

**PHL 315 (2+1) – Pharmacology-I**  
**1<sup>st</sup> Semester 1442/1443**

<b>No</b>	<b>Date</b>	<b>Subject</b>	<b>Lecturer Male</b>
<b>1</b>	<b>Sunday 11/1/1442</b>	<b>Basic concepts in Pharmacology, Drug receptors, Drug-receptor interactions and regulation, Dose-response functions: affinity, efficacy and potency</b>	<b>Dr. Ali</b>
<b>2</b>	<b>Tuesday 13/1/1442</b>	<b>Dose response curves, types of agonists and antagonists, ED50, LD50, and Therapeutic Index, Drug Tolerance and dependence, Tachyphylaxis, Idiosyncrasy</b>	<b>Dr. Ali</b>
<b>3</b>	<b>Sunday 18/1/1442</b>	<b>Types of targets for drug action (mechanisms of drug action: receptor and non-receptor mechanisms), Mechanisms of desensitization</b>	<b>Dr. Ali</b>
<b>4</b>	<b>Tuesday 20/1/1442</b>	<b>Aspects of drug pharmacokinetics: absorption, distribution, biotransformation and elimination of Drugs, Factors modifying drug action</b>	<b>Dr. Ali</b>
<b>5</b>	<b>Sunday 25/1/1442</b>	<b>Introduction to the Autonomic Nervous System, Nonadrenergic, Noncholinergic (NANC) Neurons</b>	<b>Dr. Othman</b>
<b>6</b>	<b>Tuesday 27/1/1442</b>	<b>Types and subtypes of adrenergic receptors, adrenergic transmission, adrenergic receptor subtypes expression in various tissues and their pharmacological action</b>	<b>Dr. Othman</b>
<b>7</b>	<b>Sunday 3/2/1442</b>	<b>Pharmacological actions, uses and side effects of Direct and indirect adrenergic agonists.</b>	<b>Dr. Othman</b>
<b>8</b>	<b>Tuesday 5/2/1442</b>	<b>Pharmacological actions, uses and side Effects of Alpha adrenergic receptor blocking drugs</b>	<b>Dr. Othman</b>

No	Date	Subject	Lecturer Male
9	Sunday 10/2/1442	Pharmacological actions, uses and side Effects of beta-adrenergic receptor blocking drugs and adrenergic neuron-blocking agents	Dr. Othman
10	Tuesday 12/2/1442	Exam I	
11	Sunday 17/2/1442	Cholinergic transmission, types and subtypes of cholinergic receptors	Dr. Abdullah
12	Tuesday 19/2/1442	Parasympathetic Nervous System; intervention Mechanisms: Muscarinic agonists; acetylcholine and other cholinomimetics	Dr. Abdullah
13	Sunday 24/2/1442	Muscarinic Effects on the eye and muscarinic Antagonists & Nicotinic agonists and antagonists: Ganglionic Stimulants and Blockers	Dr. Abdullah
14	Tuesday 26/2/1442	Neuromuscular blocking drugs: Nondepolarizing and depolarizing skeletal muscle relaxant drugs	Dr. Abdullah
15	Sunday 1/3/1442	Drugs used to treat angina	Dr. Wail
16	Tuesday 3/3/1442	Drug used in hypertension 1-vasodilators: Such as hydralazine, nitroprusside, diazoxide, fenoldopam and organic nitrate. 2- calcium channel blockers	Dr. Wail
17	Sunday 8/3/1442	3- Angiotensin-Converting Enzyme Inhibitors, Angiotensin receptor antagonists	Dr. Wail
18	Tuesday 10/3/1442	Drugs used in ischemic heart Disease; Other vasodilators: phosphor-diestrase inhibitors type v: sildenafil , tadalafil and vardenafil	Dr. Mohamad
19	Sunday 15/3/1442	Local anesthetics (classification, local and systemic effects)	Dr. Mohamad
20	Tuesday 17/3/1442	Antiarrhythmic drugs (1)	Dr. Mohamad

No	Date	Subject	Lecturer Male
21	Sunday 22/3/1442	Antiarrhythmic drugs (2)	Dr. Mohamad
22	Tuesday 24/3/1442	Exam II	
23	Sunday 29/3/1442	Diuretic Agents (1): carbonic anhydrase inhibitors, Thiazides.	Dr. Mohamad
24	Tuesday 2/4/1442	Diuretic Agents (2): Potassium-sparing diuretics, Aldosterone antagonists, loop diuretics.	Dr. Mohamad
25	Sunday 7/4/1442	Diuretic Agents (3): Agents that alter water excretion-Osmotic diuretics and Antidiuretic Hormone (ADH) Agonists and antagonists	Dr. Mohamad
26	Tuesday 9/4/1442	Autacoids (1): Pharmacology of histamine, its analogues and antihistamine. Pharmacology of antihistamines (H1 and H2 receptors)	Dr. Naif
27	Sunday 14/4/1442	Autacoids (2): Pharmacology of the eicosanoids: Products of cyclooxygenases: prostaglandins, thromboxanes, & related Compounds.	Dr. Naif
28	Tuesday 16/4/1442	Autacoids (3) Pharmacology of eicosanoids: Analogues of Cyclooxygenases Products and their inhibitors	Dr. Naif
29	Sunday 21/4/1442	Autacoids (4): Pharmacology of the eicosanoids: lipoxygenase products and their blockers.	Dr. Naif
30	Tuesday 23/4/1442	Review	

بداية الاعداد العام الاحد 42/4/28

### COURSE EVALUATION

<b><u>Continuous Assessment:</u></b>	
<b>First Assessment Test</b>	<b>15 %</b>
<b>Second Assessment Test</b>	<b>15 %</b>
<b>Tutorials</b>	<b>10%</b>
<b>Practical</b>	<b>20%</b>
<b>Total</b>	<b>60 %</b>
<b><u>Final Examination:</u></b>	<b>40 %</b>
<b>Final Paper</b>	
<b>Total</b>	<b>40 %</b>
<b>Total Marks</b>	<b>100 %</b>