Postgraduate Certificate

Study and Medical Treatment of Patients with Renal Lithiasis

tech global university

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Study and Medical Treatment of Patients with Renal Lithiasis

- Modality: **Online**
- Duration: **12 weeks**
- Certificate: **TECH Global University**
- Accreditation: **12 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: **www.techtitute.com/us/medicine/postgraduate-certificate/study-medical-treatment-patients-renal-lithiasis**

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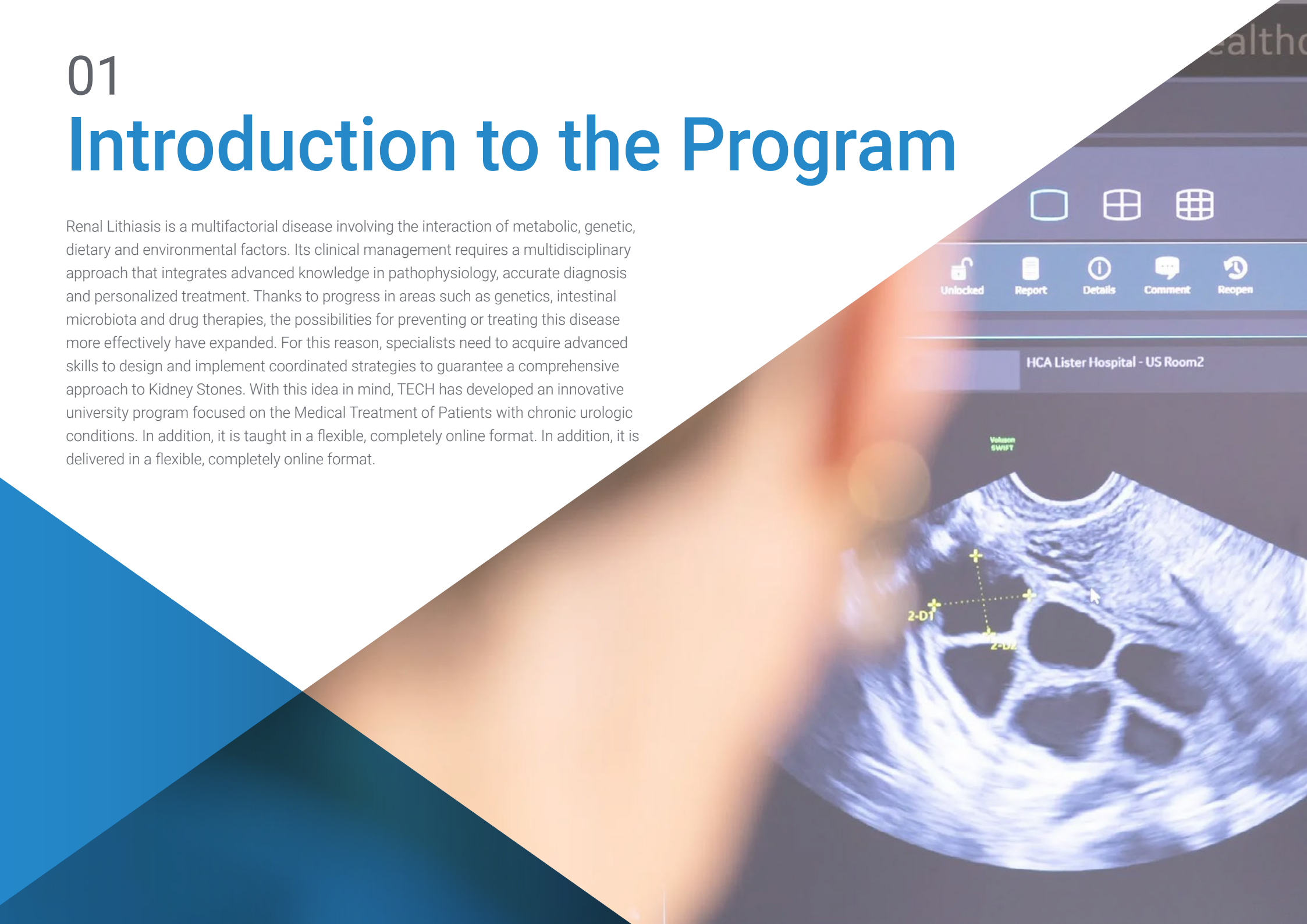
01

Introduction to the Program

Renal Lithiasis is a multifactorial disease involving the interaction of metabolic, genetic, dietary and environmental factors. Its clinical management requires a multidisciplinary approach that integrates advanced knowledge in pathophysiology, accurate diagnosis and personalized treatment. Thanks to progress in areas such as genetics, intestinal microbiota and drug therapies, the possibilities for preventing or treating this disease more effectively have expanded. For this reason, specialists need to acquire advanced skills to design and implement coordinated strategies to guarantee a comprehensive approach to Kidney Stones. With this idea in mind, TECH has developed an innovative university program focused on the Medical Treatment of Patients with chronic urologic conditions. In addition, it is taught in a flexible, completely online format. In addition, it is delivered in a flexible, completely online format.



