

International School of Medicine / Medicine (English)

2023 - 2024 Academic Year

RATIONAL PHARMACOTHERAPY

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
RATIONAL PHARMACOTHERAPY	ISM4214862	Spring Semester	57+15	0	2
Prerequisites Courses					
Recommended Elective Courses	None				
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Practice				
Course Coordinator	Assoc.Prof. Volkan AYDIN				
Name of Lecturer(s)	Assoc.Prof. Ayşe Arzu ŞAKUL, Assoc.Prof. Volkan AYDIN				
Assistant(s)	Doç.Dr. Ayşe Arzu ŞAKUL, Doç.Dr. Volkan AYDIN				
Aim	The main aim is to discuss the necessity of training for rational pharmacotherapy decision and help students develop their own way to choose a drug/treatment among many other alternatives by comparing them in terms of efficacy, safety, suitability and cost. The program also aims to help students to learn how to write a good prescription, how to use novel drugs, and how to report adverse events in clinical practice				
Course Content	This course contains; Introduction to the rational pharmacotherapy clerkship,Principles of rational pharmacotherapy,Basic concepts of prescribing,Introduction to Module: Essential hypertension,Introduction to Module: Acute sinusitis,Multi-attribute utility analysis in choosing P-drug,Practical: Prescription writing,Module: Essential hypertension - Defining the problem, therapeutic objectives & non-drug treatment,Module: Acute sinusitis - Defining the problem, therapeutic objectives & non-drug treatment,Module: Clinical pharmacology of the drugs used in essential hypertension,Module: Clinical pharmacology of the drugs used in acute sinusitis,Drug use in elderly,Drug use in pregnancy & nursing,Drug use in children,Generic drugs,Module: Essential hypertension - Skills workshop in choosing a set of P-drugs,Module: Acute sinusitis - Skills workshop in choosing a set of P-drugs,Drug interactions,Practical: Prescription audit,Drug use in renal & hepatic disorders,Module: Essential hypertension - Practical aspects of prescribing & monitoring treatment,Module: Acute sinusitis - Practical aspects of prescribing & monitoring treatment,Self-medication,Pharmacovigilance & drug safety,Practical: Adverse event reporting.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
To have the knowledge about the main principles of the rational use of medicine			10, 9	M	
To have knowledge about the steps of rational pharmacotherapy			10, 9	M	
To define major criteria of rational drug selection			10, 13, 9	F, M	
To exhibit fundamental principles of prescribing			11, 14, 9	H	
To have knowledge about the e-prescription			9	E	
To interpret findings of the analyzed scientific data			9	F	
To apply fundamental steps of prescribing			11, 14, 9	H	
To define therapeutic objectives in essential hypertension and acute sinusitis			10, 15, 3, 9	M	
To explain non-drug and drug therapeutic options in essential hypertension and acute sinusitis			10, 15, 3, 9	F, M	
To have knowledge about the rational use of medicine in special patient populations			10, 13, 9		
Teaching Methods	10: Discussion Method, 11: Demonstration Method, 13: Case Study Method, 14: Self Study Method, 15: Role Play and Drama Technique, 3: Problem Based Learning Model, 9: Lecture Method				
Assessment Methods	E: Homework, F: Project Task, H: Performance Task, M: Objective Structured Clinical Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to the rational pharmacotherapy clerkship	Pre-read lecture notes			
2	Principles of rational pharmacotherapy	Pre-read lecture notes			
3	Basic concepts of prescribing	Pre-read lecture notes			
4	Introduction to Module: Essential hypertension	Pre-read lecture notes			
5	Introduction to Module: Acute sinusitis	Pre-read lecture notes			
6	Multi-attribute utility analysis in choosing P-drug	Pre-read lecture notes			
7	Practical: Prescription writing	Pre-read lecture notes			
8	Module: Essential hypertension - Defining the problem, therapeutic objectives & non-drug treatment	Pre-read lecture notes			
9	Module: Acute sinusitis - Defining the problem, therapeutic objectives & non-drug treatment	Pre-read lecture notes			
10	Module: Clinical pharmacology of the drugs used in essential hypertension	Pre-read lecture notes			
11	Module: Clinical pharmacology of the drugs used in acute sinusitis	Pre-read lecture notes			
12	Drug use in elderly	Pre-read lecture notes			
13	Drug use in pregnancy & nursing	Pre-read lecture notes			
14	Drug use in children	Pre-read lecture notes			
15	Generic drugs	Pre-read lecture notes			
16	Module: Essential hypertension - Skills workshop in choosing a set of P-drugs	Pre-read lecture notes			
17	Module: Acute sinusitis - Skills workshop in choosing a set of P-drugs	Pre-read lecture notes			
18	Drug interactions	Pre-read lecture notes			
19	Practical: Prescription audit	Pre-read lecture notes			
20	Drug use in renal & hepatic disorders	Pre-read lecture notes			
21	Module: Essential hypertension - Practical aspects of prescribing & monitoring treatment	Pre-read lecture notes			
22	Module: Acute sinusitis - Practical aspects of prescribing & monitoring treatment	Pre-read lecture notes			
23	Self-medication	Pre-read lecture notes			
24	Pharmacovigilance & drug safety	Pre-read lecture notes			

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Lecture Schedule		
Sequence	Topics	Preliminary Preparation
25	Practical: Adverse event reporting	Pre-read lecture notes
Evaluation Methods		Weight(%)
Midterm Exam		40
General Exam		60

Resources
De Vries, T. P. G. M, Henning, R. H, Hogerzeil, Hans V, Fresle, D. A, WHO Action Programme on Essential Drugs. et al. (1994); Guide to good prescribing : a practical manual / authors : T. P. G. M. de Vries ... [et al.]; with contributions from F. M. Haaijer-Ruskamp and R. M. van Gilst. World Health OrganizationT.C. Sosyal Güvenlik Kurumu. Birinci Basamak Sağlık Kurumlarında Çalışan Hekimlere Yönelik Akılcı İlaç Kullanımı. Ed: Ahmet Akıcı. (2013) SGK Yayın No: 112; Ankara, ISBN: 978-605-4844-04-3.