

# Hybrid Professional Master's Degree

## Update on Urologic Surgery



## Hybrid Professional Master's Degree Update on Urologic Surgery

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Technological University

Teaching Hours: 1,620 h.

Website: [www.techtitute.com/us/medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-update-urologic-surgery](http://www.techtitute.com/us/medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-update-urologic-surgery)

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# 01

# Introduction

Urologic Surgery has progressed intensively in recent times through minimally invasive techniques, lasers, robotic surgery, digital endoscopes, among others. The implementation of these new technologies allows a faster recovery and a better patient prognosis, which makes them a learning priority for the professional. This program offers the widest compendium of knowledge in this academic field, with experienced teachers who will provide educational solutions to update their knowledge and strengthen their skills through an immersion in the hospital reality of a first level center.



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*Update yourself in a complete and multidisciplinary way through a program in which theoretical learning is complemented by a high-quality practice in a first level hospital”*

At present there are numerous diagnostic and therapeutic options in the field of Urology. These have generated a large volume of information that offers the specialist a better compatibility of the daily clinical and surgical practice in this area. Likewise, the program has new technological advances whose manipulation depends on a high qualification. Therefore, it is essential for the physician to have holistic access to the scientific knowledge of this academic area, as well as to the most innovative methodologies of action within the different health systems.

In this context, TECH has created an excellent program, divided into two rigorous and exhaustive pedagogical phases. The first phase is focused on excellent theoretical contents and is carried out by a highly prestigious teaching staff. Among the subjects studied in this phase, students will find the most innovative particularities for the use of prostate and testicular ultrasound. In addition, they will delve into the most complex intervention methodologies for the removal of malignant tumors in the urinary system or the development of transplants with minimally invasive technologies. This syllabus, composed of 10 modules, is supported by teaching strategies such as *Relearning*, to promote the immediate acquisition of new skills in the student.

On the other hand, the experience includes several videos in masterclass format elaborated by an expert in Urology of international recognition, who will share, in addition to his successful strategies, the formulas of his own authorship that have contributed to the advancement of Medicine.

Moreover, in a second phase of the program, students will have the opportunity to complement their knowledge with a practical internship. The latter will take place in a prestigious hospital center, staffed by leading experts in Urology and equipped with the most innovative technologies. This process will be extended for 3 weeks, in 8-hour shifts, Monday through Friday. In them, each professional will be guided by a designated tutor. This specialist will be in charge of integrating them appropriately into the dynamics of the institution's care and will facilitate the direct approach to patients with various urological complications.

This **Hybrid Professional Master's Degree in Update on Urologic Surgery** contains the most complete and up-to-date scientific program on the market. Its most outstanding features are:

- ♦ Development of more than 100 clinical cases presented by professionals in this area of work and university professors with extensive experience and background
- ♦ 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
- ♦ Comprehensive systematized action plans for the main pathologies
- ♦ Presentation of practical workshops on procedures diagnosis, and treatment techniques
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Practical clinical guides on approaching different pathologies
- ♦ Special emphasis on test-based medicine and research methodologies
- ♦ All of this will be complemented by 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
- ♦ Furthermore, you will be able to carry out a clinical internship in one of the best hospital centers



*You will have full access to several exclusive masterclasses led by a guest director of international reputation in the field of Urology”*

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*This Hybrid Professional Master's Degree perfectly combines the best theoretical contents, taught by professionals in the field with extensive teaching experience, and learning about real cases that will immerse you in the reality of the sector”*

In this Hybrid Professional Master's Degree, of a professionalizing nature and blended learning modality, the program is aimed at updating Urology professionals who require a high level of qualification. The contents are based on the latest scientific evidence, and oriented in a didactic way to integrate theoretical knowledge into medical practice, and the theoretical and practical elements will facilitate the updating of knowledge and allow decision making in patient management.

Thanks to its multimedia content elaborated with the latest educational technology, they will allow the medical professional a situated and contextual learning, that is to say, 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 physician must try to solve the different professional practice situations that arise during the course. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*This Hybrid Professional Master's Degree provides you with the most efficient resources to acquire a constant advancement that not only completes your knowledge, but also allows you to update it.*

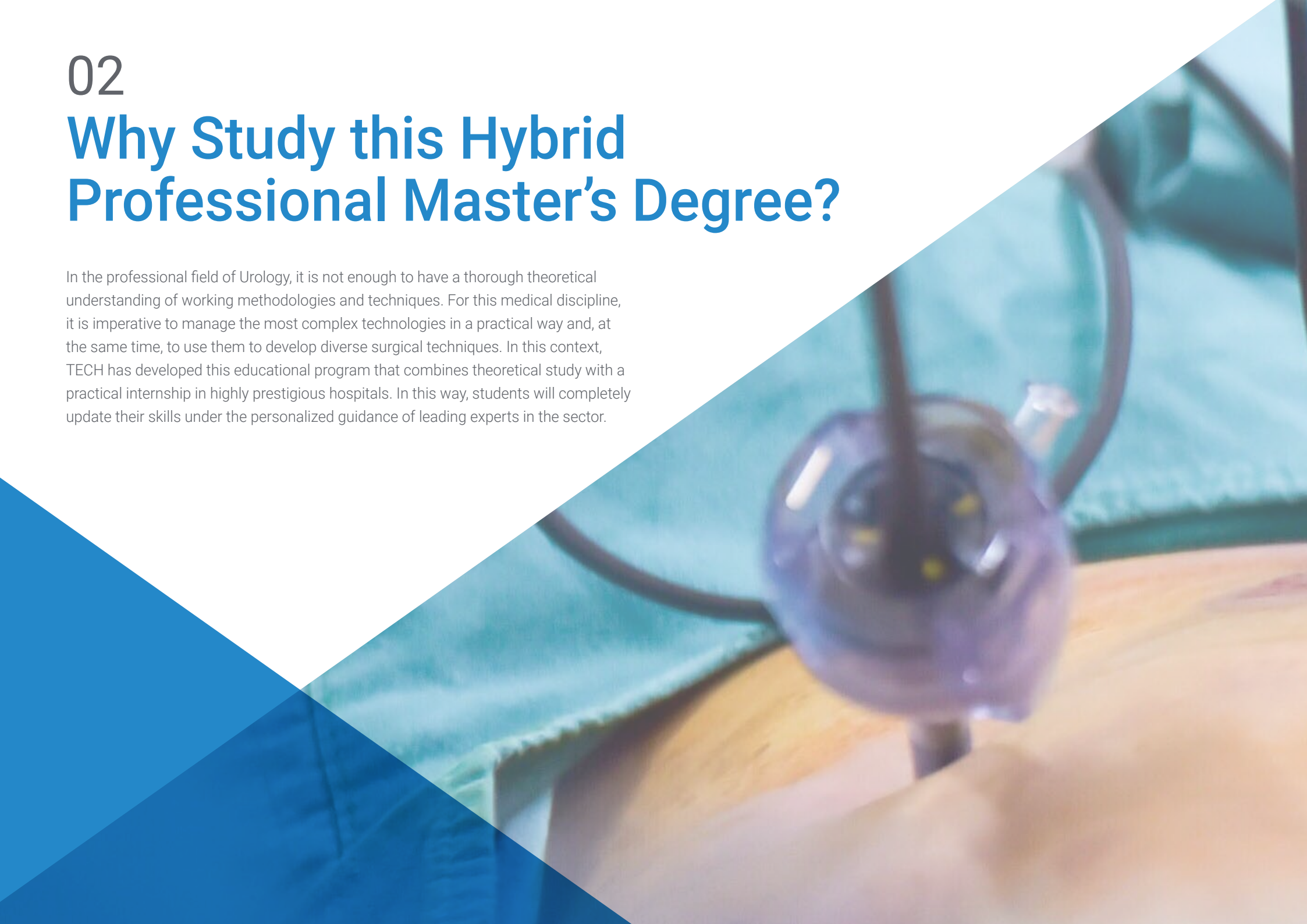
*In the practical phase of this program, you will learn from active participation in all clinical areas of interest to the professional, incorporating rapid and efficient response skills, essential for work in the hospital area.*



02

# Why Study this Hybrid Professional Master's Degree?

In the professional field of Urology, it is not enough to have a thorough theoretical understanding of working methodologies and techniques. For this medical discipline, it is imperative to manage the most complex technologies in a practical way and, at the same time, to use them to develop diverse surgical techniques. In this context, TECH has developed this educational program that combines theoretical study with a practical internship in highly prestigious hospitals. In this way, students will completely update their skills under the personalized guidance of leading experts in the sector.





Why Study this Hybrid Professional | 09  
Master's Degree?



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*Through this study program, you will have access to renowned institutions in the healthcare field, under the personalized supervision of leading specialists”*

### 1. Updating from the latest technology available

TECH's Hybrid Professional Master's Degree in Update on Urologic Surgery offers a unique opportunity to master the latest technologies for the development of transplants and non-invasive surgeries using robotic tools. In turn, the qualification provides a holistic understanding of how these innovations are applied in daily professional practice, through a dynamic and demanding on-site internship.

### 2. Gaining In-depth Knowledge from the Experience of Top Specialists

During this study program, TECH students will be accompanied by a large team of professionals. With their help, graduates will develop complex theoretical knowledge and discuss real cases with prestigious healthcare experts. At the same time, during the on-site internship, students will have a designated tutor to complement their skills and provide them with personalized guidance.

