

Advanced Master's Degree Update on Urology



Advanced Master's Degree Update on Urology

- » Modality: online
- » Duration: 2 years
- » Certificate: TECH Global University
- » Accreditation: 120 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/medicine/advanced-master-degree/advanced-master-degree-update-urology

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01

Introduction to the Program

The field of Urology has undergone remarkable progress during the last decade thanks to the development of diagnostic and therapeutic technologies that have transformed the approach to complex pathologies. From the use of molecular biomarkers to the incorporation of minimally invasive surgical techniques, constant updating in this specialty is essential to optimize clinical outcomes and improve the quality of life of patients. With this in mind, TECH presents an innovative university program focused on the most recent advances in the urological field, which will allow specialists to maximize the precision and quality of their interventions to optimize the overall well-being of patients considerably. In addition, it is taught in a convenient, fully online mode.





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Through this 100% online program, you will handle the most modern urological diagnostic techniques to create personalized intervention plans that optimize patients' overall well-being significantly”

According to a new study conducted by the World Health Organization, Urological Diseases affect more than 250 million people globally. In this sense, the institution foresees that this rate will increase significantly in the coming years due to factors such as the aging of the population, changes in lifestyle or the increase in the prevalence of chronic pathologies. In the face of this reality, practitioners need to stay at the forefront of the latest innovations in the field of urology to improve clinical outcomes and reduce the burden of these conditions.

In this context, TECH has created a pioneering program in Update in Urology. Designed by references in this field, the academic itinerary will delve into issues ranging from the particularities of the molecular biology of cancer or the use of the most modern diagnostic techniques to assess the clinical status of patients to the use of the latest generation of technological tools such as multiparametric magnetic resonance imaging. As a result, graduates will acquire advanced clinical skills to develop personalized treatment plans, lead multidisciplinary teams and apply the latest therapeutic innovations to improve the quality of life of patients.

Regarding the methodology of this program, TECH offers a 100% online educational environment, which allows physicians to combine their studies with the rest of their regular responsibilities. It also employs its unique Relearning system, based on the repetition of key concepts to fix knowledge and facilitate the updating of knowledge. The only requirement is that professionals have a device with Internet access, even their own cell phone. In this way, they will be able to enter the Virtual Campus to enjoy an educational experience that will elevate their career horizons to a higher level. In addition, the program will include the participation of renowned International Guest Directors, who will give detailed Masterclasses.

This **Advanced Master's Degree in Update on Urology** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ Practical cases presented by experts in Urology
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies in urological clinic practice
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



Prestigious International Guest Directors will give exclusive Masterclasses that will help you master sophisticated techniques such as reconstructive procedures”

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You will delve into the integration of sophisticated technology such as Focal Therapies, which will help you increase accuracy and adherence to urological treatments”

Its teaching staff includes professionals from the field of Urology, who contribute their work experience to this program, as well as renowned specialists from leading companies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive learning experience designed to prepare for real-life situations.

This program is designed around Problem-Based Learning, whereby the student must try to solve the different professional practice situations that arise throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

Thanks to the Relearning system used by TECH, you will reduce the long hours of study and memorization. You will update your knowledge in a natural way!

You will design individualized therapeutic strategies for the optimal approach to diseases such as renal carcinoma.



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs, available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it has a huge faculty of more than 6,000 professors of the highest international prestige.



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Study at the largest online university in the world and ensure your professional success. The future begins at TECH”

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

Forbes

The best online university in the world

The most complete syllabus

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

TOP
international faculty



The most effective methodology

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

World's No.1
The World's largest online university

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.



The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



03 Syllabus

The teaching materials that integrate this program have been elaborated by true referents in Urology, taking into account the most recent innovations in this area. The curriculum will delve into issues ranging from the molecular biological foundations of cancer or therapeutic advances in the approach to testicular cancer to the use of state-of-the-art technological instruments such as multiparametric magnetic resonance imaging. As a result, graduates will develop advanced clinical skills to apply treatments with precision and manage complex urological clinical cases with greater accuracy.





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You will delve into the use of robotic technologies, advanced laparoscopy and Artificial Intelligence tools to optimize clinical outcomes”

Module 1. Update in Oncological Principles, Functional Sequelae and Supportive Treatment of Patients with Urologic Tumors

- 1.1. Molecular Biology of Cancer
- 1.2. Prognostic Factors, Tumor Markers and Paraneoplastic Syndromes in Urologic Oncologic Pathology
- 1.3. Tumor Genetics
- 1.4. Oncologic Emergencies in Urology
- 1.5. Oncologic Principles: Etiology, Susceptibility, Epidemiological
- 1.6. Principles of Urologic Surgical Oncology
- 1.7. Clinical Trials in Urologic Oncology Patients
- 1.8. Supportive Care of the Oncologic Patient in Urology
- 1.9. Genitourinary Functional Sequelae of Oncologic Treatments in Urology.
 - 1.9.1. Surgical Andrology
 - 1.9.2. Reconstructive Surgery
- 1.10. Nuclear Medicine and Molecular Imaging in Oncologic Tumor Pathology
 - 1.10.1. Scientific Evidence in Urologic Oncology
 - 1.10.2. New Tracers

Module 2. Advances in the Diagnosis, Treatment and Monitoring of Non-Muscle Invasive Bladder Carcinoma

- 2.1. Epidemiology and Etiopathogenesis
- 2.2. Pathologic Anatomy
 - 2.2.1. TNM
 - 2.2.2. WHO
 - 2.2.3. Biopsies/Samples
 - 2.2.4. Risk Factors
 - 2.2.5. Other Factors: T1A-A, Lymphovascular Invasion, Variants, Markers, etc.
 - 2.2.6. CIS
- 2.3. Diagnosis Part I
 - 2.3.1. Clinical Symptoms
 - 2.3.2. Imaging Tests
 - 2.3.3. Urine Cytology
 - 2.3.4. Molecular Markers (Clinical Applications to Date)

- 2.4. Diagnosis Part II
 - 2.4.1. Cystoscopy
 - 2.4.2. Photodynamic Diagnosis
 - 2.4.3. NBI
 - 2.4.4. Second TURP
- 2.5. Risk Groups
 - 2.5.1. EORTC
 - 2.5.2. Risk and Progression Charts; CUETO
 - 2.5.3. CIS
- 2.6. Adjuvant Treatment with Chemotherapy
 - 2.6.1. Single Dose Post-TURP
 - 2.6.2. Adjuvant
 - 2.6.3. Options to Increase Efficiency
- 2.7. Adjuvant Treatment with BCG
 - 2.7.1. Advantages
 - 2.7.2. Strains
 - 2.7.3. Toxicity and Treatment
 - 2.7.4. Dose
 - 2.7.5. Treatment Plans
- 2.8. Endovesical Alternatives
 - 2.8.1. Doxorubicin
 - 2.8.2. Epirubicin
 - 2.8.3. Gemcitabine
 - 2.8.4. Onco Thiotepa
- 2.9. Adjuvant Treatment of CIS
- 2.10. Treatment Plans in the Event of Standard Treatment Failure
 - 2.10.1. Definition of Failure
 - 2.10.2. After Chemotherapy
 - 2.10.3. After BCG
- 2.11. Radical Cystectomy in Non-Muscle Invasive Bladder Carcinoma
 - 2.11.1. Fundamentals
 - 2.11.2. Immediate vs. Early Onset
 - 2.11.3. After BCG Failure
- 2.12. Monitoring

Module 3. Advances in the Diagnosis, Treatment and Monitoring of Muscle Invasive Bladder Carcinoma

- 3.1. Pathologic Anatomy
 - 3.1.1. Lymph Node Involvement
 - 3.1.2. Margins
 - 3.1.3. Histological Variants
 - 3.1.4. Muscle Invasion Pattern
 - 3.1.5. Markers: p53, etc
 - 3.1.6. TNM
- 3.2. Urethral Involvement and Concomitant Prostate Cancer
- 3.3. Staging
 - 3.3.1. Local: MRI and CT
 - 3.3.2. Lymph Node: MRI; CT; PET
 - 3.3.3. TUS: UROTAC
 - 3.3.4. Future: FDG-PET-CT; DCE-MRI; DWI-MRI
- 3.4. Radiotherapy
 - 3.4.1. Neoadjuvant
 - 3.4.2. Palliative
 - 3.4.3. Adjuvant
- 3.5. Neoadjuvant Chemotherapy
- 3.6. Radical Cystectomy
 - 3.6.1. Risk Assessment
 - 3.6.2. Delay Time
 - 3.6.3. Lymphadenectomy: Extent and Number
 - 3.6.4. Urinary Diversion
 - 3.6.5. Postoperative Complications
 - 3.6.6. Palliative Cystectomy
 - 3.6.7. Laparoscopic vs Robotic Surgery
- 3.7. Bladder Preservation Programs
 - 3.7.1. TURBT
 - 3.7.2. Radiotherapy
 - 3.7.3. Chemotherapy
 - 3.7.4. Multimodal Treatments

