



University of Minho
School of Medicine

EPIDEMIOLOGY

November 25 - December 19, 2024 ::: 8th Edition

Module 1: Epidemiology and Clinical Research (EPIC)

Day	Start	End	Theme
25/11/2024	09:00	09:30	Presentation of learning objectives and teaching staff
	09:30	10:30	Introduction to epidemiology research and historic examples
	11:00	13:00	Study designs in Epidemiology
	14:30	15:30	Research protocol methodology
	15:30	17:00	Measures of disease frequency
26/11/2024	09:00	10:00	Introduction to Biostatistics
	10:00	11:30	Estimation theory and estimation parameters
	12:00	13:00	Exercises - Biostatistics
	14:30	16:00	Hypothesis testing
	16:30	18:00	T-Student and ANOVA
27/11/2024	09:00	10:30	Measures of association and impact
	11:00	13:00	Error, confounding and interaction
	14:30	16:00	Pearson correlation coefficient
	16:30	18:30	Introduction to linear regression analysis
28/11/2024	09:00	10:30	Ethics and clinical research
	11:00	12:00	Ethic committees
29/11/2024	09:00	10:30	Causal inference
	11:00	12:30	Exercises - Epidemiology
02/12/2024	09:00	10:45	Clinical trials
	11:15	12:30	Introduction to survival analysis
	14:00	15:45	Multiple linear regression analysis
	16:15	18:00	Logistic regression analysis
03/12/2024	09:00	10:45	Sensibility, specificity and predictive values
	11:15	13:00	Screening and preventive measures
	14:30	16:00	Validity and reliability of diagnostic and screening tests
04/12/2024	09:00	10:45	ROC curves + Exercises
	11:15	13:00	Kaplan-Meier analysis
	14:30	16:00	Cox-regression analysis

Module 2: Evidence-Based Practice (EBP)

Day	Start	End	Theme
05/12/2024	09:00	10:00	Introduction to bibliographic reviews
	10:30	12:30	Databases and searching commands
05/12/2024	09:00	10:45	Systematic reviews
	11:15	13:00	Meta-analysis
	14:30	16:30	Exercises

Module 3: Global Health and Health Systems (GHHS)

Day	Start	End	Theme
09/12/2024	09:00	10:30	Introduction to Global Health
09/12/2024	11:00	13:00	Burden of Disease
09/12/2024	14:30	15:30	Epidemiological Research and Health Services
09/12/2024	16:00	18:00	Health Care Systems – Basic Models
10/12/2024	09:00	10:30	Social determinants of health
10/12/2024	11:00	13:00	Demographic transition
11/12/2024	09:00	10:00	Cancer
11/12/2024	10:00	11:00	Principles of pharmacoeconomic analysis
11/12/2024	11:30	13:00	Genetic Epidemiology
11/12/2024	14:30	15:30	Mental health
11/12/2024	15:30	16:30	Respiratory diseases
12/12/2024	09:00	10:30	Cardiovascular diseases
12/12/2024	11:00	13:00	Epidemiology and Nutrition
13/12/2024	09:00	10:30	Epidemiology Infectious diseases
13/12/2024	11:00	13:00	SARS-COV-2
13/12/2024	14:30	16:00	Tuberculosis
16/12/2024	09:00	10:30	Hepatitis
16/12/2024	11:00	13:00	HIV/AIDS
16/12/2024	14:30	18:30	Intervention Epidemiology - Crash Course

Evaluation

Day	Start	End	Theme
18/12/2024	09:00	12:00	Presentation of research protocols
19/12/2024	10:00	12:00	Final exam