### 3. Entering First-Class Clinical Environments

TECH carefully selects all the centers available for the practical phase of this program. In this way, students will be able to access various environments that today require qualified experts to perform urologic surgeries. In these spaces, they will find the best professionals to prepare their students and the most up-to-date technologies.





#### 4. Combining the Best Theory with State-of-the-Art Practice

The educational market is plagued by teaching programs that are poorly adapted to the daily work of the specialist and that demand excessive academic loads. TECH, in order to distinguish itself from this context, offers a new model that combines theoretical study with the acquisition of skills through a 100% practical internship. In this way, its students are able to put themselves at the forefront of experts in Urologic Surgery.

#### 5. Expanding the Boundaries of Knowledge

The professional internships of this Hybrid Professional Master's Degree will allow students to access renowned medical centers, located in different latitudes. In this way, each of them will be able to expand their horizons based on international standards. This opportunity is unique in its kind and is possible thanks to the network of contacts and collaborators within TECH's reach.

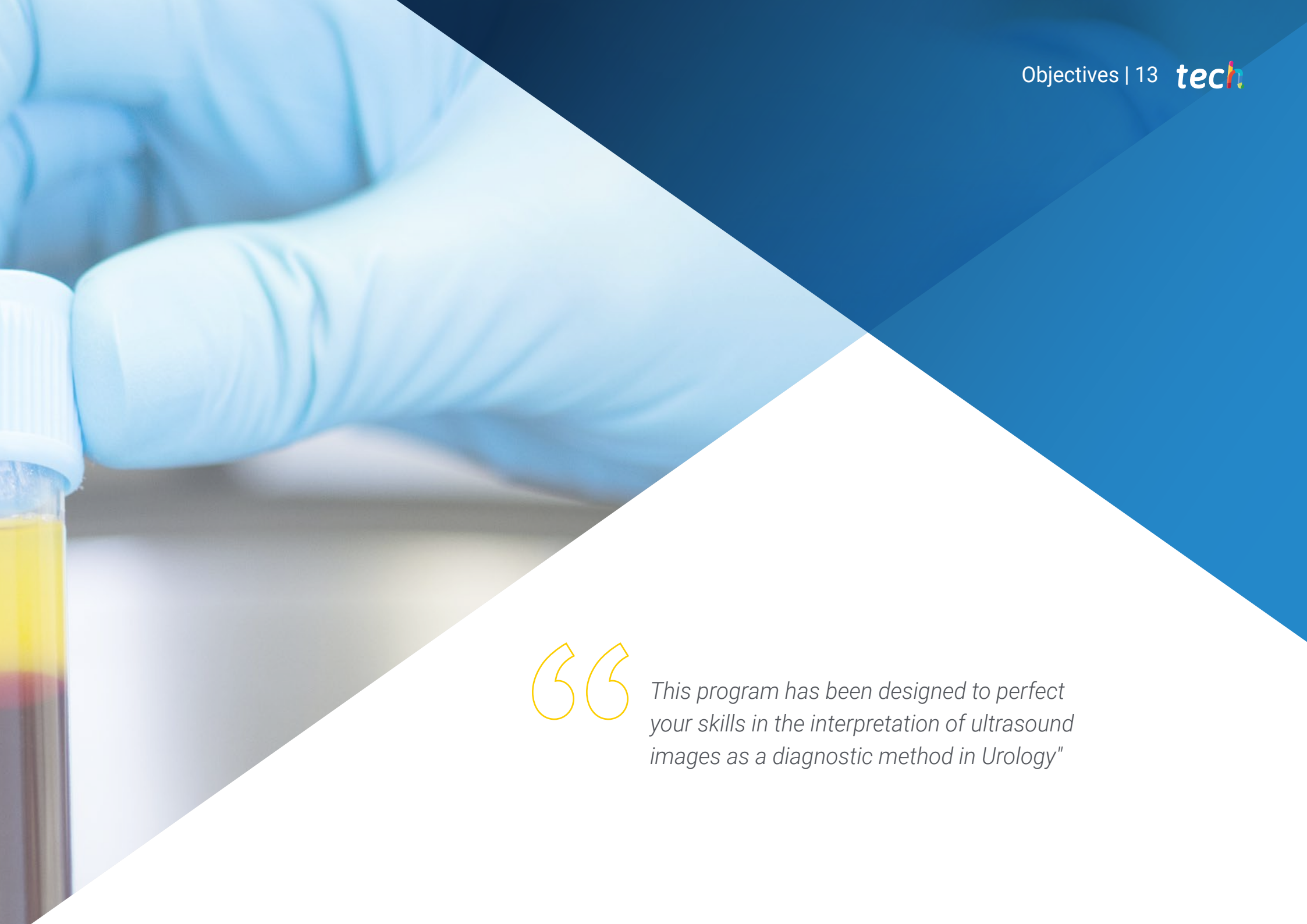


*You will have full practical immersion  
at the center of your choice"*

# 03 Objectives

Urologic Surgery is characterized by its complexity, as well as by the countless advances that are continually being made in this field with respect to therapeutic and diagnostic techniques and strategies. It is for this reason that TECH has decided to develop a program that gathers, precisely, all the information in this regard and through which the specialist can catch up on clinical advances made through a theoretical and practical educational experience adapted to their professional needs and requirements.





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*This program has been designed to perfect your skills in the interpretation of ultrasound images as a diagnostic method in Urology"*



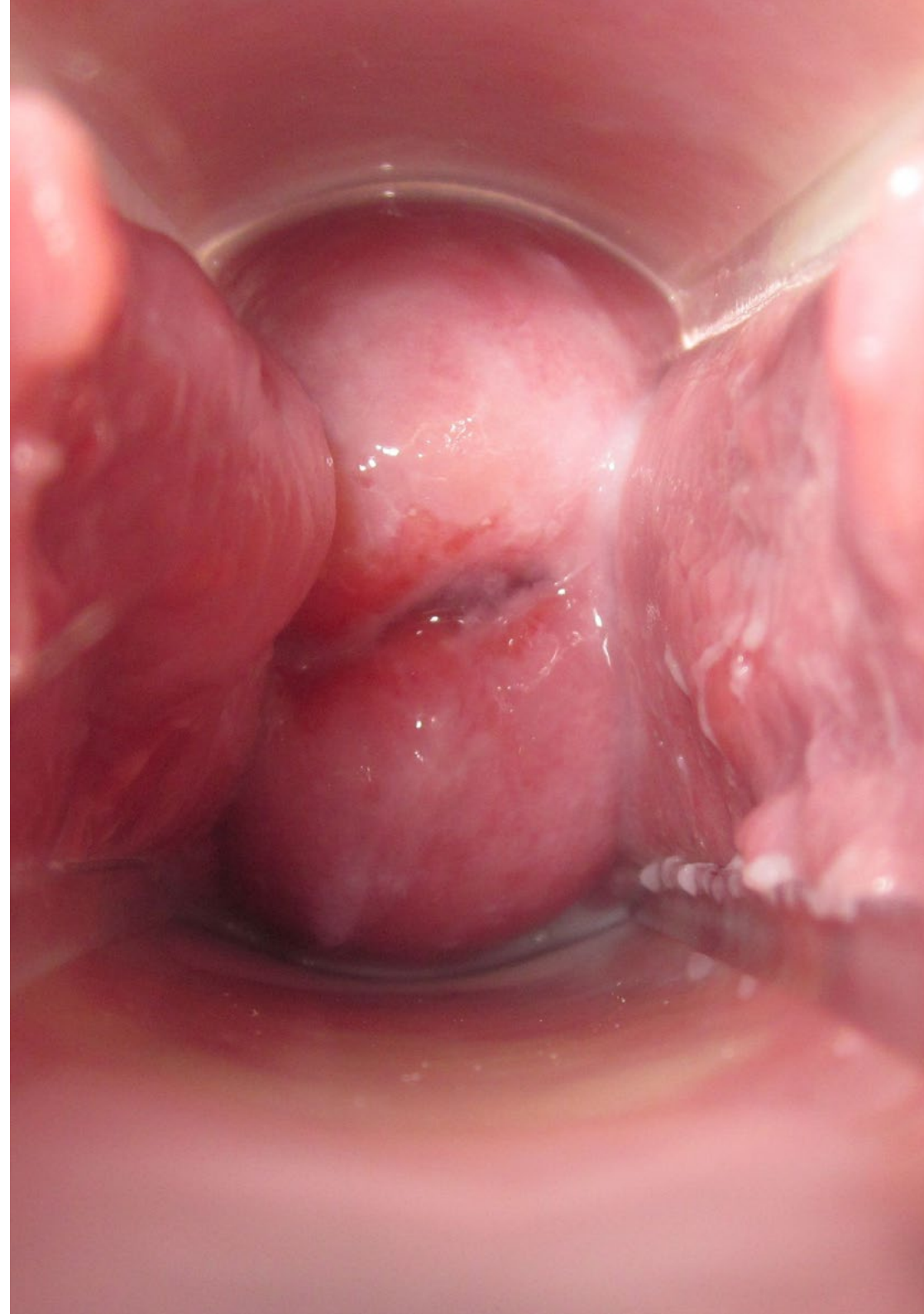
## General Objective

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- This Hybrid Professional Master's Degree has been designed to allow the graduate to implement the main changes in urologic surgical anatomy treatments. In addition, thanks to this course, you will work on perfecting your skills in differentiating adrenal pathologies and implement the most innovative and effective surgical techniques in the sector in your practice. All this will allow you to increase the quality of your service and offer an even more personalized healthcare