- 3.8. Neoadjuvant Chemotherapy
- 3.9. Metastatic Cancer
 - 3.9.1. Poor Prognosis Factors
 - 3.9.2. Prognostic Groups/Adverse Factors
 - 3.9.3. Definition of Cisplatin "Ineligible"
 - 3.9.4. Single-Agent Chemotherapy
 - 3.9.5. Standard Cisplatin "Eligible" Patient Treatment
 - 3.9.6. Alternative/2nd Line Treatment of Cisplatin "Eligible" Patients.
 - 3.9.7. Treating "Ineligible" Patients
 - 3.9.8. Treating Symptomatic Patients
- 3.10. Monitoring
 - 3.10.1. Treatment of Bone Metastases
 - 3.10.2. Rescue Surgery
 - 3.10.3. Urothelial Recurrence: Urethra and TUS
- 3.11. Role of Immunotherapy
- 3.12. Major Ongoing Clinical Trials
- 3.13. Particularities of Other Histologies

Module 4. Advances in the Diagnosis, Treatment and Monitoring of Testicular Cancer

- 4.1. Epidemiology and Staging
- 4.2. Diagnosis and Clinical Staging
 - 4.2.1. Physical Examination
 - 4.2.2. Doppler Ultrasound
 - 4.2.3. Tumor Markers
 - 4.2.4. CAT and MRI
 - 4.2.5. FDG-PET-CAT
 - 4.2.6. TNM
- 4.3. Staging
 - 4.3.1. Risk Groups
 - 4.3.2. Risk Factors/Prognosis

- 4.4. Orchiectomy
 - 4.4.1. Indications
 - 4.4.2. Role of Deferred Surgery
 - 4.4.3. Conservative Surgery
 - 4.4.4. Contralateral Biopsy
- 4.5. Pathologic Anatomy
 - 4.5.1. Role of the Pathologist in the Diagnosis of Testicular Neoplasms
 - 4.5.2. WHO 2016 Classification of Germinal Neoplasms
 - 4.5.3. Diagnostic Algorithm for Non-Germinal Neoplasms
 - 4.5.4. Staging
- 4.6. Stage I Treatment: Seminoma
 - 4.6.1. Monitoring
 - 4.6.2. Radiotherapy
 - 4.6.3. Adjuvant Chemotherapy
 - 4.6.4. Retroperitoneal Lymphadenectomy
 - 4.6.5. Risk-Adapted Treatment
- 4.7. Stage I Treatment: Non-Seminoma
 - 4.7.1. Monitoring
 - 4.7.2. Adjuvant Chemotherapy
 - 4.7.3. Retroperitoneal Lymphadenectomy
 - 4.7.4. Risk-Adapted Treatment
- 4.8. Treatment of Metastatic Germ Cell Tumors
- 4.9. Residual Tumor Mass
- 4.10. Systemic Treatment of Tumor Relapse
- 4.11. Monitoring
- 4.12. Testicular Stromal Tumors: Diagnosis, Treatment and Monitoring

Module 5. Advances in the Diagnosis, Treatment, and Monitoring of Penile Cancer

- 5.1. Epidemiology, Etiology, and Risk Factors
- 5.2. Pathological Anatomy
 - 5.2.1. Premalignant Lesions
 - 5.2.2. Histological Subtypes of Carcinoma of the Penis
 - 5.2.3. TNM
 - 5.2.4. Prognostic Factors
 - 5.2.5. Molecular Biology
- 5.3. Diagnosis and Staging
 - 5.3.1. Clinical Symptoms
 - 5.3.2. Physical Examination
 - 5.3.3. Imaging Tests: Ultrasound; MRI; CT; PET-CT-FDG
- 5.4. Images of Penile and Urethral Cancer
- 5.5. Anatomical Considerations of the Penis and Lymphatic Drainage
- 5.6. Treatment of Penile Cancer I: Surgical Treatment of the Primary Tumor
 - 5.6.1. Non-Invasive Superficial Disease: CIS
 - 5.6.2. Invasive Disease Confined to the Glans Penis: Ta/T1a
 - 5.6.3. Invasive Disease: T1b/T2
 - 5.6.3.1. Confined to Corpus Spongiosum
 - 5.6.3.2. Invasion of Corpus Cavernosum
 - 5.6.4. Invasive Urethral Disease: T3.
 - 5.6.5. Invasive Disease of Adjacent Structures: T4.
- 5.7. Treatment of Carcinoma of the Penis II: Lymph Nodes
 - 5.7.1. Daseler's Inguinal Anatomical Zones
 - 5.7.2. General Considerations

- 5.7.3. Risk Stratification for Nodal Involvement in cN0
 - 5.7.3.1. Monitoring
 - 5.7.3.2. Lymph Node Staging
- 5.7.4. Modified Lymphadenectomy
- 5.7.5. Dynamic Sentinel Lymph Node Biopsy
 - 5.7.5.1. cN1/cN2
 - 5.7.5.2. Radical Inguinal Lymphadenectomy
 - 5.7.5.3. Pelvic Lymphadenectomy
- 5.7.6. cN3
- 5.7.7. Controversies in Ilioinguinal Lymphadenectomy
- 5.8. Penile Cancer Treatment III: Radiotherapy
 - 5.8.1. Indications
 - 5.8.1.1. Ta/T1a
 - 5.8.1.2. T2.
 - 5.8.2. Lymph Node Involvement
- 5.9. Penile Cancer Treatment IV: Systemic
 - 5.9.1. Adjuvant Chemotherapy
 - 5.9.2. Neoadjuvant Chemotherapy
 - 5.9.3. Palliative Chemotherapy
 - 5.9.4. Targeted Therapy
- 5.10. Monitoring
 - 5.10.1. Overview
 - 5.10.2. Clinical Guides
 - 5.10.3. Local Recurrence
 - 5.10.4. Regional Recurrence
- 5.11. Quality of Life
- 5.12. Primary Urethral Carcinoma

Module 6. Advances in the Diagnosis, Treatment and Monitoring of Renal, Suprarenal and Retroperitoneal Carcinoma

- 6.1. Epidemiology and Etiopathogenesis
- 6.2. Diagnostic Imaging and Clinical Staging
 - 6.2.1. Doppler and Contrast Ultrasound: Evaluation of Complicated Renal Cyst, Renal Mass and Dissemination
 - 6.2.2. MRI and CT: Diagnosis, Staging and Monitoring
- 6.3. Pathologic Anatomy
 - 6.3.1. WHO
 - 6.3.2. ISUP
 - 6.3.3. Fuhrman
 - 6.3.4. Clear Cells
 - 6.3.5. Papillary
 - 6.3.6. Chromophobic
 - 6.3.7. Other Histologies
- 6.4. Renal Tumor Biopsy
 - 6.4.1. Technical Aspects
 - 6.4.2. Indications
 - 6.4.3. Side Effects
 - 6.4.4. Efficacy
 - 6.4.5. Cystic Lesions
- 6.5. Prognostic Factors
 - 6.5.1. TNM
 - 6.5.2. Histological Factors
 - 6.5.3. Clinical Factors
 - 6.5.4. Molecular Factors

