



University of Pretoria Yearbook 2021

Epidemiology 1 751 (HME 751)

Qualification	Postgraduate
Faculty	Faculty of Health Sciences
Module credits	15.00
NQF Level	08
Programmes	BScHons Epidemiology and Biostatistics
Prerequisites	PHM 773
Contact time	2 weeks
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

Module content

To learn to “think epidemiologically”. The principles of epidemiology including applied epidemiology. The use of EpiData software for questionnaire design, data capturing and data cleaning. Rates ratios and proportions; Basic study designs used in epidemiology (include cross-sectional, cohort, case-control, ecological, randomised controlled trials. Also sub-groups such as Matched case control, Historical cohort, Nested Case Control). Concepts such as validity, repeatability, confounding, effect modification; Sources and types of bias; sampling methods, probabilistic and non-probabilistic; stratified and cluster sampling; designing questionnaires and questionnaire items; calculating odds ratios, relative proportions relative risks and incidence rate ratios and the correct interpretation of these. infectious disease epidemiology (host/agent/environment model, R0, attack rates, outbreak investigations). Clinical epidemiology (sensitivity specificity predictive values). Operational research principles.

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