*A program thanks to which you will master the techniques of reimplantation and ureteral replacement based on the latest trends in surgical pathology of the upper urinary tract"*





## Specific Objectives

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### Module 1. Latest Advances in Surgical Anatomy Laparoscopic Anatomy

- ♦ Correctly use endoscopic, radiologic and urodynamic examination techniques as well as the practice of prostate 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

- ♦ Laparoscopic Living Donor Nephrectomy. Hand-Assisted Nephrectomy
- ♦ Distinguish the different endoscopic techniques in urologic surgery
- ♦ Explain in which cases it is correct to use intravesical instillation of drugs and which ones
- ♦ Interpret ecographic images as a diagnosis method in urology

### Module 4. Latest Trends in Suprarenal and Retroperitoneal Surgical Pathology

- ♦ Recognise the current concepts in adrenal surgical pathology
- ♦ Confirm the information we have on the treatment of adrenal carcinoma is up to date
- ♦ Recognise 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

- ♦ Recognize the indications, contraindications and access routes, as well as the material commonly used and technological innovations for the treatment of both tumor and benign pathology, including upper urinary tract lithiasis
- ♦ Master the technique for reimplantation 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 autotransplantation

### **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 between 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
- ♦ Typify hypospadias and decide 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**

- ♦ Laparoscopic right-sided adrenalectomy
- ♦ Recognize the techniques, indications, contraindications, access routes, types of mesh, prosthesis and other methods most frequently used in cases of stress incontinence, both in 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



*Enroll now and advance in your field of work with a comprehensive program that will allow you to put into practice everything you have learned"*

# 04 Skills

This Hybrid Professional Master's Degree will allow you to acquire the theoretical and practical skills necessary and updated in the intervention in Urologic Surgery. With a process of conversion of knowledge into real skills, it has been configured as an exceptional process of professional progress. A very complete approach, in a high-level Hybrid Professional Master's Degree, which makes the difference.





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*With this Hybrid Professional Master's Degree you will acquire skills through the conversion of the most up-to-date theoretical knowledge into real practical skills, in a hospital environment of the highest quality”*



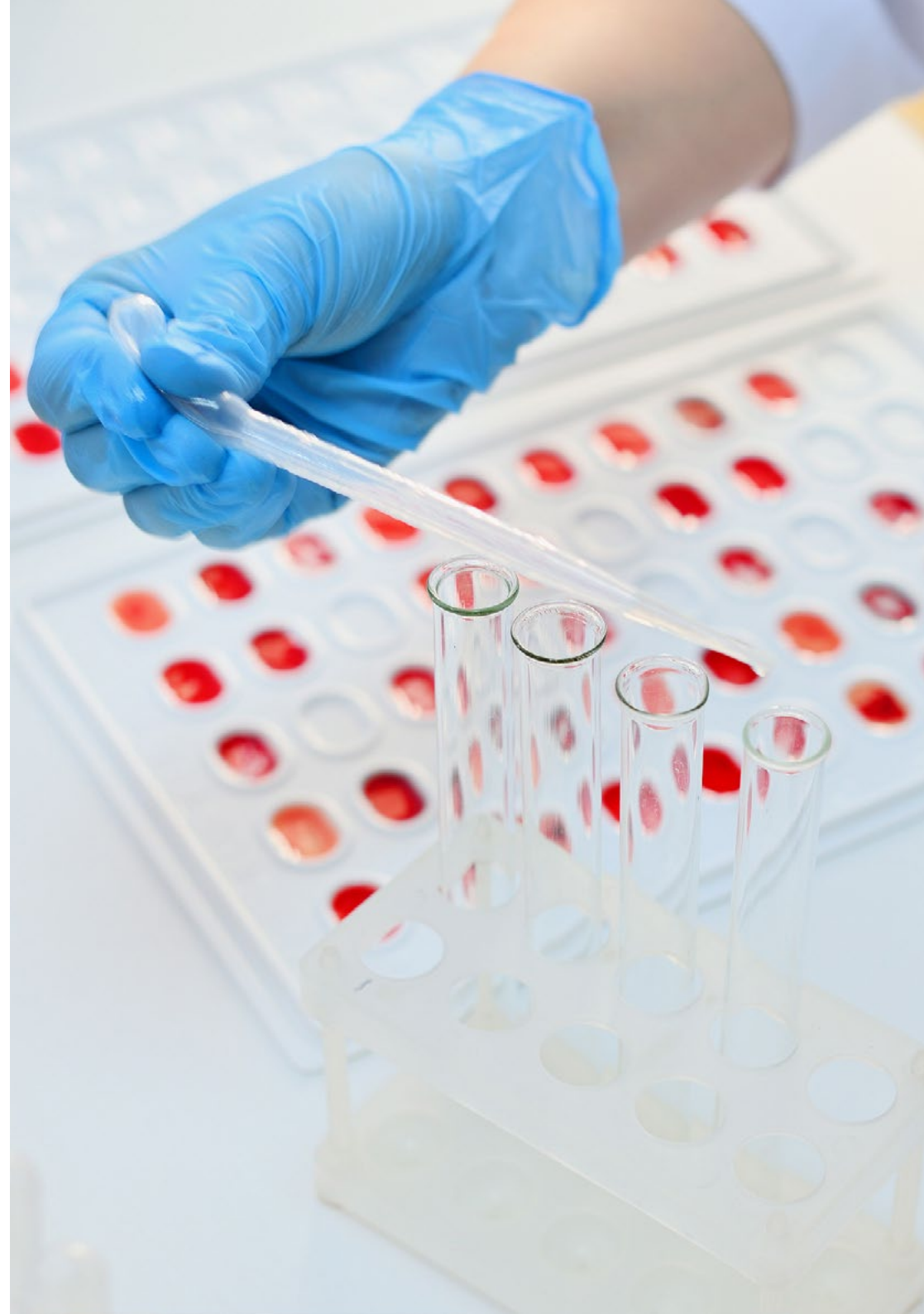
## General Skills

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- Understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- Apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field 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 their knowledge and judgments
- Communicate conclusions and the ultimate knowledge and rationale behind them to specialized and non-specialized audiences in a clear and unambiguous manner
- Acquire the learning skills that will enable further studying in a largely self-directed or autonomous manner



*You will combine theory and professional practice through a demanding and rewarding educational approach"*





## Specific Skills

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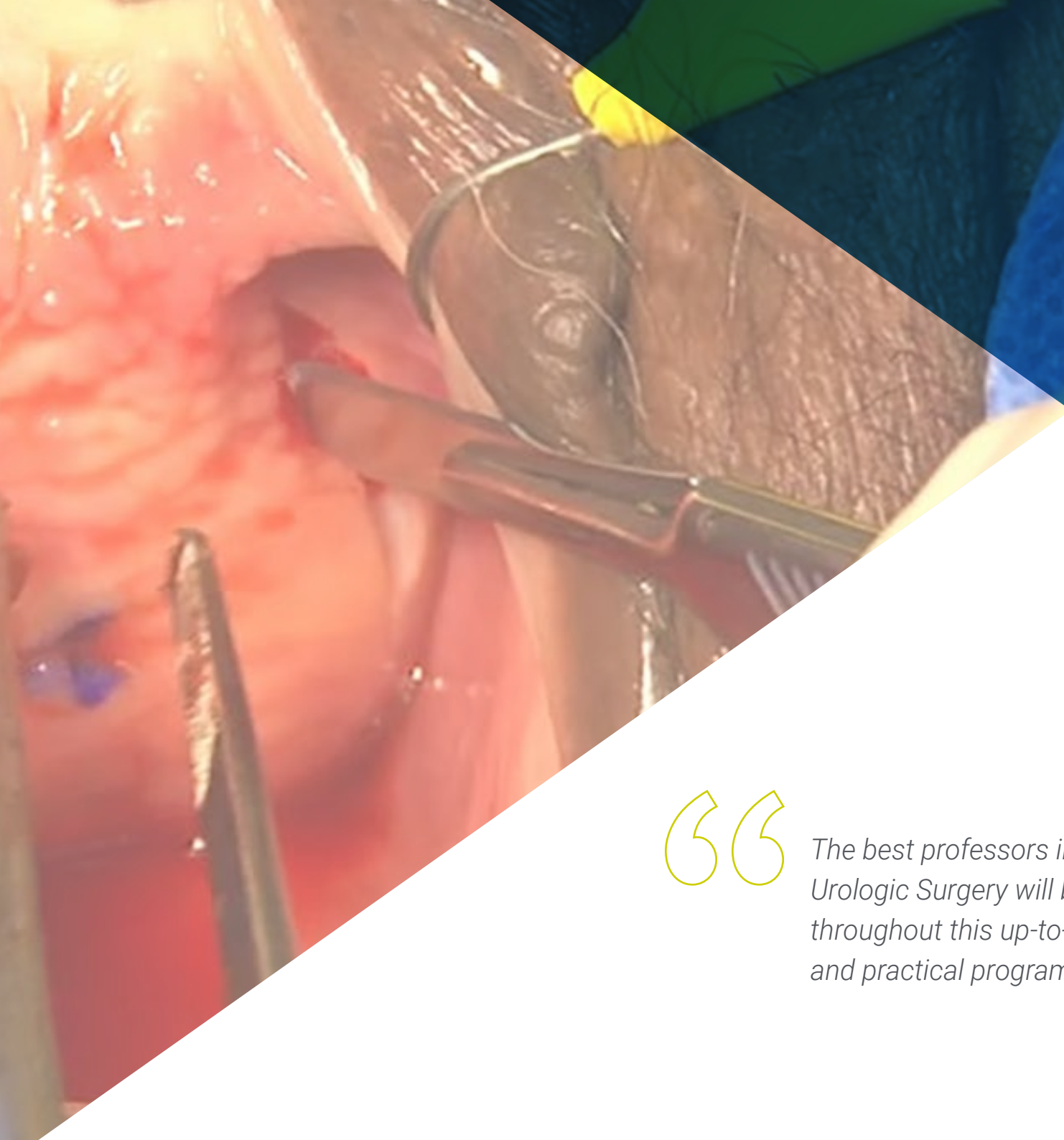
- ◆ Describe the pathogenic basis of urologic diseases, incorporating the latest anatomical-morphological advances in the field of study
- ◆ Manage the basics of endoscopy and laparoscopy, and their routine use in surgical procedures of the urinary system
- ◆ Determine the indications, limitations and cost-effectiveness of the diagnostic tests used in the light of the latest advances in urology
- ◆ Gain a deeper understanding of the latest surgical trends in the adrenal pathologies susceptible to intervention
- ◆ Identify the latest advances in renal transplant surgery and relate them to the surgical techniques used in routine practice
- ◆ Identify the principles for selecting candidates for kidney transplantation, the surgical basis of transplantation, and immunosuppressive drugs
- ◆ Describe the latest trends in vascular surgery of the kidneys
- ◆ Incorporate the latest advances in the field of bladder and prostate pathology into the surgical procedures of the urinary system
- ◆ Explain the correct way to manage urethral surgery according to the latest scientific evidence
- ◆ Integrate new surgical techniques in the surgical approach of the penis, testicles and scrotum
- ◆ Manage 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

