COURSE INFORMATON					
Course Title	Code	Semester	L+P+L Hour	Credits	ECTS
Public Health	MED409	Phase 4/7-8	11	2	2*

^{*} ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

Prerequisites The student that joins this course, should completed Phase 1, 2 and 3 courses of medical faculty.

Language of Instruction	English
Course Level	Second Cycle including First Cycle Degree (One Tier Programme)
Course Type	Compulsory
Course Coordin	ator Hale Arık Taşyıkan, MD. Assist. Prof.
Instructors	Hale Arık Taşyıkan, MD. Assist. Prof.
Assistants	-
Goals	To understand the nature of the preventive, curative, and promotive health care services as part of the primary health care system of the country and learn how to manage health and disease within natural settlements of the individuals.
Content	Principles of preventive and promotive medicine, healthcare delivery systems and facilities, comparison of the primary health care systems across countries, types and methods of epidemiological studies, biostatistical methods, meaning and importance of the health information systems for assessment of the public health status, social, cultural and economic determinants of health and diseases

Learr	ning Outcomes	Programme Learning Outcomes	Teaching Methods	Assessment Methods
	e end of this clerkship, the student d be able to;			
1.	Define the steps to evidence based medicine	1.1.8., 1.1.9.	1,2	A,B
2.	Define a clinical question in pico format from a patient scenario	1.1.8., 1.1.9.	1,2	A,B
3.	Identify main databases necessary for evidence based medicine	1.1.9.	1,2	A,B

 Explain research methods and hierarchy among methods for producing evidence 	1.5.1	1,2	A,B
5. Define the types of clinical questions	1.1.8., 1.1.9.	1,2	A,B
Identify clinical evidence using clinical query database	1.1.9.	1,2	А,В
Explain common study designs and identify the major strengths and limitation of each.	1.5.1	1,2	А,В
8. Define which study designs are best for answering clinical questions related to therapy/prevention.	1.5.1	1,2	А,В
9. Define therapy/prevention	1.1.1., 1.1.10	1,2	А,В
10. Assess study for validity	1.5.1.	1,2	А,В
 Derive number needed to treat (nnt), number needed to harm (nnh) 	1.5.1.	1,2	А,В
12. Apply therapy evidence to patients	1.1.2.	1,2	A,B
13. Define bias in epidemiologic studies	1.5.1.	1,2	A,B
14. Assess study for validity	1.5.1.	1,2	A,B
15. Derive sensitivity, specificity, positive predictive value, negative predictive value, and likelihood ratios.	1.5.1.	1,2	A,B
16. Apply diagnostic evidence to patients	1.1.2., 1.1.8., 1.1.9.	1,2	A,B
17. Summarize diagnostic evidence in written report	1.2.2.	1,2	А,В

18. Summarize diagnostic evidence verbally to colleagues	1.1.8., 1.2.2.	1,2	A,B
19. Summarize and interpret diagnostic evidence for a patient in terms he/she will understand	1.2.1.	1,2	A,B
20. Identify common pitfalls to communicating evidence to patients	1.2.1	1,2	A,B
21. Describe the steps to communicating evidence to patients	1.2.1	1,2	A,B
22. Advocate and use the evidence based medicine approach	1.1.8., 1.1.9.	1,2	A,B

Teaching Methods:	1: Lecture, 2: Individual discussion sessions with the instructor
Assessment Methods:	A: Presentation of a project B: Participation to the interactive lectures

COURSE CONTENT				
Week I Topics	Study Materials			
Study Materials				
Introduction to EBM	Materials will be provided by the instructor			
Structured group presentations and discussions	Materials will be provided by the instructor			
Discussion: An EBM Story I	Materials will be provided by the instructor			
Epidemiologic Research Types and Basic Concepts I-II	Materials will be provided by the instructor			
Discussion: An EBM Story II	Materials will be provided by the instructor			
Evaluation of Screening Tests	Materials will be provided by the instructor			
Confounding Factor, Bias and Types of Bias	Materials will be provided by the instructor			
Discussion: An EBM Story III	Materials will be provided by the instructor			

RECOMMENDED

	SOURCES
Textbook	 Glasziou P, Del Mar C, Salisbury J. Evidence-based Practice Workbook. BMJ Books, Blackwell Publishing, 2007. Mayer D. Essential Evidence-based Medicine. Second Edition 2010. Cambridge University Press.
Additional Resources	Lecture notes