Thanks to this 100% online program, you will integrate dietary and pharmacological treatments to address Kidney Stones in a comprehensive manne".

The World Health Organization estimates, in a new report, that up to 50% of Kidney Stone cases are preventable through interventions targeting modifiable factors such as diet and hydration. However, the incidence of this disease continues to increase and the organization predicts that approximately 1 in 10 adults will experience an episode of Kidney Stones in their lifetime, with frequent recurrences in more than 30% of cases. Faced with this reality, physicians need to incorporate the most cutting-edge techniques for managing this condition into their daily clinical practice, with a focus on personalized therapies and technological innovations.

In this context, TECH presents an exclusive program on the Study and Medical Treatment of Patients with Renal Lithiasis. Devised by renowned urologists, the academic itinerary will delve into issues ranging from the classification of patients at risk of Urolithiasis or treatments to address them efficiently to dietary strategies to promote a healthy lifestyle. In this sense, the teaching materials will offer various techniques that will allow graduates to calculate urinary pH in order to precisely adjust therapies to the needs of the users. This approach will enable professionals not only to effectively treat patients with Renal Lithiasis, but also to implement preventive measures that reduce recurrence rates.

On the other hand, the university program is 100% online, allowing physicians to enter the program with ease. This way, all students will need is a device with Internet access to enter the Virtual Campus. In this sense, TECH offers graduates the most cutting-edge methodology on the market today: Relearning. This teaching system is based on the reiteration of the most important content to guarantee efficient knowledge updating.

This **Postgraduate Certificate in Study and Medical Treatment of Patients with Renal Lithiasis** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- The development of case studies presented by experts in Urology
- The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- 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

Design specific care plans for children and older adults predisposed to the formation of Kidney Stones"

With the Relearning system used by TECH, you won't have to invest long hours in studying and you will focus on the essential aspects"

You will learn more about different methods for controlling urinary pH, which will allow you to reduce the risk of recurrence.

You will design therapeutic strategies specified for each type of Renal Lithiasis, including Hyperoxaluria.

The program's teaching staff includes professionals from the industry who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

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

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

02

Why Study at TECH?

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

Study at the world's largest online university and guarantee your professional success. The future starts at TECH"

The world's best online university, according to FORBES

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

The best top international faculty

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

The world's largest online university

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

The most complete syllabuses on the university scene

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

A unique learning method

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

The official online university of the NBA

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

Leaders in employability

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

Google Premier Partner

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

The top-rated university by its students

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

03

Syllabus

This program in the Study and Medical Treatment of Patients with Renal Lithiasis covers everything from the historical background of this disease to the most modern diagnostic and therapeutic techniques. Throughout the modules, physicians will explore in depth topics such as the historical evolution of the treatment of kidney stones or the physicochemical principles related to the production of crystals. The syllabus will also delve into the different types of Kidney Stones and provide the most sophisticated techniques for both their diagnosis and treatment. In this sense, the university program will provide graduates with various strategies to prevent urologic diseases.

You will establish dietary, pharmacological and behavioral measures to prevent the recurrence of Kidney Stones"

Module 1. Medical Screening of Patients with Renal Lithiasis

1.1. Metabolic Screening
- 1.1.1. The Metabolic Screening
- 1.1.2. How and When to Perform the Metabolic Screening
- 1.1.3. Indications for the Metabolic Screening: Who Should Undergo the Screening

1.2. Classification of Patients at Risk of Urolithiasis: High-Risk Patients
- 1.2.1. Intrinsic, Extrinsic and Favorable Factors
- 1.2.2. Population at Risk
- 1.2.3. Categories of Stone-Forming Patients
  - 1.2.3.1. Specific Risk Factors for Stone Formation

1.3. Medical Treatment of Idiopathic Hypercalciuria
- 1.3.1. Assessment of the Patient with Idiopathic Hypercalcuria
- 1.3.2. Dietary Treatment
- 1.3.3. Drug Treatment: Thiazides

1.4. Primary and Secondary Hyperparathyroidism
- 1.4.1. Pathophysiology of Primary and Secondary Hyperparathyroidism
- 1.4.2. Differential Diagnosis of Hyperparathyroidism
- 1.4.3. Clinical Management of Hyperparathyroidism in the Context of Urolithiasis

1.5. Primary Hyperoxaluria and Nephrocalcinosis
- 1.5.1. Etiology
- 1.5.2. Diagnostic Approach
- 1.5.3. Treatment

1.6. Primary and Secondary Hyperoxaluria. Dietary and Enteral
- 1.6.1. Etiology of Hyperoxalurias
- 1.6.2. Diagnostic Approach to Hyperoxalurias
- 1.6.3. Treatment of Hyperoxalurias
- 1.6.4. Specific Treatments for Primary Hyperoxaluria