# 05

# Course Management

The development of the theoretical materials for this program has been carried out by an exceptional team of professionals. All of them perform their professional activity in the most important hospitals and urologic surgery units of great prestige and scientific and technological demand. This faculty of the highest medical level and great teaching experience will provide personalized guidance to all students, clarifying doubts and concepts of interest.





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*The best professors in the field of Urologic Surgery will be at your disposal throughout this up-to-date educational and practical program”*

## 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

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- ♦ Director of Traumatology and Urologic Reconstructive Surgery at Johns Hopkins Medicine
- ♦ 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
- ♦ Member of Alpha Omega Alpha Honor Society
- ♦ Author of more than a dozen scientific articles indexed in PubMed



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

## Professors

### Ms. Ponce Blasco, Paula

- ♦ 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. Collado Serra, Argimiro

- ♦ Specialist in Urology
- ♦ Director of the Functional Urology Unit at the Valencian Institute of Oncology Foundation (IVO)
- ♦ Author of dozens of scientific articles published in specialized journals
- ♦ Member of the Editorial Board of Spanish Archives of Urology

### Mr. 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 SECLAEndosurgery 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. Galante Romo, María Isabel

- ♦ Urology Specialist expert in Robotics Surgery
- ♦ Doctor Specialist in Urology at San Carlos Clinical Hospital
- ♦ Urology Specialist at the Urology and Lithiasis Service of the Ruber International Hospital
- ♦ Researcher in the Urology, Oncology and New Technologies Research Group of the Institute of Biomedical Research
- ♦ Author in more than 20 published scientific articles. Assistant Urology
- ♦ Teacher in university studies of Medicine
- ♦ Master's Degree in Urologic Oncology by CEU Cardenal Herrera Oria

### Dr. Prieto Chaparro, Luis

- ♦ Specialist in Urology at the Elche General University Hospital
- ♦ Emergency Department, Príncipe de Asturias University Hospital, Alcalá de Henares
- ♦ Specialist Physician at the Virgen de los Lirios Hospital
- ♦ Faculty Specialist at the University Hospital of San Juan
- ♦ Doctor "Cum Laude" from the Complutense University of Madrid
- ♦ Permanent Board of Directors Treasurer elected position of the AEU
- ♦ Treasurer of SINUG, Iberoamerican Society of Neurourology and Urogynecology
- ♦ Member of the Board of Directors of Spanish Association of Urology
- ♦ Elected National Coordinator of the Female Functional Urology and Urodynamics Group
- ♦ Member of the Valencian and Murcian Association of Urology

**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

**Fernández Arjona, Manuel**

- ♦ Head of the Urology Service of the University Hospital 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

**Escribano Patiño, Gregorio**

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

**Dr. Duarte Ojeda, José**

- ♦ Physician specialized in Urology at the 12 de Octubre University Hospital
- ♦ Urologist at La Luz Clinic
- ♦ Urologist at Nuestra Señora de Covadonga del Rosario Hospital
- ♦ Practical teaching collaborator with undergraduate medical students
- ♦ Collaborative investigator in more than 15 clinical trials
- ♦ Author and co-author of more than 200 communications presented at Urology Congresses
- ♦ 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 of Medicine and Surgery, from the Complutense University of Madrid
- ♦ Graduate in Urological Oncology CEU from the Universidad Cardenal Herrera

**Dr. Martínez-Salamanca, Juan Ignacio**

- ♦ Founder and Medical Director of Lyx Institute of Urology
- ♦ Chief of the Urology Department, Virgen del Mar Hospital

- ♦ Specialist in Urology at the Puerta De Hierro University Hospital
- ♦ PhD in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Urology Specialist at Gregorio Marañón University Hospital
- ♦ Master's Degree in Health Services Administration and Management from Pompeu Fabra University
- ♦ Surgical Leadership Program at Harvard Medical School
- ♦ Fellow in Urology, Robotics and Sexual Medicine at Cornell University

#### **López Alcina, Emilio**

- ♦ Head of the prostatic pathology Unit at UROMED
- ♦ Specialist in Urology at INUVA Centers
- ♦ Head of the Urology Department of the University Hospital of Valencia
- ♦ President of the Scientific Committee of the CHGUV Research Foundation
- ♦ PhD in Medicine and Surgery from the University of Valencia
- ♦ Degree in Medicine and Surgery from the University of Valencia
- ♦ Specialist in Urology at La Fe University Hospital
- ♦ Postgraduate in Urodynamics from the University of Valencia
- ♦ Master's Degree in- Urology and Urodynamics from the University of Valencia
- ♦ Master's Degree in Medical Management and Clinical Management by the Carlos III Health Institute
- ♦ Practical Stay in the Interventional and Minimally Invasive Prostate Urology Service at the University College of London Hospital

#### **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

#### **Dr. Gómezb 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. Placer Santos, José**

- ♦ Specialist in Urology at Dexeus University Institute
- ♦ Associate Professor at Autonomous University of Barcelona
- ♦ PhD in Surgery, Autonomous University of Barcelona
- ♦ Specialist in Urology
- ♦ Degree in Medicine and Surgery from the University of Cantabria
- ♦ Resident Urology Intern at the Hospital del Mar - Hospital de l'Esperança of Barcelona
- ♦ Assistant Physician specializing in Urology at Hospital del Mar - Hospital de l'Esperança of Barcelona
- ♦ Associate Physician specializing in Urology at the University Hospital Vall d'Hebron of Barcelona
- ♦ Associate Physician specialist in Urology at Hospital Quirón - Dexeus of Barcelona
- ♦ Member of the Spanish Association of Urology
- ♦ Member of the European Association of Urology
- ♦ Member of the Official College of Physicians of Barcelona

**Dr. Moncada Iribarren, Ignacio**

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- ♦ Author of hundreds of scientific articles related to his specialty
- ♦ 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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- ♦ Master's Degree in Pediatric Urology from the International University of Andalusia
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- ♦ PhD in Medicine and Surgery from the Autonomous University of Madrid

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- ♦ Postgraduate Diploma in e-learning 2.0, e-learning and on-line training

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- ♦ Professor in undergraduate and postgraduate university studies related to Medicine
- ♦ Author of hundreds of scientific articles related to his specialty
- ♦ President of the Andalusian Association of Urology
- ♦ Doctor of Medicine and Surgery

