



Department of Pharmacology and Therapeutics

Dow Dental College (DDC),

Dow University of Health Sciences (DUHS), Karachi.

2<sup>ND</sup> YEAR, BDS, Batch VII, 2020 TERM 1

WEEK-WISE PHARMACOLOGY SCHEDULE

WEEK	Monday Lecture 11:00 am-12:00 pm	Monday Practical (Group A) 12:00-03:00 pm	Thursday Practical (Group B) 12:00-03:00 pm	Thursday Lecture 11:00 am- 12:00 pm	Saturday Tutorial (Group A) 11:00 am- 12:40 pm (Group B) 12:40 pm- 2:20 pm
1	Introduction to Pharmacology.	Introduction: Terminology I	Introduction: Terminology I	Routes of drug administration	<b>Tutorial</b> Introduction: terminology I
2	<b>Pharmacokinetics:</b> Absorption & Distribution	Introduction: Terminology II	Introduction: Terminology II	<b>Pharmacokinetics:</b> Biotransformation/ Metabolism	<b>Tutorial</b> Introduction: Terminology II
3	<b>Pharmacokinetics:</b> Excretion	Pharmacological preparations	Pharmacological preparations	<b>Pharmacokinetics:</b> Factors modifying the dose and action of a drug. Dosage regimens	<b>Tutorial</b> Pharmacological preparations
4	<b>Pharmacodynamics:</b> Mechanism of action: Receptors: Types and Actions, Signaling mechanisms	Weights, measures and abbreviations.	Weights, measures and abbreviations.	<b>Pharmacodynamics:</b> Dose response relationship.	<b>Tutorial</b> Weights, measures and abbreviations.
5	<b>Pharmacodynamics:</b> Adverse drug reactions & Drug-Drug interactions	Calculations of solutions & ointments I	Calculations of solutions & ointments I	<b>Autonomic Nervous System (ANS).</b> Introduction	<b>Tutorial</b> Calculations of solutions & ointments I

6	<b>ANS</b> Parasympathomimetics	Calculations of solutions & ointments II	Calculations of solutions & ointments II	<b>ANS</b> Parasympatholytics	<b>Tutorial</b> Calculations of solutions & ointments II
7	<b>ANS</b> Sympathomimetics	Dosage calculations I	Dosage calculations I	<b>ANS</b> Sympatholytics	<b>Tutorial</b> Dosage calculations I
8	<b>Drugs used in Pain management and Arthritis.</b> NSAIDs (Aspirin)	Dosage calculations II	Dosage calculations II	<b>Drugs used in Pain management and Arthritis.</b> NSAIDs (Others)	<b>Tutorial</b> Dosage calculations II
9	<b>Drugs used in Pain management and Arthritis.</b> NSAIDs (Acetaminophen)	Prescription Writing	Prescription Writing	<b>Drugs used in Pain management and Arthritis.</b> Opioids	<b>Tutorial</b> Prescription Writing
10	<b>Drugs used in Pain management and Arthritis.</b> Treatment of Arthritis (Osteoarthritis, Rheumatoid arthritis, Gout)	<b>Presentation By Students:</b> SUB GROUP # A 1 (Roll No. 1 -3) Routes of drug administration	<b>Presentation By Students:</b> SUB GROUP # B 1 (Roll No. 26 – 28) Routes of drug administration	<b>Chemotherapeutic Drugs.</b> Introduction to anti-microbial therapy	<b>Tutorial Pharmacokinetics:</b> Absorption, Distribution and Excretion
11	<b>Chemotherapeutic Drugs</b> Cell wall synthesis inhibitors (Penicillins & Cephalosporins)	<b>Presentation By Students:</b> SUB GROUP # A 2 (Roll No. 4-5)  <b>Pharmacokinetics:</b> Biotransformation/Metabolism	<b>Presentation By Students:</b> SUB GROUP # B 2 (Roll No. 29 – 30)  <b>Pharmacokinetics:</b> Biotransformation/Metabolism	<b>Chemotherapeutic Drugs</b> Protein synthesis inhibitors-I (Macrolides)	<b>Tutorial Pharmacokinetics:</b> Factors modifying the dose and action of a drug. Dosage regimens

