

# University of Pretoria Yearbook 2022

## Epidemiology 1 751 (HME 751)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Health Sciences</a>
<b>Module credits</b>	15.00
<b>NQF Level</b>	08
<b>Programmes</b>	<a href="#">BScHons (Epidemiology and Biostatistics)</a>
<b>Prerequisites</b>	PHM 773
<b>Contact time</b>	2 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	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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