(13.4%)
Analysis of Continuous Outcome Data- I			2(20%)	6(60%)	2(20%)
Analysis of Continuous Outcome Data- II			3(23.1%)	8(61.6%)	2(15.4%)
-Comparison of means -Scatter plots -Simple linear regression		1(8.4%)	3(25%)	6(50%)	2(16.7%)
-Comparison of means -Scatter plots -Simple linear regression -Interpretation of coefficients		1(12.5%)	1(12.5%)	5(62.5%)	1(12.5%)
Analysis of categorical outcome Data - Confounding & interaction - Stratified analysis		2(13.4%)	1(6.7%)	10(66.7%)	2(13.4%)
Analysis of categorical outcome Data - Simple logistic regression - Multiple logistic regression		2(13.4%)	2(13.4%)	6(40%)	5(33.4%)
Logistic regression		1(6.3%)	2(12.5%)	7(43.8%)	6(37.5%)
Logistic regression			3(30%)	5(50%)	2(20%)
Analysis of Continuous Outcome Data- III		1(4.8%)	1(4.8%)	14(66.7%)	5(23.8%)
Analysis of Continuous Outcome Data- IV			2(8.7%)	18(78.3%)	3(13.1%)
Multiple regression Correlation			4(17.4%)	12(52.2%)	7(30.5%)
-Multiple regression -Correlation -Interpretation of coefficients			4(36.4%)	5(45.5%)	2(18.2%)
Data Analysis of Individual Data sets			2(12.5%)	7(43.8%)	7(43.8%)

### **Comments of the different sessions**

- More time for STATA practical
- More exercise for Analysis of continuous outcome data 1
- More time for practicals, labs and interpretations of results
- More sessions on logistic regressions

### **Suggestions for further improvement**

- Should enroll participants at similar level of knowledge so that expectations for most participants are met.
- Participants should raise if have anything to say other than just shouting, it destructs.
- Increase workshop duration to 2 weeks.
- Need more opportunities for data analysis using different soft wares to consolidate the acquired skills.
- Organise a qualitative data analysis workshop
- The workshop has been enriching in as far as data management is concerned. Iam now confident to make a good presentation of my research

### **General comments**

- Very useful workshop
- It got better every other day, thanks.
- Thank you for organising such a practical and hands on workshop
- Thank you to all the facilitators and organisers of this workshop

**Annex 1: List of Participants**

No	Name	Profession & Place of Work	Email
1	Mr. Ononge Sam	Lecturer, Mak CHS Dept of Obs & Gyn	Ononge2006@yahoo.com
2	Mr. Telesphore Kabore	Save The Children	tkabore@savechildren.org
3	Ms. Nankoberanyi Sheila	Researcher IDRC	nankshila@yahoo.com
4	Mr. Ssetaala Ali	Medical Officer, UVRI-IAVI HIV Vaccine Program	<a href="mailto:assetala@iavi.or.ug">assetala@iavi.or.ug</a>
5	Mr. Fred Baruga Kamanda	Statistician, AIDS Information Centre	Fbaruga20042004@yahoo.com
6	Ms. Kasirye Elizabeth	Nurse, Mulago Hospital	Betiko2007@yahoo.com
7	Ms. Faith R Sebuuba	Lecturer (Nursing) Uganda Christian University	<a href="mailto:sebuubafaith@yahoo.com">sebuubafaith@yahoo.com</a> ,
8	Ms. Elizabeth Namukombe Ekong	Lecturer (Nursing) Uganda Christian University	<a href="mailto:ekongelizabeth@yahoo.com">ekongelizabeth@yahoo.com</a>
9	Ms. Nakate M Grace	Nurse, Mulago Hospital	<a href="mailto:grace_nakate@yahoo.com">grace_nakate@yahoo.com</a> ,
10	Ms. Idah Lukwago	Social Scientist Jersey Medical Centre	<a href="mailto:idahlukwago@gmail.com">idahlukwago@gmail.com</a> ,
11	Mr. Tusiime Wilson	Student, MakCHS	<a href="mailto:wtusiime@musph.ac.ug">wtusiime@musph.ac.ug</a>
12	Dr. Josephine Kasolo	Head, Dept of Physiology MakCHS	jkasolo@chs.mak.ac.ug
13	Dr. Kyambadde Peter	Medical Officer, STD Unit	<a href="mailto:kyambex@yahoo.com">kyambex@yahoo.com</a>
14	Ms. Nakiyaga Doreen Michelle	Data & IT person, NTRL	<a href="mailto:michdoreen@yahoo.com">michdoreen@yahoo.com</a>
15	Ms. Hanifah N. Bukirwa	Student, MakSPH	<a href="mailto:hbukirwa@musph.ac.ug">hbukirwa@musph.ac.ug</a>
16	Dr. Michael Muhame	Senior Health Officer Department of Paediatrics	<a href="mailto:mrugambwa@gmail.com">mrugambwa@gmail.com</a>
17	Dr. Rose Nazziwa	Senior Health Officer Department of Paediatrics	nazziwarousseau@yahoo.com
18	Ms. Annet Nalutaaya	IT Support officer UVRI-IAVI HIV Vaccine Program	analutaaya@iavi.or.ug
19	Dr. Nalubega Patience	Senior Health Officer Department of Paediatrics	nalubegapat@gmail.com
20	Ms. Nanyunja Flavia	Field Officer, Jersey Medical Centre	nanyunjaflavia@gmail.com
21	Mr. Busingye Sistol Hames	Intern, Kampala City Council	bsistalhames@ymail.com
22	Ms. Laker Prisca	Data Entrant, Tumaini Child Health Project IDRC	Prisca_laker@yahoo.com
23	Ms. Maria Kwesiga	CDC/ MUSPH Fellow	mariakwesiga@gmail.com

