



IBS Malawi Region Scientific Symposium

Data Science for a Healthier Malawi

24-25 August 2023



Malawi Liverpool Wellcome Programme

DAY 1

24 August 2023

Time	Topic	Chair / speaker	Venue	Allocated time
08:00 - 08:30	REGISTRATION Registration on Khonde area @ MLW	Dr. Halima Twabi & Mary Magoya	Khonde	
08:30 - 10:00	WELCOME & KEYNOTE Welcome address from MLW associate director Welcome address from IBS Malawi Region chairperson Address from MoE guest of honour Address from MoH guest of honour Keynote address	Harold Banda Assoc. Prof. Janelisa Musaya Dr. Tsirizani Kaombe Assoc. Prof. Chomora Mikeka Dr. Collins Mitambo Prof. Samuel Manda	Nyika 2	5min 5min 10min 10min 50+10min
10:00 - 10:30	TEA/COFFEE BREAK & GROUP PHOTO Group photo location to be communicated on the day	Zuze Mateliro & Olive Moya	Khonde	
10:30 - 12:00	Contributed Talks - SESSION 1: multivariate, combined and meta analyses Contr03 Contr04 Contr11 Contr12 Contr13 Contr17	Dr. Halima Twabi Evaristar Kudowa Khadija Ali Saizi Ellen Gondwe Collins Anusa Eneles Mponda Thokozani Kumwenda	Nyika 2	10+5min 10+5min 10+5min 10+5min 10+5min 10+5min
12:00 - 13:00	LUNCH BREAK		Khonde	
13:00 - 15:00	Contributed Talks - SESSION 2: Methodological and computational biostatistics Contr06 Contr07 Contr08 Contr09 Contr10 Contr05	Prof. Samuel Manda Dr. Halima Twabi Dr. James Chirombo Dr. Tsirizani Kaombe Potiphar Damiano Vester Gunsaru Dr. Marc Henrion	Nyika 2	10+5min 10+5min 10+5min 10+5min 10+5min 10+5min
15:00 - 16:00	NETWORKING		Khonde	
16:00	CLOSE OF PROGRAMME			

DAY 2

25 August 2023

Time	Venue	Chair / speaker	Venue	Allocated time
08:00 - 08:30	REGISTRATION (for those not registered on Day 1) Registration on Khonde area @ MLW	Dr. Halima Twabi & Mary Magoya	Khonde	
08:30 - 10:00	Contributed Talks - SESSION 3: Time-to-event models Inv02: Plenary talk Contr02	Dr. Tsirizani Kaombe Prof. Samuel Manda Chikumutso Wasela	Nyika 2	50+10min 10+5min
10:00 - 10:30	TEA/COFFEE BREAK		Khonde	
10:30 - 12:00	Contributed Talks - SESSION 4: Epidemiological statistics Contr14 Contr15 Contr16 Contr21 Contr22 Contr19	Dr. James Chirombo Jeremot Masoambeta Mary Magoya Emily Phiri Harid Nkhoma Gracious A. Hamuza Dr. Owen Mtambo	Nyika 2	10+5min 10+5min 10+5min 10+5min 10+5min 10+5min
12:00 - 13:00	LUNCH BREAK		Khonde	
13:00 - 14:15	Contributed Talks - SESSION 5: Agricultural and financial biostatistics Contr20 Contr18	Mary Magoya Khumbo Bula John Mutepuwa	Nyika 2	10+5min 10+5min
14:15 - 14:30	TEA/COFFEE BREAK		Khonde	
14:30 - 15:45	Workshop - Open Science Workshop - Open Science This will use R. Please bring laptops and install R and RStudio before the workshop.	Dr. Marc Henrion / Dr. James Chirombo	Nyika 2	75min
15:45 - 16:00	CLOSE OUT Closing remarks from IBS Malawi Region chairperson	Dr. Halima Twabi Dr. Tsirizani Kaombe	Nyika 2	10min
16:00	CLOSE OF PROGRAMME			