- 6.6. Localized Renal Carcinoma
 - 6.6.1. Monitoring
 - 6.6.2. Radical Surgery vs. Nephron-Sparing Surgery
 - 6.6.3. Nephron-Sparing Surgery
 - 6.6.4. Adrenalectomy
 - 6.6.5. Lymphadenectomy
 - 6.6.6. Prenephrectomy Embolization
 - 6.6.7. Ablative Treatments
 - 6.7. Advanced Localized Renal Carcinoma
 - 6.7.1. cN+
 - 6.7.2. Unresectable Tumors
 - 6.7.3. IVC Thrombosis
 - 6.7.4. Adjuvant and Neoadjuvant Treatment
 - 6.7.5. Clinical Trials
 - 6.8. Advanced or Metastatic Renal Carcinoma
 - 6.8.1. The Role of Radical Nephrectomy
 - 6.8.2. Cytoreductive Surgery + Immunotherapy
 - 6.8.3. Role of Metastasectomy
 - 6.8.4. Radiotherapy
 - 6.8.5. Embolization
 - 6.8.6. Symptomatic Treatment of Patients with Renal Carcinoma
 - 6.9. Systemic Treatment
 - 6.9.1. Chemotherapy
 - 6.9.2. Immunotherapy
 - 6.9.2.1. Advances in Immunotherapy
 - 6.9.2.2. α -IFN
 - 6.9.2.3. IL-2
 - 6.9.2.4. Vaccines and Targeted Immunotherapies
 - 6.9.2.4.1. Tumor Antigen 5T4 + 1st Line Therapies
 - 6.9.2.4.2. Anti PD-1 or PD-L1 Antibodies
 - 6.9.3. Targeted Therapy
 - 6.9.3.1. Advances in Targeted Therapy
 - 6.9.3.2. IMDC Risk/Prognostic Groups: Therapeutic Implication
 - 6.9.3.3. Tyrosine Kinase Inhibitors
 - 6.9.3.4. Monoclonal Antibodies Against Circulating VEGF
 - 6.9.3.5. mTOR Inhibitors
 - 6.9.4. 1st Line Treatment: Sunitinib
 - 6.9.5. 2nd Line Treatment: Pazopanib
 - 6.9.6. 1st Line Treatment: Other Options
 - 6.9.7. 1st Line Treatment in Patients with Poor Prognosis: Temsirolimus
 - 6.9.8. 1st Line Treatment Positioning
 - 6.9.9. 2nd Line Treatment: Axitinib
 - 6.9.10. 2nd Line Treatment: Everolimus
 - 6.9.11. 2nd Line Treatment: Cabozantinib
 - 6.9.12. 2nd Line Treatment: Nivolumab
 - 6.9.13. 2nd Line Treatment: Subsequent Options
 - 6.9.14. Therapeutic Sequencing in Renal Carcinoma: Treatment Positioning
 - 6.9.15. Symptomatic Treatment of Patients With Renal Carcinoma
 - 6.9.16. Non-Clear Cell Carcinomas
- 6.10. Monitoring
 - 6.10.1. Imaging Tests
 - 6.10.2. Recurrence: Local and Distant
 - 6.10.3. Ablative Treatments
- 6.11. Drug Resistance Mechanism
- 6.12. Major Developments in Metastatic Kidney Cancer: Ongoing Clinical Trials
- 6.13. Suprarenal Mass
 - 6.13.1. Differential Diagnosis
 - 6.13.2. Functioning Mass Diagnosis
 - 6.13.3. Surgical Treatment
 - 6.13.4. Metastatic Cancer

- 6.14. Primary Retroperitoneal Tumors
 - 6.14.1. Differential Diagnosis
 - 6.14.2. Diagnostic Techniques
 - 6.14.3. Surgical Treatment
 - 6.14.4. Metastatic Cancer

Module 7. Advances in the Diagnosis, Treatment and Monitoring of Prostate Cancer

- 7.1. Epidemiology and Risk Factors
- 7.2. Diagnosis
 - 7.2.1. TR
 - 7.2.2. PSA: Density, Kinetics, Ratio, PHI, etc.
 - 7.2.3. Other Markers: Genetic, PCA3, 4K, etc.
 - 7.2.4. Prostate Biopsy
- 7.3. Screening vs. Early Diagnosis
- 7.4. Diagnostic Imaging
 - 7.4.1. Ultrasonography: Sonoelastography, Contrast, Histoscanning, etc.
 - 7.4.2. Bone Scan
 - 7.4.3. CAT
 - 7.4.4. MRI
 - 7.4.5. PET-CAT
 - 7.4.6. mpMRI: Technical Aspects
- 7.5. Pathologic Anatomy
 - 7.5.1. Biopsies
 - 7.5.2. RP Piece
- 7.6. Clinical and Pathologic Staging
- 7.7. Deferred Treatment
 - 7.7.1. Localized Prostate Cancer: AS vs. WW
 - 7.7.2. Locally Advanced
 - 7.7.3. Metastatic
- 7.8. Localized Prostate Cancer
 - 7.8.1. RT: General Information
 - 7.8.1.1. IMRT/IGRT
 - 7.8.1.2. Dose Escalation
 - 7.8.1.3. Hormone Therapy
 - 7.8.1.4. RxT + CT
 - 7.8.1.5. Dose Escalation + Hormone Therapy
 - 7.8.2. PR: General Information
 - 7.8.2.1. Surgical Technique: Open-Laparoscopic-Robotic
 - 7.8.2.2. Conservation of Neurovascular Bundles
 - 7.8.3. Focal Therapy
- 7.9. Radical Prostatectomy
 - 7.9.1. Low-Risk
 - 7.9.2. Medium-Risk
 - 7.9.3. High-Risk and Locally Advanced
 - 7.9.4. Lymphadenectomy and Lymph Node Involvement
 - 7.9.5. Adjuvant and Neoadjuvant Hormone Therapy
 - 7.9.6. Conservation of Neurovascular Bundles: Indications and Results
- 7.10. Radiotherapy
 - 7.10.1. Low-Risk
 - 7.10.2. Medium-Risk
 - 7.10.3. High-Risk
 - 7.10.4. Locally Advanced: MRC P23/PR07; TAP 32; SPCG-7/SFUO-3
 - 7.10.5. Ganglion Chains: RTOG 85-31; UK-STAMPEDE
 - 7.10.6. Proton Therapy
 - 7.10.7. Low-Dose-Rate Brachytherapy
 - 7.10.8. High-Dose-Rate Brachytherapy
 - 7.10.9. RxT after RP: EORTC 22911; ARO; SWOG 8794
 - 7.10.10. Nodes
- 7.11. Cryosurgery
- 7.12. HIFU

- 7.13. Focal Therapy
 - 7.13.1. Negative Biopsy + Elevated PSA
 - 7.13.2. mpMRI
 - 7.13.3. Biomarkers
 - 7.13.4. Future
 - 7.13.5. PI-RADS Scientific Evidence
 - 7.13.6. Ultrasound-Guided Prostate Biopsy +MRNR
 - 7.13.6.1. Advances in Ultrasound-Guided Prostate Biopsy
 - 7.13.6.2. Material
 - 7.13.6.3. Technique: Transrectal/Transperineal
 - 7.13.7. Fusion Biopsy
 - 7.13.8. Cognitive Biopsy
 - 7.13.9. Scientific Evidence
 - 7.13.10. Cost-Effectiveness of MRI in the Detection of Prostate Cancer
 - 7.13.11. Focal Therapy: Index Lesion; Clonal Theory
 - 7.13.12. Selection Criteria. Risk Stratification
 - 7.13.13. Energy Sources: HIFU, Cryotherapy, Brachytherapy, Electroporation, Photodynamic Therapy, Cyberknife
 - 7.13.14. Monitoring and Recurrence
- 7.14. Metastatic Prostate Cancer
 - 7.14.1. Standard Treatment: Hormone Therapy
 - 7.14.2. SWOG: Risk Groups
 - 7.14.3. Intermittent Blocking
- 7.15. Castration Resistance: Etiology
- 7.16. CRPC Definition New Criteria
- 7.17. Clinicopathological Prognostic Factors in CRPC. Androgen Deprivation in mCRPC. Response Markers
- 7.18. Non-Metastatic CRPC (CRPC-M0). Clinical Management. Monitoring Criteria
- 7.19. Hormonal Maneuvers in CRPC. Scientific Evidence
- 7.20. 1st Line Chemotherapy Treatment: Docetaxel
 - 7.20.1. mCRPC
 - 7.20.2. CRPC
- 7.21. Non-1st Line Chemotherapy Treatment: Cabazitaxel. Other Drugs
- 7.22. Hormone Treatment in CRPC: Abiraterone
 - 7.22.1. mCRPC
 - 7.22.2. CRPC
- 7.23. Hormone Treatment in CRPC: Enzalutamide
 - 7.23.1. mCRPC
 - 7.23.2. CRPC
- 7.24. Treatment with Bone-Targeted Agents
 - 7.24.1. Bisphosphonates
 - 7.24.2. Denosumab
 - 7.24.3. Radium-223
- 7.25. Immunotherapy in mCRPC
- 7.26. Symptomatic Treatment of Patients with CRPC
- 7.27. Treatment Algorithm in CRPC: Positioning and Sequencing
- 7.28. Mechanisms of Resistance to Hormonal Treatment in CRPC: AR-V7 and Other Related Factors
- 7.29. Molecular Biology of CRPC: BRCA and Related Genes
- 7.30. Molecular Biology of CRPC: Epigenetic. Angiogenesis
- 7.31. Molecular Biology of CRPC: Other Molecular Pathways Involved
- 7.32. Main Ongoing Clinical Trials in CRPC
- 7.33. Future Outlook of CRPC

