

Master's Degree Update on Urologic Surgery

Endorsed by:





Master's Degree

Update in Urologic Surgery

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Global University
- » Credits: 60 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/master-degree/master-degree-update-urologic-surgery

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01

Introduction

The advances in modern surgery generate a need for continuous retraining, with urology being one of the affected fields of medicine due to its major surgical component. This program offers specialists the opportunity to update their knowledge in a practical way and with the latest technology, adapting the process to their own professional needs. That way, they will be able to maintain a good level of quality and safety in patient care.





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New scenarios in Urologic Surgery drive us to propose new training programs that meet the real needs of experienced professionals, so they can incorporate new advances in the specialty into their daily practice"

The developments in the field of Urologic Surgery are never-ending. There are many innovative surgical advances in Urologic Surgery: minimally invasive urological techniques, lasers, robotic surgery, digital endoscopes, etc. The acquisition of these new technologies allows for a much quicker recovery period and a better prognosis for the patient.

These days, there are numerous diagnosis and treatment options, which makes it difficult for specialists to apply the sheer volume of information available to them in their daily practice and surgery.

The Master's Degree in Update on Urologic Surgery allows the specialist to access this information in a practical way, without compromising on the science involved, adapting the process to their personal and professional needs.



Bring your knowledge up to date with the Master's Degree in Update on Urologic Surgery"

This **Master's Degree in Update on Urologic Surgery** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Development of more than 120 clinical cases, recorded with POV (Point Of View) systems from different angles, presented by experts in surgery and other specialties
- 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.
- Presentation of practical workshops on procedures and techniques.
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- Action protocols and clinical practice guidelines, which cover the most important latest developments in this specialist area.
- All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- Special emphasis on test-based medicine and research methodologies in surgical procedures and urology.
- Content that is accessible from any fixed or portable device with an Internet connection
- Includes the latest techniques to emerge such as endourology, laparoscopy with all its variants and robotic surgery, reconstructive surgery, lithiasis and renal transplantation.
- In addition, it also includes the latest advances in female urology, functional and urodynamic urology, and oncological urology, without neglecting the classic approaches in those parts of the specialism in which there have been no significant developments. This is so that all interested parties have the possibility of having a clear and comprehensive idea of the current situation in urological surgery.

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This Master's Degree may be the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge of Urologic Surgery, you will obtain a qualification from TECH Global University”

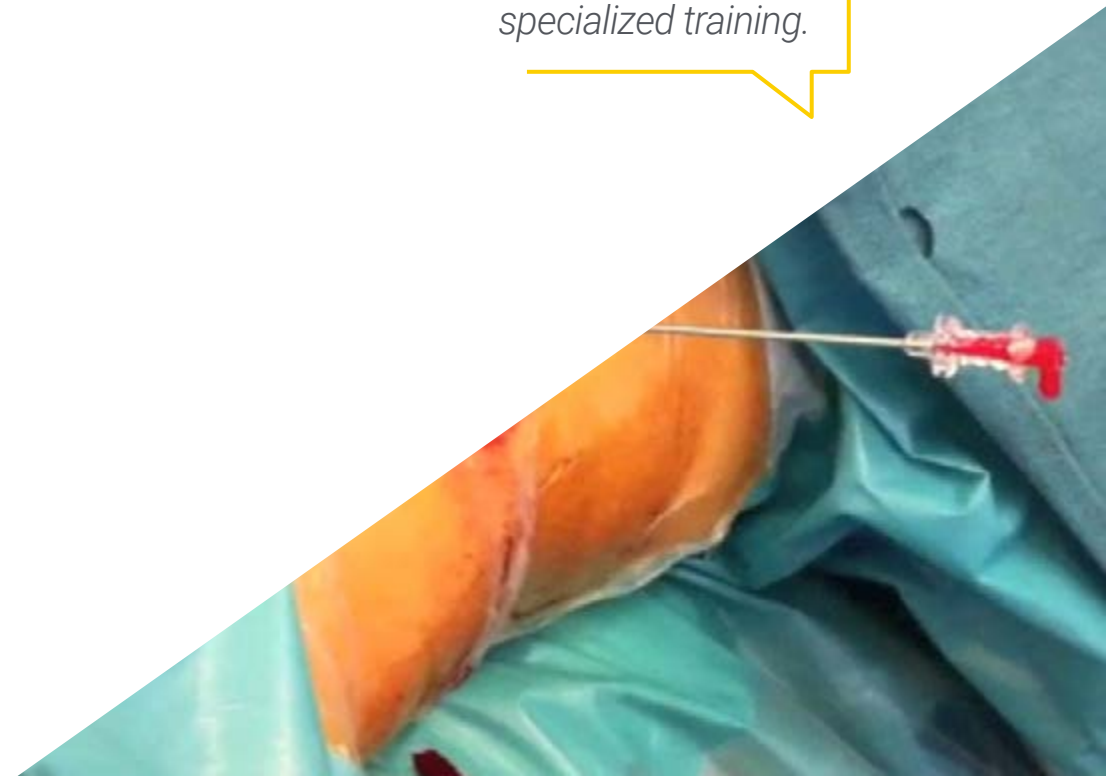
The teaching staff includes a team of prestigious urologists, who bring their experience to this training program, as well as renowned specialists from leading scientific societies.

Thanks to its multimedia content elaborated with the latest educational technology, this Master's Degree will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive learning programmed to train in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of urologic surgery with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge through this Master's Degree.

