

Extended Epidemiology (Elective)

Credit Value:	10
Course Organiser:	Dr Igor Rudan
Course Instructor(s):	Dr Igor Rudan
Time:	Semester 2 Weeks 1-5 Tuesday & Friday 11:10-13:00
Short course description:	The course reviews issues in epidemiological study design, analysis and interpretation including standardisation, effect modification, measurement error, regression dilution bias, limitations of routine data, power and sample size, scales and the role of multi-variable analyses in epidemiology, with references to specific study designs (e.g. migrant studies, twin studies, life course epidemiology) and disease areas (cancer, cardiovascular disease, communicable disease) and the epidemiologic transition.
Course prerequisites:	Introduction to Epidemiology Introduction to Research Ethics Introduction to Qualitative Research Introduction to Statistics & Critical Appraisal or Statistics & Analysis
Aim:	To provide an opportunity for students to extend their knowledge and understanding of design, analysis and interpretation of epidemiological studies in the context of public health research.
Learning objectives:	<ul style="list-style-type: none">• Knowledge of how to identify the appropriate study design to answer a public health research question.• Understanding of the concepts of epidemiological study design and analysis. The skills to critically appraise epidemiological studies.
Teaching methods:	The course will consist of lectures and practical sessions.
Assessment:	An assignment in the form of a critical appraisal of the design, analysis and interpretation of an epidemiological study and a study design exercise will be used for the assessment.