

# Clinical Pharmacology and Therapeutics

<b>Course Title</b>	<b>: Clinical Pharmacology and Therapeutics</b>
<b>Course Units</b>	<b>: 3 Credit hours (per semester)</b>
<b>Student level</b>	<b>: 5Th grade students</b>
<b>Course Duration</b>	<b>: 16 weeks</b>

General objectives	Topics
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## General objectives

Aim of the course is to improve the students skills in clinical Pharmacology , applying there previous knowledge in Pharmacology to the clinical skill, improving there skills for proper selection and use of drugs in medical practice. At the end of the course the student should fully knowledgeable about:

- The principles of Pharmacokinetics and their applications in medical practice, drug monitoring, proper dose calculation,...
- The principles proper dose calculation in the pathologic conditions e.g. Liver diseases, Renal diseases,....
- The precautions for drug prescription for pregnant and lactating Ladies
- Develop self learning attitude, and improve student's ability to apply knowledge to problem solving and rational drug prescription.
- Principals of Rational Drug prescription (Rational Drug prescription program), proper selection and use of drugs according to disease (P list construction and application) and

patient condition ( P –patient list) conducted in the hospital for real cases

- Management of drug and chemical poisoning,

Our Medical Pharmacology Program is for teaching Clinical Pharmacology and Therapeutics through a course of 29 lecture hours and 48 hours of clinical sessions (3 credit hours), Clinical Pharmacology rotations are dealing with specific cases; Students examine the cases (pre-designed cases as mentioned in the course content) write full sheet including full details about the current drug treatment and history of drug intake, students will have a group discussion for the drug treatment ; Then individually, each student will write a separate prescription form according to what he learned from the Rational Drug prescription program.

**Fifth Year students (1001513)****Group 1 Semester 1****Group 2 Semester 2**

week	Lecture Title	Clinical Round
1	General Pharmacology <ul style="list-style-type: none"><li>- introduction</li><li>- Pharmacokinetics</li></ul>	Clinical Rotation Rational drug
2	General Pharmacology <ul style="list-style-type: none"><li>- Pharmacokinetics</li><li>- Pharmacodynamics</li></ul>	Clinical Rotation Proper dose calculation
3	General Pharmacology <ul style="list-style-type: none"><li>- Pharmacodynamics</li><li>- Drugs and hepatic &amp; renal impairment</li></ul>	Clinical Rotation Bronchial asthma
4	Endocrine Pharmacology <ul style="list-style-type: none"><li>- Female Sex hormones</li><li>- Contraceptives</li></ul>	Clinical Rotation Peptic ulcer
5	Endocrine Pharmacology <ul style="list-style-type: none"><li>- Male Sex hormones</li><li>- Ca Metabolism</li></ul>	Clinical Rotation Diabetes mellitus
6	Chemotherapy <ul style="list-style-type: none"><li>- Anti protozoal</li><li>- Anti protozoal</li></ul>	Clinical Rotation Pain
7	Chemotherapy <ul style="list-style-type: none"><li>- Anti helmentics</li><li>- Cancer Chemotherapy</li></ul>	Clinical Rotation Protozoal infections
8	Chemotherapy <ul style="list-style-type: none"><li>- Cancer Chemotherapy</li><li>- Cancer Chemotherapy</li></ul>	Clinical Rotation Thyroid abnormalities
9	Chemotherapy <ul style="list-style-type: none"><li>- Viral Infection</li><li>- Viral Infection</li></ul>	Clinical Rotation (same program for the second section)
10	Toxicology <ul style="list-style-type: none"><li>- Introduction</li><li>- General Management</li></ul>	Clinical Rotation
11	Toxicology <ul style="list-style-type: none"><li>- CNS depressants</li><li>- Barbiturates</li></ul>	Clinical Rotation
12	Toxicology <ul style="list-style-type: none"><li>- Psychotropic</li><li>- CNS stimulants</li></ul>	Clinical Rotation
13	Toxicology <ul style="list-style-type: none"><li>- Addicting drugs</li><li>- Addicting drugs</li></ul>	Clinical Rotation
14	Toxicology <ul style="list-style-type: none"><li>- Heavy metals</li><li>- Heavy metals</li></ul>	Clinical Rotation
15	Toxicology <ul style="list-style-type: none"><li>- Chelating agents</li></ul>	Clinical Rotation

	- Chelating agents	
16	Toxicology Management of intoxicated patient	Clinical Rotation