

Medicine			
Bachelor	TR-NQF-HE: Level 7	QF-EHEA: Second Cycle	EQF-LLL: Level 7

Course Introduction and Application Information

Course Code:	TIP0006		
Course Name:	Clinical Pharmacology 3		
Semester:	Fall Spring		
Course Credits:	<div>ECTS</div> <div>5</div>		
Language of instruction:	Turkish		
Course Condition:			
Does the Course Require Work Experience?:	Yes		
Type of course:	Departmental Elective		
Course Level:	<div>Bachelor</div> <div>TR-NQF-HE:7. Master`s Degree</div> <div>QF-EHEA:Second Cycle</div> <div>EQF-LLL:7. Master`s Degree</div>		
Mode of Delivery:	Face to face		
Course Coordinator:	Prof. Dr. HİKMET KOÇAK		
Course Lecturer(s):	Dönem Koordinatörü: Prof. Dr. Nuriye Taşdelen Fışgın Ders (staj) Yürütücüsü: Prof. Dr. Yusuf Sarıoğlu Dersi veren diğer öğretim elemanları: Prof. Dr. Ferda Kaleağasioğlu Dr. Öğr. Üyesi Demet Sinem Güden		
Course Assistants:			

Course Objective and Content

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Course Objectives:	<p>According to the definition of World Health Organization in 1985, rational use of medicines requires that “patients receive medications appropriate to their clinical needs, in doses that meet their clinical needs, in doses that meet their own requirements, for an adequate period of time, and at the lowest cost to them and their community”.</p> <p>The aim of this internship is that intern doctors consider rational use of medicines seriously and develop their prescribing skills in the treatment of selected diseases.</p>
Course Content:	<p>The program covers the treatment principles of the most common diseases at first-step health care in line with the clinical pharmacology learning objectives according to the National Core Education Program,</p> <p>In this internship, every intern doctor</p> <ol style="list-style-type: none"> 1. Presents and discusses an article which he/she prepares from a selected journal in the field of clinical pharmacology (for example, Clinical Pharmacology & Therapeutics) 2. Prepares and makes a presentation on a selected treatment guideline including mechanism of action, adverse effects, drug-drug interactions and contraindications of drugs and presents sample prescriptions.

Learning Outcomes

The students who have succeeded in this course;

- 1) 1. can explain the principles of rational prescribing
- 2) 2. knows how to follow up and benefit from current treatment guidelines
- 3) 3. knows and applies the treatment principles of the most common diseases at the first-step health care.
- 4) 4. can choose the therapeutic agents according to the principles of evidence-based medicine.
- 5) 5. can write a prescription compliant with the principles of rational use of medicines.
- 6) 6. can evaluate the efficacy, safety, suitability, and cost of the drugs he/she prescribed

Course Flow Plan

Week	Subject	Related Preparation
1)	1. Introduction of the clerkship 2. Task assignment 3. Literature Hour	non
2)	1. Literature Hour 2. Treatment Guideline (Presentations of the first and the second guidelines)	non
3)	1. Literature Hour 2. Treatment Guideline (Presentations of the third and the fourth guidelines)	non
4)	1. Literature Hour 2. Treatment Guideline (Presentation of the fifth guideline) 3. Evaluation of the internship	non

Sources

Course Notes /	Dipiro Farmakoterapi El Kitabı 11. Baskı, Güneş Tıp Kitabevi, 2022
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Textbooks:	Katzung & Trevor Farmakoloji Sınav ve Gözden Geçirme Güneş Tıp Kitabevi, 2019 Hastalık bazında Uluslararası Derneklerin web sayfalarında ve pubmedde yer alan tedavi kılavuzları
References:	Treatment guidelines on the selected diseases available from the websites of the relevant professional associations and pubmed. Katzung's Basic & Clinical Pharmacology Goodman& Gilman's Pharmacological Basis of Therapeutics

