

Postgraduate Diploma

Endocrinology in Women





Postgraduate Diploma Endocrinology in Women

Course Modality: Online

Duration: 6 months

Certificate: TECH Technological University

Official N° of Hours: 450 h.

Website: www.techtitute.com/medicine/postgraduate-diploma/postgraduate-diploma-endocrinology-women

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01

Introduction

Endocrine pathologies in women require even greater depth and precision on the part of the specialist. Areas such as adolescence, reproduction or contraception suffer continuous evolutions that a specialist in this field must be aware of. In addition, developments in menstrual cycle physiology, polycystic ovarian syndrome or gestational diabetes call for a thorough update of this health branch. In order to provide the best possible update, the university has compiled in this university program the most urgent issues for specialists in this area, supported by professionals of a high academic and clinical level.





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Update your knowledge on the most pressing issues in Endocrinology in Women, including polycystic ovarian syndrome, amenorrhea and climacteric"

Diseases such as thyroid disease have a higher incidence rate in women than in men. Several studies support hormonal differences as a key factor in the development of various pathologies. In a healthcare context where more and more importance is given to patient-centered medicine, it is essential for specialists to update their knowledge in an area as extensive as Endocrinology in Women.

It is for this reason that TECH has brought together a large team of professionals from different areas of Endocrinology to share their clinical expertise on this urgent issue. Thanks to their broad experience, multidisciplinary and high-level scientific input, this program is the best academic offer to get up to date in all aspects of Endocrinology in Women, including broad topics on metabolism, hormones, adrenal gland disorders and hormonal contraception.

Knowing the difficulty that the specialist has when taking on a title of these characteristics, TECH offers it in a completely online format. This means that there are no pre-set classes or fixed schedules, and the specialist decides where, when and how to deal with the teaching load. The virtual classroom is accessible 24 hours a day from any device with an internet connection, and the contents can even be downloaded for later offline consultation.

The **Postgraduate Diploma in Endocrinology in Women** contains the most complete and up-to-date educational program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Endocrinology
- ♦ The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions for experts and individual reflection work
- ♦ Access to content from any fixed or portable device with an Internet connection



You will have the support of a teaching staff that is fully committed to your professional development"

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Access the latest scientific postulates on Cushing's syndrome, Pheochromocytoma, Hyperaldosteronism and more adrenal gland disorders"

The program's teaching staff includes professionals from the sector who contribute their work experience to this training 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 training programmed to train in real situations.

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

It delves into the relevance of gender in the various endocrinological conditions, with a special focus on those affecting women.

You will be able to consult a large amount of support material, including detailed summaries and videos made by the teachers themselves.



02 Objectives

The main objective of this program is to offer the specialist a complete and exhaustive update on Endocrinology in Women. For this, in addition to having a great professional teaching team, TECH has employed the latest educational technology and the most successful pedagogical methods. This guarantees a smooth and efficient academic experience, where even before completion the specialist incorporates all the updated knowledge into his daily practice.



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You will achieve your most ambitious goals and objectives thanks to TECH, the largest online university in Spanish in the world"



General Objective

- ♦ Be able to accurately interpret currently available clinical information and associate it effectively in clinical practice



An innovative and intuitive virtual classroom will be the ideal base to bring you up to date on issues such as pituitary tumor syndromes or central diabetes insipidus"





Specific Objectives

Module 1. Hypothalamus, Pituitary Gland and Autoimmune Pathology

- ♦ Update knowledge in biology, biochemistry and physiopathology of the endocrine system
- ♦ Delve into the main clinical entities affecting the hypothalamic-pituitary axis
- ♦ Deepen in the autoimmune polyglandular syndromes

Module 2. Adrenal Gland Disorders

- ♦ Provide and expand clinical and pathophysiological data on the main endocrine pathologies affecting the adrenal glands
- ♦ Incorporate the use of the main diagnostic algorithms in making the most clinically prevalent clinical judgments

Module 3. Women and Endocrinology

- ♦ Deepen the understanding of female sex hormones throughout a woman's life
- ♦ Update on the singularities of endocrinological diseases in pregnant women
- ♦ Review the most important clinical knowledge in human reproduction

03

Course Management

Since Endocrinology in Women requires a constant effort on the part of the specialist to update their knowledge, the faculty of this program has been composed of a group of professionals of great academic and clinical value. This gives all the contents a unique vision that combines the most effective practical techniques with the most modern scientific postulates on topics such as hormonal contraception or the Endocrinology of Pregnancy.