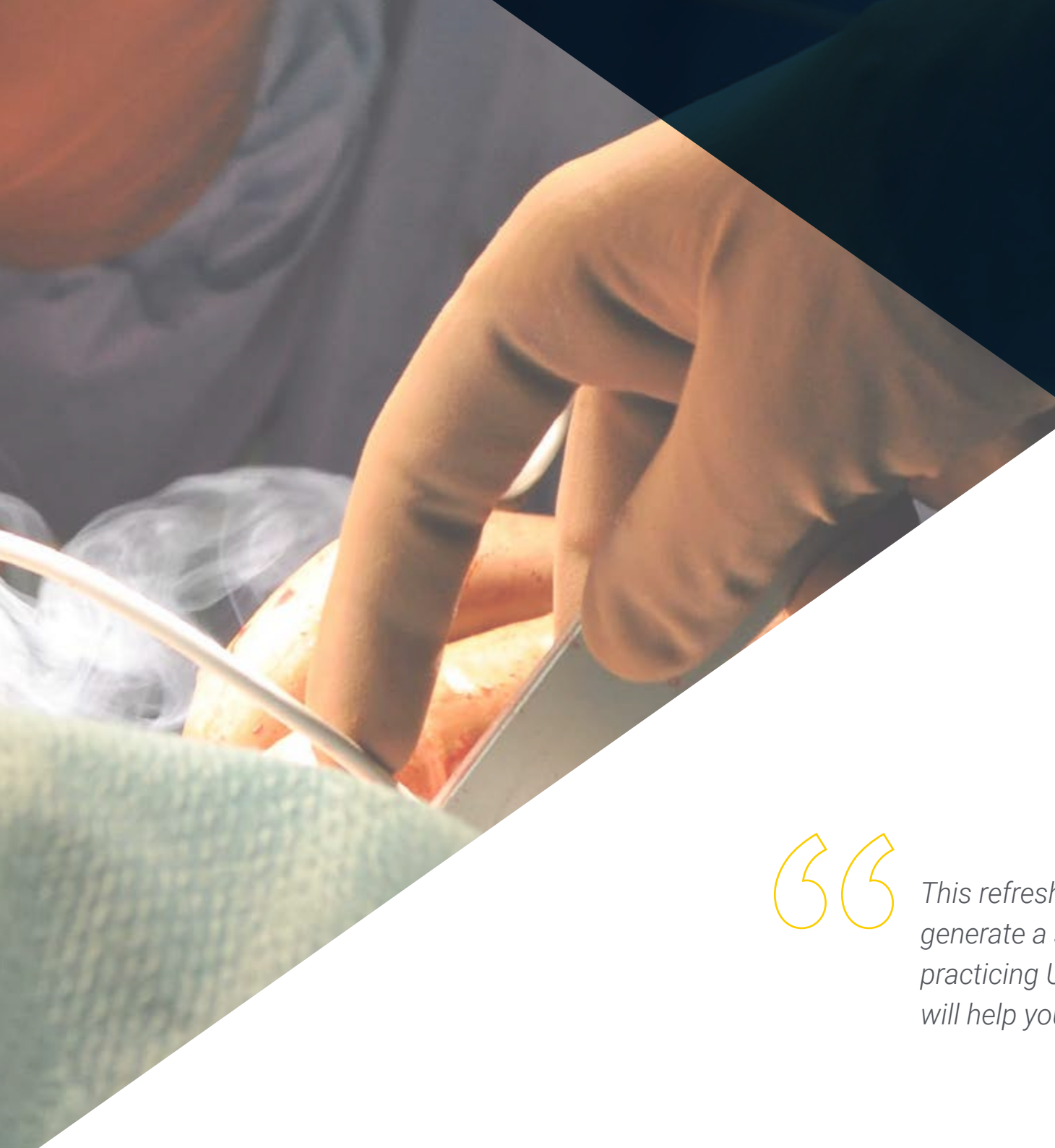
Improve the quality of your surgical practice in urology with this specialized training.



02 Objectives

The Master's Degree in Update on Urologic Surgery offers detailed information on the most relevant advances in Urologic Surgery from an eminently practical point of view, in a time where accredited knowledge is essential. It includes the latest technological advances and the different surgical techniques and examinations that are on the rise within the specialist field of Urology.





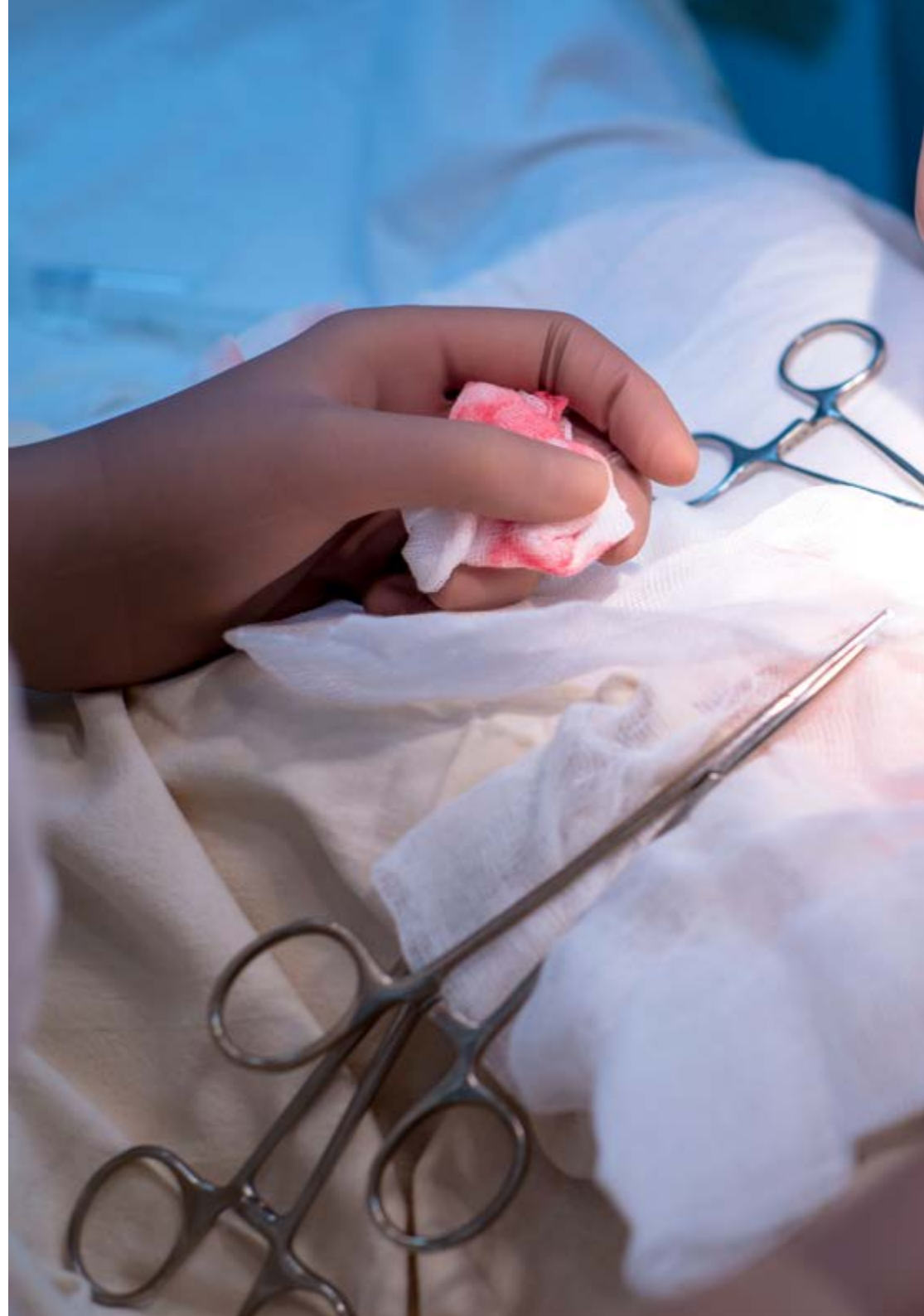
“

This refresher program will generate a sense of security when practicing Urologic Surgery, and will help you grow professionally”



