MED 673 - COURSE INFORMATON							
Course Title Code Semester L+P Hour Credits ECTS							
Clinical Pharmacology (Clinical	MED 673	Phase 6 / 11-12		5	5		
internship)							

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

	,	GENERAL INFORMATION				
This course is for Phase VI students of Yeditepe University Faculty of Medicine.						
Prerequisites	Prerequisites Obligatory (main) courses of Phase V should be completed.					
Coordination Office	rdination Office Yeditepe University Hospital.					
Email address for inquirie	es	egenc@yeditepe.edu.tr				
Attendance		Students are required to attend to at least 80% of the classes.				
Language of Instruction		English				
Course Level		Second Cycle including First Cycle Degree (One Tier Programme)				
Course Type		Elective course				
Course Coordinator	Course Coordinator Ece Genç, PhD Prof.					
Lecturers/Instructors		Ece Genç, PhD Prof Emine Nur Özdamar MD Assist. Prof. Cenk Andaç MD Assist. Prof.				
Assistants						
Goals	The aim of the elective course is to equip the intern with enriched knowledge and skills in the preferred medispecialty.					
Content	The elective internship is a 1 month rotation for the 6th year medical students which has been choosen by the students from the area elective courses in the curriculum. Like the other rotations, evaluation of studer performance will be based on overall clinical performance both in hospital and outpatient clinics, case papers, the attitudes toward patients, participation in seminars and overnight calls, regular attendance at scientific meeting lectures and case conferences, the level of scientific and practical knowledge and consulting skills. Ratings of student recorded with required projects and will be performed as "passed "or "failed" with an overall evaluation score of 100.					

<b>Learning Outcomes</b> At the end of this clerkship, the student should be able to	Programme Learning Outcomes	Teaching Methods	Assessment Methods
1. <i>define</i> patient's problem	1.1.1, 1.1.2	1, 2, 3, 9, 12	А
2. <i>list</i> aims of therapy	1.1.2, 2.1.1, 2.1.2, 3.1.3	1, 2, 3, 9, 12	А
3. categorize effective drug groups	3.1.3, 3.1.4	1	А
4. <i>discuss</i> personal drugs	1.1.6, 2.1.2, 2.3.2, 2.5.1, 2.5.2, 2.5.3	1,2,3	А
5. <i>determine</i> "proper" drug according to certain criteria	1.1.9, 3.1.3, 3.1.4	1,2,3	А
6. <i>conduct</i> preparation of personal formulary	1.1.9, 3.1.1,3.1.2, 3.1.3, 3.2.1	1,2,3	А
7. enhance prescription writing skills.	2.5.1, 3.2.1,3.2.2, 3.1.4, 3.2.3	1,3,9,12	Α

8. use the right drug at the right dose at appropriate intervals	1.1.2, 1.1.6,		
with a special attention to economic aspects of therapy	1.1.9, 2.1.2,	1,3,9,12	Α
	2.5.1		

Teaching Methods: 1: Lecture, 2: Question-Answer, 3: Discussion, 9: Simulation, 12: Case Study

Assessment Methods: A: Testing B: Presentation C: Homework

	COURSE CONTENT					
Days	Topics	Study Materials				
	Introduction to the clerkship: a) learning principles and procedures; b) Rational drug					
	use principles; c) Prescription writing.	Katzung, B.G., Masters				
		S.B. and Trevor, A.J. eds				
1	1. Rational drug use 2. Personal drugs /introduction to "MAUA" forms 3.	Basic and Clinical				
	Antihypertensive drugs: Introduction to reference materials	Pharmacology, 16th ed.				
		McGraw Hill, 2023.				
2	Essential Hypertension	#2				
3	Solving case studies for essential hypertension, acute bacteria rhinosinusitis	#3, #4				
4	Solving case studies for acute bacterial rhinosinusitis					
5	Urinary tract infections	#5, #6				
ε	Solving case studies for urinary tract infections					