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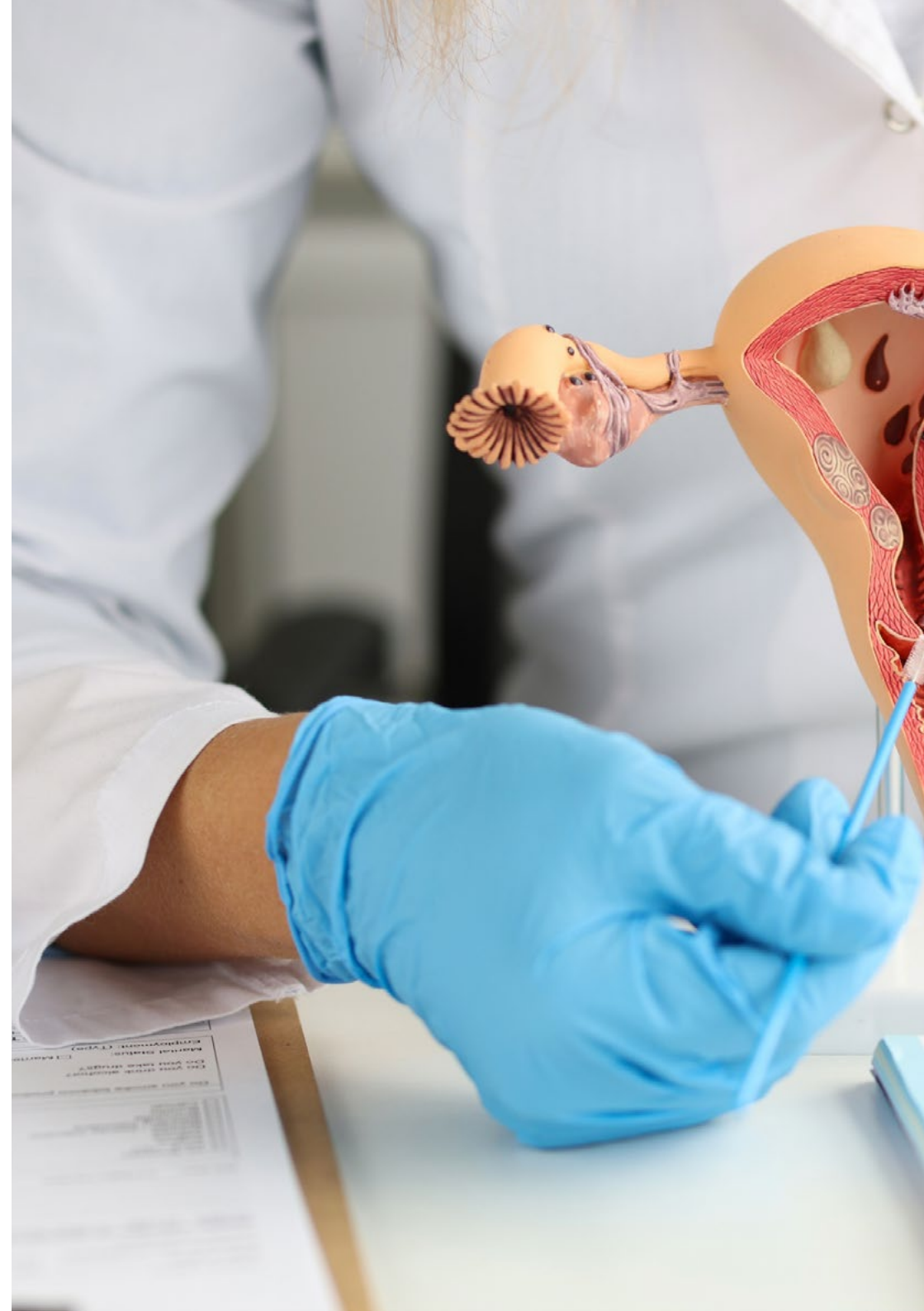
- ♦ Co-founder and co-director of Urosalud
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- ♦ Lecturer and researcher at international universities
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- ♦ Speaker in more than 20 national and international congresses
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- ♦ Postgraduate Research on Micromolecules of the urinary crystalline matrix







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- ◆ Secretary General of U-Merge (Urology in Emerging Countries)
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- ◆ Speaker at international congresses, workshops and courses
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- ♦ Member of the Spanish Association of Urology

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- ♦ Permanent Board of Directors Treasurer elected position of the AEU
- ♦ Treasurer of SINUG, Iberoamerican Society of Neurourology and Urogynecology
- ♦ Member of the Board of Directors of Spanish Association of Urology
- ♦ Elected National Coordinator of the Female Functional Urology and Urodynamics Group
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- ♦ Author and co-author of dozens of scientific articles on Urology magazines
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- ♦ Specialist in Urology La Fe University Hospital, Valencia
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- ♦ Member of the team of reviewers of the "International Journal of Urology" and "World Journal of Urology"
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- ♦ Member of the International Association of Endourology and Laparoscopy

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- ♦ Certified for Da Vinci Robotic Surgery by the Minimally Invasive Center IRCAD of Strasbourg
- ♦ Training Stay in Robotic Surgery and Endourology at Virginia Mason Hospital in Seattle and Wake Forest Hospital in Winston-Salem
- ♦ Associate Professor of Urology at the Faculty of Medicine of the University of Valladolid
- ♦ PhD in Surgery and Medicine from the University of Valladolid
- ♦ Graduate in Surgery and Medicine from the University of Valladolid
- ♦ Diploma of the European Board of Urology by the European Association of Urology
- ♦ Member of: EULIS and ESUT

**Dr. Pérez-Lanzac Lorca, Alberto**

- ♦ Head of the Urology Service at the Viamed Virgen de La Paloma Hospital
- ♦ Specialist of the Urology and Andrology Service at the Ruber International Hospital
- ♦ Head of the Urology Unit at Beata Ana María Hospital
- ♦ Head of the Lithiasis, Urethral and Adrenal Unit of the Puerta del Mar University Hospital
- ♦ 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. Álvarez Ossorio, José Luis**

- ♦ Director of the Urology Clinical Management Unit
- ♦ Head of Service and Director of the Urology Clinical Management Unit. Puerta del Mar University Hospital, Cadiz



- ♦ Urology Associate Professor at Puerta del Mar University Hospital
- ♦ Principal investigator in several phase II, III and IV clinical trials
- ♦ Former National Coordinator of Endourology. Laparoscopy and Urological Robotic of the Spanish Association of Urology
- ♦ Author of multiple publications in specialized journals
- ♦ Participant in congresses and meetings as speaker
- ♦ Doctor of Medicine. Cádiz University
- ♦ Degree in Medicine. Cádiz University
- ♦ Member of: Spanish Association of Urology, European Association of Urology, American Association of Urology, Spanish Society of Laparoscopic Surgery, Iberoamerican Society of Neurology and Urogynecology, Andalusian Society of Urology, Galician Society of Urology

#### **Dr. Álvarez Rodríguez, Sara**

- ♦ Attending Physician of Urology . Ramón y Cajal University Hospital Madrid
- ♦ Resident Intern. Urology. Ramón y Cajal University Hospital
- ♦ Doctor of Medicine. Valladolid
- ♦ Degree in Medicine. Valladolid
- ♦ Master's Degree in Molecular Oncology. National Cancer Research Center
- ♦ Specialization Diploma in Urological Ultrasound. University of Zaragoza
- ♦ Certification of the Uro-Oncology Observatory
- ♦ University Health Network
- ♦ Member of the European Board of Urology

#### **Cózar Olmo, José Manuel**

- ♦ Head of the Urology Department of the Virgen de las Nieves University Hospital
- ♦ Urologist at the Virgen de las Nieves University Hospital
- ♦ Urology specialist with expertise in Prostate Cancer
- ♦ Author of hundreds of articles published in scientific journals
- ♦ President of the Spanish Association of Urology
- ♦ Teacher in university studies related to Medicine

#### **Dr. Vázquez Alonso, Fernando**

- ♦ Urology Department. Virgen de Las Nieves University Hospital
- ♦ PhD from the University of Granada
- ♦ Faculty Specialist in Urology Unit Virgen de Las Nieves Hospital
- ♦ Member of the Tumor Committee and Resident Tutor. University of Granada
- ♦ Postgraduate Diploma in: Uro-oncology and Renal Transplantation

#### **Dr. Moralejo Gárate, Mercedes**

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

#### **Dr. Rostagno, Román**

- ♦ Interventional Vascular Radiologist. Vinalopó University Hospital
- ♦ Interventional Radiologist at Quirónsalud Torre Vieja Hospital
- ♦ Physician at the service of Diagnostic Imaging. Quirónsalud Palmaplanas Hospital

#### **Dr. Sáiz Marengo, Rocío**

- ♦ Assistant physician of the Urology Service at the University Hospital of Jerez de la Frontera. Cádiz, Spain
- ♦ Investigator at the University of Cadiz
- ♦ Publications: Abiraterone in castration-resistant prostate cancer. Spanish Archives of Urology and Prostatectomy, Erector Nerves (EN) and Erectile Dysfunction (ED). and Erectile Dysfunction (ED). Editorial University of Seville

#### **Dr. 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. Torrecilla Ortiz, Carlos**

- ♦ Specialist in Urology at Clínica Delfos, Bellvitge Hospital
- ♦ National Coordinator of Lithiasis of the Spanish Association of Urology
- ♦ Degree in Medicine and Surgery
- ♦ Specialist in Urology

#### **Dr. Subirá Ríos, David**

- ♦ Head of the Robotic and Laparoscopic Unit. Gregorio Marañón University Hospital
- ♦ Head of the Oncological Urology Department La Zarzuela - Sanitas University Hospital
- ♦ Physician at the service of Laparoscopy, renal transplantation. Gregorio Marañón University Hospital
- ♦ Degree in Medicine and Surgery. Navarra University
- ♦ Specialist in Urology Gregorio Marañón University Hospital
- ♦ Attending Physician Complutense University of Madrid

#### **Dr. Fernández González, Inmaculada**

- ♦ Doctor specialized in Urology
- ♦ Head of the Urology team at Complejo Hospitalario Ruber Juan Bravo
- ♦ Urologist at Quirón San Camilo Hospital
- ♦ Urology at La Princesa University Hospital
- ♦ Author of numerous scientific articles from Urology
- ♦ Teacher Associate in university studies

#### **Dr. Budía Alba, Alberto**

- ♦ Section Chief of the Lithotripsy and Endourology Unit at the Hospital Universitario y Politécnico La Fe de Valencia
- ♦ Coordinator of the Lithiasis Group of the Spanish Association of Urology
- ♦ Vice President of AUCV
- ♦ Associate Professor at the University of Valencia
- ♦ Cum Laude PhD in Medicine and Surgery, ULV
- ♦ Degree in Medicine and in ULV Surgery
- ♦ Master's Degree in Management and Organization of Hospitals and Health Services by the Polytechnic University of Valencia
- ♦ Member of: EULIS and EAU