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
- Differentiate the different surgical techniques involved in renal vascular pathologies





Specific Objectives

Module 1. Latest Advances in Surgical Anatomy Laparoscopic Anatomy

- ◆ Correct application of endoscopic, radiological and urodynamic explorations as well as the practice of prostatic biopsies
- ◆ Update on basic perioperative management and instrumentation, and drainage of the urinary tract, as well as the basics in urology, laparoscopy in all its variants and robotics
- ◆ Review the indications, surgical techniques and limitations of lymphadenectomy for tumors of any urologic location, as well as the novel role immunofluorescence techniques play in these procedures

Module 2. Basic Aspects of Urologic Surgery

- ◆ Identify the indications, contraindications and access routes of renal diseases
- ◆ Explain the different nephrectomy techniques 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 3. 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 4. Latest trends in adrenal and retroperitoneal surgical pathology

- ♦ Recognize the current concepts in adrenal surgical pathology
- ♦ Confirm the information we have on the treatment of adrenal carcinoma is up to date
- ♦ Recognize the indications, contraindications, surgical limitations, different access routes and surgical techniques of adrenal pathology as well as the necessary tricks to avoid or minimize complications during or after surgery

Module 5. Latest Trends in Renal Surgical Pathology

- ♦ Classify the different access points for percutaneous surgery in renal lithiasis
- ♦ Revise the latest information on the kidney extraction technique
- ♦ Review percutaneous techniques in renal artery aneurysm

Module 6. Latest Trends in Surgical Pathology of the Upper Urinary Tract(UUT)

- ♦ Recognize the indications, contraindications and access routes, as well as the material commonly used and the technological innovations for the treatment of both tumor and benign pathology, including upper urinary tract lithiasis
- ♦ Master the technique for re-implantation and ureteral substitution
- ♦ Delve into the mechanisms and techniques of anti-retropulsion
- ♦ Distinguish the methods of lithiasic fragmentation

Module 7. New Advances in the Field of Kidney Transplant

- ♦ Identify the different surgical techniques related to kidney transplants, including laparoscopic and robotic access
- ♦ Revise the current evidence on vascular surgical techniques used to solve both stenosis and aneurysms of the renal vascular pedicle
- ♦ Review and gain up-to-date knowledge of lymphadenectomy in kidney cancer
- ♦ Gain up-to-date knowledge of kidney transplant surgery
- ♦ Describe the technique of laparoscopic renal transplantation
- ♦ Review techniques of renal auto-transplantation

Module 8. 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
- ♦ Recognize the different types of focal treatment in renal tumors
- ♦ Confirm that the information on the treatment of renal lithiasis is up to date

Module 9. Latest Trends in Bladder Surgical Pathology

- ♦ Examine the distinct treatment methods of tumorous and non-tumorous pathology of the bladder, both endoscopically, laparoscopically or robotically, as well as with open surgery in cases of urinary diversions or malformations
- ♦ Distinguish the different techniques used in transurethral resection for bladder tumor pathology
- ♦ Recognize and classify non-tumorous bladder pathology

Module 10. Latest Trends in Prostate Surgical Pathology

- ♦ Recognize the current concepts of diagnostic and therapeutic techniques, as well as their indications and contraindications in cases of prostatic tumor pathology. Also, recognize their different approaches, including new developments such as focal therapy with the aid of radiological methods and other techniques such as radio brachytherapy
- ♦ Review the latest evidence on indications and the up-to-date information of techniques for treating benign prostatic hyperplasia
- ♦ Revise and update knowledge on how to handle the non-tumorous pathology of the prostate
- ♦ Apply surgical treatment for prostate tumor pathology according to the latest recommendations

Module 11. 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
- ♦ Review the steps to follow in ureteral catheterization
- ♦ Recognize and classify the different ureteral prostheses
- ♦ Examine the Lovaco Technique as a treatment for uretero-intestinal junction stricture after urinary diversion
- ♦ Distinguish the different urethral fistulas and how to treat them
- ♦ Radiological image of bilateral stenosis of the uretero-ileal junction after Bricker-type urinary diversion
- ♦ Accordion catheter to prevent stone retropulsion during ureteroscopy
- ♦ Correctly perform the sequence of steps in an ureteroneocystostomy

Module 12. Latest Trends in Penis Surgical Pathology

- ♦ Distinguish the different techniques to treat penile tumor pathology, penile incurvation, and those used in cases of erectile dysfunction, including penile prostheses and the most frequently used types, as well as the expected complications and contraindications
- ♦ Decide the appropriate surgical treatment for penile pathology
- ♦ Typifying hypospadias and deciding on the correct course of action
- ♦ Gain up-to-date knowledge of the interventions in penis cancer

Module 13. Latest Trends in Scrotal and Testicular Surgical Pathology

- ♦ Review the scrotal surgical technique and its content
- ♦ Review the current evidence on partial orchiectomy
- ♦ Review hydrocele, its diagnostic and therapeutic algorithm
- ♦ Apply surgical techniques for the treatment of varicocele
- ♦ Review technique of lymphadenectomy in testicular cancer

Module 14. New Advances in the Surgical Treatment of Urinary/ Pelvic Floor Incontinence

- ♦ Recognize the fundamental role of laparoscopic right adrenalectomy
- ♦ Identify the indications, techniques, contraindications, access routes, types of mesh, prostheses and other methods most frequently used in cases of stress incontinence in both women and men
- ♦ Describe the different types of urinary incontinence
- ♦ Compare and evaluate the treatment options in urinary incontinence in women
- ♦ 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
- ♦ Review therapeutic options in urinary incontinence in males

03 Skills

After passing the assessments on the Master's Degree in Update on Urologic Surgery, the student will have acquired the necessary professional skills for quality, up-to-date practice based on the most recent scientific evidence.