	COURSE MATERIALS
	1- Katzung, B.G., Masters S.B. and Trevor, A.J. eds. Basic and Clinical Pharmacology, 16 <sup>th</sup> ed. McGraw Hill, 2023. 2-Williams, B. et al.2018 ESC/ESH guidelines for the managemet of arterial hypertension, European Heart Journal, 1-98 (2018).
	3-Aring, A.M, and Chan, M.M.: Current Concepts in Adult Acute Rhinosinusitis, Am Fam Physician. 94(2):97-105 (2016).
Text	4-Chow, A.W. et al.IDSA Clinical Practice Guideline for AcuteBacterial Rhinosinusitis in Children and Adults, CID 54:72-112(2012).
Books and	5- Colgan, R. and Williams, M., Diagnosis and Treatment of Acute Uncomplicated Cystitis, American Family Physician 84:771-776
Reading Material	(2011).
	6. Gupta, K. et al. International Clinical practice guidelines for the treatment of acute uncomplicated cystitis and pyelonephritisin women: A 2010 update by the infectious diseases society of America and the European society for microbiology and infectious diseases. CID, 52: 103-120, (2011).
Additional	
Resources	

## YEDİTEPE UNIVERSITY FACULTY OF MEDICINE **INTERN PHYSICIAN EVALUATION FORM**

This form includes evaluation co	mponents for intern physicians and is the internship.	e basis of the passing grade for
Intern's name and surname:		
Intern number:		
Internship program name:		
Dates of start and end for		
internship program:		
1. Evaluation of Cognitive Comp * The level of competency should be	<b>Detencies</b> be determined based on <i>participation in</i> vations of the Faculty Member / Internsh	
the Department for the Intern.		*Competency Level
<b>1.1.</b> Clinical reasoning and decise The stages of decision making process determine preliminary / differential didiagnostic tests, to achieve an appropres (interventional or not).	in an evidence based manner; to agnosis/diagnoses, to order appropriate	Does not meet expectations  Meets expectations  Above expectations  Well above expectations
<b>1.2.</b> Professional knowledge During the educational activities (case member seminars, intern physician ser ask the questions, to start a discussion, an understanding of the subject.	Does not meet expectations  Meets expectations  Above expectations  Well above expectations	
<b>1.3.</b> Literature review and semin Preparation based on evidence of high subject in a solid logical reasoning with mastering the subject, answering the quantum serior of the subject in t	Does not meet expectations  Meets expectations  Above expectations  Well above expectations	
Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department		
2. Evaluation of Competencies	for Basic Medical Practice	
* The level of competency should be	ne determined based on <i>basic medical p</i> he Faculty Member / Internship Training	
Department for the intern.	* Competency Level	
Basic medicine practices based on <i>Intern Logbook</i>	Does not meet expectations   Meets expectations   Above expectations   Well above expectations	
Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department		
3. Evaluation of Professional Co	empetencies for Medicine	
<b>3.1.</b> Communicating with patien	ts and relatives	* Competency Level  Does not meet expectations   Meets expectations   Above expectations   Well above expectations

