

Clinical pharmacy Program

Tehran University of Medical Sciences

Welcome to the Department of Clinical Pharmacy at Tehran University of Medical Sciences.

Our department is the largest one in the Middle East with an excellent reputation in Clinical Pharmacy education, research and practice. Clinical Pharmacy activity began in 1991 in Iran. The first group of residents as Clinical Pharmacist entered a post graduate program in 1995. The first department of Clinical Pharmacy was established in 1996 at this University.

About the Department:

The Clinical Pharmacy division provides patient care in various practice settings, and promotes effective use of medications in the pursuit of health. The residency program is designed to be completed by full-time rotations in five years.

The Department administers residency programs for Pharm.D graduates that lead to a specialized degree in Clinical Pharmacy (Pharmacotherapy). The department of clinical pharmacy also provides pharmacy practice and related courses for Pharm. D students.

Department profile:

The Department of Clinical Pharmacy was established in 1984 and is the leader of Clinical Pharmacy and pharmacy practice in Iran with over fifteen full-time academic and professional staff.

The Department is involved in five principle areas: teaching undergraduate pharmacy curriculum, postgraduate residency of Clinical Pharmacy, clinical research, practice of Clinical Pharmacy and recently approved fellowship in Critical Care pharmacotherapy

Department mission and vision statement:

Our Mission

With the changing role of pharmacists, the department of clinical pharmacy is committed to exemplary teaching, patient-oriented research and practice of pharmacotherapy.

Education

- Provide innovative, inter-professional experience to develop students and pharmacists as integral members of the health care team
- Educate students and pharmacists to apply evidence-based approaches to practice
- Prepares students and pharmacists to become leaders in all practice settings

Patient Care

- Provide evidence-based care that optimizes medication use across all health care settings
- Optimize health outcomes through partnerships with patients, caregivers, health care professionals, policy makers and health plans
- Ensure safe and effective therapy through secure and reliable medication prescribing, supply and delivery systems by implementing rational use of drugs.

Research

- Generate and disseminate knowledge to advance patient care, medication safety, disease prevention and treatment, health care cost-effectiveness and quality, and pharmacy education

- Apply new knowledge to develop, evaluate and disseminate innovative health care delivery models, pharmacy education models, and health policies.

Our Vision

The department of Clinical Pharmacy is an eminent center for clinical pharmacy research, teaching and providing services to improve the health of individuals and the well-being of society.

Outline of courses:

For Clinical Pharmacy Residency:

Post Graduate Year 1 Residency: Advance Therapeutics, Clinical Pharmacokinetics, and Pathophysiology, biostatistics.

Post Graduate Year 2- 3: Specialized Residency in Critical Care, Gastroenterology, infectious diseases, Nephrology, Cardiology, Pediatrics, Oncology, Endocrinology, Drug Information Center, Psychiatry, general Surgery and Transplantation.

Post Graduate Year -4: Practice related Research (Residency Thesis)

For undergraduate Pharmacy students:

The department is involved in teaching following classes: First aids, therapeutics and pharmacy practice, hospital pharmacy clerkship, clinical pharmacy clerkship. The latter involves small group teaching and clinical case studies in clinical settings.

Clinical Pharmacy Program in Iran is a 4.5 year program. At the first year, residents participate in theoretical courses pathophysiology courses. At the second year they take part in didactic courses of advanced therapeutics and pharmacokinetics to expand their theoretical background. In completion of didactic part of their training, residents have to pass an exam for being eligible to enter the hospital wards. Residents are also required to spend 18 months of Clerkship. The residents participate actively in hospital rounds. Residents are responsible for all of the issues regarding patients' medications in the wards they are rotating. After completion of

their clerkship, the residents have to pass the board of Clinical Pharmacy. Sessions of case presentation in clinical pharmacotherapy are held by residents every week. The last year is spent on research project which can be started in the first year of training. All resident should have a publication of their thesis in a reputable international journal.

Residency Program

Courses (PhD)	No.
Core Courses	45
Elective Courses	4
Thesis	20
Total	48

Thesis courses are not included in total course count.

Core Courses:

No.	Course	credits	hour
1	Basics of pathophysiology	2	68
2	Physical Examination	1	34
3	Physical Examination	2	68
4	Advanced Pharmacology	4	85
5	Drug poisoning Information	2	34
6	Advanced Clinical Pharmacokinetics	3	51
7	Advanced pharmacotherapy	6	102
8	Advanced hospital pharmacy	3	85
9	Advanced Clinical toxicology	3	153
10	Advanced statistics	2	34

9	Professional English	4	68
10	Advanced Clinical Pharmacy Rotation	12	816
11	Research & Trial design	2	34
12	Computer Basics and Computer Programming	2	68
13	Thesis 1	2	
14	Thesis 2	4	
15	Thesis 3	4	
16	Thesis 4	4	
17	Thesis 5	6	

Elective Courses:

No.	Course	Credits
1	Computer Basics and Computer Programming	2
2	Advanced Biochemistry	2
3	Journal Club:Critical View	2
4	Advanced Nuclear Pharmacy	2
5	Analytical Methods II	2

2. Comprehensive examination:

Students should choose an advisor and write a thesis proposal which should be approved by the graduate committee within the first two years of their studies. Upon the completion of the remedial and required courses and approval of the thesis proposal, students should pass comprehensive examinations (written and oral) in order to be qualified to continue with doctoral work.