1.7. Hypocitraturia
- 1.7.1. Pathophysiology and Causes of Hypocitraturia
- 1.7.2. Relevance of Hypocitraturia in the Formation of Kidney Stones
- 1.7.3. Assessment and Treatment of Hypocitraturia in Patients with Urolithiasis

1.8. Hyperuricosuria
- 1.8.1. Pathophysiology and Causes of Uricosuria
- 1.8.2. Impact of Uricosuria on the Formation of Kidney Stones
- 1.8.3. Assessment and Management Strategies for Uricosuria

1.9. Renal Tubular Acidosis
- 1.9.1. Types of Tubular Acidosis
- 1.9.2. Etiology and Pathophysiology of Distal Renal Tubular Acidosis
- 1.9.3. Diagnosis of Distal Renal Tubular Acidosis
- 1.9.4. Treatment of Distal Renal Tubular Acidosis

1.10. Patient Dietary Management
- 1.10.1. Patient Dietary Management
- 1.10.2. Water Intake
- 1.10.3. Dietary Treatment of the Main Alterations in Urinary Excretion
  - 1.10.3.1. Dietary Treatment of Hypercalciuria
  - 1.10.3.2. Dietary Treatment of Hyperoxaluria
  - 1.10.3.3. Dietary Treatment of Hyperuricosuria
  - 1.10.3.4. Dietary Treatment of Hypocitraturia
- 1.10.4. Dietary Recommendations at the Extreme Ages of Life
  - 1.10.4.1. Dietary Recommendations for Children with Lithogenic Kidney Stones
  - 1.10.4.2. Dietary Recommendations for Elderly People with Lithogenic Kidney Stones

Module 2. Management and Outpatient Monitoring of Patients with Non-Calcium Kidney Stones

2.1. Uric Acid Stones
- 2.1.1. Etiology and Pathophysiology
- 2.1.2. Diagnosis
- 2.1.3. Medical Treatment

2.2. Infectious Ammonium Phosphate and Magnesium Lithiasis
- 2.2.1. Etiology and Pathophysiology
- 2.2.2. Diagnosis
- 2.2.3. Medical Treatment

2.3. Cystine Stones
- 2.3.1. Etiology and Pathophysiology
- 2.3.2. Diagnosis
- 2.3.3. Medical Treatment

2.4. Other Lithiasis
- 2.4.1. Types of Rare Lithiasis
- 2.4.2. Etiopathogenesis of Rare Lithiasis
- 2.4.3. Diagnosis and Treatment

2.5. Genetics in Urolithiasis
- 2.5.1. Genetic Diseases Associated with Urinary Lithiasis
- 2.5.2. Factors that Point to Monogenic Disease in a Patient with Urinary Lithiasis
- 2.5.3. Treatment of Renal Lithiasis in Genetic Diseases

2.6. New Medical Treatments in Urolithiasis
- 2.6.1. Innovative Therapies for the Prevention of Stone Formation
- 2.6.2. Pharmacological Advances in the Treatment of Renal Lithiasis
- 2.6.3. Integration of Emerging Treatments in Clinical Practice

2.7. Microbiota in Urolithiasis
- 2.7.1. Pathophysiological Principles of Intestinal Microbiota
- 2.7.2. Relation between Intestinal Microbiota and the Formation of Urolithiasis
- 2.7.3. Possibility of Alteration of Intestinal Microbiota and its Impact on Urolithiasis

2.8. Artificial Intelligence and Urolithiasis
- 2.8.1. Concepts and History of Artificial Intelligence Applied to Urolithiasis
- 2.8.2. Types of Artificial Intelligence Applied to Urolithiasis
- 2.8.3. Application of Artificial Intelligence in Urolithiasis

2.9. Ph Control in Urolithiasis: How To Do It, Recommendations
- 2.9.1. Importance of pH in Urolithiasis
- 2.9.2. Measuring Urine pH
- 2.9.3. Recommendations for pH Control in Non-Calcium Urolithiasis

2.10. Structure and Coordination of a Urolithiasis Unit
- 2.10.1. The Urolithiasis Unit
- 2.10.2. Structure of a Lithotripsy Unit
- 2.10.3. Staff Organization

04

Teaching Objectives

This program in the Study and Medical Treatment of Patients with Renal Lithiasis will provide physicians with the skills required to effectively diagnose and treat Kidney Stones. The qualification covers everything from advanced diagnostic techniques to innovative therapeutic methods, enabling professionals to optimize clinical processes, personalize care and improve operational efficiency. This will ensure that graduates develop skills in the advanced management of Renal Lithiasis, implementing modern technologies to improve the efficiency of surgical interventions.