<b>3.2.</b> Compliance in hospital rules (i.e. standard operating						Does not meet expectations $\square$			
procedures, SOPs)	procedures, SOPs)					Meets expectations $\square$			
					Above expectations $\square$				
					Well ab	ove expectations $\square$			
<b>3.3.</b> Working in a team and collaborating and communicating with					Does not meet expectations				
team members	5511400		J ELLE COLLINIALITY			expectations $\square$			
					Above expectations				
						ove expectations $\square$			
<b>3.4.</b> Performing given	tasks					et meet expectations $\square$			
3.4. I CHOITIIII given	tasks				Meets expectations   Meets expectations				
						expectations			
						·			
<b>3.5.</b> Diligence on atten	dance and r	artic	ination in scienti	fic		ove expectations $\square$			
_	idance and p	)ai tic	ipation in scienti	IIC		·			
activities						expectations $\square$			
						expectations			
	<del>, , , , , , , , , , , , , , , , , , , </del>				Well ab	ove expectations 🗆			
Explanations, opinions									
recommendations bas									
the observations of the									
Faculty Member / Inte									
Training Supervisor / F	lead of								
the Department									
Evaluated Competenci	ies		Total Score (Ov	•	Impact on Internship End				
			each section below, the		Score	9			
			obtained by the Intern inadequacy.)	is a reason for					
Cognitive Competenci	es		Score:		20%				
C	- NA - 1' 1		Caara		600/				
Competencies for Basi	c iviedical		Score:		60%				
Practice					200/				
Professional Competer	ncies for		Score:		20%				
Medicine									
*If the competency level									
evaluation form, the inte	ern is conside	red to	be <i>unqualified</i> . Ir	n this condition	, <b>FF</b> is g	iven as a letter grade.			
**If the intern physician	is deemed in	adeni	iate due to <b>absent</b>	t <b>eeism F∆</b> is gir	ven as a	letter grade			
in the intern physician	is accinica iii	иисци	ace due to <b>absent</b>	iccisiii, i A is gi	ven as a	ictici giuuci			
Internship Evaluation I	End Score:								
Letter Grade:									
	Score Rang	e	Letter Grade	Credit Rat	ing				
	90 – 100		AA	4.0		1			
	80 – 89		ВА	3.5		1			
	70 – 79		ВВ	3.0		1			
	65 – 69		СВ	2.5		1			
	60 – 64		СС	2.0		1			
	0 – 59		FF			1			
	Absent		FA			1			
						<u>-</u>			
**Attendance			Absence ≤ 20%	<b>6</b>	Abse	nce > 20%			
Decision			Qualified		Unqualified				
					Chiquannea				

**Internship Commission:** 

Date:

COURSES CONTRIBUTION TO PROGRAM						
COMPETENCE AREA-1 / Professional Practices		Co	ontribut	ion		
COMPETENCE 1.1. Health Service Provider	1	2	3	4	5	
Competency 1.1.1. Integrates knowledge, skills, and attitudes acquired from basic and			х			
clinical medical sciences, behavioral sciences, and social sciences to provide health						
Services.				-		
<b>Competency 1.1.2.</b> Demonstrates a biopsychosocial approach that considers the individual's sociodemographic and sociocultural background without discrimination based					x	
on language, religion, race, or gender in patient management.						
Competency 1.1.3. Prioritizes the protection and improvement of individuals' and						
community's health in the delivery of healthcare services.						
Competency 1.1.4. Performs the necessary actions in the direction of maintaining and						
improving the state of health as considering the individual, social, social and environmental						
factors affecting health.  Competency 1.1.5. Provides health education to healthy/ill individuals and their families,						
as well as to other healthcare professionals, by recognizing the characteristics, needs, and						
expectations of the target audience.						
<b>Competency 1.1.6.</b> Demonstrates a safe, rational, and effective approach in the processes				х		
of protection, diagnosis, treatment, follow-up, and rehabilitation in health service delivery.					<u> </u>	
Competency 1.1.7. Performs interventional and/or non-interventional procedures safely						
and effectively for the patient in the processes of diagnosis, treatment, follow-up, and rehabilitation.						
Competency 1.1.8. Provides healthcare services considering patient and employee health						
and safety.						
Competency 1.1.9. Considers changes related to the physical and socio-economic					х	
environment at both regional and global scales that affect health, as well as changes in the						
individual characteristics and behaviors of those who seek healthcare services.			ntribut	ion		
COMPETENCE AREA-2 / Professional Values and Approaches	_	1			T _	
COMPETENCE 2.1. Adopting Professional Ethics and Principles	1	2	3	4	5	
<b>Competency 2.1.1.</b> Considers good medical practices while performing the profession.				х		
Competency 2.1.2. Fulfills duties and obligations within the framework of ethical					x	
principles, rights, and legal responsibilities required by the profession.						
<b>Competency 2.1.3.</b> Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity.						
Competency 2.1.4. Evaluates own performance in professional practices by considering						
own emotions and cognitive characteristics.						
COMPETENCE 2.2. Health Advocate						
Competency 2.2.1. Advocates for the improvement of healthcare service delivery by						
considering the concepts of social accountability and social responsibility in the protection						
and enhancement of community health.						
Competency 2.2.2. Plans and implements service delivery, education, and counseling						
processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health.						
Competency 2.2.3. Evaluates the impact of health policies and practices on individual and						
community health indicators and advocates for the improvement of healthcare quality.						
Competency 2.2.4. Gives importance to protecting and improving own physical, mental,						
and social health and takes necessary actions for it.						
COMPETENCE 2.3. Leader-Manager						
<b>Competency 2.3.1.</b> Demonstrates exemplary behavior and leadership within the healthcare team during service delivery.						
<b>Competency 2.3.2.</b> Utilizes resources in a cost-effective, socially beneficial, and compliant manner with regulations in the planning, implementation, and evaluation processes of			х			
healthcare services as the manager in the healthcare institution.				1		
COMPETENCES 4 Team Member						
COMPETENCE2.4. Team Member				1		
<b>Competency 2.4.1.</b> Communicates effectively within the healthcare team and takes on different team roles as necessary.						
Competency 2.4.1. Communicates effectively within the healthcare team and takes on different team roles as necessary.  Competency 2.4.2. Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team.						
Competency 2.4.1. Communicates effectively within the healthcare team and takes on different team roles as necessary.  Competency 2.4.2. Displays appropriate behaviors while being aware of the duties and						
Competency 2.4.1. Communicates effectively within the healthcare team and takes on different team roles as necessary.  Competency 2.4.2. Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team.  Competency 2.4.3. Works collaboratively and effectively with colleagues and other						

