

Module Title	Prevention, Epidemiology and Health Promotion				
Module Code	FMED-512				
Module Type	Elective				
Level	2 <sup>nd</sup> Cycle				
Year / Semester	2 / 3				
Teacher's Name	Dr Maria Cecilia Mosquera				
ECTS Credits	4	Lectures	8	Interactive learning activities	4
Module Purpose and Objectives	<p>The main objectives of the module are to:</p> <ul style="list-style-type: none"> <li>• Introduce students to the importance and value of epidemiology and public health in clinical medicine.</li> <li>• Identify the health needs of a population.</li> <li>• Describe primary, secondary and tertiary prevention.</li> <li>• Describe the use and types of surveillance systems.</li> <li>• Outline and examine the steps involved in outbreak investigations.</li> <li>• Design an evaluation of any public health programme or intervention, describing structural, process and outcome indicators.</li> </ul>				
Learning Outcomes	<p>After completion of the module students are expected to be able to:</p> <ul style="list-style-type: none"> <li>• Discuss the importance and value of epidemiology and public health in clinical medicine.</li> <li>• Describe the use and process of health needs assessments.</li> <li>• Identify sources of knowledge and intelligence to inform health needs assessments.</li> <li>• Conduct stakeholder analysis and describe the process of stakeholder consultation.</li> <li>• Describe disability-adjusted life years (DALYs).</li> <li>• Define and compare direct and indirect standardisation.</li> <li>• Describe and interpret standardised mortality ratios.</li> <li>• Describe the principles and practice of health promotion and primary prevention, including behaviour change, lifestyle and culinary medicine, community development, the Ottawa Charter and health in all policies and sectors.</li> <li>• Describe the principles and practise secondary (e.g., screening) and tertiary (e.g., cardiovascular rehabilitation, environmental interventions for asthma, and the role of digital health and group consultations).</li> <li>• Describe the use and types of surveillance systems.</li> <li>• Outline and examine the steps involved in outbreak investigations.</li> <li>• List categories and examples of questions that should be asked of key informants who report a suspected outbreak of foodborne disease.</li> <li>• List criteria for prioritising the investigation of suspected foodborne disease outbreaks.</li> <li>• Determine the most efficient epidemiologic study design to generate and test a hypothesis (including the case definition and the appropriate comparison group).</li> </ul>				

	<ul style="list-style-type: none"> <li>Describe the advantages and disadvantages of different forms of questionnaire administration e.g., self-administered, telephone, in-person.</li> <li>Name and describe the criteria required to provide evidence of causation.</li> <li>Design an evaluation of your intervention, describing structural, process and outcome indicators.</li> </ul>																											
Prerequisites	None	Required	None																									
Module Content	<ul style="list-style-type: none"> <li>Introduction to public health medicine</li> <li>Identifying the health needs of a population</li> <li>Levels of prevention</li> <li>Health protection: surveillance and outbreak investigation</li> <li>Programme evaluation</li> </ul>																											
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	<p><b>Recommended Textbooks / Reading:</b></p> <table border="1"> <thead> <tr> <th>Title</th> <th>Author(s)</th> <th>Publisher</th> <th>Year</th> <th>ISBN</th> </tr> </thead> <tbody> <tr> <td>Jekel's Epidemiology, Biostatistics, Preventive Medicine and Public Health</td> <td>David L. Katz, Joann G. Elmore, Dorothea Wild, Sean C Lucan</td> <td>Saunders; 4 edition</td> <td>2014</td> <td>978-1455706587</td> </tr> <tr> <td>Mastering Public Health: A Postgraduate Guide to Examinations and Revalidation</td> <td>Geraint Lewis, Jessica Sheringham, Jamie Lopez Bernal, Tim Crayford</td> <td>CRC Press; 2 edition</td> <td>2014</td> <td>978-1444152692</td> </tr> <tr> <td>Basic Epidemiology</td> <td>R. Bonita</td> <td>World Health Organization; 2 edition</td> <td>2006</td> <td>978-9241547079</td> </tr> <tr> <td>Practising Public Health: A Guide to Examinations and Workplace Application</td> <td>Adam D M Briggs, Paul A Fisher, Rob F Cooper</td> <td>CRC Press; 1 edition</td> <td>2016</td> <td>978-1138429352</td> </tr> </tbody> </table>			Title	Author(s)	Publisher	Year	ISBN	Jekel's Epidemiology, Biostatistics, Preventive Medicine and Public Health	David L. Katz, Joann G. Elmore, Dorothea Wild, Sean C Lucan	Saunders; 4 edition	2014	978-1455706587	Mastering Public Health: A Postgraduate Guide to Examinations and Revalidation	Geraint Lewis, Jessica Sheringham, Jamie Lopez Bernal, Tim Crayford	CRC Press; 2 edition	2014	978-1444152692	Basic Epidemiology	R. Bonita	World Health Organization; 2 edition	2006	978-9241547079	Practising Public Health: A Guide to Examinations and Workplace Application	Adam D M Briggs, Paul A Fisher, Rob F Cooper	CRC Press; 1 edition	2016	978-1138429352
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	Foundations for Health Promotion	Jennie Naidoo, Jane Wills	Elsevier; 4 edition	2016	978-0702054426
	Health Promotion: Planning & Strategies	Jackie Green, Keith Tones, Ruth Cross, James Woodall	SAGE Publications Ltd; Third edition	2015	978-1446294000
	Health Protection Principles and Practice	Samuel Ghebrehewet, Alex G. Stewart, David Baxter, Paul Shears, David Conrad, Merav Kliner	Oxford University Press; 1 edition	2016	978-0198745471
	Sick Societies: responding to the Global Challenge of Chronic Disease	David Stuckler, Karen Siegel	Oxford University Press, USA; 1 edition	2011	978-0199574407
Assessment	<ul style="list-style-type: none"> <li>• Written assignment (summative)</li> </ul>				
Language	English				