

RUR

Residency in Urology

(Edition 2013)

First Semester

Code	Name	CL	L	U	CA	HT	UDC
ME4140	Clinical Ethics	1.5	0	6	1.5	6	1.8
ME4142	Quality Health Care	1.5	0	6	1.5	6	1.8
ME4161	Medical Care in Urology I	0	60	12	3	60	3.5
ME4162	General Urology I	3	0	12	3	12	3.5
		6	60	36	9	84	10.6

Second Semester

Code	Name	CL	L	U	CA	HT	UDC
ME4141	Health Sciences Education	1.5	0	6	1.5	6	1.8
ME4143	Research and Innovation Methods	1.5	0	6	1.5	6	1.8
ME4163	Medical Care in Urology II	0	60	12	3	60	3.5
ME4164	General Urology II	3	0	12	3	12	3.5
		6	60	36	9	84	10.6

Third Semester

Code	Name	CL	L	U	CA	HT	UDC
ME4144	Thesis Project I	3	0	12	3	12	0
ME4165	Medical Care in Urology III	0	60	12	3	60	3.5
ME4166	General Urology III	3	0	12	3	12	3.5
		6	60	36	9	84	7

Fourth Semester

Code	Name	CL	L	U	CA	HT	UDC
ME4167	Medical Care in Urology IV	0	60	12	3	60	3.5
ME4168	General Urology IV	3	0	12	3	12	3.5
ME5190	Thesis Project II	3	0	12	3	12	
		6	60	36	9	84	7

Fifth Semester

Code	Name	CL	L	U	CA	HT	UDC
ME5209	Medical Care in Urology V	0	60	12	3	60	
ME5210	General Urology V	3	0	12	3	12	3.5
		3	60	24	6	72	3.5

Sixth Semester

Code	Name	CL	L	U	CA	HT	UDC
ME5211	Medical Care in Urology VI	0	60	12	3	60	
ME5212	General Urology VI	3	0	12	3	12	3.5
		3	60	24	6	72	3.5

Seventh Semester

Code	Name	CL	L	U	CA	HT	UDC
ME5191	Elective Specialty I	0	30	6	1.5	30	
ME5213	Medical Care in Urology VII	0	30	6	1.5	30	
ME5214	General Urology VII	3	0	12	3	12	3.5
		3	60	24	6	72	3.5

Eighth Semester

Code	Name	CL	L	U	CA	HT	UDC
ME5192	Elective Specialty II	0	30	6	1.5	30	
ME5215	Medical Care in Urology VIII	0	30	6	1.5	30	
ME5216	General Urology VIII	3	0	12	3	12	3.5
ME5266	Thesis Defense	0	0	1	.3	0	
		3	60	25	6.3	72	3.5

Academic credits

- CL** The letter "CL" indicates the number of class-hours per week.
- L** The letter "L" indicates the number of laboratory-hours per week.
- U** The letter "U" represents the equivalent time in courses lasting 15 weeks (semester) and 12 weeks (trimester), of weekly work that the student dedicates to the course to meet its objectives. They include the "class hours", as well as the time dedicated to the student's independent work.
- CA** The letters "CA" represents the number of semester credit hour of the course.
- HT** Total hours
- UDC** Load Units

Program and Learning Outcomes

General Program Objectives

The aims of the Residency in Urology of Tecnológico de Monterrey are to train exceptional urologists who meet the needs of patients with urological disorders, according to the highest quality and safety standards, in both inpatient and outpatient settings. It also seeks to prepare individuals with integrity and a humanistic outlook in their clinical, teaching and research practice, while strictly adhering to ethical principles and the standards of professional practice. Urologists who graduate from this institution are nationally and internationally competitive leaders who head the development of preventive action strategies, cost-effective diagnostic strategies, and innovative, successful treatments, in public and private institutions.

Learning Outcomes

On completing the program, students will be able to:

- Deliver medical and surgical care for patients with urological disorders, with professionalism and in compliance with ethical principles;
- Apply their knowledge of urology, clinical judgment and the bases of contemporary scientific evidence for medical decision making;
- Communicate knowledge of this specialty effectively to patients, family members, medical colleagues and other healthcare professionals;
- Manage inpatient clinical information by integrating scientific files that will have a positive impact on healthcare in urology.

Target Audience

The Multicentric Urology Program of Tecnológico de Monterrey is aimed at graduates from the bachelor's degree in Medicine, whose academic performance is outstanding; who are innate leaders with the capacity for growth and discovery of new frontiers in themselves, in medicine and in their profession; with a spirit of innovation and commitment to lifelong learning, hard work on a daily basis, and the strength to constantly provide top-quality care; with a genuine interest in the pursuit of research and teaching.

In order to be admitted to the Residency in Urology of Tecnológico de Monterrey, applicants must satisfactorily meet the graduate admission requirements stipulated by ITESM and the Mexican Ministry of Health.

Program Outcomes

Justification

The contemporary demands on doctors who work in Mexico in the area of Urology require that they make great efforts to continuously reduce morbidity and mortality from urological diseases. Diseases of the urinary system occupy fourth place nationally, with a mean national rate of 5,0 (INEGI, 2004). Moreover, the most common causes for hospital stays for the 45 to 64 year-old age group are those related to the genitourinary tract (OPS, Cap. Mexico), which, without adequate attention from competent urologists, will continue to grow at the same rate as the population growth, generating great health problems and unnecessary expenses for the nation.

