

Module Title	Research Methodology in Family Medicine				
Module Code	FMED-590				
Module Type	Required				
Level	2 nd Cycle				
Year / Semester	2 / 3				
Teacher's Name	Dr Christiana Demetriou Dr Alexandros Heraclides Dr Costas Constantinou Dr Neophytos Stylianou				
ECTS Credits	7.5	Lectures	13	Interactive learning activities	16
Module Purpose and Objectives	<p>The main objectives of the module are to:</p> <ul style="list-style-type: none"> Assess the needs for conducting a research study in the context of Primary Care and generate relevant and testable research questions. Systematically search for evidence in the literature using the appropriate search engines and databases (e.g. PubMed Health, Cochrane Library) and critically evaluate the existing literature, identifying gaps in knowledge on topics relevant to Primary Care. Conduct quantitative (epidemiological) research, by choosing the most appropriate study design (observational or interventional), applying a suitable sampling method, performing accurate variable assessment, applying the right data analysis technique and generating and presenting results appropriately, as well as deriving relevant conclusions. Design qualitative research studies, involving participant observations, individual interviews, and focus groups for answering a research question in the context of Primary Care. Write up a complete research proposal and prepare a grant application for funding in national and international funding bodies. 				
Learning Outcomes	<p>After completion of the module students are expected to be able to:</p> <ul style="list-style-type: none"> Identify and examine issues compromising primary care and assess the needs for conducting a research study to address these. Generate relevant and testable research questions in the context of Primary Care. Systematically search for evidence using the appropriate search engines and databases (e.g. PubMed Health, Cochrane Library). Critically evaluate the existing literature and identify and examine gaps in knowledge on topics relevant to Primary Care. Choose the most appropriate study design for answering specific research questions relevant to Primary Care. Design quantitative observational research studies for answering a research question in the context of Primary Care. Design quantitative interventional research studies for answering a research question in the context of Primary Care. Estimate sample size requirements by performing study power analysis. Choose the most appropriate sampling method for a given research scenario relevant to Primary Care. 				

	<ul style="list-style-type: none"> • Perform accurate variable assessment for a given research scenario relevant to Primary Care. • Choose the right data analysis technique for a given research scenario relevant to Primary Care. • Perform statistical analysis and generate appropriate results for a given research scenario relevant to Primary Care. • Present study results appropriately for a given research scenario relevant to Primary Care. • Derive conclusions based on study findings. • Demonstrate deep understanding and apply the major methodologies involved in qualitative research, relevant to social and behavioural sciences in the context of Primary Care. • Design qualitative research studies involving participant observations for answering a research question in the context of Primary Care. • Design qualitative research studies involving individual interviews for answering a research question in the context of Primary Care. • Design qualitative research studies involving focus groups for answering a research question in the context of Primary Care. • Write up a complete research proposal and prepare a grant application for funding in national and international funding bodies. 				
Prerequisites	None	Required	None		
Module Content	<ul style="list-style-type: none"> • Assessing needs for conducting a research study relevant to Primary Care. • Generating research questions and systematically searching and critically evaluating the existing literature • Designing the appropriate quantitative study for answering a research question I: observational research • Designing the appropriate quantitative study for answering a research question II: interventional research • Estimating sample size requirements (power analysis) • Quantitative study conduct I: Choosing the most appropriate sampling method • Quantitative study conduct II: Performing accurate variable assessment • Quantitative Study conduct III: Choosing the right statistical technique and performing analysis • Quantitative study conduct IV: Results presentation and deriving conclusions in quantitative research • Writing up a research proposal and applying for funding • Design and analysis in qualitative research 				
Teaching Methodology	This programme is delivered via distance learning (online) and includes recorded lectures, interactive online tutorials (Webinars) and discussion forums, as well as online exercises and other activities.				
Bibliography	Required Textbooks / Reading:				
	Title	Author(s)	Publisher	Year	ISBN

	Concepts of Epidemiology: Integrating the ideas, theories, principles, and methods of epidemiology (3 ed.)	Raj S. Bhopal	Oxford University Press	2016	978-0198739685
	Epidemiology in Medicine 1st Edition	Hennekens (Author), Julie E. by Charles H. Buring (Author),	Sherry L. Mayrent (Editor)	1987	978-0316356367
	Recommended Textbooks / Reading:				
	Title	Author(s)	Publisher	Year	ISBN
Mastering Public Health: A Postgraduate Guide to Examinations and Revalidation, (2 nd ed.)	Lewis G, Sheringham J, Bernal JL, Crayford T	CRC Press	2014	978-1444152692	
Research methods in community medicine: surveys, epidemiological research, programme evaluation, clinical trials	Abramson, J. H.	Wiley	2008	978-0470986615	
Research Methods in Health: Investigating	Ann Bowling	Open University Press	2009	978-0335233649	

	Health and Health Services				
	Doing a Systematic Review: A Student's Guide (1 st ed.)	Boland A, M, Cherry G, Dickson R.	SAGE Publications Ltd	2013	978-1446269688
	Cochrane Handbook for Systematic Reviews of Interventions (Ver. 5.1.0)	Higgins JPT, Green S.	The Cochrane Collaboration	2011	978-0470699515
	Introduction to Meta-Analysis (1 st ed.)	Borenstein M, Larry V. Hedges LV, Higgins JPT, Rothstein HR	Wiley	2009	978-0470057247
	Qualitative Methods in Public Health: A Field Guide for Applied Research (2 nd ed.)	Tolley EE, Ulin PR, Mack N, Robinson ET, Elizabeth T. Robinson, Succop SM	Jossey-Bass	2016	978-1118834503
Assessment	• Research proposal				
Language	English				