#### **Dr. Alcaraz Asensio, Antonio**

- ♦ Head of the Urology and Renal Transplant Department at Clinical Hospital of Barcelona
- ♦ Senior Consultant in Urology and Renal Transplantation at Barnaclínica+
- ♦ Head of the Transplant and Oncology Unit of the Urology Department of the Puigvert Foundation

- ♦ Director of the Renal Transplantation Office of the American Confederation of Urology
- ♦ President of the Transplant Section of the Spanish Urology Association
- ♦ Leader of the Urological Tumors and Genetics Research Group at the August Pi i Sunyer Biomedical Research Institute (IDIBAPS)
- ♦ Author of more than 100 international and national publications
- ♦ International speaker at many prestigious scientific meetings
- ♦ Member of the Royal Academy of Medicine of Catalonia
- ♦ Professor of Urology in the Department of Surgery at the University of Barcelona
- ♦ Member of: American Confederation of Urology, Spanish Association of Urology, Board of the European School of Urology, Scientific Committee of the European Association of Urology

#### **Dr. Pereira Arias, José Gregorio**

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

#### **Dr. Peri Cusi, Lluís**

- ♦ Head of Functional and Reconstructive Urology Department, Clinical Hospital of Barcelona
- ♦ Coordinator of the Functional and Reconstructive Urology Section of the Catalan Society of Urology
- ♦ Researcher in the project "Clinical Validation of the Surgical Robot"
- ♦ Author of several national and international books and book chapters

- ♦ Co-author of the development of the micturition diary as a mobile application eDM3D
- ♦ Doctor of Medicine from the University of Barcelona
- ♦ Degree in Medicine from the University of Barcelona
- ♦ Member of: Iberoamerican Society of Neurology and Urogynecology (SINUG), EAU Section of Transplantation Urology, Working Group of Renal Transplantation and Female, Functional and Urodynamic Urology of the Spanish Society of Urology, Catalan Society of Urology and European Society of Urology

#### **Dr. Díez Nicolás, Víctor**

- ♦ Urology Specialist in the Renal Surgery and Transplant Unit of the Ramón y Cajal Hospital
- ♦ Specialist Urology Physician at Quirónsalud Madrid Hospital
- ♦ Clinical Teacher in university studies
- ♦ Author and coauthor of 9 book chapters
- ♦ Author and co-author of 18 publications
- ♦ Speaker at more than 80 Urology Congresses at national and international level
- ♦ Accreditation of Robotic Surgery with Da Vinci - Intuitive system

**Dr. Pérez Fentes, Daniel Adolfo**

- ♦ Head of the Endourology and Lithiasis Unit of the Urology Service of the University Hospital Complex of Santiago de Compostela
- ♦ Founder and director of Medical Urogalia
- ♦ Urology specialist at Rosaleda HM Hospital
- ♦ Researcher in national and international research groups, and in competitive projects of the ISCIII and the European Union
- ♦ Training instructor in Endourology and Endourological surgery
- ♦ Author of numerous book chapters and articles in national and international medical journals
- ♦ Speaker in more than 100 courses and congresses worldwide
- ♦ PhD in Medicine and Surgery from the University of Santiago de Compostela
- ♦ Degree in Medicine and Surgery from the University of Santiago de Compostela
- ♦ Member of: Royal Academy of Medicine and Surgery of Galicia

**Ms. Cecilia Bernal, Vanesa**

- ♦ Nurse specialized in Urology
- ♦ Nurse at the University Hospital of Vinalopó, Elche
- ♦ Advanced Practice Nurse in Lithotripsy
- ♦ Coordinator and author of the manual Guía Intervenciones Enfermeras en Urostomías (Nursing Interventions in Urostomies)
- ♦ Diploma in Nursing from the CEU Cardenal Herrera University





“

*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice”*

# 06

## Educational Plan

The syllabus has been configured as a process of high intensity professional growth, and incorporates the essential knowledge for the practice of this specialty and the diagnostic and interventional updates that have been incorporated into this field of work. In particular, it delves into the use of complex ultrasound scans, bone scans and magnetic resonance imaging. At the same time, they will learn techniques to apply transplants and remove malignant tumors.



“

*This program constitutes a complete tour of the specific knowledge that the medical professional needs in the field of Urologic Surgery, with the most interesting updates in this field”*

### 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 in 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. Intraperitoneal
  - 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

- 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. "Mini Percutaneous" 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 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 Correcting Vesico-Vaginal, Entero-Vesical and Recto-Vaginal 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

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*A unique, key and decisive educational experience to boost your professional development and that will put you at the forefront of the professional world”*

07

# Clinical Internship

After completing the online program, the degree includes a practical training phase in a reference clinical center. The students will have at their disposal the support of a tutor who will accompany them throughout the process, both in the preparation and in the development of the clinical practices.





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*Through this program you will be placed in a rigorous on-site internship under the guidance of an assistant tutor who will help you become familiar with the most up-to-date professional practice in this sector"*

The Practical Internship period of this program consists of a clinical internship in a highly prestigious center with an associate specialist. This internship will allow you to see real patients alongside a team of reference professionals applying the most innovative diagnostic procedures and planning the latest generation of therapy for each pathology.

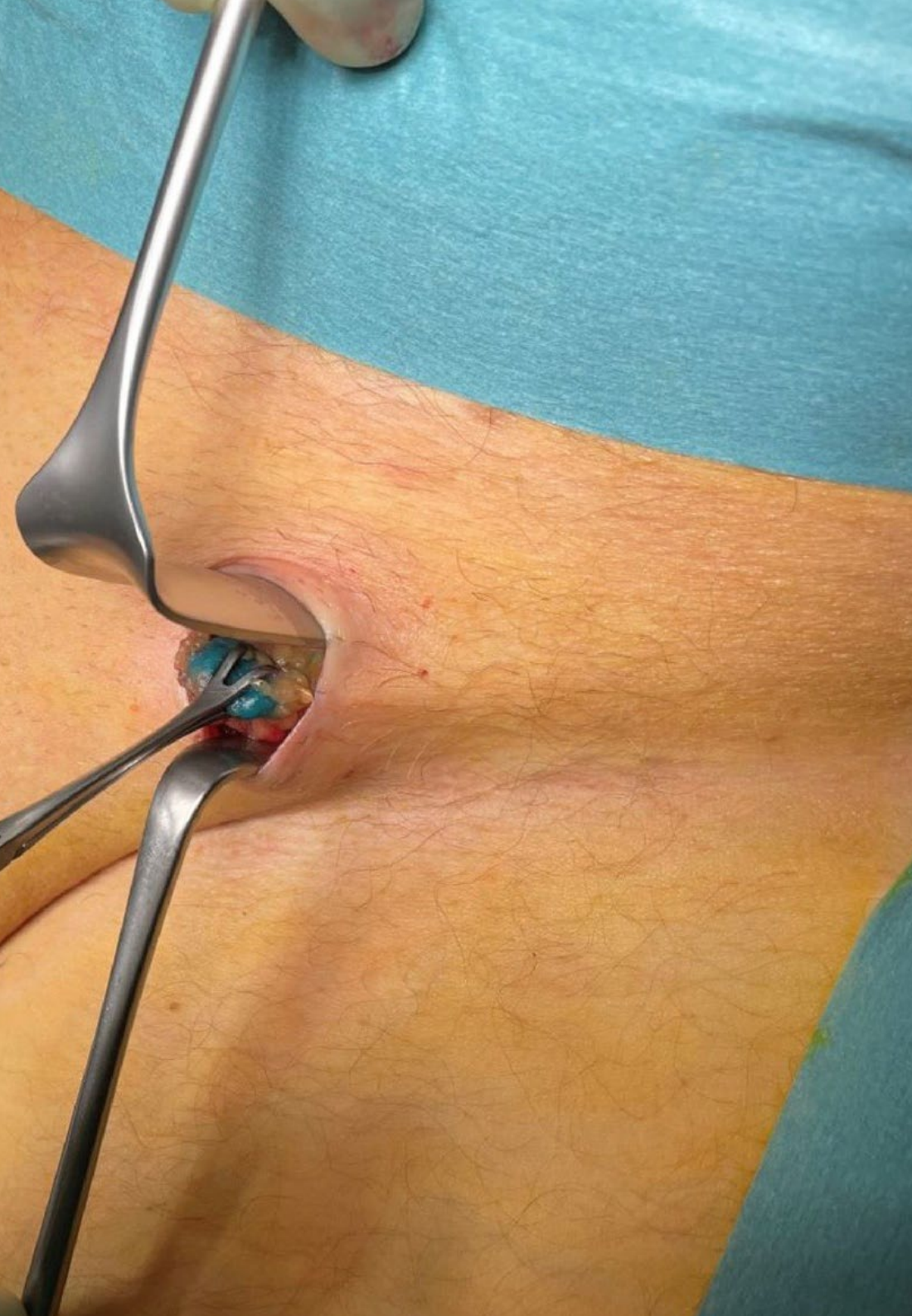
In this internship proposal, completely practical in nature, the activities are aimed at developing and perfecting the skills necessary for the provision of healthcare in areas and conditions that require a high level of qualification, and which are oriented to the specific training for the exercise of the activity, in a safe environment for the patient and a high professional performance.

It is, without a doubt, an opportunity to learn by working in the innovative hospital of the future where real-time health monitoring of patients is at the center of the digital culture of its professionals. This is a new way of understanding and integrating health processes, being the ideal teaching scenario for this innovative experience in the improvement of the physicians professional competencies of the 21st century.

