

Beyond the Bite: Elucidating essential Epidemiological and Statistical concepts.

Time	Topic	Facilitator
<b>Day 1 – 4<sup>th</sup> December 2023</b>		
8:30 – 9:00	Registration + Welcome address	Dr George Oluoch/Director General IPR
9:00 – 9:20 am	History of data and its use in health research	Dr Frank Tianyi
9:20 – 9:50 am	Introduction to epidemiology for statistics	Prof Sarah Lewington
9:50 – 10:10am	Tea break	
10:10 – 11am	Study designs	Prof Ymkje Stienstra
11 – 12pm	Data types and variables	Dr Frank Tianyi
12 – 1pm	Lunch break	
1 – 1:50pm	Common epidemiological measures/terms	Dr Frank Tianyi
2 – 3pm	Principles of Measurement	Dr Jennifer Carter
3 – 3:30pm	Tea break	
3:30 – 5pm	Practical study design exercise	Dr Frank Tianyi
<b>Day 2 – 5<sup>th</sup> December 2023</b>		
8:30 – 9 am	Types of research outcomes	Dr Frank Tianyi
9 – 9:45 am	Hypothesis testing & p-values/ Sampling, Sample size and Power	Dr Jennifer Carter
9:45 – 10am	Tea break	
10 – 11am	Correlation vs Association vs Causal Relationships	Dr Frank Tianyi
11am – 12pm	Bias, Chance, Confounding	Dr Jennifer Carter
12 – 1pm	Lunch break	
1pm – 3pm	Summarising and displaying data	Dr Frank Tianyi
3 – 3:30pm	Tea break	
3:30 – 5pm	Open-source data	Dr Frank Tianyi
<b>Day 3 – 6<sup>th</sup> December 2023</b>		
8:30 – 10am	Case Study – Integrating snakebite surveillance with MDA activities in Kenya	Dr George Oluoch
10 – 10:30am	Tea break	
10:30 – 12pm	Statistical analysis process	Agnes Matope
12pm – 1pm	Lunch break	
1pm – 3pm	Data analysis – tutorial using Stata/ SPSS/ R	Dr Frank Tianyi
3 – 3:30	Tea break	
3pm – 5pm	Data analysis – tutorial using Stata/ SPSS/ R	Dr Frank Tianyi