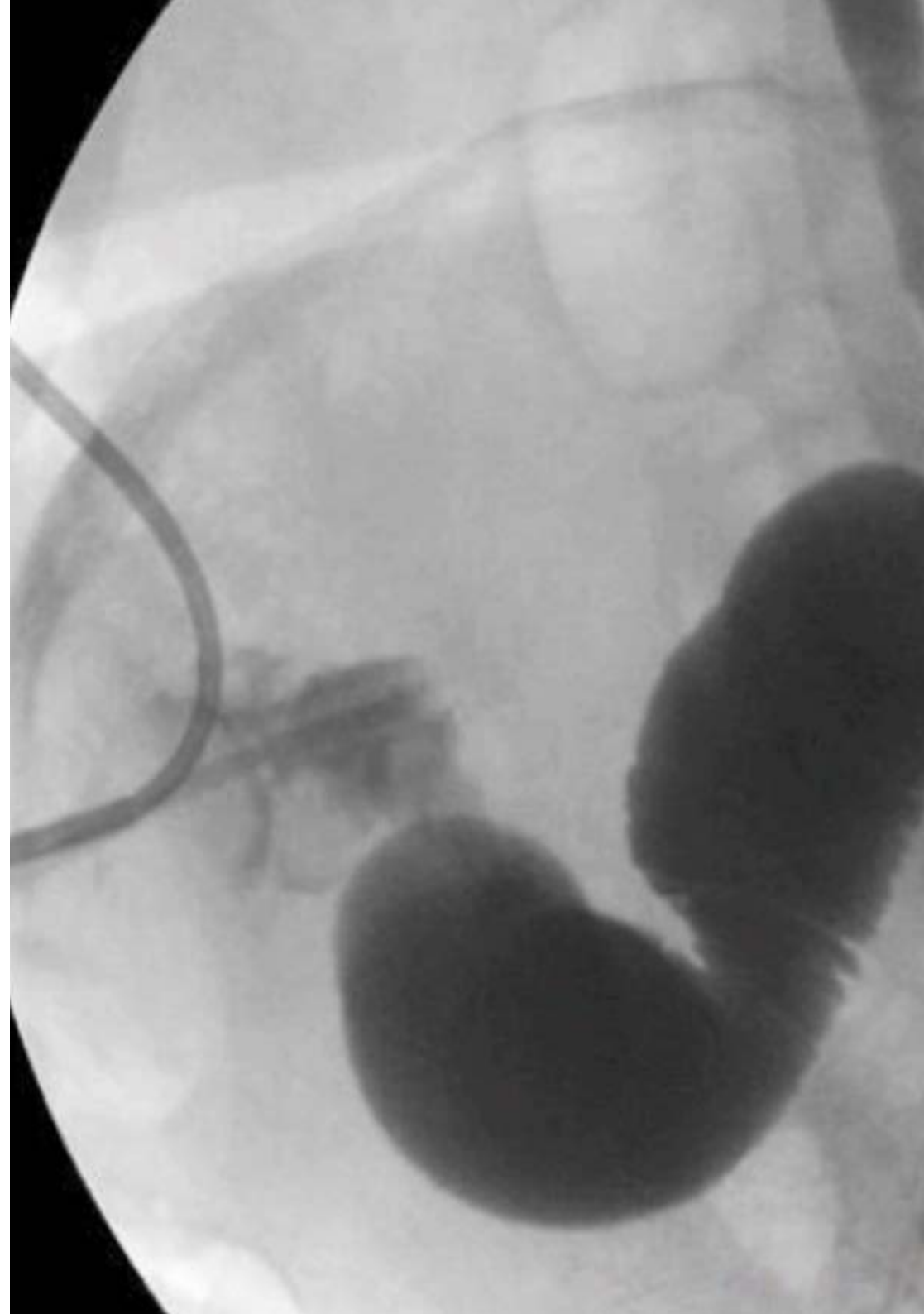
“

With this program you will be able to master the new diagnostic and treatment procedures for patients with urologic diseases”



General Skills

- ♦ Develop professional aptitude to work with other health professionals and acquire the necessary skills to work as a team
- ♦ Recognize the need to maintain your professional skills and keep them up to date, with special emphasis on autonomous and continuous learning of new information
- ♦ Develop the capacity for critical analysis and research in your professional field
- ♦ Possess and understand knowledge that provides a basis or opportunity to be original when developing and/or applying ideas, often in a research context
- ♦ Know how to apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to your area of study
- ♦ Integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of one's knowledge and judgments
- ♦ Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- ♦ Acquire the learning skills that will enable further studying in a largely self-directed or autonomous manner





Specific Skills

- ♦ Describe the pathogenic basis of urologic diseases, incorporating the latest anatomical-morphological advances in the field of study
- ♦ Describe the basic aspects of an endoscopy and laparoscopy and its routine use in surgical procedures of the urinary system
- ♦ Determine the indications, limitations and cost-effectiveness of the diagnostic tests used in the light of the latest advances in Urology
- ♦ Identify and delve into the latest surgical trends in interventional adrenal pathology
- ♦ Identify the latest advances in renal transplant surgery and relate them to the surgical techniques used in routine practice
- ♦ Identify the principles behind candidate selection for kidney transplantation, the surgical basis of transplantation, and immunosuppressive drugs
- ♦ Describe the latest trends in vascular kidney surgery
- ♦ Incorporate the latest advances in the field of bladder and prostate pathology into urinary system surgical procedures
- ♦ Explain the correct way to manage urethral surgery according to the latest scientific evidence
- ♦ Integrate new surgical techniques into the surgical approach to the penis, testicles and scrotum
- ♦ Identify the latest treatment developments in urinary incontinence and incorporate them into routine surgical practice
- ♦ Gain a deeper understanding of the latest surgical trends in retroperitoneal lymph node dissection surgery

04

Course Management

The materials are the result of collaboration between a team of renowned professionals in the surgical field who work in the top hospitals in the country. Bringing to the program the experience they have gained throughout their careers.





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Learn about the latest advances in Urologic Surgery from leading professionals”

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 practical 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 urological 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 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 a **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 Urological Trauma and Reconstructive Surgery at the Brady Urological Institute at Bayview Medical Center and as director of Traumatology and Urological 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 Urological Trauma and Reconstructive Surgery at the Brady Urological Institute at Bayview Medical Center
- Assistant Professor of Urology
- Ph.D. in Medicine 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)
- M.D., 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
- Member of Alpha Omega Alpha Honor Society
- Author of more than a dozen scientific articles indexed in PubMed



You will have access to a library of multimedia resources 7 days a week, 24 hours a day”

Dr. Collado Serra, Argimiro

- ◆ Specialist in Urology
- ◆ Director of the Urology Unit, in Functional Foundation IVO, Madrid
- ◆ Author of dozens of scientific articles published in specialized journals
- ◆ Member of the Editorial Board of Spanish Archives of Urology

Dr. Gómez Ferrer Lozano, Álvaro

- ◆ Urology specialist at the Valencian Institute of Oncology
- ◆ Specialist in Urology at Lluís Alcanyís Hospital
- ◆ Specialist in Urology at La Fe University Hospital
- ◆ PhD in Medicine from the University of Valencia