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The best professionals, coming from prestigious hospitals, will give you the most important and relevant information about Endocrinology in Women"

Management



Dr. Gargantilla Madera, Pedro

- Chief of Internal Medicine Service of El Escorial University Hospital
- Professor of the Francisco de Vitoria University
- Science communicator and regular contributor to various media (RNE, Abc digital, Huftington post, Cinco Noticias)
- Member of the Association of Medical Writers and Artists (ASEMEYA)
- Master's Degree in Clinical Unit Management

Professors

Dr. de la Fuente Bitaine, Laura

- ♦ Area Specialist Physician at Hospital 12 de Octubre
- ♦ Coordinator of the Reproduction Unit of the Hospital 12 de Octubre, Madrid
- ♦ Member of the Human Reproduction Unit at Hospital 12 de Octubre and

Tambre Clinic

- ♦ Co-director and Professor of the Master's Degree in Human Reproduction at UCM and SEF
- ♦ Associate Professor of the Complutense University of Madrid
- ♦ Degree in Medicine and Surgery from the Autonomous University of Madrid.
- ♦ Doctor Cum Laude of Medicine from the Complutense University of Madrid

Dr. Pérez Blanco, Carmen

- ♦ Specialist Physician in Endocrinology and Nutrition at El Escorial Hospital
- ♦ Specialist in Endocrinology and Nutrition at 12 de Octubre Hospital and Getafe Hospital
- ♦ Doctorate in Medicine from the Autonomous University of Madrid.
- ♦ Specialty in Endocrinology and Nutrition via MIR at the University Hospital of Getafe
- ♦ Master's Degree in Bases for the Care and Education of People with Diabetes at the University of Barcelona
- ♦ Diploma in the Treatment of diabetes mellitus type 2: future experts in diabetes at the Autonomous University of Barcelona
- ♦ Online Master's in Clinical Nutrition in Medicine at the CEU-Cardenal Herrera University

Dr. Álvarez Gómez, Esther

- ♦ Area Specialist at the San José Hospital in Teruel
- ♦ Residence of Geriatrics Speliacity at Nuestra Señora de Gracia Hospital
- ♦ Graduated in Medicine from the Complutense University of Madrid
- ♦ Master's Degree in Bioethics at the University of La Rioja
- ♦ Master's Degree in Palliative Care at CEU, Cardenal Herrera University

Dr. Cuenca Abarca, Ana

- ♦ Attending Physician of Internal Medicine at El Escorial Hospital
- ♦ Medical Specialist in Internal Medicine at Puerta de Hierro University Hospital
- ♦ Clinical Teaching Collaborator for the Francisco de Vitoria University
- ♦ Medical Degree from the University of Castilla-La Mancha 2003 - 2009
- ♦ PhD in Medicine and Surgery from the Autonomous University of Madrid.

Dr. Calvo Urrutia, Marta

- ♦ Attending Physician at the Women's Health Institute Professor Botella Llusíá (Hospital Clínico San Carlos)
- ♦ Coordinator of the Reproduction Unit of ISM Botella Llusíá
- ♦ Degree in Medicine and Surgery from the Autonomous University of Madrid.
- ♦ Specialist in Obstetrics and Gynecology at San Carlos Clinical Hospital
- ♦ D. in Gynecology and Obstetrics (Cum Laude) from the Complutense University of Madrid
- ♦ Master's Degree in Human Reproduction, Rey Juan Carlos I University

Dr. Mattei, Isabella

- ♦ Assistant in Endocrinology and Nutrition at the Hospital 12 de Octubre in Madrid and at the Hospital Fundación Jiménez Díaz spending two days a week in general practice
- ♦ Resident Physician in Endocrinology and Nutrition at the 12 de Octubre University Hospital in Madrid
- ♦ Degree in Medicine and Surgery from the University of Florence

Dr. Belda Bilbao, Luis

- ♦ Specialist in Internal Medicine El Escorial Hospital San Lorenzo de El Escorial
- ♦ Specialty in Internal Medicine performed in Great Britain
- ♦ Master's Degree in Cardiovascular Diseases at Barcelona University
- ♦ University Expert in HIV Infection and Associated Diseases, at the Miguel Hernández University of Elche

Dr. María Martín Cabrejas, Berta

- ♦ Area Specialist Physician at the University Hospital Foundation of Alcorcon
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Specialist in Gynecology and Obstetrics via MIR
- ♦ Master's Degree of Human Reproduction from the Complutense University of Madrid
- ♦ Master's Degree in Health Management from the Distance University of Madrid





Dr. López Velasco, Nuria

- ♦ Assistant Gynecologist at the University Hospital Fundación de Alcorcón, in the Assisted Human Reproduction Unit
- ♦ Gynecologist Specialist in Assisted Human Reproduction in GINEFIV
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Master's Degree in Assisted Human Reproduction at Complutense University of Madrid
- ♦ Master's Degree in Minimally Invasive Surgery in Gynecology by CEU

Dr. Ortega Carbonell, Amaya

- ♦ Assistant of Gynecology and Obstetrics at University Hospital Fundación Alcorcón in Madrid (HUFA)
- ♦ Degree in Medicine from the Complutense University of Madrid

Dr. Climent Martínez, Nieve

- ♦ Assistant Physician at the University Hospital Fundación Hospital de Alcorcón
- ♦ Gynecology Resident Tutor at the University Hospital Foundation of Alcorcón
- ♦ Specialist in Gynecology and Obstetrics