You will design individualized treatment protocols that improve the operational efficiency of healthcare institutions and the condition of patients"

General Objectives

- Identify the fundamental physical and chemical aspects involved in the formation of kidney stones
- Delve into the classification of kidney stones according to the etiological factors that generate them
- Establish the diagnostic foundations based on the study of kidney stones
- Determine the key diagnostic aspects based on the study of urine
- Delve into the metabolic study of patients with renal lithiasis
- Define the classifications of patients at risk of Urolithiasis, considering factors that may contribute to the formation of stones
- Assess the various associated metabolic conditions and their specific treatments
- Acquire a comprehensive approach to the dietary and clinical management of the lithiasic patient
- Address the etiology and pathophysiology of non-calcium lithiasis, identifying its distinctive characteristics
- Define the medical treatment options available for each type of condition
- Assess the role of genetics and microbiota in the management of Urolithiasis
- Establish guidelines for pH control and coordination of Urolithiasis units
- Evaluate renal physiology and pathophysiology, as well as the mechanisms of obstruction
- Delve into the most widely used diagnostic imaging methods in Renal Lithiasis
- Define therapeutic approaches to renal colic
- Identify the complications associated with lithiasis and propose management strategies based on international clinical guidelines
- Analyze the historical evolution of Extracorporeal Shock Wave Lithotripsy
- Assess the physical principles, types of energy and those of Extracorporeal Shock Wave Lithotripsy
- Examine the results, complications and post-procedure follow-up, as well as the latest advances in this technology
- Establish recommendations based on clinical guidelines and develop radiation protection strategies in the context of Endourology
- Analyze the historical evolution of endourology and its current applications, focusing on technological and surgical advances
- Examine renal and ureteral anatomy relevant to endourology, establishing its importance in the execution of procedures
- Assess the criteria for the selection of surgical techniques and energy sources in Endourology
- Identify the endourological approaches and specific equipment used in semirigid ureteroscopy
- Delve into the historical evolution of flexible ureteroscopy and its development
- Evaluate the standard and extended indications for Retrograde Intrarenal Surgery
- Examine the materials, surgical techniques and advanced technologies used in Retrograde Intrarenal Surgery
- Identify intraoperative and postoperative complications, establishing strategies for their prevention and management, with a focus on the application of ALARA principles
- Analyze the different patient positions in percutaneous nephrolithotomy

Specific Objectives

- Define the criteria for carrying out metabolic studies in patients with Renal Lithiasis
- Identify the risk factors linked to the formation of stones in order to classify patients efficiently
- Manage the main medical treatment strategies for different metabolic conditions
- Achieve a dietary and drug-based approach in the comprehensive management of patients with lithiasis, based on scientific evidence
- Establish the clinical and diagnostic characteristics of Uric Acid, Magnesium Ammonium Phosphate and Cystine Lithiasis
- Analyze the impact of genetic factors and microbiota on the predisposition and management of Urolithiasis
- Evaluate new therapeutic and technological options, such as artificial intelligence
- Create protocols for the effective control of urinary pH and its application in outpatient follow-up

Enjoy a pleasant learning experience through the teaching formats offered by this university program, such as the explanatory video or the interactive summary"