Color coding

	Admin
	Scientific programme
	Breaks
	Close of programme

Rapporteur:

Harold Banda

Abstract ID	Presenter	Topic	Session
Inv01	Prof. Samuel Manda	Keynote: Challenges in Estimating Population Health Status from Health Survey Data to Support Public Health Policy in Sub-Saharan Africa	Keynote
Inv02	Prof. Samuel Manda	Plenary: Advanced Topics in Interval Censored Survival Data Analysis	Session3
Contr02	Chikumbutso Wasela	Influence of clustered women on birth interval analysis in Malawi: Application of Bayesian's Kullback-Leibler and Cox's partial likelihood diagnostics.	Session3
Contr03	Evaristar Kudowa	Integrative data analysis for pneumococcal studies: a case study combining data from malawi and liverpool.	Session1
Contr04	Khadija Ali Saizi	Women's modern contraceptives use in sub-Sahara Africa: A systematic review.	Session1
Contr05	Dr. Marc Henrion	Valid confidence intervals for combinations of independently estimated parameter estimates using the parametric bootstrap: applications to relevant problems for sub-Saharan Africa.	Session2
Contr06	Dr. Halima Twabi	Derivation of a multivariate longitudinal causal effects model.	Session2
Contr07	Dr. James Chirombo	Statistical inference techniques for analysing data from non-probability chain referral designs in epidemiological studies.	Session2
Contr08	Dr. Tsirizani Kaombe	Impact of ignoring sampling design in the prediction of binary health outcomes through logistic regression: Evidence from Malawi demographic and health survey under-five mortality data; 2004-2016.	Session2
Contr09	Potiphar Damiano	Topics in model fitting statistics: A focus on robust regression and model diagnostic statistics with application to maternal anaemia data in Malawi.	Session2
Contr10	Vester Gunsaru	Multiple Imputation of Zero-Inflated and Count Data from a Cluster Randomized Trial: a comparative analysis.	Session2
Contr11	Ellen Gondwe	Access to Health Facility and Frequency of Antenatal Care Visits in Malawi using Bivariate Copula Regression Modelling.	Session1
Contr12	Collins Anusa	Washing Hands with Soap at Critical times amongst Child Caregivers in Chikwawa, Malawi: A Bivariate Multilevel Analysis.	Session1
Contr13	Eneles Mponda	Determinants of female schooling and fertility in Malawi: An application of bivariate Poisson regression model.	Session1
Contr14	Jeremot Masoambeta	Predictive mapping of child anaemia hotspots in Malawi: Evidence from 2015-16 Demographic and Health Survey.	Session4
Contr15	Mary Magoya	The determinants of long-term follow-up outcomes of patients with sepsis: a secondary analysis of african research collaboration on sepsis (arcs) programme data.	Session4
Contr16	Emily Phiri	Similarities in the risk profiles of childhood stunting, wasting and underweight in Malawi.	Session4
Contr17	Thokozani Kumwenda	Using a Bayesian network model to explore the relative importance of various drivers of malaria in Nkhotakota.	Session1
Contr18	John Mutepuwa	An optimal investment consumption model for retirees with no health insurance.	Session5
Contr19	Dr. Owen Mtambo	Analysis of childhood overweight and obesity in Namibia using spatio-temporal quantile interval models	Session4
Contr20	Khumbo Bula	Relationship Test Using Linear Regression Models Applied to Check the True Impact of Agriculture on Poverty Reduction.	Session5
Contr21	Harrid Nkhoma	Application Of Hierarchical Models In The Analysis of Antenatal Care Visits Among Women From Dowa District In Malawi.	Session4
Contr22	Gracious A. Hamuza	Application of grouped outlier and spatial statistics to identify villages having unusual health seeking behaviour for childhood Malaria in Malawi	Session4