Course Description Form

1. Course Name:
Therapeutic Drug Monitoring (Theoretical + Practical)
2. Course Code:
Phclp24_5213--
3. Semester / Year:
2nd Semester / 5th year
4. Description Preparation Date:
1/9/2024
5. Available Attendance Forms:
Students' signature on attendance sheet
6. Number of Credit Hours (Total) / Number of Units (Total)
2 hours theoretical + 2 hours practical per week / 3 units
7. Course administrator's name (mention all, if more than one name)
Theoretical + Practical
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8. Course Objectives	
Course Objectives	● To study the basic principle of drug kinetics. ● To study the applications of clinical pharmacokinetics equations and calculations ● To study the clinical pharmacokinetics/ pharmacodynamics principle of antibiotics, cardiovascular agents and other drugs.

9. Teaching and Learning Strategies	
Strategy	Lecturing Quiz Educational videos

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2+2	Understanding the basic principles of drug kinetics.	Review of clinical pharmacokinetic (PK)/ pharmacodynamic (PD) Principles. (part 1)	Lecture with video	Paper-based exam

2	2+2	Understanding the basic principles of drug kinetics.	Review of clinical pharmacokinetic (PK)/ pharmacodynamic (PD) principles (part 2)	Lecture	Paper-based exam
3	2+2	Using of clinical PK equations to calculate the required dose	Clinical PK equations and calculations (Extravascular Equation….), part 1	Lecture	Paper-based exam
4	2+2	Using of clinical PK equations to calculate the required dose	Clinical PK equations and calculations (Multiple-Dose and Steady-State Equations) part 2	Lecture	Paper-based exam
5	2+2	Understanding the Clinical PK in special population and cases	Clinical PK in special population and cases	Lecture	Paper-based exam
6	2+2	Understanding therapeutic drug monitoring (TDM) of aminoglycoside	Clinical PK/PD for Antibiotics (Aminoglycoside)	Lecture	Paper-based exam
7	2+2	Understanding TDM of vancomycin	Clinical PK/PD for Antibiotics (vancomycin)	Lecture	Paper-based exam
8	2+2	Understanding TDM of digoxin	Clinical PK/PD for Cardiovascular agents (Digoxin)	Lecture	Paper-based exam
9	2+2	Understanding TDM of theophylline	Clinical PK/PD of other drugs (Theophylline)	Lecture	Paper-based exam

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

- 25 M (midterm + written exams)
- 15 M (written exams of practical part+ attendance)
- 60 M (final exam)

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- 100 M total

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Applied Clinical Pharmacokinetics, Second Edition, 20 by Larry A. Bauer.
Recommended books and references (scientific journals, reports...)	Clinical Pharmacokinetics Concepts and Applications, Third Edition, 1995 by Malcolm Rowland and Thomas Tozer;
Electronic References, Websites	
Updating in curriculum percentage	0%