The practical part will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for the the practice of Urologic Surgery (learning to be and learning to relate).

The procedures described below will form the basis of the practical part of the internship, and their implementation is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:





Module	Practical Activity
<b>Diagnostic, therapeutic and surgical techniques in Urology</b>	Perform urinary tract drainage
	Perform flexible cystoscopy
	Employ testicular and penile renal Ultrasound/Doppler in the detection and follow-up of urological conditions and pathologies
	Apply vesicoprostatic ultrasound
	Perform urodynamic studies and prostate biopsies
	Indicate and interpret multiparametric magnetic resonance and bone scintigraphy, as well as isotopic renogram
	Perform surgery for pelvic prolapse
	Surgically treat urinary incontinence in women and men
<b>Advanced procedures in renal, adrenal and retroperitoneal surgical pathology</b>	Perform right and left adrenalectomy
	Perform surgery for adrenal carcinoma
	Perform radical and partial nephrectomy with vascular clamping, as well as Off Clamp and with selective or supraseductive clamping
	Perform living donor nephrectomy
	Perform surgical intervention for renal extraction
	Perform renal transplantation and autotransplantation, as well as laparoscopic transplantation
	Surgical approach to renal artery stenosis and aneurysm, as well as aneurysm
<b>Advanced techniques in the surgical approach of the upper urinary tract, bladder and prostate</b>	Perform robotic nephrourectomy
	Perform lymphadenectomy in upper urinary tract cancer
	Treat renal and ureteral lithiasis
	Approach by surgery the non-tumorous and tumoral bladder pathology
	Apply the latest surgical techniques in tumor and non-tumorous pathology of the prostate
<b>Surgical procedures of the urethra, penis, scrotum and testicles</b>	Apply endoscopic treatment of urethral stricture
	Perform posterior and anterior urethral urethroplasty
	Approach gland decortication using the Bracca technique
	Perform partial or total penectomy
	Perform lymphadenectomy in cancer of the penis and testicle
	Perform vasectomy
	Apply the specific treatment of varicocele and hydrocele

## Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.





## General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

**1. TUTOR:** During the Hybrid Professional Master's Degree, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

**2. DURATION:** The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

**3. ABSENCE:** If the students does not show up on the start date of the Hybrid Professional Master's Degree, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

**4. CERTIFICATION:** Professionals who pass the Hybrid Professional Master's Degree will receive a certificate accrediting their stay at the center.

**5. EMPLOYMENT RELATIONSHIP:** the Hybrid Professional Master's Degree shall not constitute an employment relationship of any kind.

**6. PRIOR EDUCATION:** Some centers may require a certificate of prior education for the Hybrid Professional Master's Degree. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

**7. DOES NOT INCLUDE:** The Hybrid Professional Master's Degree will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed.

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

# 08

## Where Can I Do the Clinical Internship?

In order to ensure that the updating process is the best possible, TECH proposes the realization of this on-site internship in a prestigious center that can provide the physician with the latest advances. This is a very complex and broad field, so it requires an update by the specialist, and the role of the hospital institutions proposed here is vital in this process, as they will offer the most advanced knowledge in the specialty.





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*Put into practice everything you have learned in the field of Urological Surgery by doing a clinical internship in a prestigious center”*



The student will be able to complete the practical part of this Hybrid Professional Master's Degree at the following centers:



Medicine

### Hospital HM Modelo

Country	City
Spain	La Coruña

Address: Rúa Virrey Osorio, 30, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Spine Surgery



Medicine

### Hospital Maternidad HM Belén

Country	City
Spain	La Coruña

Address: R. Filantropía, 3, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Update in Assisted Reproduction
- Hospitals and Health Services Management



Medicine

### Hospital HM Rosaleda

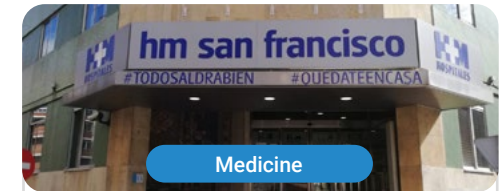
Country	City
Spain	La Coruña

Address: Rúa de Santiago León de Caracas, 1, 15701, Santiago de Compostela, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Hair Transplantation
- Orthodontics and Dentofacial Orthopedics



Medicine

### Hospital HM San Francisco

Country	City
Spain	León

Address: C. Marqueses de San Isidro, 11, 24004, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Nursing in the Traumatology Department



Medicine

### Hospital HM Regla

Country	City
Spain	León

Address: Calle Cardenal Landázuri, 2, 24003, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Psychiatric Treatments Update in Minor Patients



Medicine

### Hospital HM Nou Delfos

Country	City
Spain	Barcelona

Address: Avinguda de Vallcarca, 151, 08023, Barcelona

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Aesthetic Medicine
- Clinical Nutrition in Medicine



Medicine

### Hospital HM Madrid

Country	City
Spain	Madrid

Address: Pl. del Conde del Valle de Súchil, 16, 28015, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Clinical Analysis
- Anaesthesiology and Resuscitation



Medicine

### Hospital HM Montepíncipe

Country	City
Spain	Madrid

Address: Av. de Montepíncipe, 25, 28660, Boadilla del Monte, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Child Orthopedics
- Aesthetic Medicine



Medicine

### Hospital HM Torrelodones

Country	City
Spain	Madrid

Address: Av. Castillo Olivares, s/n, 28250, Torrelodones, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Hospital Pediatrics



Medicine

### Hospital HM Sanchinarro

Country	City
Spain	Madrid

Address: Calle de Oña, 10, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Sleep Medicine



Medicine

### Hospital HM Nuevo Belén

Country	City
Spain	Madrid

Address: Calle José Silva, 7, 28043, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- General and Digestive System Surgery
- Clinical Nutrition in Medicine



Medicine

### Hospital HM Puerta del Sur


Country	City
Spain	Madrid

Address: Av. Carlos V, 70, 28938, Móstoles, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Pediatric Emergencies
- Clinical Ophthalmology

**Medicine**

### Hospital HM Vallés

Country	City
Spain	Madrid


Address: Calle Santiago, 14, 28801, Alcalá de Henares, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

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**Related internship programs:**

- Gynecologic Oncology
- Clinical Ophthalmology



**Medicine**

### Policlínico HM Arapiles

Country	City
Spain	Madrid

Address: C. de Arapiles, 8, 28015, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

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**Related internship programs:**

- Anaesthesiology and Resuscitation
- Pediatric Dentistry



**Medicine**

### Policlínico HM Distrito Telefónica

Country	City
Spain	Madrid

Address: Ronda de la Comunicación, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

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**Related internship programs:**

- Optical Technologies and Clinical Optometry
- General and Digestive System Surgery



**Medicine**

### Policlínico HM Gabinete Velázquez

Country	City
Spain	Madrid


Address: C. de Jorge Juan, 19, 1° 28001, 28001, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

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**Related internship programs:**

- Clinical Nutrition in Medicine
- Aesthetic Plastic Surgery



**Medicine**

### Policlínico HM Imi Toledo

Country	City
Spain	Toledo

Address: Av. de Irlanda, 21, 45005, Toledo

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

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**Related internship programs:**

- Electrotherapy in Rehabilitation Medicine
- Hair Transplantation



### Grupo Gamma

Country	City
Argentina	Santa Fe

Address: Entre Ríos 330, Rosario, Santa Fe

Polyclinic specialized in various medical specialties

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#### Related internship programs:

- Update in Anesthesiology and Resuscitation
- Gynecologic Oncology



*Delve into the most relevant theory in this field, subsequently applying it in a real work environment"*

09

# 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.







“

*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.

“

*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.