ASSESSMENT				
IN-TERM STUDIES	NUMBER	PERCENTAGE		
Evaluation of EBM homework (with a checklist)	1	50		
Evaluation of group presentations and discussions (with a checklist)	1	40		
Participation to sessions	7	10		
Total		100		

	MATERIAL SHARING
Documents	Photocopy shareable.
Assignments	Shareable

COURSE'S CONTRIBUTION TO PROGRAM							
	PODG.1. Basic Professional Competencies			Contribution			
	POD.1.1. Clinical Competencies	1	2	3	4	5	
PO.1.1.1.	values preventive health services, offers primary prevention (i.e. prevention of diseases for the protection of health), secondary prevention (i.e. early diagnosis and treatment) tertiary prevention (i.e. rehabilitation) and quaternary prevention (i.e. prevention of excessive and unnecessary diagnosis and treatment) services, provides consultancy on these issues.			X			
PO.1.1.2.	employs a patient-centered approach in patient management.				X		
PO.1.1.3.	recognizes most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.			X			
PO.1.1.4.	takes medical history from the applicant himself/herself or from the individual's companions.						
PO.1.1.5.	does general and focused physical and mental examination.						
PO.1.1.6.	interprets findings in medical history, physical and mental examination.						
PO.1.1.7.	employs diagnostic procedures that are used frequently at the primary health care level.						

PO.1.1.8.				
	selects tests that have evidence-based high efficacy at			X
70 1 1 5	the primary health care level and <i>interprets</i> results.	+		
PO.1.1.9.	makes clinical decisions using evidence-based systematic			X
PO.1.1.10.	data in health care service. performs medical interventional procedures that are used	+		
PO.1.1.10.	frequently at the primary health care level.	X		
PO.1.1.11.	manages healthy individuals and patients in the context			
. 0.11.1111	of health care services.			
PO.1.1.12.	keeps medical records in health care provision and uses			
	information systems to that aim.			
	POD.1.2. Competencies related to Communication			
DO 1 2 1	the course and the individual and a second s			
PO.1.2.1.	throughout his/her career, <i>communicates</i> effectively with health care beneficiaries, co-workers, accompanying			
	persons, visitors, patient's relatives, care givers,		X	
	colleagues, other individuals, organizations and		A	
	institutions.			
PO.1.2.2.	collaborates as a team member with related		X	
	organizations and institutions, with other professionals and		A	
	health care workers, on issues related to health.			
PO.1.2.3.	recognizes the protection and privacy policy for health			
	care beneficiaries, co-workers, accompanying persons and			
	visitors.	+		
PO.1.2.4.	communicates with all stakeholders taking into			
	consideration the socio-cultural diversity. POD.1.3. Competencies Related to Leadership and			
	Management			
PO.1.3.1.	manages and leads within the health care team in			
	primary health care organization.			
PO.1.3.2.	recognizes the principles of health management and			
	health sector economy, models of organization and			
	financing of health care services.			
PO.1.3.3.	recognizes the resources in the health care service, the			
	principles for cost-effective use.			
	POD.1.4. Competencies related to Health Advocacy			
PO.1.4.1.	recognizes the health status of the individual and the			
	community and the factors affecting the health,			
	<i>implements</i> the necessary measures to prevent effects of			
	these factors on the health.			
PO.1.4.2.	recognizes and manages the health determinants			
	including conditions that prevent access to health care.			
	POD.1.5. Competencies related to Research			
PO.1.5.1.	develops, prepares and presents research projects			X
	POD.1.6. Competencies related to Health			
	Education and Counseling			
PO.1.6.1.	provides consultancy services and organizes health			
	education for the community to sustain and promote the			
	health of individual and community.			
	PODG.2. Professional Values and Perspectives			
	DOD 2.4 Commenter d'en melete des leurs en d			
	POD.2.1. Competencies related to Law and Legal Regulations			
PO.2.1.1.	Legal Regulations performs medical practices in accordance with the legal			
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PO.2.1.1.	Legal Regulations performs medical practices in accordance with the legal framework which regulates the primary health care service. POD.2.2. Competencies Related to Ethical			
PO.2.1.1.	Legal Regulations performs medical practices in accordance with the legal framework which regulates the primary health care service.			