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5	6
Program Outcomes						
1) The graduate integrates the knowledge, skills, attitudes, and behaviours acquired from basic and clinical sciences, behavioural sciences, and social sciences in the form of competencies and uses them for the provision of rational, effective, safe health care services in accordance with quality standards in the prevention, diagnosis, treatment, follow-up, and rehabilitation processes, and during the process considers protection of both patient's health and healthcare workers health including her/his own.	3	3	3	3	3	3
2) The graduate shows a biopsychosocial approach in patient management that considers the sociodemographic and sociocultural background of the individual without discrimination of language, religion, race, and gender.	2	3	3	3	3	3
3) The graduate prioritizes the protection and development of the health of individuals and society in the provision of health care services.	3	3	3	3	3	3
4) The graduate, considering the individual, social, public, and environmental factors affecting health; works towards maintaining and improving the state of health.	3	2	3	2	3	3
5) In the provision of health care services, the graduate considers both the changes in the physical and socioeconomic environment on a regional and global scale that affect health, as well as the changes in the individual characteristics and behaviours of the people who apply to her/him.	2	2	3	3	3	3
6) The graduate recognizes the characteristics, needs and expectations of the target population and provides health education to healthy/sick individuals and their relatives and other health care workers.	2	3	3	3	3	3

7) While carrying out her/his profession, the graduate fulfils her/his duties and obligations with determined behaviours to provide high-quality health care within the framework of ethical principles, rights and legal responsibilities and good medical practices, considering the integrity, privacy, and dignity of the patient.	2	3	3	3	3	3
	1	2	3	4	5	6
8) The graduate evaluates and improves her/his own performance in professional practices in terms of emotions, cognitive characteristics, and behaviours.	2	3	1	2	2	3
9) The graduate physician advocates improving the provision of health services by considering the concepts of social reliability and social commitment to protect and improve public health.	2	2	2	2	3	2
10) To protect and improve health, the graduate physician can plan and carry out service delivery, training and consultancy processes related to individual and community health in cooperation with all components.	3	2	3	2	3	3
11) The graduate physician evaluates the impact of health policies and practices on individual and community health indicators and advocates increasing the quality of health services.	2	3	2	3	3	2
12) The graduate physician attaches importance to protecting and improving her/his own physical, mental, and social health, and does what is necessary for this.	2	3	2	3	2	3
13) During the provision of health care, the graduate shows exemplary behaviours and leads within the health team.	2	3	3	2	3	3
14) The graduate uses the resources cost-effectively, in the planning, implementation, execution, and evaluation processes of the health care services in the health institution she/he manages, for the benefit of the society and in accordance with the legislation.	2	3	3	2	3	3
15) The graduate communicates positively within the health team with whom she/he provides health care services, being aware of the duties and obligations of other health workers and shows appropriate behaviours to assume different team roles when necessary.	2	3	2	2	3	3
16) The graduate works harmoniously and effectively with her/his colleagues and other professional groups in her/his professional practice.	2	2	3	3	2	2
17) The graduate communicates effectively with patients, patient relatives, health care workers and other professional groups, institutions, and organizations, including individuals and groups that require a special approach and have different sociocultural characteristics.	2	2	2	2	2	3

18) The graduate shows a patient-centred approach in the protection, diagnosis, treatment, follow-up, and rehabilitation processes that involve the patient and patient's caregivers as partners in the decision-making mechanisms.	3 1	2 2	3 3	3 4	2 5	3 6
19) When necessary, the graduate plans and implements scientific research for the population she/he serves, and uses the results obtained and/or the results of other research for the benefit of the society.						
20) The graduate reaches the current literature information related to her/his profession, evaluates critically, and applies the principles of evidence-based medicine in the clinical decision-making process.	2	3	2	3	2	3
21) The graduate uses information technologies to improve the effectiveness of her/his work in health care, research, and education.	2	3	2	3	3	2
22) The graduate effectively manages individual study and learning processes and career development.	2	1	2	3	3	2
23) The graduate demonstrates the ability to acquire, evaluate, integrate new knowledge with existing knowledge, apply it to professional situations, and adapt to changing conditions throughout professional life.	2	2	3	3	2	3
24) The graduate chooses the right learning resources to improve the quality of the health care service she/he provides, organizes her/his own learning process.	3	2	2	3	2	3

