UNIVERSITY OF NAIROBI
SCHOOL OF PUBLIC HEALTH

MBChB LEVEL II SEMESTER 1 2017/18

BIOSTATISTICS & EPIDEMIOLOGY TIMETABLE (HCH 200)

WEEK 1: REGISTRATION

WEEKS 2 – 15: 4th December 2017 – 23rd March 2018

DATE	TIME	TOPIC	LECTURER
11th December 2017	2:00pm – 5:00pm	Introduction to Biostatistics • Definitions, types of data • Descriptive statistics for quantitative & qualitative variables: ✓ Measures of central tendency ✓ Measures of dispersion (including coefficient of variation, percentiles and quartiles) ✓ Data presentation (frequency distribution, histogram, scatter plot, Box and Whisker plot)	**Mr. Njeru**
18th December 2017	2:00pm – 5:00pm	Introduction to Epidemiology • Definitions, concepts & uses of Epidemiology • Sources of epidemiologic data • Natural history of disease ✓ Importance & stages • Disease determinants ✓ Definition, classifications • Disease prevention & control ✓ Purpose, levels: Primary, Secondary, Tertiary	**Mr. Nyabola**
8th January 2018	2:00pm – 5:00pm	Introduction to Biostatistics **Cont'd** • Definitions, types of data • Descriptive statistics for quantitative & qualitative variables: ✓ Measures of central tendency ✓ Measures of dispersion (including coefficient of variation, percentiles and quartiles) ✓ Data presentation (frequency distribution, histogram, scatter plot, Box and Whisker plot)	**Mr. Njeru**
15th January 2018	2:00pm – 5:00pm	Measures of disease Frequency & Association Frequency measures	**Dr. Mweu**

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		• Count, proportion, odds, rate • Incidence risk & rate • Prevalence • Relationship between incidence & prevalence • Other measures of disease frequency ✓ Case fatality rate, cause-specific mortality rate, proportional morbidity/mortality •	
22nd January 2018		Measures of Association • Measures of association (Incidence risk/rate ratio {Relative risk}, Odds ratio • Measures of effect in the exposed group (Attributable risk, Attributable fraction)	**Dr. Mweu**
29th January 2018	2:00pm – 5:00pm	Probability distributions • Introduction to Probability ✓ Mutually exclusive events ✓ Independent events • Probability distributions ✓ Normal/Gaussian ✓ Binomial ✓ Poisson	**Dr. Mweu**
5th February 2018	2:00pm – 5:00pm	Epidemiological study designs • Cross sectional studies • Case control studies	**Mr. Nyabola**
12th February 2018	2:00pm – 5:00pm	Inferential statistics • Sampling variability of a mean • Sampling variability of a proportion • Decision errors (Type I & II)	**Mr. Njeru**
19th February 2018	2:00pm – 5:00pm	Epidemiological study designs **Cont'd** • Cohort studies • Intervention studies	**Mr. Nyabola**
26th February 2018	2:00pm – 5:00pm	Comparing two means and two proportions • Confidence intervals • Hypothesis testing • Paired-t-test for paired data	**Dr. Mweu**
5th March 2018	2:00pm – 5:00pm	Sampling • Non-probability sampling (convenience, judgment, purposive) • Probability sampling (Simple random, Systematic random, Stratified random, multistage	**Mr. Njeru**
12th March 2018	2:00pm –	Association between two categorical	

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	5:00pm	variables • Chi-square test • Fisher's exact test	**Mr. Njeru**
19th March 2018	2:00pm – 5:00pm	Screening & Diagnostic tests • Definitions • Disease eligibility for screening • Accuracy, precision & agreement • True and apparent prevalences • Predictive values • Receiver operating characteristic curves	**Mr. Nyabola**