05

Study Methodology

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

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

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

The student: the priority of all TECH programs

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

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

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

The most comprehensive study plans at the international level

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

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

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

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

Case Studies and Case Method

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

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

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

Relearning Methodology

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

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

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

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

A 100% online Virtual Campus with the best teaching resources

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

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

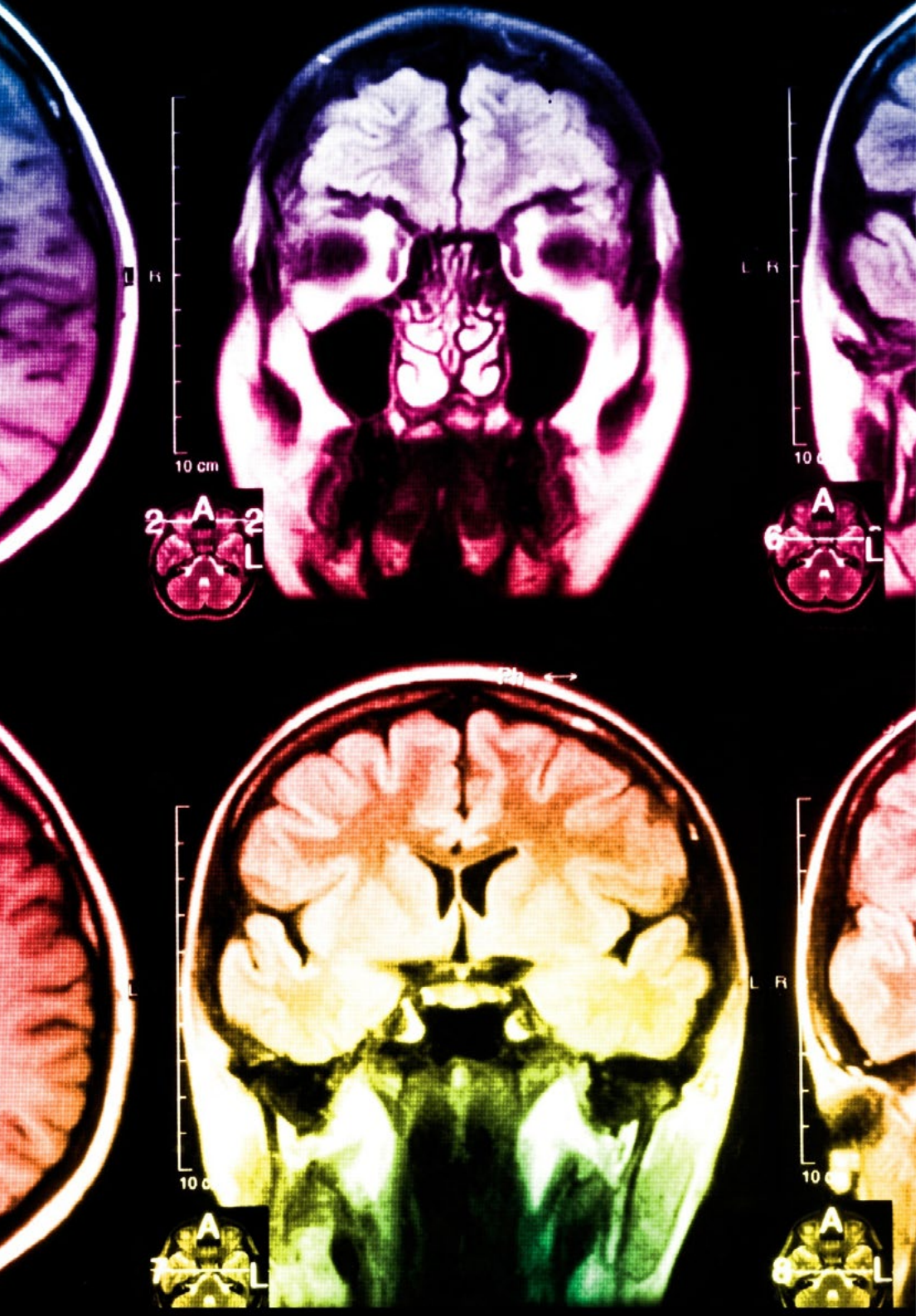
In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