Dr. Rostagno, Román

- ◆ Interventional Vascular Radiologist. Vinalopó University Hospital
- ◆ Interventional Radiologist in Hospital Quirónsalud Torrevieja
- ◆ Physician at the service of Diagnostic Imaging. Quirónsalud Palmaplanas Hospital

Ms. Ponce Blasco, Paula

- ◆ Specialist in Urology
- ◆ Specialist in Urology at the General University Hospital of Castellón
- ◆ Author of several scientific publications on Urology
- ◆ Teacher in medical training courses about Oncology

Dr. Moreno Sierra, Jesús

- ◆ Head of Urological Robotic Surgery at San Carlos Clinical Hospital
- ◆ President and Honorary Member of the Spanish Society of Laparoscopic and Robotic Surgery



- ◆ Researcher of the Foundations San Carlos Clinical Hospital
- ◆ Project evaluator in national agencies
- ◆ Editor of the Urology section of the SECLA Endosurgery journal
- ◆ PhD in Medicine from the Complutense University of Madrid
- ◆ Specialization studies at the Karolinska Institute in Stockholm, the European Telesurgery Institute in Strasbourg and the Alst Hospital in Brussels
- ◆ Postgraduate Diploma in Clinical Units by UNED Member of:
Board of Directors of the Spanish Association of Urology, Board of Directors of the Urological Society of Madrid, Editorial Committee of the Archivos Magazine

Dr. Ramírez Backhaus, Miguel Ángel

- ◆ Co-Director of Urosalud, Urology Unit of the Hospital Casa de Salud of Valencia
- ◆ Private activity at the Glorieta Clinic
- ◆ Assistant urologist at the IVO Foundation, subspecialized in Laparoscopic and Minimally Invasive Surgery
- ◆ Monitor and teacher of various courses and programs of Laparoscopic Surgery with Live Surgeries at national and international meetings
- ◆ Doctor "Cum Laude" from the University of Valencia
- ◆ Degree in Medicine from the University of Navarra
- ◆ Specialist in Urology La Fe University Hospital, Valencia
- ◆ Fellow in Laparoscopic Radical Prostatectomy at University Clinic Leipzig
- ◆ Master's Degree in Molecular Oncology at CNIO and CEB
- ◆ Member of the Editorial Committee of the scientific journal Spanish Archives of Urology"
- ◆ Member of the team of reviewers of the "International Journal of Urology" and "World Journal of Urology"
- ◆ Member of the Valencian , Spanish and Murcian Association of Urology

- ♦ Member of the International Association of Endourology and Laparoscopy

Dr. Fernández Arjona, Manuel

- ♦ Chief of the Urology Service of the HU of Henares
- ♦ 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

Mr. Ruibal Moldes, Manuel

- ♦ Urology Specialist at Suture Clinic
- ♦ Head of the Urology Department at Pontevedre Hospital Complex (CHOP)
- ♦ Urology specialist at Polyclinic POVISA
- ♦ Degree in Medicine and Surgery from the Faculty of Medicine from the Santiago de Compostela University
- ♦ Specialist in Urology A Coruña Hospital Complex
- ♦ Master's Degree in Medical and Clinical Management UNED
- ♦ Stay at Jackson Memorial Hospital. University of Miami. Endourology and Urologic Oncology
- ♦ Stay at Mayo Clinic Jacksonville. Urological Oncology
- ♦ Stay at Erasme Hospital in Brussels. Urological Laparoscopy
- ♦ Member of the Spanish Association of Urology
- ♦ Member of the Galician Society of Urology

Dr. Coloma Del Peso, Almudena

- ♦ Urology Specialist with expertise in Pelvic Floor and Urethral Reconstructive Surgery
- ♦ Head of the Urogynaecological Pelvic Floor Unit of the Hospital Universitario del Henares
- ♦ Urologist at the Henares University Hospital
- ♦ Urologist specializing in Urogynecology at Lyx Urology
- ♦ Co-author of scientific publications related to Urology
- ♦ Teacher in university studies of Medicine
- ♦ Doctorate in Medicine from the Autonomous University Madrid

Dr. Pérez-Lanzac Lorca, Alberto

- ♦ Chief of the Urology Service at the Hospital Viamed Virgen de La Paloma
- ♦ Specialist of the Urology and Andrology Service at the Ruber Internacional Hospital
- ♦ Head of the Urology Unit at Beata Ana María Hospital
- ♦ Head of the Lithiasis, Urethral and Adrenal Unit of the Hospital Universitario Puerta del Mar
- ♦ Author of Multiple scientific articles
- ♦ Speaker at national and international medicine congresses
- ♦ Doctor in Medicine from the University of Cadiz
- ♦ Degree in Medicine from the University of Malaga
- ♦ Postgraduate in Laparoscopic Surgery by the Medical Care Center Irvine
- ♦ Member of Spanish Association of Urology, Andalusian Association of Urology, Spanish Society of Laparoscopy, European Association of Urology, American Urological Association

Dr. Brime Menéndez, Ricardo

- ◆ Physician and Consultant Specialist in Urology and Robotic Surgery
- ◆ Responsible for the Robotic Surgery Program at ROC Clinic
- ◆ Consultant in Robotic Surgery in HM Hospitales
- ◆ Urology Specialist at Hospital de la Princesa University Hospital, Madrid
- ◆ Doctorate in Medicine from the Autonomous University Madrid
- ◆ Degree in Medicine from the Complutense University of Madrid
- ◆ University Master's Degree in Prostate Cancer at the University of Salamanca
- ◆ Master's Degree in Uro-oncology at the San Pablo CEU University of Madrid
- ◆ Member of EAU, AEU, SUM

Dr. Sánchez González, José Vicente

- ◆ Resident Medical Intern at the Urology Department. University and Polytechnic Hospital La Fe, 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
- ◆ Españoles de Urología, Research Council of the Bamberg Foundation

Dr. Leibar Tamayo, Asier

- ◆ Specialist Urology at La Paz Hospital
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- ◆ Specialist in Urology and Minimally Invasive Techniques
- ◆ Urology Service Coordinator. Hospital Parc Taulí de Sabadell 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 Quirónsalud Hospital
- ◆ Coordinator of the Uro-Oncology Section of the Francesc de Borja Hospital
- ◆ Author of publications specialized in uro-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. Redondo González, Enrique

- ◆ Physician attached to the Urology Service at the Hospital Clínico San Carlos
- ◆ Attending Physician at the Complutense University of Madrid
- ◆ Participation in book chapters:
- ◆ Kidney Tumors. Medical-Surgical Nurse. Editorial Tébar, S.L
- ◆ Utility of PSA-Complex in the diagnosis of prostate carcinoma. Spanish Urology Archives

