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VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT. S.Y. M.B.B.S.

Pharmacology and Pharmacotherapeutics

1. Goal

The broad goal of teaching pharmacology to undergraduate students is to inculcate in them a rational and scientific basis of therapeutics.

2. Educational objectives

(a) Knowledge

At the end of the course, the student shall be able to -

- i. describe the pharmacokinetics and pharmacodynamics of essential and commonly used drugs
- ii. list the indications, contraindications, interactions and adverse reactions of commonly used drugs
- iii. indicate the use of appropriate drug in a particular disease with consideration of its cost, efficacy and safety for -
 - individual needs, and
 - mass therapy under national health programmes
- iv describe the pharmacokinetic basis, clinical presentation, diagnosis and management of common poisonings
- v Integrate the list the drugs of addiction and recommend the management
- vi. Classify environmental and occupational pollutants and state the management issues
- vii. Explain pharmacological basis of prescribing drugs in special medical situations such as pregnancy, lactation, infancy and old age
- vii explain the concept of rational drug therapy in clinical pharmacology
- viii state the principles underlying the concept of `Essential Drugs'
- ix evaluate the ethics and modalities involved in the development and introduction of new drugs

(b) Skills

At the end of the course, the student shall be able to -

- i. prescribe drugs for common ailments
- ii. identify adverse reactions and interactions of commonly used drugs
- iii. interpret the data of experiments designed for the study of effects of drugs and bioassays which are observed during the study
- iv. scan information on common pharmaceutical preparations and critically evaluate drug formulations
- v. be well-conversant with the principles of pharmacy and dispense the medications giving proper instructions



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(c) Integration

Practical knowledge of rational use of drugs in clinical practice will be acquired through integrated teaching vertically with pre-clinical & clinical subjects and horizontally with other para-clinical subjects.

3. Total duration of para-clinical teaching

3 Semesters (III,IV,V) Total 360 teaching days

Total number of teaching hours allotted to Pharmacology 300 hours

- 4. Syllabus
- a. Learning methods

Lectures, tutorials, Practicals

Distribution of teaching hours

Theory

•	lectures	109 ± 5
•	tutorials	17 \pm 5
		Total 126 ± 10

B) Practicals

 120 ± 5

C) Revision & Evaluation (Internal Assessment)

.....60

b. & c. Sequential organisation of contents & their division

A) INTRODUCTION: Pharmacology - a foundation to clinical practice

(N=1)

Development of the branch of pharmacology; Scope of the subject; role of drugs as one of the modalities to treat diseases,

definition of drug;

nature and sources of drugs; subdivisions of pharmacology rational pharmacotherapy