Module 8. Latest Advances in Surgical Anatomy Laparoscopic Anatomy

- 8.1. Upper Surgical Anatomy
- 8.2. Lower Surgical Anatomy
- 8.3. Surgical Anatomy of the Pelvic Floor

Module 9. Basic Aspects of Urologic Surgery

- 9.1. Basic Perioperative Aspects
- 9.2. Instrumentation and Drainage of the Urinary Tract
- 9.3. Basic Principles of Endourology.
- 9.4. Basic Principles in a Laparoscopy, Minilaparoscopy and 3D
- 9.5. Basic Principles in Robot Assisted Laparoscopic Surgery
- 9.6. Basic Principles in Single Port Laparoscopic Surgery
- 9.7. Basic Principles in Surgery Notes/e-Notes

Module 10. Latest Advances in Diagnosis and Treatment Techniques in Urology

- 10.1. Flexible Cystoscopy
- 10.2. Prostate Ultrasound
- 10.3. Testicular Ultrasound / Testicular Doppler
- 10.4. Penile Ultrasound / Penile Doppler
- 10.5. Intravesical Instillation of Drugs
- 10.6. Pyelography
- 10.7. Adult Urodynamic Study
- 10.8. Pediatric Urodynamic Study
- 10.9. Prostate Biopsy
- 10.10. Multiparametric MRI
- 10.11. Bone Scanning
- 10.12. PET-CAT
- 10.13. Isotopic Renogram

Module 11. Latest Trends in Suprarenal and Retroperitoneal Surgical Pathology

- 11.1. Right Adrenalectomy
- 11.2. Left Adrenalectomy
- 11.3. Partial Adrenalectomy
- 11.4. Surgery for Adrenal Carcinoma
- 11.5. Excision of Retroperitoneal Tumors

Module 12. Latest Trends in Renal Surgical Pathology

- 12.1. Open Radical Nephrectomy with Cava Thrombus
- 12.2. Laparoscopic Intra/Retro Peritoneal Nephrectomy
- 12.3. Partial Nephrectomy / Off Clamp Lumpectomy
- 12.4. Partial Nephrectomy / Selective Lumpectomy or Supraselective Clamping
- 12.5. Living Donor Nephrectomy
- 12.6. Focal Treatment of Renal Tumors

Module 13. New Advances in the Field of Kidney Transplant

- 13.1. Renal Extraction
- 13.2. Heterotopic Renal Transplant
- 13.3. Orthotopic Renal Transplant
- 13.4. Robotic Renal Transplant
- 13.5. Renal Autotransplantation
- 13.6. Ureteroneocystostomy. Types

Module 14. New Advances in the Field of Vascular Kidney Transplant

- 14.1. Renal Artery Stenosis: Percutaneous Treatment
- 14.2. Renal Artery Stenosis: Surgical Treatment
- 14.3. Renal Artery Aneurysm. Percutaneous Treatment
- 14.4. Renal Artery Aneurysm. Surgical Treatment
- 14.5. Renal Embolization post NLP and NP

Module 15. Latest Trends in Surgical Pathology of the Upper Urinary Tract

- 15.1. Laparoscopic Nephroureterectomy and Surgical Treatment of the Distal Ureter
- 15.2. Endoscopic Treatment of the Upper Urinary Tract Tumors
- 15.3. Percutaneous Nephrostomy
- 15.4. Lithiasis Fragmentation Methods: Energy Types
- 15.5. Percutaneous Nephrolithotomy in Prone Position
- 15.6. Percutaneous Nephrolithotomy in Supine Position
- 15.7. "Mini Percutaneous" Nephrolithotomy: Types
- 15.8. Retrograde Intrarenal Surgery (CRIR or RIRS)
- 15.9. Combined Antegrade and Retrograde Surgery (ECIRS / microECIRS)
- 15.10. Ureteral Access Sheaths. Types and Compatibilities
- 15.11. Extracorporeal Shock Wave Lithotripsy (ESWL)
- 15.12. Semi-Rigid Ureteroscopy (SRU): Microureteroscopy (Micro-URS)
- 15.13. Antiretroviral Mechanisms and Techniques
- 15.14. Endourologic Treatment of Infundibular Stenosis Diverticulum

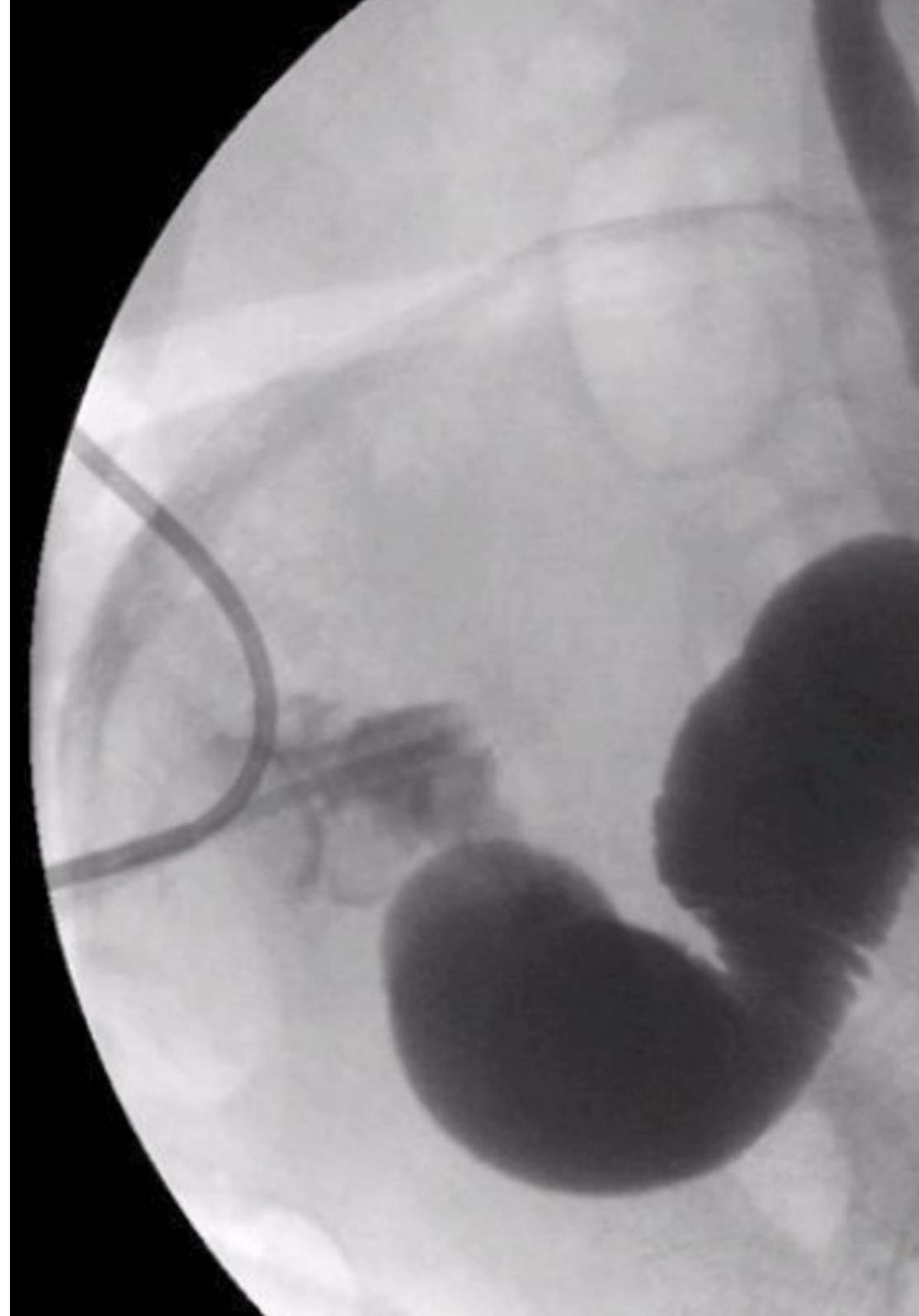
- 15.15. Pyeloplasty and Special Laparoscopic Considerations in Children
- 15.16. Treatment of Ureteral Stenosis: Prosthesis
- 15.17. Treatment of Ureteral Stenosis: Sections
- 15.18. Ureteral Replacement and Reimplantation
- 15.19. Uretero-Intestinal Stenosis: Endoscopic Treatment
- 15.20. Uretero-Intestinal Stenosis: Surgical Treatment