Dr. Bachiller Burgos, Jaime

- ♦ Specialist in Urology expert in Urological Laparoscopy
- ♦ Chief of Urology Department at San Juan de Dios de Aljarafe Hospital
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- ♦ Co-author of several scientific publications in specialized journals
- ♦ Teacher of specialized courses in Urological Laparoscopic Surgery
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Dr. Ortolá Fortes, Paula

- ♦ Specialist in Pediatric Surgery
- ♦ Physician in the Pediatric Surgery Service of La Fe University and Polytechnic Hospital
- ♦ Author and co-author of several articles published in scientific journals
- ♦ Organizer at the National Medical Students Congress

Dr. Casanova Ramón-Borja, Juan

- ♦ Coordinator of the Early Diagnosis of Prostate Cancer Unit of the Clínica de Urología y Andrología Dr. Rubio
- ♦ Coordinator of the Informatics, Databases and Multimedia Unit
- ♦ Coordinator of Focal Therapy
- ♦ Degree in Medicine and Surgery from the University of Valencia
- ♦ Doctorate Courses in the Department of Surgery, Faculty of Medicine, University of Valencia
- ♦ Member of AUCV, AEU

Mr. Pascual Piedrola, Ignacio

- ♦ Specialist in Urology
- ♦ Director of the Department of Urology University Clinic of Navarra

- ♦ Principal investigator specializing in prostate cancer
- ♦ Lecturer in numerous national and international Conferences
- ♦ Author of scientific publications and essays and editor of the book *Perspectivas históricas, presente y futuro de laparoscópica Urológica cirugía*

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Gutiérrez Baños, José Luis

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- ♦ Researcher in the EURCIS project

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- ♦ Interventional Radiologist in Hospital Quirónsalud Torrevieja
- ♦ Physician at the service of Diagnostic Imaging. Quirónsalud Palmaplanas Hospital



- ◆ Doctor of Medicine
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- ◆ Head of Urology Section, Hospital Universitario Central de Asturias Oviedo
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- ◆ Head of the Living Donor Renal Transplant Program at HUCA
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- ◆ President of the Asturian Urological Society
- ◆ Doctor in Medicine and Surgery, University of Oviedo
- ◆ Degree in Medicine and Surgery from the University of Oviedo
- ◆ Specialist in Urology from Nuestra Señora de Covadonga Hospital of Alicante

Dr. Balletero Diego, Roberto

- ◆ Expert researcher in Urology
- ◆ FEA in Urology at the Marqués de Valdecilla University Hospital
- ◆ Researcher in the Research and Innovation in Surgery group of IDIVAL

Dr. Collado Serra, Argimiro

- ◆ Specialist in Urology
- ◆ Director of the Urology Unit, in Functional Foundation IVO, Madrid
- ◆ Author of dozens of scientific articles published in specialized journals
- ◆ Member of the Editorial Board of Spanish Archives of Urology

- ♦ Principal investigator and collaborator in several clinical trials
- ♦ Author and co-author of several chapters in books related to Urology
- ♦ Author and co-author of dozens of scientific articles on Urology magazines
- ♦ Speaker at numerous Urology Congresses
- ♦ Teacher in university studies of Medicine and in training courses for doctors

Dr. Bahilo Mateu, Pilar

- ♦ Specialist in Urology expert in Lithotripsy
- ♦ Urologist in the University Hospital and Polytechnic La Fe
- ♦ Urologist at Hospital Quirónsalud Valencia
- ♦ Author and co-author of articles published in scientific journals

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- ◆ Expert in Management of Clinical Units by Carlos III University

Dr. Valle González, Francisco

- ◆ Attending physician and head of the Urology Department of the Valle del Nalón Hospital
- ◆ Resident physician in the emergency department. San Agustín de Avilés
- ◆ Member of the associations:
 - ◆ 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. Fabuel Alcañiz, José Javier

- ◆ Specialist in Urology
- ◆ Resident Physician in Urology at Ramón y Cajal Hospital
- ◆ Author of several scientific publications related to Urology
- ◆ Specialization in Clinical Research Methodology for Residents from the University of Alcalá

Dr. Martínez Arcos, Laura

- ♦ Urology Specialist, Vinalopó University Hospital
- ♦ Specialist in Urology at Ramón y Cajal Hospital
- ♦ Specialist in Urology SESCOAM
- ♦ Degree in Medicine. from the University of Castilla La Mancha
- ♦ Specialist in Clinical Research Methodology for Residents from the University of Alcalá

Dr. Soler Catalán, Pablo

- ♦ Head of Radiation Oncology Service IMED Hospitals
- ♦ Assistant Physician in Oncology Radiotherapy. IMED Hospitals
- ♦ Radiation Oncology Physician. University of Valencia
- ♦ Degree in Medicine and Surgery. Navarra University
- ♦ Resident Intern. Valencian Institute of Oncology Foundation

Dr. Morán Pascual, Eduardo

- ♦ Specialist in the Reconstructive and Functional Urology Section of Hospital La Fe
- ♦ Specialist in Urology MyMedica
- ♦ PhD in Medicine from the University of Valencia
- ♦ Degree in Medicine and Surgery from the University of Valencia

Dr. Luján Marcos, Saturnino

- ♦ Specialist in Urology, La Fe University and Polytechnic Hospital
- ♦ Urology specialist at the Valencian Institute of Infertility
- ♦ PhD in Medicine from the University of Valencia
- ♦ Degree in Medicine and Surgery from the University of Valencia
- ♦ Fellowship in Men's Reproductive Health at the University of Illinois

Romero Maroto, Jesús

- ♦ Chief of Urology Service. San Juan University Hospital
- ♦ Professor of Urology at the University Miguel Hernández
- ♦ Member of the Association of Urology of the Valencian Community

Dr. Polo Rodrigo, Alba

- ♦ Specialist in Pediatric and Adult Urology
- ♦ Specialist in Urology, La Fe University and Polytechnic Hospital
- ♦ Author of dozens of scientific publications on his medical specialty

Dr. Moralejo Gárate, Mercedes

- ♦ Urology Specialist at Gregorio Marañón University Hospital
- ♦ Urology Specialist at Hospital Vithas Madrid Aravaca
- ♦ Degree in Medicine from the University of Santiago de Compostela
- ♦ Urology Specialist at Gregorio Marañón General: University Hospital
- ♦ Fellowship in Laparoscopic and Minimally Invasive Surgery at the Cleveland Clinic of Ohio

