

# University of Pretoria Yearbook 2020

## Introduction to research methodology 710 (HME 710)

<b>Qualification</b>	UPOnline
<b>Faculty</b>	<a href="#">Faculty of Health Sciences</a>
<b>Module credits</b>	10.00
<b>Programmes</b>	<a href="#">PGDip in Public Health (UPOnline)</a>
<b>Prerequisites</b>	PHM 710
<b>Contact time</b>	Fully online
<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>	UPOnline Short Intake 1 - 6

### 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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