Module 16. Latest Trends in Bladder Surgical Pathology

- 16.1. Randomized Bladder Biopsy. Bladder TUR. Bloc TUR. Laser
- 16.2. Hexvix / SPIES / NBI-Assisted Bladder TUR
- 16.3. Laparoscopic Partial and Radical Cystectomy in Males with Urethrectomy: Open Bypass
- 16.4. Laparoscopic / Robotic Cystectomy in Females: Laparoscopic Bypass
- 16.5. Lymphadenectomy in Bladder Cancer
- 16.6. Open and Endoscopic Cystostomy / Cystolithotomy
- 16.7. Vesicoureteral Reflux Surgery
- 16.8. Bladder Diverticulum Surgery

Module 17. Latest Trends in Prostate Surgical Pathology

- 17.1. Prostate TUR: Trigonocervicoprostatotomy
- 17.2. Prostatic Vaporization
- 17.3. Prostatic Enucleation
- 17.4. Prostatic Adenomectomy
- 17.5. Urolift. I-Tind
- 17.6. Prostate Prosthesis
- 17.7. Laparoscopic / Robotic Radical Prostatectomy
- 17.8. Radical Prostatectomy with Hydrodissection
- 17.9. Prostatic Radiotherapy (IMRT) / Prostatic Brachytherapy
- 17.10. Focal Therapy: Cryotherapy
- 17.11. Focal Therapy: HIFU (High Intensity Focused Ultrasound)
- 17.12. Focal Therapy: Electroporation
- 17.13. Lymphadenectomy in Prostate Cancer



Module 18. Latest Trends in Urethra Surgical Pathology

- 18.1. Endoscopic Treatments of Urethral Lithiasis
- 18.2. Posterior Urethroplasty
- 18.3. Anterior Urethroplasty
- 18.4. Hypospadias Surgery in Children
- 18.5. Hypospadias Surgery in Adults
- 18.6. Urethral Fistulas
- 18.7. Female Urethra Stenosis
- 18.8. Urethral Diverticulum Surgery in Women
- 18.9. Regenerative Medicine in Urethral Pathology

Module 19. Latest Trends in Penile Surgical Pathology

- 19.1. Gland Decortication and Penectomy
- 19.2. Penile Incurvation Surgery
- 19.3. Penis Prosthesis
- 19.4. Lymphadenectomy in Penile Cancer

Module 20. Latest Trends in Scrotal and Testicular Surgical Pathology

- 20.1. Vasectomy and Vasovasostomy
- 20.2. Surgical Treatment of Varicocele
- 20.3. Surgical Treatment of Hydrocele
- 20.4. Orchidopexy
- 20.5. Orchiectomy
- 20.6. Sperm Retrieval Techniques
- 20.7. Lymphadenectomy in Testicular Cancer

Module 21. New Advances in the Surgical Treatment of Urinary/ Pelvic Floor Incontinence

- 21.1. Stress Urinary Incontinence
- 21.2. Emergency Urinary Incontinence
- 21.3. Treatment of Recurrent Stress Urinary Incontinence
- 21.4. Treatment of Vesico-Vaginal Fistula
- 21.5. Pelvic Prolapse Surgery
- 21.6. Urinary Incontinence in Men

04

Teaching Objectives

Through this very complete program, physicians will stand out for their comprehensive knowledge of the diagnosis, treatment and follow-up of complex urological diseases. At the same time, graduates will develop advanced skills in the use of innovative technologies, leading multidisciplinary teams and applying modern surgical techniques to optimize comprehensive patient care. As a result, professionals will be highly prepared to overcome the most complex challenges in Urology, implement innovative solutions and significantly improve clinical outcomes in their patients.





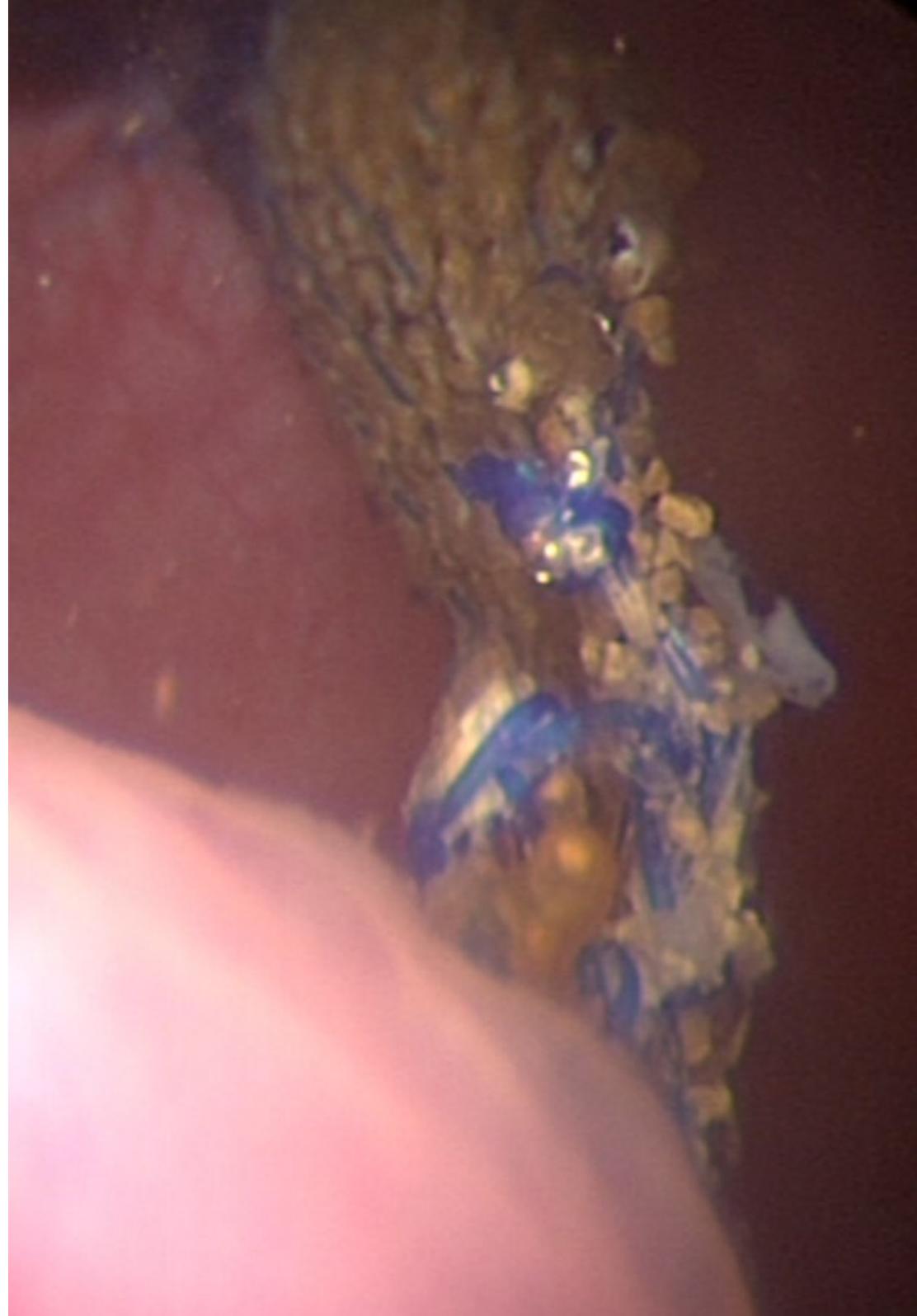
“

You will gain advanced clinical skills to perform cutting-edge procedures such as guided biopsies and even molecular biomarkers”



