

University of Pretoria Yearbook 2020

Environmental epidemiology 870 (EOM 870)

Qualification Postgraduate

Faculty [Faculty of Health Sciences](#)

Module credits 10.00

Prerequisites HME 870, BOS 870

Contact time 1 practical per week, 16 lectures per week, 4 discussion classes per week, 4 seminars per week

Language of tuition Module is presented in English

Department School of Health System and Public Health

Period of presentation Year

Module content

This module is an introduction of the various types of epidemiological study designs that are applied in the investigation of the association between environmental exposures and health outcomes. Apart from the classical epidemiological study designs (cross-sectional, case-control and cohort designs that are introduced in HME 870), other study designs such as the time-series, case-crossover, panel, spatial, genetic and molecular study designs are introduced and discussed. The statistical techniques that are applied in the time-series, case-crossover, panel, spatial, genetic and molecular study designs are discussed as well as the implication of random and systematic errors in exposure/health assessment on the measures of associations; hence a basic biostatistics vocabulary (introduced in BOS 870) is required.

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