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

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

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

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



The university methodology top-rated by its students

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

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

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

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

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

Study Material

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

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

Practicing Skills and Abilities

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

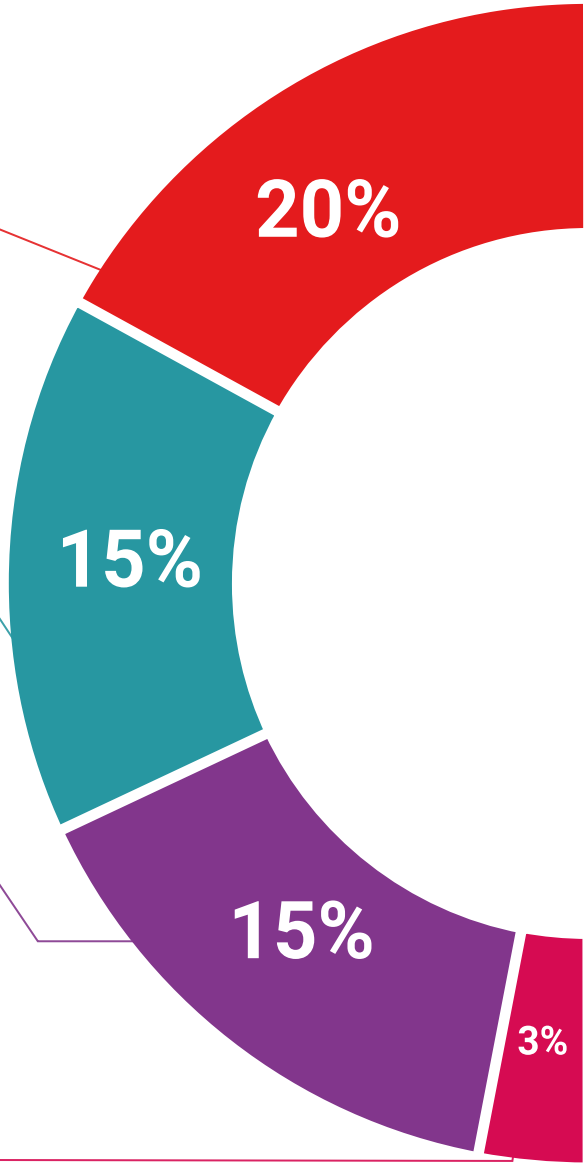
Interactive Summaries

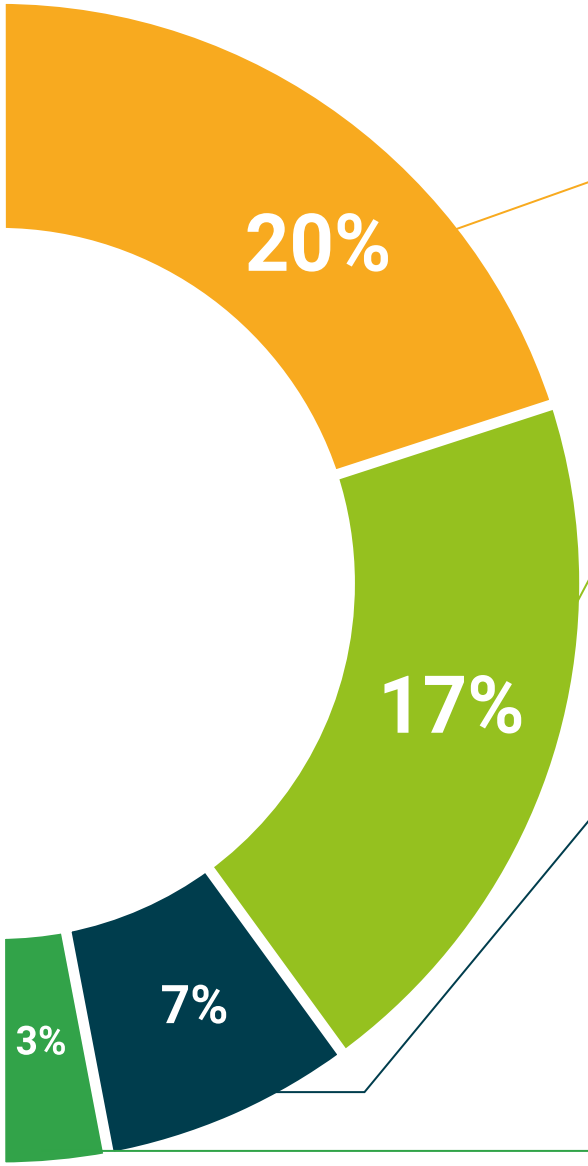
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

Additional Reading

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





Case Studies

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

Testing & Retesting

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

Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence for future difficult decisions.

