

SEMESTER II
LSM3219 NEUROPHARMACOLOGY

Prerequisite: LSM3211 Fundamental Pharmacology

Preclusion: LSM3221 Human Pharmacology

Workload: 22 lecture hours + 9 practical hours + 6 tutorial hours

This module introduces the pharmacological treatment of nervous system. It covers the actions of drugs and how they affect cellular function in the nervous system, and the neural mechanisms through which they influence behavior. Examples of drugs used to treat diseases and disorders of the nervous systems will be discussed.

S/N	Topics	Lecture hours
I	Introduction and Principles of Neuropharmacology	2 h Judy Sng
II	CNS drugs and their clinical uses <ul style="list-style-type: none"> • Sedatives and hypnotics • General and local anesthetics • Drugs used in pain management • Substance abuse and drug addiction • Drugs for depression and anxiety disorders • Drugs for psychosis and mania • Drugs used in epilepsies and neurodevelopmental disorders • Pharmacological management of Parkinsonism and other movement disorders • Drugs used in the treatment of dementia 	18 h Judy Sng, Mahmoud Pouladi and Christopher Chen
III	Clinical drug trials in neurosciences	2 h Christopher Chen
IV	Tutorials and Seminars <ul style="list-style-type: none"> • Basic neuropharmacology • Clinical uses of CNS drugs • Drug trials in CNS 	6 h Judy Sng, Mahmoud Pouladi and Michelle Tan
V	Practicals <ul style="list-style-type: none"> • Anesthetics • Genetics underlying Attention • Neurostimulants 	9 h Judy Sng and Mahmoud Pouladi
		Total Lectures : 22 h Practicals : 9 h Tutorials : 6 h CA : 1 h Examination: 2 h
Total hours:		40 h

TEXT BOOK: Basic and Clinical Pharmacology 12/E (LANGE Basic Science)12th Edition 2012 (or latest edition), McGraw-Hill Medical; Authors: Bertram Katzung, Susan Masters, Anthony Trevor

MODE OF ASSESSMENTS: 50% CA (5% Presentation, 20% Lab Report, 25% CAs) and 50% Final Exam

MODULE CO-ORDINATOR:

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