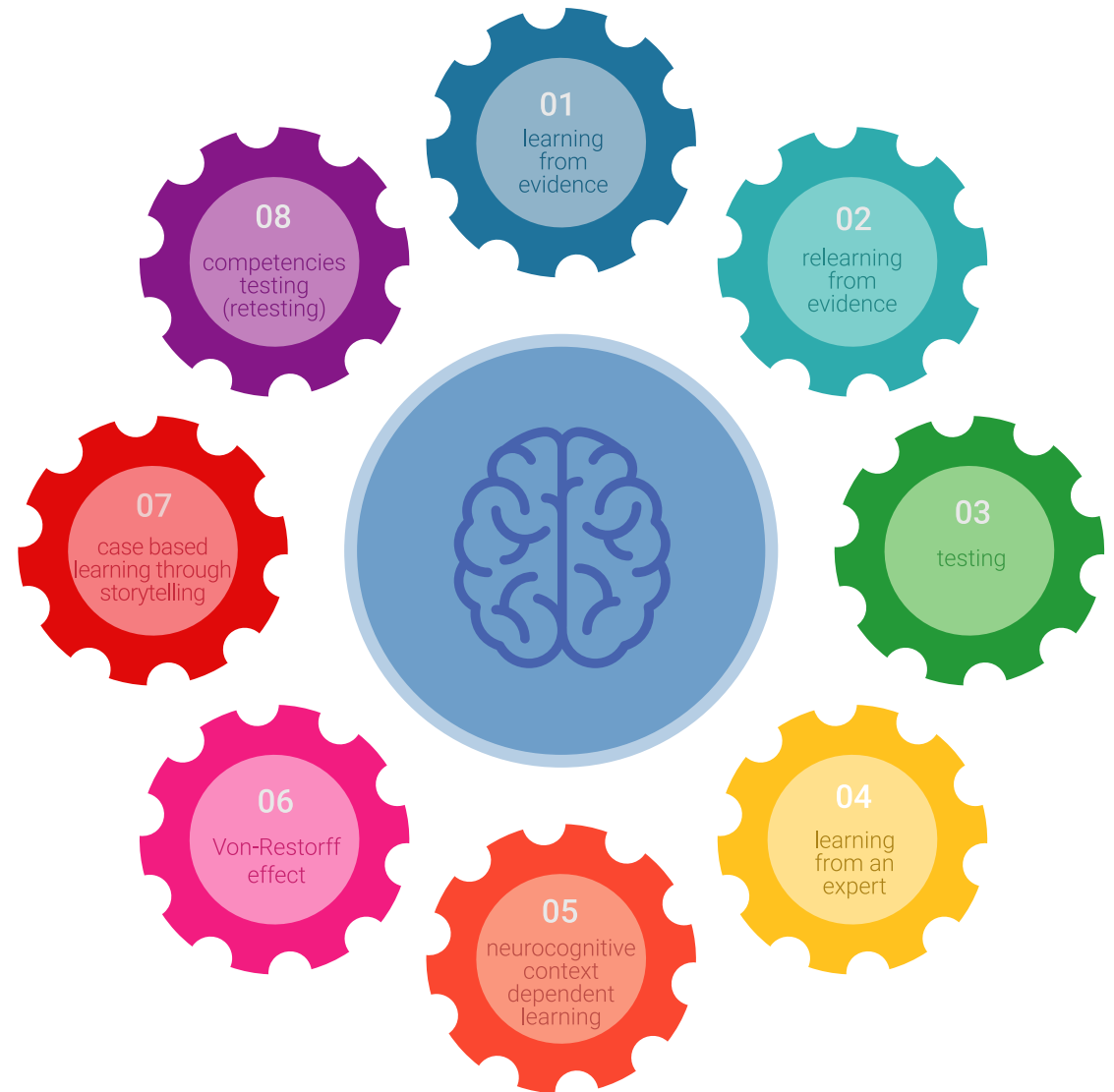


## Relearning Methodology

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

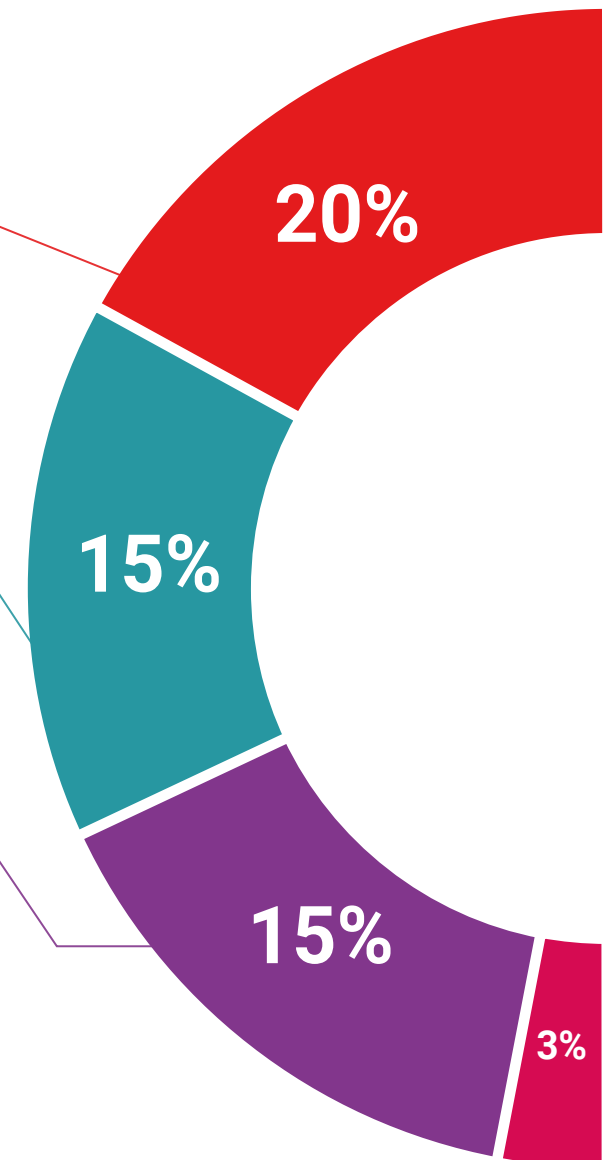
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

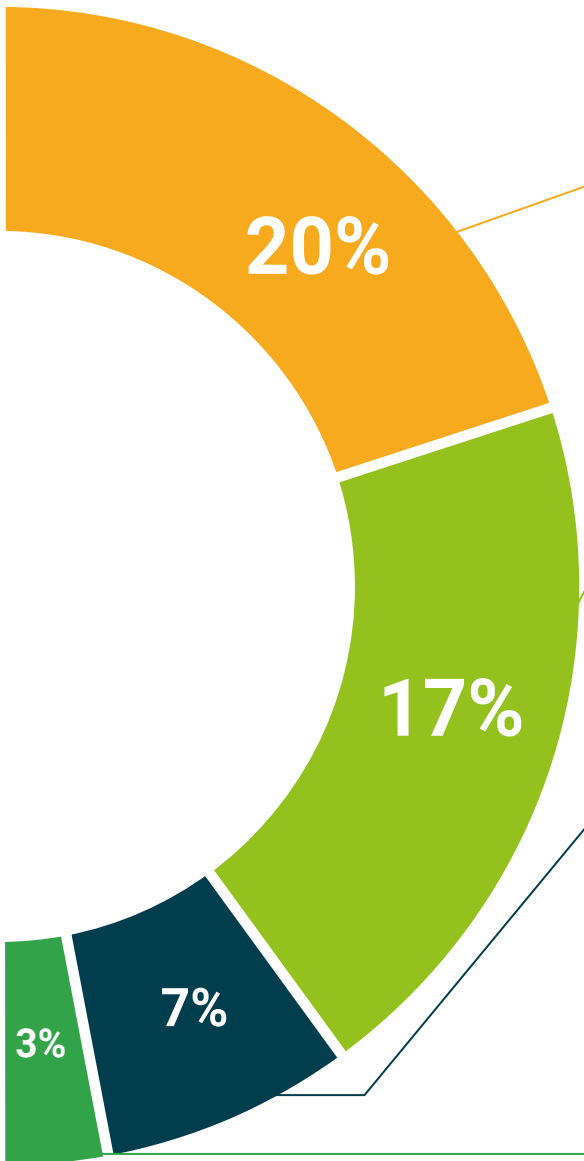
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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.



# 10 Certificate

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





“

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

This **Hybrid Professional Master's Degree in Update on Urologic Surgery** contains the most complete and up-to-date program on the professional and educational field.

After the student has passed the assessments, they will receive their corresponding Hybrid Professional Master's Degree diploma issued by TECH Technological University via tracked delivery\*.

In addition to the diploma, students will be able to obtain an academic transcript, as well as a certificate outlining the contents of the program. In order to do so, students should contact their academic advisor, who will provide them with all the necessary information.

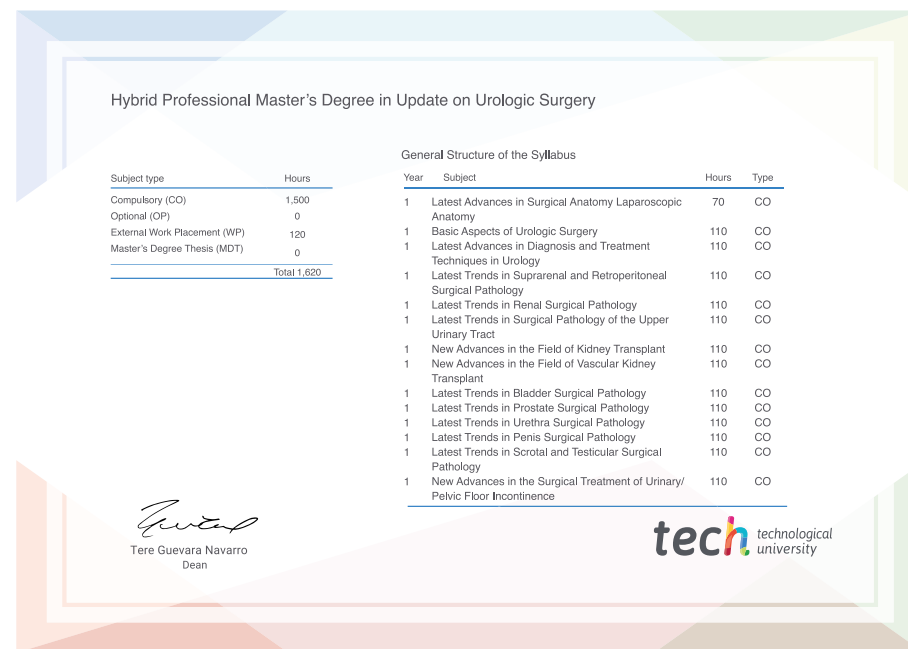
Title: **Hybrid Professional Master's Degree in Update on Urologic Surgery**

Modality: **Hybrid (Online + Clinical Internship)**

Duration: **12 months**

Certificate: **TECH Technological University**

Teaching Hours: **1,620 h.**



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

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service information  
knowledge present quality  
development languages  
virtual classroom



## Hybrid Professional Master's Degree

Update on Urologic Surgery

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Technological University

Teaching Hours: 1,620 h.

# Hybrid Professional Master's Degree

## Update on Urologic Surgery