General Objectives

- ♦ Implement the main changes in urological anatomy surgical treatments
- ♦ Differentiate adrenal pathologies and correctly implement the different surgical techniques
- ♦ Recognize and distinguish the most common renal surgical pathologies to be able to implement the appropriate treatment
- ♦ Classify the upper urinary tract diseases to be able to implement the correct surgical treatment
- ♦ Recognize and distinguish the bladder diseases to apply the correct treatment
- ♦ Compare and contrast the surgical treatments in prostate diseases
- ♦ Interpret and justify the best treatment choice for a urethra surgical pathology
- ♦ Interpret and justify the best treatment choice for a scrotal and testicular surgical pathology
- ♦ Compare and contrast the different surgical treatments for urinary and pelvic floor incontinence
- ♦ Implement the latest innovations and developments in kidney transplant surgery





Specific Objectives

Module 1. Update in Oncological Principles, Functional Sequelae and Supportive Treatment of Patients with Urologic Tumors

- ♦ Delve into fundamental oncologic principles in the diagnosis and management of the most prevalent urologic tumor pathologies
- ♦ Analyze the functional sequelae derived from urological tumor pathologies and their treatments, offering strategies for their management and prevention

Module 2. Advances in the Diagnosis, Treatment and Monitoring of Non-Muscle Invasive Bladder Carcinoma

- ♦ Master the most innovative test for the diagnosis of non-muscle invasive bladder carcinoma
- ♦ Strengthen clinical skills to address treatment-related complications, including Bladder Infection and Irritation

Module 3. Advances in the Diagnosis, Treatment and Monitoring of Muscle Invasive Bladder Carcinoma

- ♦ Update knowledge on the pathophysiology and progression of muscle invasive bladder carcinoma, with emphasis on its molecular characteristics and risk factors
- ♦ Manage advanced diagnostic tools such as the use of imaging techniques or guided biopsies

Module 4. Advances in the Diagnosis, Treatment and Monitoring of Testicular Cancer

- ♦ Have a solid understanding of the epidemiology and pathophysiology of testicular cancer, including risk factors, histological subtypes and patterns of dissemination
- ♦ Obtain advanced clinical skills to perform procedures such as chemotherapy or radiotherapy, maintaining a focus on personalization according to tumor stage and type

Module 5. Advances in the Diagnosis, Treatment, and Monitoring of Penile Cancer

- ♦ Manage the most advanced instruments for the early diagnosis of penile cancer
- ♦ Acquire clinical skills to perform therapeutic interventions such as conservative surgery, inguinal lymphadenectomy or immunotherapy

Module 6. Advances in the Diagnosis, Treatment and Monitoring of Renal, Suprarenal and Retroperitoneal Carcinoma

- ♦ Analyze the pathophysiology, epidemiology and risk factors associated with renal, adrenal and retroperitoneal carcinoma
- ♦ Accurately perform minimally invasive and advanced laparoscopic therapies for the management of different tumors

Module 7. Advances in the Diagnosis, Treatment and Monitoring of Prostate Cancer

- ♦ Have a holistic understanding of both the pathophysiology and risk factors of prostate cancer
- ♦ Delve into the optimal use of innovative diagnostic equipment such as magnetic resonance imaging, image-guided biopsies and genetic markers

Module 8. Latest Advances in Surgical Anatomy. Laparoscopic Anatomy

- ♦ Have a detailed update on the surgical anatomy relevant to laparoscopic procedures, focusing on the most frequently approached anatomical regions
- ♦ Develop skills in laparoscopic dissection techniques; taking into account the preservation of nerves, vessels and surrounding organs for a better postoperative recovery

Module 9. Basic Aspects of Urologic Surgery

- ♦ Identify the indications, contraindications and access routes of renal diseases
- ♦ Delve into the different techniques of nephrectomy and methods of partial excision of tumors, as well as the details of laparoscopic or percutaneous focal treatment of renal masses
- ♦ Master the basic principles of laparoscopy, mini-laparoscopy and 3D imaging
- ♦ Delve into the development of single-port laparoscopic surgery

Module 10. Latest Advances in Diagnosis and Treatment Techniques in Urology

- ♦ Recognize the importance of the laparoscopic living donor nephrectomy procedure and hand-assisted nephrectomy.
- ♦ Distinguish the different endoscopic techniques in urological surgery
- ♦ Explain the appropriate cases to use intravesical instillation drugs and which ones
- ♦ Interpret ecographic images as a diagnosis method in urology

Module 11. Latest Trends in Suprarenal and Retroperitoneal Surgical Pathology

- ♦ Recognize the current concepts in Adrenal Surgical Pathology
- ♦ Analyze the indications, contraindications, surgical limits and different access routes and surgical techniques on Adrenal Pathology

Module 12. Latest Trends in Renal Surgical Pathology

- ♦ Classify the different accesses for percutaneous surgery in Renal Lithiasis
- ♦ Review the latest scientific evidence available on the technique of renal extraction

Module 13. New Advances in the Field of Kidney Transplant

- ♦ Identify the different surgical techniques related to kidney transplants, including laparoscopic and robotic access
- ♦ Delve into the current evidence on vascular surgical techniques used to solve both stenosis and aneurysms of the renal vascular pedicle

Module 14. New Advances in the Field of Vascular Kidney Transplant

- ♦ Recognize the cutaneous orifice after micropercutaneous nephrolithotomy
- ♦ Explain the steps to follow in a radical nephrectomy
- ♦ List the steps to follow to perform a living donor nephrectomy
- ♦ Compare the different types of treatment in partial nephrectomy

Module 15. Latest Trends in Surgical Pathology of the Upper Urinary Tract

- ♦ Delve into the indications, contraindications and access routes, as well as the material commonly used and the technological innovations for the treatment of both tumor
- ♦ Master the technique for reimplantation and ureteral substitution
- ♦ Delve into the mechanisms and techniques of anti-retropulsion
- ♦ Distinguish the methods of lithiasic fragmentation

Module 16. Latest Trends in Bladder Surgical Pathology

- ♦ Review the different methods of treatment of tumor pathology of the bladder, both endoscopic, laparoscopic or robotic, as well as open surgery in cases of urinary diversions or malformations
- ♦ Distinguish the different techniques used in transurethral resection for bladder tumor pathology

Module 17. Latest Trends in Prostate Surgical Pathology

- ♦ Review the latest evidence on indications and the up-to-date information of techniques for treating benign prostatic hyperplasia
- ♦ Apply surgical treatment for prostate tumor pathology according to the latest recommendations

Module 18. Latest Trends in Urethra Surgical Pathology

- ♦ Apply the techniques indicated for the different forms of urethral strictures, the contraindications, the use of the most convenient materials or patches and how to avoid subsequent complications
- ♦ Revise the most frequently used techniques for the surgical treatment of hypospadias and the different approaches for fistula management

Module 19. Latest Trends in Penile Surgical Pathology

- ♦ Distinguish the different techniques to treat penile tumor pathology, penile incurvation, and those used in cases of erectile dysfunction
- ♦ Decide on the appropriate surgical treatment in penile pathology
- ♦ Typify hypospadias and decide on the correct course of action
- ♦ Gain up-to-date knowledge of the interventions in penile cancer

Module 20. Latest Trends in Scrotal and Testicular Surgical Pathology

- ♦ Review the scrotal surgical technique and its content
- ♦ Delve into the current evidence on partial orchiectomy
- ♦ Apply innovative surgical techniques for the treatment of varicocele
- ♦ Delve into the technique of lymphadenectomy in testicular cancer

Module 21. New Advances in the Surgical Treatment of Urinary/ Pelvic Floor Incontinence

- ♦ Gain up-to-date knowledge of the techniques in surgical treatment of prolapses
- ♦ Analyze the limitations and indications of intravesical injection of botulinum toxin for the treatment of emergency urinary incontinence



You will have state-of-the-art tools for early identification of complex conditions such as prostate cancer, which will allow you to apply effective preventive strategies”