Dr. Pereira Arias, José Gregorio

- ♦ Head of the Robotic Surgery Unit at Clínica Bilbao SL Urology Clinic at IMQ Zorrotzaurre Clinic
- ♦ Medical specialist in Oncological Surgery for the treatment of urological tumor pathology
- ♦ Clinical Chief of the Hospital de Galdakao Usansolo
- ♦ Head of the Urology Department of the San Eloy Hospital

Dr. García Seguí, Alejandro José

- ♦ Coordinator of the Advanced Prostate Cancer Unit at the Hospital General Universitario de Elche
- ♦ Urology Specialist at Clínica Quirónsalud Gran Alacant
- ♦ Specialist in Urology at Quirónsalud Torrevieja Hospital
- ♦ Urology Specialist, Vinalopó University Hospital
- ♦ Doctorate in Biomedicine and Health Sciences, European University
- ♦ Degree in Medicine from the Central University of Venezuela
- ♦ Specialty in Urology at the General Hospital of the West Dr. José Gregorio Hernández

Dr. Portillo Martín, José Antonio

- ♦ Urology Specialist, Marqués de Valdecilla University Hospital
- ♦ Author of hundreds of scientific articles related to his specialty

05

Structure and Content

The structure of the syllabus has been designed by a team of professionals with knowledge of the implications of medical training in the approach to patients with urologic pathologies, who are aware of the relevance of the up-to-date specialization, and are committed to quality teaching using new educational technologies.



“

This Master's Degree in Update on Urologic Surgery contains the most complete and up-to-date scientific program on the market”

Module 1. Latest Advances in Surgical Anatomy Laparoscopic Anatomy

- 1.1. Upper Surgical Anatomy
- 1.2. Anatomy of Retroperitoneal Compartments
- 1.3. Lower Surgical Anatomy
- 1.4. Surgical Anatomy of the Pelvic Floor

Module 2. Basic Aspects of Urologic Surgery

- 2.1. Basic Perioperative Aspects
- 2.2. Instrumentation and Drainage of the Urinary Tract
- 2.3. Basic Principles of Endourology
- 2.4. Basic Principles in a Laparoscopy, Minilaparoscopy and 3D
- 2.5. Basic Principles in Robot Assisted Laparoscopic Surgery
- 2.6. Basic Principles in Single-Port Laparoscopic Surgery / NOTES

Module 3. Latest Advances in Diagnosis and Treatment Techniques in Urology

- 3.1. Intravesical Instillation of Drugs
- 3.2. Penile Ultrasound / Penile Doppler
- 3.3. Testicular Ultrasound / Testicular Doppler
- 3.4. Prostate Ultrasound
- 3.5. Pyelography
- 3.6. Flexible Cystoscopy
- 3.7. Adult Urodynamic Study
- 3.8. Pediatric Urodynamic Study
- 3.9. Prostate Biopsy
 - 3.10. Multiparametric MRI
 - 3.11. Bone Scanning
 - 3.12. PET-CAT
 - 3.13. Isotopic Renogram

Module 4. Latest Trends on Suprarenal and Retroperitoneal Surgical Pathology

- 4.1. Right Laparoscopic Adrenalectomy
- 4.2. Left Laparoscopic Adrenalectomy
- 4.3. Partial Laparoscopic Adrenalectomy
- 4.4. Adrenal Carcinoma (ACC)
- 4.5. Retroperitoneal Tumors

Module 5. Latest Trends in Renal Surgical Pathology

- 5.1. Managing Renal Cancer with Cava Thrombus
- 5.2. Laparoscopic Nephrectomy
 - 5.2.1 Intraoperative
 - 5.2.2 Retroperitoneal
- 5.3. Partial Nephrectomy / Off Clamp Lumpectomy
- 5.4. Partial Nephrectomy / Selective Lumpectomy or Supraselective Clamping
- 5.5. Living donor nephrectomy
- 5.6. Focal Treatment of Renal Tumors

Module 6. Latest Trends in Surgical Pathology of the Upper Urinary Tract(UUT)

- 6.1. Laparoscopic Nephroureterectomy and Surgical Treatment of the Distal Ureter
- 6.2. Endoscopic Treatment of the Upper Urinary Tract Tumors
- 6.3. Percutaneous Nephrostomy
- 6.4. Lithiasis Fragmentation Methods: Energy Types
- 6.5. Percutaneous Nephrolithotomy in Prone Position
- 6.6. Percutaneous Nephrolithotomy in Supine Position
- 6.7. Minipercutaneous" nephrolithotomy. Types
- 6.8. Retrograde Intrarenal Surgery (CRIR or RIRS)

- 6.9. Combined Antegrade and Retrograde Surgery ECIRS
 - 6.10. Ureteral Access Sheaths. Types and Compatibilities
 - 6.11. Extracorporeal Shock Wave Lithotripsy
 - 6.12. Semi-Rigid Ureteroscopy (SRU): Microureteroscopy (Micro-URS)
 - 6.13. Antiretroviral Mechanisms and Techniques
 - 6.14. Endourologic Treatment of Infundibular Stenosis
 - 6.15. Pyeloureteral Junction Stenosis (PUJ)
 - 6.16. Treatment of Ureteral Stenosis: Prosthesis
 - 6.17. Treatment of Ureteral Stenosis: Sections
 - 6.18. Ureteral Replacement and Reimplantation
 - 6.19. Uretero-Intestinal Stenosis: Endoscopic treatment
 - 6.20. Uretero-Intestinal Stenosis: Surgical Management

Module 7. New Advances in the Field of Kidney Transplant

- 7.1. Renal Extraction
- 7.2. Heterotopic Renal Transplant
- 7.3. Orthotopic Renal Transplant
- 7.4. Robotic Renal Transplant
- 7.5. Renal Autotransplantation
- 7.6. Ureteroneocystostomy Types

Module 8. New Advances in the Field of Vascular Kidney Transplant

- 8.1. Renal Artery Stenosis: Percutaneous Treatment
- 8.2. Renal Artery Stenosis: Surgical Management
- 8.3. Renal Artery Aneurysm. Percutaneous Treatment
- 8.4. Renal Artery Aneurysm. Surgical Management
- 8.5. Renal Embolization post NLP and NP

Module 9. Latest Trends in Bladder Surgical Pathology

- 9.1. Randomized bladder biopsy. Bladder TUR Bloc TUR Laser
- 9.2. Hexvix/SPIES/NBI-Assisted Bladder TUR
- 9.3. Laparoscopic Partial and Radical Cystectomy in Males with Urethrectomy: Open bypass
- 9.4. Laparoscopic / Robotic Cystectomy in Females: Laparoscopic Bypass
- 9.5. Lymphadenectomy in Bladder Cancer
- 9.6. Open and Endoscopic Cystostomy / Cystolithotomy
- 9.7. Vesicoureteral Reflux Surgery
- 9.8. Bladder Diverticulum Surgery