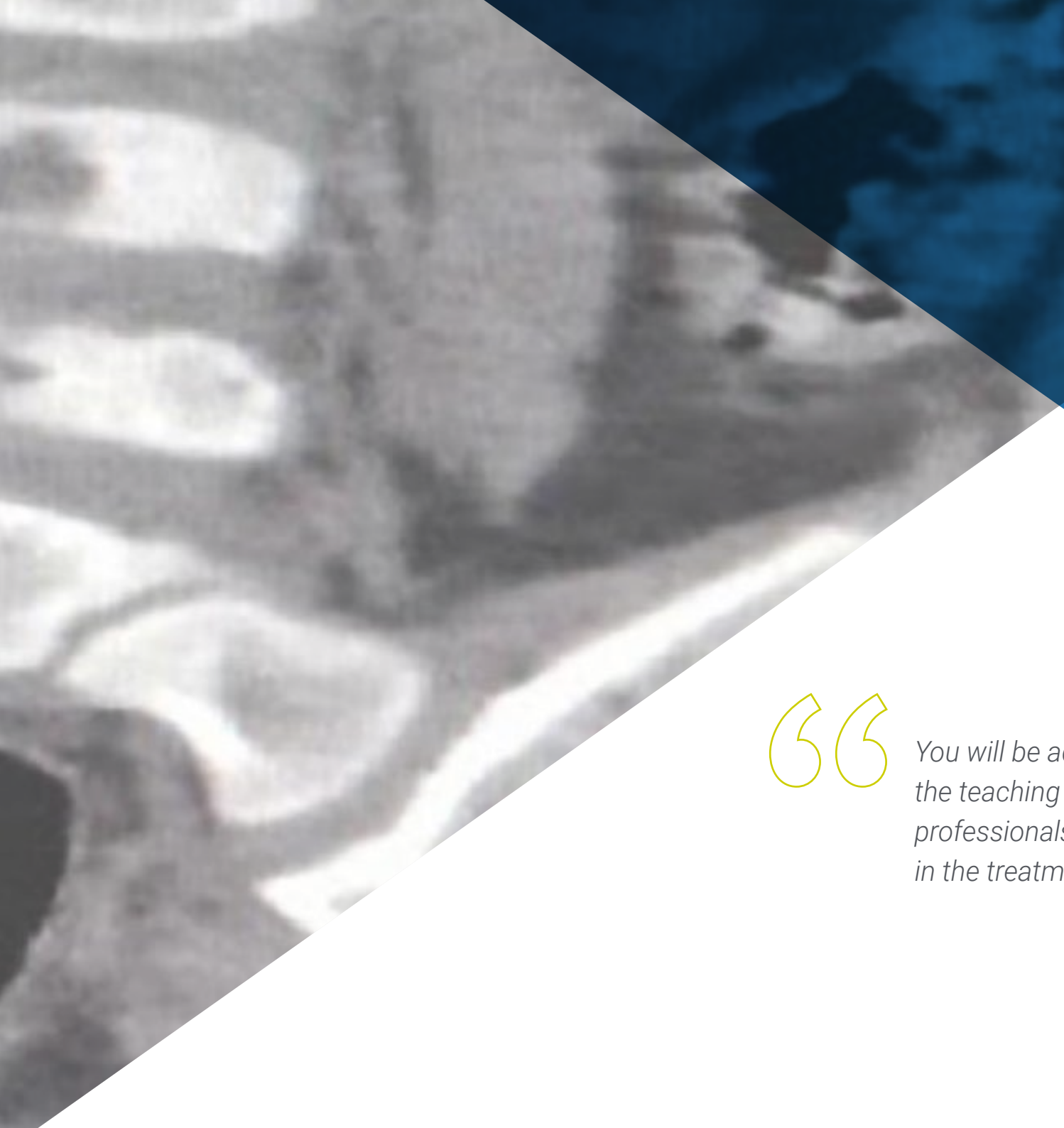
Quick Action Guides

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

06

Teaching Staff

TECH's main objective is to make available to anyone the most pragmatic, comprehensive and up-to-date university programs on the educational market. To achieve this, it carries out a meticulous process to form its respective teaching staff. As a result of this, the current program has the collaboration of prestigious experts in the field of Urology. In fact, they have extensive professional experience improving the quality of life of numerous patients suffering from Renal Lithiasis. In this way, graduates have the guarantees they demand to access an experience that will allow them to optimize their clinical practice.



You will be advised at all times by the teaching group, made up of professionals with extensive experience in the treatment of Renal Lithiasis"

Management

Dr. Servera Ruiz de Velasco, Antonio

- Director of Endourology and Lithiasis at the Hospital of Manacor
- Urology Specialist at Juaneda Miramar Hospital
- Internship in Laparoscopic Pelvic and Retroperitoneal Surgery at Heidelberg University Hospital
- Scientific Researcher
- Director of 6 international Clinical Trials
- Internship in Robotic Surgery at the Institut Mutualiste Montsouris
- Internship in Laparoscopic and Percutaneous Surgery at the Italian Hospital of Buenos Aires
- PhD in Health Sciences from the University of the Balearic Islands
- Degree in Medicine and Surgery from the University of Zaragoza
- Member of the European College of Urology

Professors

Dr. Cancini Azuaje, Miguel Alejandro

- Urologist at Nuestra Señora del Prado General University Hospital
- Physician in the Urology Department at Parque Marazuela Hospital
- Urology Specialist at Campo Arañuelo Regional Hospital
- Internship in Endoscopic Surgery and Laparoscopy at the University of Carabobo
- Residency at Dr. Egor Nucete General Hospital
- Postgraduate in Urology at Hospital Universitario de los Andes
- Master's Degree in Minimally Invasive Urological Surgery at Centro Jesús Usón
- Bachelor's Degree in Medicine from the Rómulo Gallegos University
- Member of the World Venezuelan Urologists Association

Dr. Ortiz Arduán, Alberto

- Head of Nephrology and Hypertension at the Jiménez Díaz Foundation University Hospital
- Specialist in Nephrology
- Coordinator of the Spanish Renal Research Network
- Postdoctoral Researcher in Molecular Nephrology at the University of Pennsylvania
- Editor of the journal "Clinical Kidney Journal"
- Corresponding Academician of the Royal National Academy of Medicine of Spain
- PhD in Medicine from the Autonomous University of Madrid
- Master's Degree in Medical Management and Clinical Administration from UNED
- Bachelor's Degree in Medicine and Surgery from the Autonomous University of Madrid
- Member of: European Renal Association, Dutch Kidney Foundation, Madrid Nephrology Society and Editorial Board of the American Society of Nephrology

Dr. Martín Higueras, Cristina

- Researcher at the Institute of Experimental Immunology at the University Hospital of Bonn
- Founder of PHHP Team
- Scientific Consultant for Novo Nordisk
- Promoter of the European Association of Patients with Hyperozaluria
- Biomedical Researcher at Orphan Biotech
- Advisor to Meta Pharmaceuticals
- PhD in Biomedical Sciences from the University of La Laguna
- Master's Degree in Molecular Biomedicine from the Autonomous University of Madrid
- Degree in Medicine from the University of La Laguna
- Bachelor's Degree in Biology from the University of La Laguna
- Member of the OxalEurope Foundation
- Certification in Animal Experimentation