05

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



“

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist. The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

“

*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“

TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

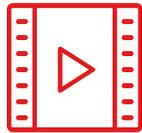
The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

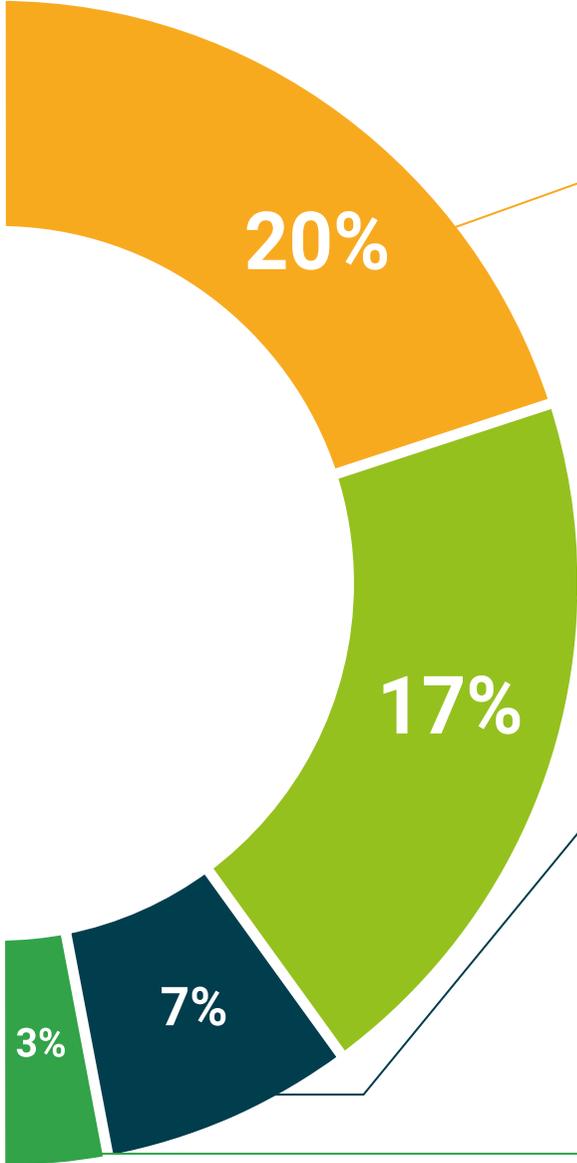
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.
Learning from an expert strengthens knowledge and memory, and generates confidence for future difficult decisions.



Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical and effective way to help students progress in their learning.



06

Teaching Staff

TECH's priority is to offer the most complete and up to date university programs in the academic panorama, which is why it carefully chooses its respective teaching staff. Thanks to this, the present program has the participation of renowned experts in the field of Urology. In this way, they have designed a myriad of didactic contents that stand out both for their excellent quality and for adjusting to the demands of the current labor market. As a result, graduates will enjoy an immersive experience that will significantly broaden their job prospects and raise their daily clinical practice to a higher level.



“

You will have the support of a teaching team made up of authentic references in the field of Urology, who will show you the latest advances in the field”

International Guest Director

Kai Tsao, M.D., is the **Medical Director** of the Ruttenberg Treatment Center at the Tisch Cancer Institute at The Mount Sinai Hospital. His mission in this position is to lead the multidisciplinary treatment center to provide the highest quality of patient-centered care for those affected by cancer and blood disorders.

He is an **Associate Professor of Medicine, Hematology and Medical Oncology at the Icahn School of Medicine at Mount Sinai** and is on staff at the **Tisch Cancer Institute at Mount Sinai Hospital and the Mount Sinai Queens Infusion Center**. During his training on the Hematology/Oncology Service at Mount Sinai Hospital, he held the position of Chief Fellow and was recognized with the 2012 Mount Sinai Physician of the Year award.

Dr. Tsao is board certified in Internal Medicine, Hematology and Medical Oncology. He is actively involved in research on the development of new therapies in the treatment of genitourinary cancers. He has received several merit awards from the American Society of Clinical Oncology. His main objective is to define the clinical and molecular phenotype of prostate, **kidney** and **bladder** cancers, as well as new therapies in these disease states. He is principal investigator on several ongoing clinical trials and has authored more than 40 peer-reviewed publications.



Dr. Tsao, Kai

- Medical Director of the Ruttenberg Treatment Center at Mount Sinai Hospital, New York, USA
- Principal investigator in several clinical trials
- Participant in research on the development of new therapies for the treatment of genitourinary cancers
- Professor at the Icahn School of Medicine at Mount Sinai
- Author of more than 40 published scientific articles
- Winner of several merit awards granted by the American Society of Clinical Oncology of various merit awards from the American Society of Clinical Oncology
- Member of: American Society of Clinical Oncology, American Association of Oncology Research and American Society of Hematology

“

Thanks to TECH, you will be able to learn with the best professionals in the world"

International Guest Director

Dr. Andrew Jason Cohen is a world-renowned physician in the field of Urology. He is a clinical expert with more than a decade of hands-on experience in complex genitourinary reconstruction, demonstrating comprehensive management of erectile dysfunction, urinary incontinence, stricture diseases of the urinary system, Peyronie's disease, genital skin conditions, urinary detour and other benign urologic pathologies. In addition, **he has been a reference in the field of Robotic Surgery** through the detailed study and application of the multiple techniques that are currently known.

He has managed to shape himself as such thanks to an extensive academic career of the highest level, which includes **two bachelor's degrees with summa cum laude honors** (in Chemical Engineering and Medicine), as well as a PhD in the latter scientific branch. In addition, his excellence earned him the **Clinical Fellowship in Trauma and Reconstructive Surgery at the University of California, San Francisco School of Medicine**. On the other hand, his prestige has also been recognized by the Alpha Omega Alpha Honor Society, which has included him as a member.

In addition to all this, he has an extensive and multidisciplinary career in international reference centers in the context of Urology: specialist at Mitchell-Hyde Park Hospital, director of Urologic Trauma and Reconstructive Surgery at the Brady Urologic Institute at Bayview Medical Center and as director of Traumatology and Urologic Reconstructive Surgery at the very important **Johns Hopkins Medicine**. In addition, he has authored dozens of research articles indexed in major scientific journals, activity that has combined, in turn, with teaching in several subjects of the Degree in Medicine and Surgery.



Dr. Cohen, Andrew Jason

- ♦ Director of Urologic Reconstructive Surgery at Johns Hopkins Medicine, Baltimore, USA
- ♦ Director of Urologic Trauma and Reconstructive Surgery at the Brady Urologic Institute at Bayview Medical Center
- ♦ Assistant Professor of Urology
- ♦ M.D. from the University of Chicago Pritzker School of Medicine
- ♦ B.S. in Chemistry and Chemical Engineering from the University of Florida (*summa cum laude* honors)
- ♦ B.S. in Medicine from the University of Florida (*summa cum laude* honors)
- ♦ Urology Residency at Mitchell-Hyde Park Hospital, University of Chicago Medicine
- ♦ Clinical Fellowship in Trauma and Reconstructive Surgery at the University of California, San Francisco School of Medicine
- ♦ Author of more than a dozen scientific articles indexed in PubMed
- ♦ Member of: Alpha Omega Alpha Honor Society

“

A unique, crucial and decisive learning experience to boost your professional development"

Professors

Dr. Prera Vilaseca, Ángel

- ♦ Specialist in Urology and Minimally Invasive Techniques
- ♦ Coordinator of the Urology Service at the Parc Tauli Hospital Consortium, Tauli. Sabadell
- ♦ President of the Female Functional Urology and Urodynamics Group.
- ♦ Professor of the School of Laparoscopy
- ♦ Member of the Spanish Association of Urology

Dr. Pérez Ardavin, Javier

- ♦ Urology Specialist at La Fe University Hospital
- ♦ Urology specialist at Quirónsalud Hospital
- ♦ Coordinator of the Uro-Oncology Department of the Francesc de Borja Hospital.
- ♦ Author of publications specialized in Urologic Oncology, lithiasis and management.
- ♦ Degree in Medicine from the University of Santiago de Compostela
- ♦ Master's Degree in Biostatistics from the University of Miguel Hernández de Elche
- ♦ Member of: European Association of Urology