		Mildmay	
24	Dr. Hanifa N Sengendo	Save the children	<a href="mailto:h.sengendo@savechildren.org">h.sengendo@savechildren.org</a>
25	Dr. Betty Nsangi	Doctor, Baylor Uganda	b.nsangi@baylor-uganda.org
26	Ms. Kyarisiima Gloria	IT person, Cerebral Malaria Project	<a href="mailto:gloriakyarisiima@yahoo.com">gloriakyarisiima@yahoo.com</a>
27	Ms. Wanyana Irene	Data Entrant Cerebral Malaria Project	wanyanairene@gmail.com
28	Dr. Namukanja Phoebe Mayambala	Medical Officer Mild may Uganda	Pmn_namuks@yahoo.com
29	Dr. Namukwaya Josephine	Senior Health Officer Department of Pediatrics	neyajose@yahoo.com
30	Dr. Kakooza Angelina	Department of Pediatrics MakCHS	Angelinakakooza@yahoo.co.uk
31	Dr. Aggrey Dhabangi	Senior Health Officer Department of Pediatrics	adhabangi@yahoo.com
32	Mr. Ssebyala Keron	Administrator, Tumaini Project	kssebyala@yahoo.com
33	Ms. Namurindwa Jane	Counselor, IDI	jnamulindwa@yahoo.co.uk
34	Mr. Ronald Kiguba	Lecturer MUCHS	<a href="mailto:rkguba@chs.mak.ac.ug">rkguba@chs.mak.ac.ug</a>
35	Dr. Ntalo Robert	Medical Doctor	<a href="mailto:ntaloro@yahoo.co.uk">ntaloro@yahoo.co.uk</a>
36	Mr. Ambrose Balikudde	Social worker	<a href="mailto:abalikuddembe@rhsp.org">abalikuddembe@rhsp.org</a>
	<b>Facilitators</b>		
37	Dr. Roy Mayega	Lecturer, MUSPH	rmayega@yahoo.com
38	Dr. Jayne Byakika-Tusiime	Epidemiologist & Biostatistician CDC	tusjayne@hotmail.com
	<b>Organising committee</b>		
39	Ms. Evelyn Akello	USHS board member	eveakello@yahoo.com
40	Dr. Achilles Katamba	USHS board member	akatamba@yahoo.com
41	Ms. Isabella Achokotho	USHS	ugsociety@yahoo.com
42	Mr. Richard Senwewo	USHS	ugsociety@yahoo.com
43	Ms. Cissy Namakula	Mak CHS	