PO.2.2.2.	pays importance to the rights of patient, patient's		
	relatives and physicians, and provides services in this		
	context.		
	POD.2.3. Competencies Related to Social and		
	Behavioral Sciences		
PO.2.3.1.	relates historical, anthropological and philosophical		
	evolution of medicine, with the current medical practice.		
PO.2.3.2.	recognizes the individual's behavior and attitudes and		
	factors that determine the social dynamics of the		
	community.		
	POD.2.4. Competencies Related to Social		
	Awareness and Participation		
PO.2.4.1.	leads community with sense of responsibility, behavior		
	and attitudes in consideration of individual behaviors and		
	social dynamics of the community, and if there is a		
	necessity, develops projects directed towards health care		
	services. POD.2.5. Competencies Related to		
	Professional Attitudes and Behaviors		
PO.2.5.1.	displays a patient-centered and holistic (biopsychosocial)		
. 0.2.3.1.	approach to patients and their problems.		
PO.2.5.2.	respects patients, colleagues and all stakeholders in		
	health care delivery.		
PO.2.5.3.	displays the proper behavior in case of disadvantaged		
	groups and situations in the community.		
PO.2.5.4.	takes responsibility for the development of patient safety		
	and healthcare quality.		
PO.2.5.5.	evaluates own performance as open to criticism, realizes		
	the qualifications and limitations.		
	PODG.3. Professional Development and Self-Worth		
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	PODG.3.1. Personal Development and Values		
PO.3.1.1.	_		
PO.3.1.1.	PODG.3.1. Personal Development and Values		
PO.3.1.1.	PODG.3.1. Personal Development and Values embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and		
	PODG.3.1. Personal Development and Values embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves		
PO.3.1.2.	PODG.3.1. Personal Development and Values embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills.		
	PODG.3.1. Personal Development and Values embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to		
PO.3.1.2.	PODG.3.1. Personal Development and Values embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish		
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PO.3.1.2. PO.3.1.3.	PODG.3.1. Personal Development and Values embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management		
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PO.3.1.3. PO.3.2.1.	PODG.3.1. Personal Development and Values embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management recognizes and investigates postgraduate work domains and job opportunities.		
PO.3.1.2. PO.3.1.3.	embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management recognizes and investigates postgraduate work domains and job opportunities. recognizes the application requirements to postgraduate		
PO.3.1.3. PO.3.2.1.	embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management recognizes and investigates postgraduate work domains and job opportunities. recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any		
PO.3.1.3. PO.3.2.1. PO.3.2.2.	embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management recognizes and investigates postgraduate work domains and job opportunities. recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any requirement for further training and work experience.		
PO.3.1.3. PO.3.2.1.	embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management recognizes and investigates postgraduate work domains and job opportunities. recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any		
PO.3.1.3. PO.3.2.1. PO.3.2.2.	embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management recognizes and investigates postgraduate work domains and job opportunities. recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any requirement for further training and work experience. prepares a resume, and recognizes job interview methods.		
PO.3.1.3. PO.3.2.1. PO.3.2.2.	embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management recognizes and investigates postgraduate work domains and job opportunities. recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any requirement for further training and work experience. prepares a resume, and recognizes job interview		
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PO.3.1.2. PO.3.1.3. PO.3.2.1. PO.3.2.2. PO.3.2.3.	embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management recognizes and investigates postgraduate work domains and job opportunities. recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any requirement for further training and work experience. prepares a resume, and recognizes job interview methods. POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health implements the rules of healthy living.		
PO.3.1.2. PO.3.1.3. PO.3.2.1. PO.3.2.2. PO.3.2.3.	embraces the importance of lifelong self-learning and implements. embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. POD.3.2. Competencies Related to Career Management recognizes and investigates postgraduate work domains and job opportunities. recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any requirement for further training and work experience. prepares a resume, and recognizes job interview methods. POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health		

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION						
Activities	Quantity/ day	Duration (Hour)	Total Workload (Hour)			
Course Duration (1 week)	5	3	15			
Hours for off-the-classroom study (Pre-study, practice, review/week)	5	5	25			
Homework	4	2	8			
Exam	-	-	-			
Total Work Load	d		48			
Total Work Load / 30 (h)		1.6			
ECTS Credit of the Course	2		2			