Dr. Sánchez González, José Vicente

- ♦ Resident Medical Intern at the Urology Department. La Fe Polytechnic and University Hospital. Valencia
- ♦ Scientific contributions from national and international congresses: Can a urine microRNA profile show diagnostic and prognostic value for clear cell renal disease? AUA, American Urological Association's, Diagnostic and prognostic value of circulating free DNA in urine in renal cell carcinoma. AUA, American Urological Association's, Identification of a urine microRNA profile with diagnostic and prognostic value for clear cell renal cell carcinoma. European Association of Urology

Dr. Fernández Arjona, Manuel

- ♦ Head of the Urology Service of the Henares University Hospital
- ♦ Urologist at Fuensanta Hospital
- ♦ Urologist collaborating with the Institute of Sexual Medicine
- ♦ Author of more than 100 published in journals.
- ♦ Teacher in postgraduate studies in Medicine
- ♦ PhD in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Master's Degree in Hospital Management

Dr. Coloma Del Peso, Almudena

- ♦ Urology Specialist with expertise in Pelvic Floor and Urethral Reconstructive Surgery
- ♦ Head of the Urogynecological Pelvic Floor Unit of the University Hospital del Henares
- ♦ Urologist at the University Hospital del Henares
- ♦ Urologist specialized in Urogynecology at LYX Institute of Urology
- ♦ Co-author of scientific publications related to Urology
- ♦ Teacher in university studies of Medicine
- ♦ PhD in Medicine from the Autonomous University Madrid

Dr. Serrano Pascual, Álvaro

- ♦ Urology Specialist Physician. San Carlos Clinical Hospital
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- ♦ Coordinator of the Advanced Prostate Cancer Unit at the Hospital General Universitario de Elche
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- ♦ Specialty in Urology at the General Hospital of the West Dr. José Gregorio Hernández

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- ◆ Diploma in Research Capacity by the Department of Medicine and Surgery of the Faculty of Medicine of the University of Cantabria
- ◆ FEBU Diploma
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- ◆
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- ♦ Fellow in Urology, Robotics and Sexual Medicine at Cornell University

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- ♦ Degree in Medicine and Surgery from the University of Zaragoza
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- ♦ Fellowship in Transsexual Surgery in London
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- ♦ Member of: Committee of the European Society of Genito-urinary Reconstructive Surgery (ESGURS) and Expert Panel of the Clinical Guidelines on Male Sexual Dysfunction

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- ♦ Practical teaching collaborator with undergraduate medical students
- ♦ Collaborative investigator in more than 15 clinical trials
- ♦ Author or co-author of more than 200 communications to congresses of Urology
- ♦ Author and co-author of more than 75 journal articles and book chapters related to the specialty
- ♦ Speaker at more than 65 Urology congresses and seminars
- ♦ Doctor in Medicine and Surgery from the Complutense University of Madrid
- ♦ Graduate in Urological Oncology CEU from the Universidad Cardenal Herrera

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- ♦ Specialist in Urology
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- ♦ Urology Specialist at the Urology and Lithiasis Service of the Ruber International Hospital
- ♦ Researcher in several clinical trials related to Urology
- ♦ Author or co-author of more than 100 communications to congresses of Urology
- ♦ Author of 450 scientific talks at national and international congresses
- ♦ Teacher in postgraduate studies in Medicine
- ♦ Doctor in Medicine and Surgery from the Complutense University of Madrid
- ♦ Internships in numerous international centers

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- ♦ Teacher in university studies related to Medicine
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- ♦ Regular participant in seminars, lectures and round tables

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- ♦ Resident physician in the emergency department San Agustín de Avilés
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 - ♦ Spanish Urology Association
 - ♦ European Association of Urology
 - ♦ SEGO, Spanish Society of Gynecology and Obstetrics
 - ♦ Asturian Urology Association
- ♦ National Award from the National Association of Urology

Dr. Fernández Montarroso, Lorena

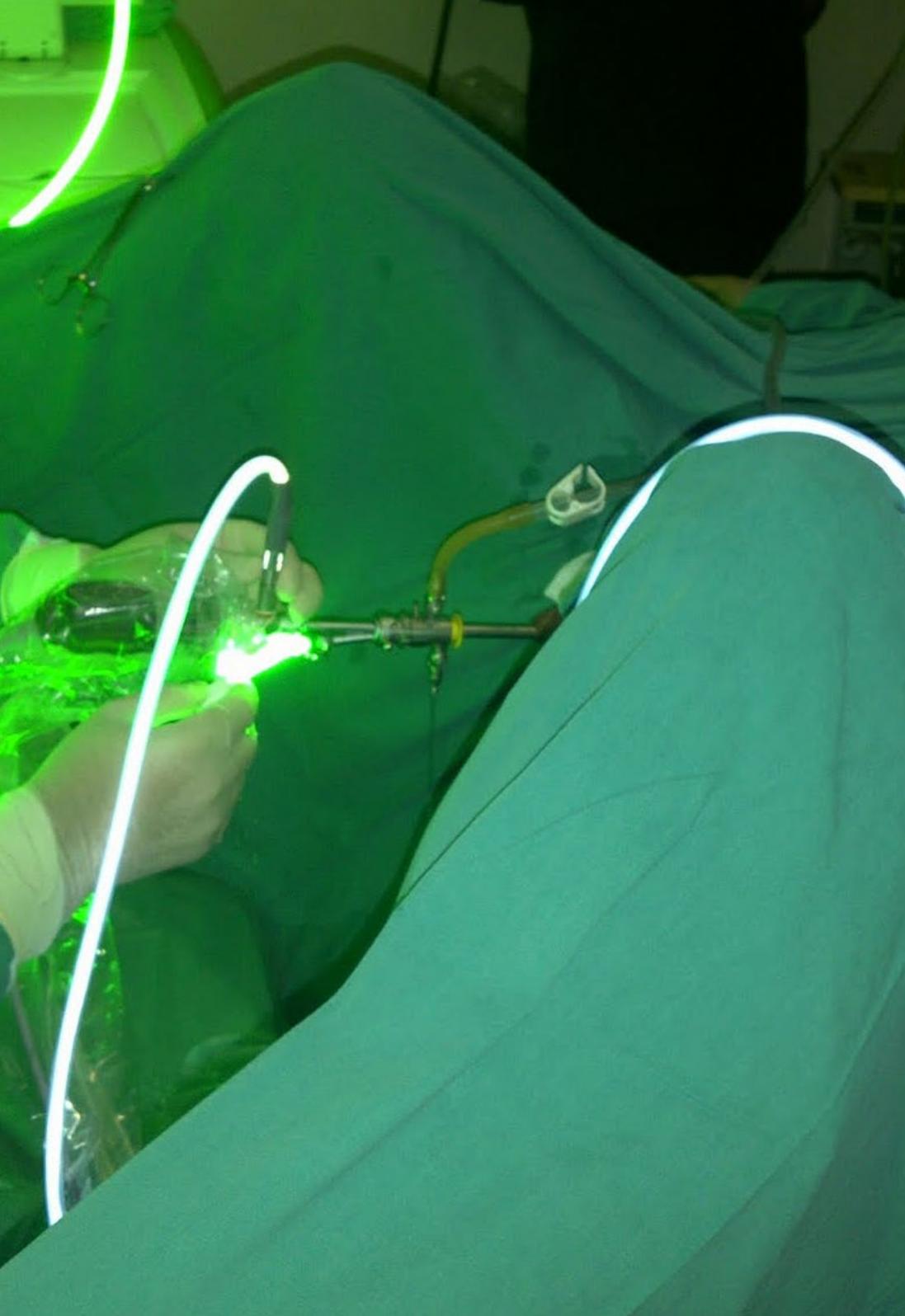
- ♦ Urology Specialist expert in Laparoscopic Surgery
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- ♦ Urologist at Boadilla Mediacentro
- ♦ Author of several articles published in scientific journals
- ♦ Internship teacher for undergraduate medical students
- ♦ PhD in Medicine and Surgery from the Complutense University of Madrid
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- ♦ University Expert in Minimally Invasive Surgery from the Complutense University of Madrid

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- ♦ Specialist in Urology
- ♦ Director of the Functional Urology Unit at the Valencian Institute of Oncology Foundation (IVO)
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- ♦ Specialist in Pediatric and Adult Urology
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- ◆ Author in more than 20 published scientific articles on Urology
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