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	The graduate integrates the knowledge, skills, attitudes, and behaviours acquired from basic and clinical sciences, behavioural sciences, and social sciences in the form of competencies and uses them for the provision of rational, effective, safe health care services in accordance with quality standards in the prevention, diagnosis, treatment, follow-up, and rehabilitation processes, and during the process considers protection of both patient's health and healthcare workers health including her/his own.	3
2)	The graduate shows a biopsychosocial approach in patient management that considers the sociodemographic and sociocultural background of the individual without discrimination of language, religion, race, and gender.	2

3)	The graduate prioritizes the protection and development of the health of individuals and society in the provision of health care services.	3
4)	The graduate, considering the individual, social, public, and environmental factors affecting health; works towards maintaining and improving the state of health.	2
5)	In the provision of health care services, the graduate considers both the changes in the physical and socioeconomic environment on a regional and global scale that affect health, as well as the changes in the individual characteristics and behaviours of the people who apply to her/him.	3
6)	The graduate recognizes the characteristics, needs and expectations of the target population and provides health education to healthy/sick individuals and their relatives and other health care workers.	3
7)	While carrying out her/his profession, the graduate fulfils her/his duties and obligations with determined behaviours to provide high-quality health care within the framework of ethical principles, rights and legal responsibilities and good medical practices, considering the integrity, privacy, and dignity of the patient.	2
8)	The graduate evaluates and improves her/his own performance in professional practices in terms of emotions, cognitive characteristics, and behaviours.	3
9)	The graduate physician advocates improving the provision of health services by considering the concepts of social reliability and social commitment to protect and improve public health.	2
10)	To protect and improve health, the graduate physician can plan and carry out service delivery, training and consultancy processes related to individual and community health in cooperation with all components.	3
11)	The graduate physician evaluates the impact of health policies and practices on individual and community health indicators and advocates increasing the quality of health services.	3
12)	The graduate physician attaches importance to protecting and improving her/his own physical, mental, and social health, and does what is necessary for this.	2
13)	During the provision of health care, the graduate shows exemplary behaviours and leads within the health team.	3
14)	The graduate uses the resources cost-effectively, in the planning, implementation, execution, and evaluation processes of the health care services in the health institution she/he manages, for the benefit of the society and in accordance with the legislation.	2
15)	The graduate communicates positively within the health team with whom she/he provides health care services, being aware of the duties and obligations of other health workers and shows appropriate behaviours to assume different team roles when necessary.	2

16)	The graduate works harmoniously and effectively with her/his colleagues and other professional groups in her/his professional practice.	3
17)	The graduate communicates effectively with patients, patient relatives, health care workers and other professional groups, institutions, and organizations, including individuals and groups that require a special approach and have different sociocultural characteristics.	3
18)	The graduate shows a patient-centred approach in the protection, diagnosis, treatment, follow-up, and rehabilitation processes that involve the patient and patient's caregivers as partners in the decision-making mechanisms.	2
19)	When necessary, the graduate plans and implements scientific research for the population she/he serves, and uses the results obtained and/or the results of other research for the benefit of the society.	
20)	The graduate reaches the current literature information related to her/his profession, evaluates critically, and applies the principles of evidence-based medicine in the clinical decision-making process.	3
21)	The graduate uses information technologies to improve the effectiveness of her/his work in health care, research, and education.	2
22)	The graduate effectively manages individual study and learning processes and career development.	3
23)	The graduate demonstrates the ability to acquire, evaluate, integrate new knowledge with existing knowledge, apply it to professional situations, and adapt to changing conditions throughout professional life.	3
24)	The graduate chooses the right learning resources to improve the quality of the health care service she/he provides, organizes her/his own learning process.	3

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Attendance	1	% 20
Laboratory	1	% 40
Special Course Internship (Work Placement)	1	% 40
total		% 100
PERCENTAGE OF SEMESTER WORK		% 100

PERCENTAGE OF FINAL WORK		%
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Preparation for the Activity	Spent for the Activity Itself	Completing the Activity Requirements	Workload
Course Hours	3	1	1	3	15
Application	4	1	1	4	24
Special Course Internship (Work Placement)	4	1	1	4	24
Field Work	2	0	12	24	72
Total Workload					135