Module 10. Latest Trends in Prostate Surgical Pathology

- 10.1. Prostate TUR: Trigonocervicoprostatotomy
- 10.2. Prostatic Vaporization
- 10.3. Prostatic Enucleation
- 10.4. Prostatic Adenomectomy
- 10.5. Urolift. I-Tind
- 10.6. Prostate Prosthesis
- 10.7. Laparoscopic / Robotic Radical Prostatectomy
- 10.8. Radical Prostatectomy / Hydrodissection
- 10.9. Prostatic Radiotherapy (IMRT) / Prostatic Brachytherapy
 - 10.10. Focal Therapy: Cryotherapy
 - 10.11. Focal Therapy: HIFU (High Intensity Focused Ultrasound)
 - 10.12. Focal Therapy: Electroporation
 - 10.13. Lymphadenectomy in Prostate Cancer

Module 11. Latest Trends in Urethra Surgical Pathology

- 11.1. Endoscopic Treatments of Urethral Lithiasis
- 11.2. Posterior Urethroplasty
- 11.3. Anterior Urethroplasty
- 11.4. Hypospadias Surgery in Children
- 11.5. Hypospadias Surgery in Adults
- 11.6. Urethral Fistulas
- 11.7. Female Urethra Stenosis
- 11.8. Urethral Diverticulum Surgery in Women
- 11.9. Regenerative Medicine in Urethral Pathology

Module 12. Latest Trends in Penis Surgical Pathology

- 12.1. Gland decortication and penectomy
- 12.2. Penile Incurvation Surgery
- 12.3. Penis Prosthesis
- 12.4. Inguinal lymphadenectomy

Module 13. Latest Trends in Scrotal and Testicular Surgical Pathology

- 13.1. Vasectomy and Vasovasostomy
- 13.2. Surgical Treatment of Varicocele
- 13.3. Surgical Treatment of the hydrocele
- 13.4. Cryptorchidism and Orchidopexy
- 13.5. Orchiectomy
- 13.6. Sperm Retrieval Techniques
- 13.7. Lymphadenectomy in Testicular Cancer





Module 14. New Advances in the Surgical Treatment of Urinary / Pelvic Floor Incontinence

- 14.1. Urinary Incontinence in Women
 - 14.1.1 Stress Urinary Incontinence
 - 14.1.1.1. Suburethral Meshes (TOT, TVT)
 - 14.1.1.2. Single Incision Meshes (minislings)
 - 14.1.1.3. Autologous Sling
 - 14.1.1.4. Adjustable Meshes (TOA, TVA, Remeex)
 - 14.1.1.5. Space-occupying Agents
 - 14.1.1.6. Artificial Urinary Sphincter
 - 14.1.1.7. Stress Urinary Incontinence Treatment
 - 14.1.2 Emergency Urinary Incontinence
 - 14.1.2.1. Intravesical Botulinum Toxin Injection
 - 14.1.2.2. Neuromodulation: Tibial and NM Sacral Stimulation
- 14.2. Treatment of Vesico-Vaginal Fistula
 - 14.2.1 Pelvic floor management in the correction of vesicovaginal, enterovesical and rectovaginal fistulas
 - 14.2.2 Transvesical Fistulectomy
 - 14.2.3 Laparoscopic Repair of Vesico-Vaginal Fistulas
- 14.3. Pelvic Prolapse Surgery
 - 14.3.1 Surgical Treatment of Pelvic Organ Prolapse
 - 14.3.1.1. General Aspects
 - 14.3.1.2. Cystocele Correction
 - 14.3.1.3. Middle and Posterior Compartment Surgery
 - 14.3.2 Transvaginal Mesh Repair Surgery
 - 14.3.3 Laparoscopic Colposacropexy
- 14.4. Urinary Incontinence Surgery in Males

06

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

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Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

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 evaluate 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.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

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.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



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.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



Interactive Summaries

The TECH team presents 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 and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in 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.



07 Certificate

The Master's Degree in Update on Urologic Surgery guarantees, in addition to the most rigorous and up-to-date education, access to a Master's Degree issued by TECH Global University.



“

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”

This private qualification will allow you to obtain a **Master's Degree diploma in Update on Urologic Surgery** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

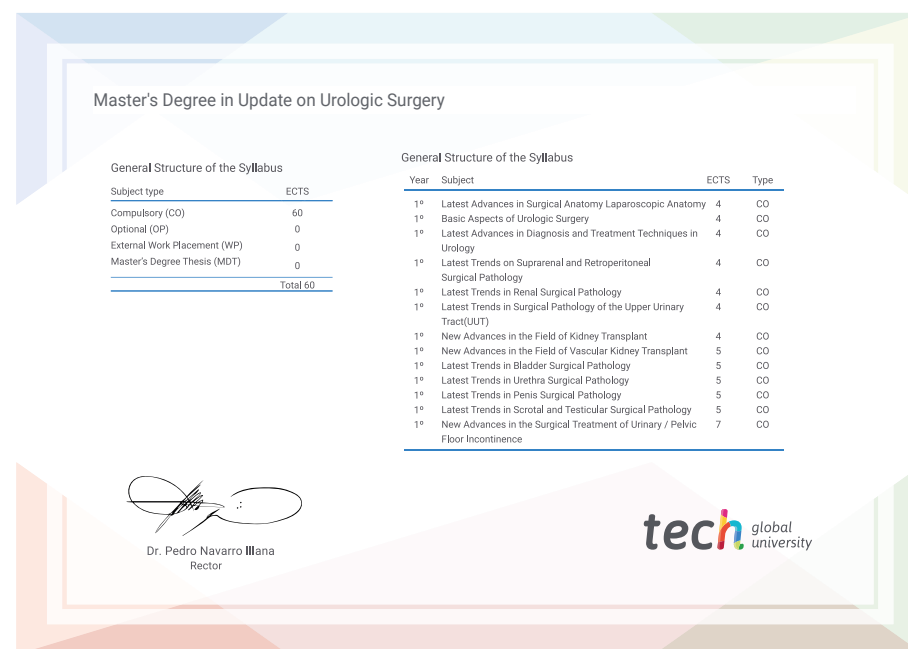
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Master's Degree in Update on Urologic Surgery**

Modality: **online**

Duration: **12 months**

Accreditation: **60 ECTS**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



Master's Degree

Update in Urologic Surgery

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Global University
- » Credits: 60 ECTS
- » Schedule: at your own pace
- » Exams: online

Master's Degree Update on Urologic Surgery

Endorsed by:

