



University of Pretoria Yearbook 2020

Introduction to research methodology 710 (HME 710)

Qualification	UPOnline
Faculty	Faculty of Health Sciences
Module credits	10.00
Programmes	PGDip in Public Health (UPOnline)
Prerequisites	PHM 710
Contact time	Fully online
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	UPOnline Short Intake

Module content

To learn to “think epidemiologically”. The principles of epidemiology including applied epidemiology. The use of EpiData software for questionnaire design and data collection. Rates ratios and proportions; Basic study designs used in epidemiology (include cross-sectional, cohort, case-control, ecological, RCTs. Also sub-groups such as MCC, Historical cohort, Nested C-C). 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. ID epi (host/agent/environment model, R0, attack rates, outbreak investigations). Clinical epidemiology (sensitivity specificity predictive values). Operational research basic principles only.

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