3. Defense of the dissertation prospectus:

Students are required to present and defend their thesis with the approval of faculty committee.

Research centers and laboratories:

Research Center for Rational Use of Drugs

Several academic faculty members are also actively involved in research centers related to their field of clinical practice.

Faculty:

Faculty members are clinical pharmacists who are appointed in clinical sites and are involved in a variety of practices including therapeutic areas (e.g. cardiology, critical care, gastroenterology, infectious diseases, endocrinology, nephrology, oncology, respiratory, transplantation, hematology, pediatrics and psychiatry). Their practices are done in Tehran University affiliated hospitals. The departments of clinical pharmacy faculty members are listed by ranking and alphabetically order as follows:

Padideh Ghaeli

Education: Pharm.D

Academic position: Professor of Clinical Pharmacy

Research interests: Psychiatric pharmacy

Kheirollah Gholami Education: Pharm.D

Academic position: Professor of Clinical Pharmacy, Head of the Department

Research interests: Evidence-based Pharmacotherapy/ Pharmacy Practice/ ADR,

Pharmacoepidemiology/Clinical Trials/ Rational Use of Drugs

Molouk Hadjibabaie

Education: Pharm.D

Academic position: Professor of Clinical Pharmacy

Research interests: Bone marrow transplant, Hematology.

Hossein Khalili

Education: Pharm.D

Academic position: Professor of Clinical Pharmacy

Research interests: Infectious diseases / Critical Care

Mojtaba Mojtahedzadeh

Education: Pharm.D

Academic position: Professor of Clinical Pharmacy

Research interests: Critical Care / Clinical Pharmacokinetics

SiminDashti-Khavidaki

Education: Pharm.D

Academic position: Associate Professor of Clinical Pharmacy

Research interests: Nephrology, Solid Organ Transplantation

Mohammadreza Javadi

Education: Pharm.D

Academic position: Associate Professor of Clinical Pharmacy

Research interests: Pharmacy Practice.

Mansoor Rastegarpanah

Education: Pharm.D

Academic position: Associate Professor of Clinical Pharmacy

Research interests: Gastroenterology / Hepatology / Nutrition

Shahideh Amini

Education: Pharm.D.

Academic Position: Assistant Professor of Clinical Pharmacy

Research interest: Respiratory / Critical Care

Toktam Faghihi

Education: Pharm.D

Academic position: Assistant Professor of Clinical Pharmacy

Research interests: Pediatrics

Zahra Jahangard Rafsanjani

Education: Pharm.D.

Academic Position: Assitant Professor of Clinical Pharmacy

Research Interest: Oncology

Hamid Khoei

Education: Pharm.D

Academic position: Assistant Professor

Research interests: Drug information

Mania Radfar

Education: Pharm.D

Academic position: Assistant Professor of Clinical Pharmacy

Research interests: Endocrinology.

Azita H. Talasaz

Education: Pharm. D, BCPS, AQ-Cardiology

Academic position: Assistant Professor of Clinical Pharmacy

Research interests: Cardiology

Hooshyar Honarmand

Education: Pharm. D

Academic position: Assistant Professor of Clinical Pharmacy

Admission and academic calendar:

September Admissions

International Applicants

Domestic Applicants

Department's regulations and privileges:

The Department of Clinical Pharmacy is in accordance with the general regulations of Tehran University of Medical Sciences.

Our alumni and job placement of graduates:

Our graduates will work as faculty members, in university affiliated hospitals, or in private hospitals/ university affiliated hospitals as clinical pharmacy practitioners.

Recommended reference books for each program:

Koda-Kimble and Young's Applied Therapeutics: The Clinical Use of Drugs.

DiPiro's Pharmacotherapy: A Pathophysiologic Approach.

Basic Clinical Pharmacokinetics.

FAQs:

Am I eligible to apply?

Applicants must have completed pharmacy to apply for Clinical Pharmacy program.

It's important to review the Faculty of Pharmacy Requirements of Tehran University of Medical Sciences to determine eligibility.

How do I apply?

Review the Application Procedure information and follow the steps outlined in Tehran University of Medical Sciences, Faculty of Pharmacy.

What are the admission requirements?

Applicants must submit an official transcript and an updated CV.