Offering high-quality urological medicine requires strict discipline in the formation of healthcare professionals who are committed to the social, political, economic and cultural development of the community. In accordance with these demands, the Medical Residency in Urology seeks to train highly competent specialist doctors who are able to perform minimally invasive surgical techniques, as well as other new methods of study, medical treatment and surgery for the solution of problems of the prostate, urinary lithiasis and, above all, urogenital cancer. They must be people and professionals who act with integrity and ethical values in their daily activities, who respect life and human dignity, who are internationally competitive and who have capacity to provide complete and excellent medical attention, in accordance with the Mission and Vision of Tecnológico de Monterrey.

The Multicentric Program of Urology of Tecnológico de Monterrey is backed by excellent university infrastructure and an educational model based on skills and centered on the patient. It provides well-structured educational and research programs and processes, offered by medical specialists with educational training, who converge in a framework of medical attention with the Hospital ? Escuela San José TEC de Monterrey as its base hospital. This facility is a specialty hospital certified in quality processes for medical attention, with both inpatient and outpatient facilities, and a high-level urology department. Residents receive the state-of-the-art technological, scientific and educational support that they need for their development. They are exposed to different models of healthcare attention and management in a regional, national and international context, which allows them to acquire the skills necessary for successful performance in the different areas of Urology.

Program objectives

The aims of the Residency in Urology of Tecnológico de Monterrey are to train exceptional urologists who meet the needs of patients with urological disorders, according to the highest quality and safety standards, in both inpatient and outpatient settings. It also seeks to prepare individuals with integrity and a humanistic outlook in their clinical, teaching and research practice, while strictly adhering to ethical principles and the standards of professional practice. Urologists who graduate from this institution are nationally and internationally competitive leaders who head the development of preventive action strategies, cost-effective diagnostic strategies, and innovative, successful treatments, in public and private institutions.

Learning outcomes

Residents who graduate from the Urology program will be able to:

- Deliver medical and surgical care for patients with urological disorders, with professionalism and in compliance with ethical principles;
- Apply their knowledge of urology, clinical judgment and the bases of contemporary scientific evidence for medical decision making;
- Communicate knowledge of this specialty effectively to patients, family members, medical colleagues and other healthcare professionals;
- Manage inpatient clinical information by integrating scientific files that will have a positive impact on healthcare in urology.

Target audience

The Multicentric Program of Urology of Tecnológico de Monterrey is directed to graduates of Medicine, with an excellent academic record, with a vocation for and express interest in the discipline, who are innate leaders with the capacity to grow and discover new frontiers within themselves, medicine and their profession, with an innovative spirit and a commitment to continuous learning on a daily basis, with the strength to provide high-quality face-to-face patient services, and with a genuine interest in research and teaching.

For admission to the Residency in Urology of the School of Medicine and Health Sciences of the Tecnológico de Monterrey, candidates must satisfactorily meet all the graduate admissions requirements of the Tecnológico de Monterrey and of the Ministry of Health.

Research areas

Urology-Oncology: Trials and studies related to clinical research of renal tumors, testicular tumors, bladder tumors, urothelial tumors, and prostate cancer, as well as tumors of the male genital system.

Urologic infectious diseases and functional urology: Clinical and basic investigation of complicated and uncomplicated infectious conditions of the entire genitourinary tract in men and women, including the male reproductive system on an outpatient, inpatient and surgical basis. Clinical and urodynamic research in micturition disorders resulting from different pathologies such as: benign prostatic hyperplasia, neurogenic bladder and pelvic floor dysfunction. In addition, this branch of urology is responsible for addressing the different types of urinary incontinence and pelvic pain.

Endourology and laparoscopy: Endourology permits us to diagnose, treat and prevent the different types of urological pathologies with the best clinical practices that can be treated through physiological openings without the need to go through an external pathway to solve the problem by means of instruments with optical fibers, working channels for the introduction of lasers, ultrasonic or mechanical devices

Campus that offer this program

Campus	Number of periods offered	From	Closed for new students
Monterrey	Complete	Resid Espec Mar-Aug 2013	Resid Espec Mar-Aug 2024

Last update: 13/November/2023

Graduate Requirements

To obtain a specialty degree, a master's degree or Ph. D. degree at Tecnológico de Monterrey, students are required to:

1. Have completely finished the undergraduate cycle prior to passing the first course in the curriculum of the specialty, master program, medical residency, or doctoral program.
2. Have fulfilled, in compliance with existing standards, the academic prerequisites of the corresponding program, through proficiency tests or the corresponding remedial courses.
3. Have obtained a bachelor degree—with the antecedent of high school or its equivalent—that is equivalent to those offered by Tecnológico de Monterrey.
4. Have covered all the courses in the given curriculum, either by passing the courses at Tecnológico de Monterrey or by obtaining revalidation or equivalence agreements—in compliance with the standards—corresponding to part of the courses taken at other institutions, and passed the remaining courses at Tecnológico de Monterrey. Courses taken at foreign universities with which there are agreements are considered, for the effects of this article, as courses taken at Tecnológico de Monterrey, as long as they do not exceed a set percentage of the curriculum established by each graduate program.
5. In those curricula that so specify, to have prepared a research project or thesis that, having been defended before an academic committee, has been approved by said committee.
6. Have taken at least the equivalent of the second half of the corresponding curriculum at Tecnológico de Monterrey, in the case of students with revalidation or equivalence agreements at this level. Flexibility may be exercised in this standard in graduate programs that, under agreement, may be established jointly with other universities.