

## Pharmacology Department, KMC, Manipal

### **1. Why to choose MD Pharmacology at KMC Manipal?**

The scope of pharmacology is diverse as it relates to various aspects of medical sciences, ranging from knowledge of rational use of drugs in clinical practice to development of new medicines. The Department of Pharmacology at KMC Manipal has evolved over the years with its dedicated faculty imparting training to students as per the requirements of academia, research and industry. The postgraduate course in this subject at Manipal provides an unique opportunity to train in basic science, clinical and industry aspects of pharmacology. A key feature of our teaching – learning is that it involves individual and collaborative learning experiences. Our academia – industry interaction facilitates acquisition of skills, knowledge, and experience in order to work in pharmaceutical industry. Postgraduates are provided with the opportunity of industry internship during their training period. The Department is designated as Adverse drug reaction (ADR) monitoring centre as part of the National Pharmacovigilance Program of India and provides training in pharmacovigilance and drug safety. The department is also involved in reporting Medical Device Adverse Events as part of the Materiovigilance Program of India. Training will also be provided in emerging areas of pharmacology. Opportunities are provided to hone the presentation skills. Postgraduates are involved in teaching undergraduates to prepare them for a career in academia. Research is a vital part of the training. The well-established animal house helps students in carrying out basic research. Ample opportunities to conduct clinical research in collaboration with clinicians exists. Students are

trained in research encompassing basic and clinical pharmacology culminating in publications. The department has been involved in innovations with its faculty, along with those from the engineering college, developing an app to facilitate reporting of ADRs by our physicians.

### **Core Competencies pursued during postgraduate training at Manipal**

- Pharmacotherapeutics
- Pharmacovigilance, materiovigilance, pharmacoconomics, toxicology, clinical pharmacokinetics, bioavailability / bioequivalence studies and experimental pharmacology
- Process of new drug development
- Preparation of protocol for clinical and basic research and its execution within the ambit of regulatory guidelines
- Skills and knowledge relevant to pharmaceutical industry

### **Career opportunities after Post graduation**

Our postgraduates have been placed in academia and industry both in India and abroad. The graduating student can have multiple opportunities.

- One could pursue a career as a faculty in a medical college.
- Other options include clinical trial management, medical affairs, regulatory affairs, pharmacovigilance and drug safety, research, health technology assessment, medical / scientific communications or journalism, patent law and pharmaceutical/ biotechnology industry.
- Pharmacologists can become entrepreneurs by setting up their own Pharmaceutical Company.

- The student can also pursue higher education, eg. DM (clinical Pharmacology) or PhD if they want to take-up research. They can be appointed as Scientists in government/private research laboratories and can be members in various committees related to drug policies.
- Overall, the career destination for postgraduates are varied – academia, research, hospitals, regulatory bodies and pharmaceutical industry.

Also Visit: <https://manipal.edu/kmc-manipal/department-faculty/department-list/pharmacology.html>