

**International School of Medicine / Medicine (English)**

**2023 - 2024 Academic Year**

**EVIDENCE BASED MEDICINE**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
EVIDENCE BASED MEDICINE	ISM5014621	Yearly	30+42	0	4
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	English				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Practice				
<b>Course Coordinator</b>	Prof.Dr. Osman Erol HAYRAN				
<b>Name of Lecturer(s)</b>	Prof.Dr. Osman Erol HAYRAN, Assist.Prof. Ömer ATAÇ, Assist.Prof. Ayşe Seval PALTEKİ, Prof.Dr. Mehmet KOÇAK, Assist.Prof. HÜSEYİN KÜÇÜKALİ, Assist.Prof. Ayşe Nur BALCI YAPALAK, Assoc.Prof. Perihan TORUN				
<b>Assistant(s)</b>	Dr. Ayşe Zülal Tokaç Farmaz				
<b>Aim</b>	During daily medical practices and decisions, in the light of the latest up-to-date information, in line with patient expectations and expert experiences.to find and use scientific evidence.				
<b>Course Content</b>	This course contains; Acquaintance and expectations Evidence-Based Medicine: Introduction Data, Information-Knowledge and Evidenceconcepts,Producing Evidence: Observational Studies,Generating Evidence: Experimental Studies,Finding Evidence: International Data and Information Sources,Systematic Reviews,Meta Analizler,Risk Calculations,Sensitivity, Selectivity, Predictive Value Calculations,Validity, Confidence calculations, Research errors.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Defines the Evidence-Based Medicine.			10, 16, 5, 6, 9	A, D	
Explains the difference between evidence, data, information, knowledge.			10, 16, 5, 6, 9	A, D	
Lists the ways of production of and access to evidence.			10, 16, 5, 6, 9	A, D	
Understands the importance of following the literature while practicing medicine.			10, 16, 5, 6, 9	A, D	
Sorts different types of studies by the value of the evidence they provide.			10, 16, 5, 6, 9	A, D	
Compares the advantages and disadvantages of different types of research.			10, 16, 5, 6, 9	A, D	
Counts the types of observational studies used to produce evidence.			10, 16, 5, 6, 9	A, D	
Plans an observational study.			10, 16, 5, 6, 9	A, D	
Lists the types of experimental research used to produce evidence.			10, 16, 5, 6, 9	A, D	
Plans an experimental study.			10, 16, 5, 6, 9	A, D	
Accesses and uses international evidence-based medical databases.			10, 16, 5, 6, 9	A, D	
Finds the most up-to-date evidence needed during medical practice.			10, 16, 5, 6, 9	A, D	
Describes the logic of the systematic review.			10, 16, 5, 6, 9	A, D	
Interprets systematic review articles.			10, 16, 5, 6, 9	A, D	
Describes meta-analysis logic.			10, 16, 5, 6, 9	A, D	
Interprets meta-analysis articles.			10, 16, 5, 6, 9	A, D	
Defines related measures related to health and disease.			10, 16, 5, 6, 9	A, D	
Interprets related measures related to health and disease.			10, 16, 5, 6, 9	A, D	
Performs common risk calculations.			10, 16, 5, 6, 9	A, D	
Defines sensitivity, specificity, and predictive value.			10, 16, 5, 6, 9	A, D	
Interprets sensitivity, specificity, and predictive value.			10, 16, 5, 6, 9	A, D	
Calculates the accuracy values of diagnostic tests.			10, 16, 5, 6, 9	A, D	
Critically appraises research methods.			10, 16, 5, 6, 9	A, D	
Identifies errors in the studies.			10, 16, 5, 6, 9	A, D	
Explains the meaning of the scientific terms in medical studies.			10, 16, 5, 6, 9	A, D	
<b>Teaching Methods</b>	10: Discussion Method, 16: Question - Answer Technique, 5: Cooperative Learning, 6: Experiential Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, D: Oral Exam				
<b>Lecture Schedule</b>					
<b>Sequenc e</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Acquaintance and expectations Evidence-Based Medicine: Introduction Data, Information-Knowledge and Evidenceconcepts				
2	Producing Evidence: Observational Studies				
3	Generating Evidence: Experimental Studies				
4	Finding Evidence: International Data and Information Sources				
5	Systematic Reviews				
6	Meta Analizler				
7	Risk Calculations				
8	Sensitivity, Selectivity, Predictive Value Calculations				
9	Validity, Confidence calculations, Research errors				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

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**Resources**

Ders Notları, Powerpoint Sunular, Konu ile ilgili web sayfaları1-Prasad K. Fundamentals of Evidence-Based Medicine. 2nd edition. Springer, India, 2013.

2-Goldstein NE, Morrison RS. Evidence-Based Practice of Palliative Medicine. Elsevier Saunders, 2013.

3-Khan K, Kunz R, Kleijnen J, Antes G. Systematic reviews to support evidence-based medicine. 2nd edition, Hodder Arnold an Hachette UK Company, 2011.

4-Mayer D. Essentials evidence-based medicine. 2nd edition, Cambridge University Press, 2010.

5-Hayran O. Sağlık Bilimlerinde Araştırma ve İstatistik Yöntemler. Nobel Tıp Kitabevleri, İstanbul, 2012.Lecture notes