Competency 2.5.1. Communicates effectively with patients, their families, healthcare					x
professionals, and other occupational groups, institutions and organizations.					
Competency 2.5.2. Communicates effectively with individuals and groups who require a			х		
special approach and have different sociocultural characteristics.					
<b>Competency 2.5.3.</b> Demonstrates a patient-centered approach that involves the patient in			x		
decision-making mechanisms during the diagnosis, treatment, follow-up, and					
rehabilitation processes.					
COMPETENCE AREA-3 / Professional and Personal Development		Co	ontribut	ion	
COMPETENCE 3.1. Scientific and Analytical Approach	1	2	3	4	5
Competency 3.1.1. Plans and implements scientific research, as necessary, for the			х		
population it serves, and utilizes the results obtained, as well as those from other research,					
for the benefit of the community.					
Competency 3.1.2. Accesses and critically evaluates current literature related to their				x	
profession.					
Competency 3.1.3. Applies evidence-based medicine principles in the clinical decision-					х
making process.					
Competency 3.1.4. Uses information technologies to enhance the effectiveness of					x
healthcare, research, and education activities.					
COMPETENCE 3.2. Lifelong Learner					
Competency 3.2.1. Manages effectively individual study processes and career				х	
development.					
Competency 3.2.2. Demonstrates skills in acquiring, evaluating, integrating new				x	
information with existing knowledge, applying to professional situations, and adapting to					
changing conditions throughout professional career.					
<b>Competency 3.2.3.</b> Selects the right learning resources to improve the quality of health				x	
care and organizes the learning process.					

ECTS ALLOCATION							
Activity	Quantity	Duration (Hours)	Total Workload (Hours)				
Clinical Experience	45	2	90				
Clerkship Guide Compilation	20	1	20				
Independent Learning Hours	45	1	45				
Assessment	2	2.5	5				
Total Work Load			160				
Total Work Load / 30 (h)			5.3				
ECTS Credits			5				