Dr. Cansino Alcaide, Ramón

- Head of Section of Endourology and Lithiasis at La Paz University Hospital
- Urology Specialist at La Paz University Hospital
- Urologist at the University Hospital Vithas Madrid La Milagrosa
- Lecturer in Urology training courses and postgraduate studies.
- Regular speaker at European and Spanish Urologic Association Congresses
- Member of the International Urolithiasis Alliance
- Doctor of Medicine and Surgery from the Autonomous University of Madrid

Dr. Abad López, Pablo

- Physician in the Department of Urology at La Paz University Hospital
- Urologist at San Carlos Clinical Hospital
- Specialist in the treatment of renal, adrenal and retroperitoneal carcinoma
- Coordinator of the 4Doctors platform
- Editor of the scientific journal "Frontiers in Urology"
- Editor of the scientific journal "*Archivos Españoles de Urología*"
- Editor of the scientific journal "Urology Research and Practice"
- Creator of digital content for the Urology Cheat Sheets platform
- Residency in Urology at the 12 de Octubre University Hospital
- Master's Degree in Clinical Practice and Medical Professionalism from the University of Alcalá de Henares
- Master's Degree in Urooncology from the CEU - Cardenal Herrera University
- Master's Degree in Advanced Urinary Incontinence Surgery from the Complutense University of Madrid
- Master's Degree in Multidisciplinary Approach to Prostate Cancer from the Complutense University of Madrid
- Degree in Medicine from the Complutense University of Madrid

Dr. Guimerá García, Jordi

- Medical Director of the Urology Clinic of Dr. Guimerá
- Specialist in Urology at Son Espases University Hospital
- Occupational Physician at Asepeyo
- Internship at the Miami Transplant Institute
- Urology residency at the Son Espases University Hospital
- PhD in Public Health and Prevalent Diseases from the University of the Balearic Islands
- Degree in Medicine from the Autonomous University of Madrid
- Certification as a Fellow of the European Board of Urology

All the lecturers on this program have extensive experience, offering you an innovative perspective on the main advances in this field of study"

07

Certificate

The Postgraduate Certificate in Study and Medical Treatment of Patients with Renal Lithiasis guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Certificate 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 diploma for the **Postgraduate Certificate in Study and Medical Treatment of Patients with Renal Lithiasis** 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.

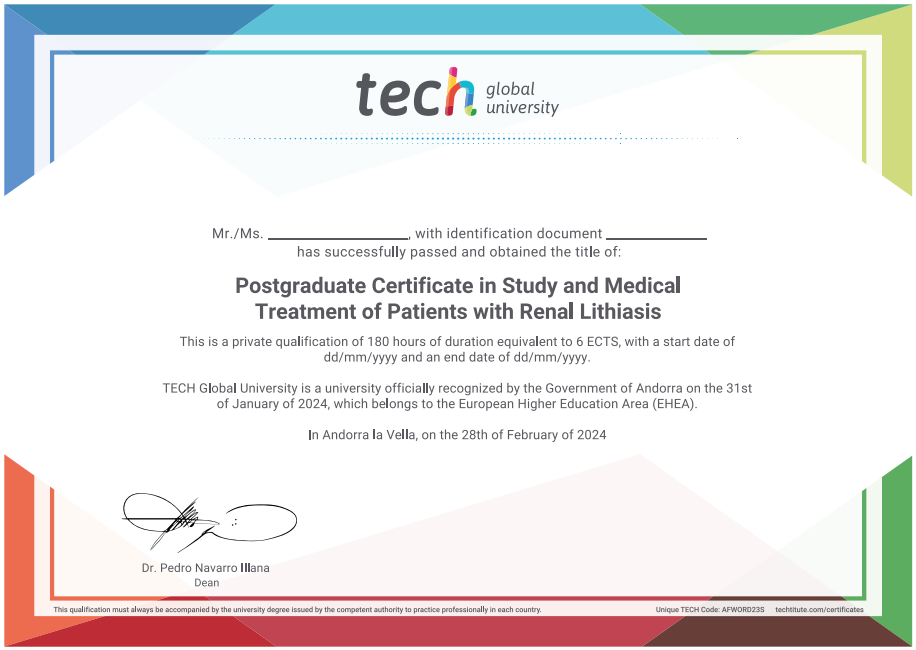
This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Study and Medical Treatment of Patients with Renal Lithiasis**

Modality: **online**

Duration: **12 weeks**

Accreditation: **12 ECTS**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Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Certificate in Study and Medical Treatment of Patients with Renal Lithiasis

This is a private qualification of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

*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.

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Postgraduate Certificate

Study and Medical Treatment of Patients with Renal Lithiasis

- Modality: **online**
- Duration: **12 weeks**
- Certificate: **TECH Global University**
- Accreditation: **12 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Postgraduate Certificate

Study and Medical Treatment of Patients with Renal Lithiasis

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