

# **DEPARTMENT OF PHARMACOLOGY**

## **OVERVIEW –**

Pharmacology is the scientific study of drugs used for the treatment of diseases in human beings. Pharmacology is one of the foundation course of all medical sciences. Our Evidence based clinical Medicine is based on Pharmacology. It connects science, medicine, and health, and creates a framework for understanding how the drugs acts on human body. This understanding enables students to think rationally as to which drug need to be given to the right patient, in right dose, for appropriate duration contributing to the development of the core skills of a competent doctor.

Pharmacology department is a recently developed department in Government Medical College, Nandurbar which at present is conducting Lectures, Practicals, Tutorial, Seminars etc. as per the recent CBME curriculum. The department is at present getting equipped to fulfil students need and make them well trained medical professionals.

## **CURRICULUM:**

As per the MUHS Nashik, Based on National Medical Commission, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. (Vol. 1; page nos. 136-159)

## **GOAL:**

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

## **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.
- viii. 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.

### **(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.

### **FACULTY**

**Head of the Department:**

Sr. No.	Name	Designation	Qualification	Email ID
1.		Professor and HOD		
2.		Associate Professor		
3.	Dr. Vijay R. Kokani	Assistant Professor	MBBS, MD	<a href="mailto:vijaykokani@gmail.com">vijaykokani@gmail.com</a>
4.	Dr. Sudhir P. Pandhare	Assistant Professor	MBBS, MD	<a href="mailto:sudhirpushpapandurang@gmail.com">sudhirpushpapandurang@gmail.com</a>

**Faculty -**

Sr. No.	Designation	Photo	Faculty Details	
1	Professor & HOD		Name	
			Qualification	
			Teaching experience	
			Medical Registration Number	
2	Associate Professor		Name	
			Qualification	
			Teaching experience	
			Medical Registration	

			Number	
3	Assistant Professor		Name	Dr. Vijay R. Kokani
			Qualification	MD Pharmacology
			Teaching experience	UG- 6 years 9 months
			Medical Registration Number	2011/02/0126
4	Assistant Professor		Name	Dr. Sudhir P. Pandhare
			Qualification	MD Pharmacology
			Teaching experience	UG- 5 year 7 months
			Medical Registration Number	2016/12/4947

**List of non-teaching staff :-**

Sr. No.	Name	Designation
1.	Mr. Valmik Chavan	Lab. Assistant
2.	Miss Varsha Kokani	Lab. Technician
3.	Mr. Akshay Shinde	Jr. Clerk
4.	Mr. Sudhir Patil	Peon

## **Duties and Responsibilities -**

### **Professor in Pharmacology:**

1. To teach under graduate and post graduate students in the subject and Supervise the practical work.
2. To take tutorial classes.
3. To arrange teaching programme of the Department in consultation with the Dean.
4. To guide the conduct research in the subject.
5. To be incharge as Head of Pharmacology Department.
6. To do any other work that may be assigned to him by Dean from time to time.

### **Associate Professor in pharmacology:**

1. To assist the professor in the teaching subject.
2. To conduct tutorials and demonstrations.
3. To arrange and supervise the practicals in the Department.
4. To prepare specimens for museum, tutorials, practicals, etc. when required.
5. To assist the Professor Research.
6. To be responsible for the stores and laboratories under his charge.
7. To do any other duties assigned by the Professor or Dean of the College.

### **Assistant professor in pharmacology**

1. To conduct practical and tutorials classes.
2. To help Associate Professor and Professor in administrative and academic matters.
3. To assist in organising teaching programme of under-graduate and post-graduate students.
4. To assist Professor and Associate Professor in laboratory work.
5. To perform any other duties assigned by the Professor.

6. To be responsible for the stores and laboratories as assigned by higher authorities.

## **FACILITIES**

The department of pharmacology is at present getting equipped with the of following laboratories-

- 1) Experimental Pharmacology cum Computer Assisted Learning Laboratory (CAL)
- 2) Clinical Pharmacology and Clinical Pharmacy Laboratory
- 3) Research Laboratory

All the laboratories are provided with adequate infrastructure and equipments to accommodate 25 students.

Equipments: The department has all the necessary equipment's as per NMC norms.

## **DEPARTMENTAL RESEARCH & PUBLICATIONS -**

### **Dr. Vijay Kokani**

1. **Kokani VR**, Pandit PR, Bhawe KA. Antimicrobial prescribing pattern in the treatment of acute respiratory tract infections in children in a tertiary care hospital (Indoor patients). *Int J Basic Clin Pharmacol* 2016;5:1770-4.
2. Prasad R Pandit, **Vijay Kokani**, Kiran Bhawe. Prescribing pattern of antimicrobials used for treatment of acute respiratory tract infections in children. *International Journal of Recent Trends in Science and Technology* February 2016; 18(1): 171-175.
3. Shankpal PD, Hotwani JH, Chitnis KA, Tadke DS, **Kokani VR**. Evaluation of analgesic activity of allopurinol and febuxostat in experimental analgesic models in mice. *Indian J Pain* 2015;29:106-10.

### **Dr. Sudhir Pandhare**

1. **Pandhare et al**. Adverse drug reactions of Baclofen, Naltrexone, Acamprosate in patients having alcohol dependence: Cross sectional

pharmacovigilance study. Asian J Pharm Clin Res, Vol 17, Issue 4, 2024,111-114.