

SEMESTER II
LSM3218 CARDIOPULMONARY PHARMACOLOGY

Prerequisite: LSM3211 Fundamental Pharmacology

Workload: 20 lecture hours + 10 practical hours + 6 tutorial hours

This module focuses on drugs used to treat cardiovascular and pulmonary diseases. It provides an understanding of the pharmacological basis of cardiovascular therapeutics, and addresses the pharmacological properties of clinically useful drugs for cardiovascular and pulmonary systems. This module demonstrates the scientific basis of the therapeutic applications of these drugs, and these foundation principles will enhance understanding of safe and rational use of drugs in cardiovascular and pulmonary diseases.

S/N	Topics	Lecture hours
I	Module introduction Cardio-pulmonary physiology and Pharmacology <ul style="list-style-type: none"> Anatomy of Cardiovascular and Pulmonary Systems Physiology of Cardiovascular and Pulmonary Systems Cardiac electrophysiology and anti-arrhythmic Drugs Adrenergic and Anti-adrenergic Drugs Cholinergic and Anti-Cholinergic Drugs 	1 4 4Lecturer(s)
II	Cardiovascular drugs <ul style="list-style-type: none"> Antihypertensive drug I Antihypertensive drug II Drugs for Ischemic heart diseases Drugs for heart failure Lipid Lowering drugs Anti-thrombotics 	7 2 Lecturer(s)
III	Pulmonary drugs: <ul style="list-style-type: none"> Drugs for Asthma and COPD Drugs for pulmonary hypertension & fibrosis 	2 1 Lecturer(s)
IV	Clinical uses of drugs: <ul style="list-style-type: none"> Clinical uses of drugs in CVD Clinical uses of drugs in pulmonary diseases 	2 2 Lecturer(s)
V	Alternative Medicine and Therapeutic Intervention <ul style="list-style-type: none"> Natural products Stent devices Aerosol Therapy 	3 3Lecturer(s)
VI	Tutorials <ul style="list-style-type: none"> Antihypertension drugs Ischemic heart treatment Asthma and COPD 	6 2 Lecturer(s)
VII	Practical Effects of Caffeine on the Human Cardiovascular System	10 1 Lecturer(s)
		Total Lectures : 19 h
		Practicals : 10 h
		Tutorials : 6 h
		CA : 2 h
		Examination: 2 h
Total hours:		39 h

TEXT BOOK: Basic and Clinical Pharmacology 12/E (LANGE Basic Science)12th Edition 2012 (or latest edition), McGraw-Hill Medical

MODE OF ASSESSMENTS: 40% CA and 60% Final Exam

MODULE CO-ORDINATOR:

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