12	<b>Chemotherapeutic Drugs</b> Protein synthesis inhibitors-II (Tetracyclines & Chloramphenicol)	<b>Presentation By Students:</b> SUB GROUP # A 3 (Roll No. 6-8) <b>Pharmacodynamics:</b> Mechanism of action: Receptors: Types and Actions, Signaling mechanisms	<b>Presentation By Students:</b> SUB GROUP # B 3 (Roll No. 31 – 33) <b>Pharmacodynamics:</b> Mechanism of action: Receptors: Types and Actions, Signaling mechanisms	<b>Chemotherapeutic Drugs</b> Protein synthesis inhibitors-III (Aminoglycosides)	<b>Tutorial Pharmacokinetics:</b> Dose response relationship
13	<b>Chemotherapeutic Drugs</b> Anti-metabolites (Sulfonamides & Trimethoprim)	<b>Presentation By Students:</b> SUB GROUP # A 4 (Roll No. 9-10) <b>Pharmacodynamics:</b> Adverse drug reactions & Drug-Drug interactions	<b>Presentation By Students:</b> SUB GROUP # B 4 (Roll No. 34 – 35) <b>Pharmacodynamics:</b> Adverse drug reactions & Drug-Drug interactions	<b>Chemotherapeutic Drugs</b> Quinolones	<b>Tutorial ANS</b> Parasympathomimetics Parasympatholytics
14	<b>Chemotherapeutic Drugs</b> Anti-fungal drugs	<b>Presentation By Students:</b> SUB GROUP # A 5 (Roll No. 11-13)  <b>ANS</b> Sympathomimetics and Sympatholytics	<b>Presentation By Students:</b> SUB GROUP # B 5 (Roll No. 36 – 38)  <b>ANS</b> Sympathomimetics and Sympatholytics	<b>Chemotherapeutic Drugs</b> Anthelmintics	<b>Tutorial Drugs used in Pain management and Arthritis.</b>
15	<b>Chemotherapeutic Drugs</b> Anti-viral drugs	<b>Presentation By Students:</b> SUB GROUP # A 6 (Roll No. 14-15)  <b>Chemotherapeutic Drugs</b> Cell wall Synthesis Inhibitors (Penicillins & Cephalosporins)	<b>Presentation By Students:</b> SUB GROUP # B 6 (Roll No. 39 – 40)  <b>Chemotherapeutic Drugs</b> Cell wall Synthesis Inhibitors (Penicillins & Cephalosporins)	<b>Chemotherapeutic Drugs</b> Antiprotozoal drugs-I Anti-amaebiasis	<b>Tutorial Chemotherapeutic Drugs</b> Protein Synthesis inhibitors-I (Macrolides) Protein synthesis inhibitors-II (Tetracyclines & Chloramphenicol) Protein synthesis inhibitors-III (Aminoglycosides)

16	<b>Chemotherapeutic Drugs</b> Antiprotozoal drugs-II Anti-malarial drugs	<b>Presentation By Students:</b> SUB GROUP # A 7 (Roll No. 16-18)  <b>Chemotherapeutic Drugs</b> Anti-metabolites (Sulfonamides & Trimethoprim)	<b>Presentation By Students:</b> SUB GROUP # B 7 (Roll No. 41 – 43)  <b>Chemotherapeutic Drugs</b> Anti-metabolites (Sulfonamides & Trimethoprim)	<b>Chemotherapeutic Drugs</b> Anti-cancer drugs / Cytotoxic drugs	<b>Tutorial Chemotherapeutic Drugs</b> Quinolones
17	<b>Chemotherapeutic Drugs</b> Anti-tuberculous drugs	<b>Presentation By Students:</b> SUB GROUP # A 8 (Roll No. 19 -21)  <b>Chemotherapeutic Drugs</b> Anti-viral drugs	<b>Presentation By Students:</b> SUB GROUP # B 8 (Roll No. 44 – 46)  <b>Chemotherapeutic Drugs</b> Anti-viral drugs	<b>Chemotherapeutic Drugs</b> Mouthwashes & Oral Antiseptics	<b>Tutorial Chemotherapeutic Drugs</b> Anti-fungal drugs & Anthelmintics
18	<b>Revision</b>	<b>Presentation By Students:</b> SUB GROUP # A 9 (Roll No. 22-23)  <b>Chemotherapeutic Drugs</b> Anti-cancer drugs / Cytotoxic drugs	<b>Presentation By Students:</b> SUB GROUP # B 9 (Roll No. 47 – 48)  <b>Chemotherapeutic Drugs</b> Anti-cancer drugs / Cytotoxic drugs	<b>Revision</b>	<b>Tutorial Chemotherapeutic Drugs</b> Antiprotozoal drugs (Anti- amaebiasis & Anti- malarial drugs)
19	<b>Revision</b>	<b>Presentation By Students:</b> SUB GROUP # A 10 (Roll No. 24-25)  <b>Chemotherapeutic Drugs</b> Anti-tuberculous drugs	<b>Presentation By Students:</b> SUB GROUP # B 10 (Roll No. 49 – 51)  <b>Chemotherapeutic Drugs</b> Anti-tuberculous drugs	<b>Revision</b>	<b>Tutorial Chemotherapeutic Drugs</b> Mouthwashes & Oral Antiseptics

**Professor DR. Muhammad Yousuf Salat**

**Head Department of Pharmacology and Therapeutics,**

**Dow Dental College (DDC),**

**Dow University of Health Sciences (DUHS), Karachi.**