Dr. Romero Gaudix, Barbara

- ♦ Specialist in Obstetrics and Gynecology at the Virgen de las Nieves University Hospital in Granada
- ♦ Coordinator of the Public Centers Interest Group of the Spanish Fertility Society
- ♦ Author of the Master's Degree in Human Infertility and Infertility of the Spanish Society of Gynecology and Obstetrics 2021
- ♦ Degree in Medicine and Surgery from the University of Granada
- ♦ Specialist in Obstetrics and Gynecology via EIR 2008

04

Structure and Content

To ensure the maximum efficiency of its contents, TECH has adapted the entire program to the most successful pedagogical methodology, *Relearning*. Thanks to the repetition of the most important concepts and knowledge throughout the program, the specialist is brought up to date in a natural and progressive way, without having to force themselves to make a large investment of study hours for this task.



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You'll find a multitude of tools to help ease your learning load, including supplemental readings and interactive summaries"

Module 1. Hypothalamus, Pituitary Gland and Autoimmune Pathology

- 1.1. Endocrinology
 - 1.1.1. Types of Hormones
 - 1.1.2. Synthesis, Processing and Degradation of Hormones
 - 1.1.3. Hormone Receptors
 - 1.1.4. Regulatory Systems
 - 1.1.5. Endocrine Autoimmunity
 - 1.1.6. Genetic Bases of Endocrine Diseases
- 1.2. Endocrine Pathophysiology
 - 1.2.1. Biosynthesis Disorders
 - 1.2.2. Secretion Disorders
 - 1.2.3. Transportation Disorders
 - 1.2.4. Action Disorders
 - 1.2.5. Regulatory Disorders
 - 1.2.6. Autonomous Hormone Production
- 1.3. Metabolism, Hormones and Coenzymes
 - 1.3.1. Nutrients
 - 1.3.2. Glucose Pathways
 - 1.3.3. Lipids
 - 1.3.4. Proteins
 - 1.3.5. Energy Procurement and Use
 - 1.3.6. Specific Metabolic Peculiarities
- 1.4. Hypothalamic and Pituitary Physiology
- 1.5. Hypopituitarism
- 1.6. Pineal Gland Pathology
- 1.7. Pituitary Tumor Syndromes
- 1.8. Inadequate ADH Secretion
- 1.9. Central Diabetes Insipidus
- 1.10. Autoimmune Polyglandular Syndromes
 - 1.10.1. Type 1 Autoimmune Polyglandular Autoimmune Syndrome
 - 1.10.2. Type 2 Autoimmune Polyglandular Autoimmune Syndrome



Module 2. Adrenal Gland Disorders

- 2.1. Anatomy
- 2.2. Adrenal Gland Physiology
- 2.3. Cushing's Syndrome
- 2.4. Adrenal Insufficiency
- 2.5. Hyperaldosteronism
- 2.6. Hypoaldosteronism
- 2.7. Pheochromocytoma
- 2.8. Congenital Adrenal Hyperplasia
- 2.9. Incidentalomas
- 2.10. Adrenal Tumors and Metastases

Module 3. Women and Endocrinology

- 3.1. Physiology of the Menstrual Cycle
- 3.2. Amenorrhea
 - 3.2.1. Classification
 - 3.2.2. Primary Amenorrhea
 - 3.2.3. Secondary Amenorrhea
- 3.3. Polycystic Ovarian Syndrome and Chronic Anovulation
- 3.4. Hyperandrogenism and Hirsutism
- 3.5. Hyperprolactinemia
- 3.6. Gestational Diabetes
- 3.7. Endocrinology of Pregnancy
 - 3.7.1. Pituitary Hormones
 - 3.7.2. Thyroid Hormones
 - 3.7.3. Sexual Hormones
 - 3.7.4. Placental Hormones
- 3.8. Hormonal Contraception
- 3.9. Hormones and Reproduction
- 3.10. Climacteric
 - 3.10.1. Hormonal Changes
 - 3.10.2. Clinical Manifestations
 - 3.10.2.1. Vasomotor Symptoms
 - 3.10.2.2. Menstrual Alterations
 - 3.10.2.3. Psychological Sphere
 - 3.10.3. Osteoporosis and Menopause
 - 3.10.4. Cardiovascular Diseases and Menopause
 - 3.10.5. Hormone Replacement Therapy



Study all the contents at your own pace and convenience, and you can even choose the order in which you do it"

05 Methodology

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

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



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

At TECH we use the Case Method

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

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



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

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

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

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



Relearning Methodology

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

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

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



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

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

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

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

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



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



Study Material

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

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



Surgical Techniques and Procedures on Video

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



Interactive Summaries

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

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



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

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



Testing & Retesting

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



Classes

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



Quick Action Guides

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



06 Certificate

The Postgraduate Diploma in Endocrinology in Women guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Diploma qualification issued by TECH Technological University.





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Successfully complete this master's and receive your university degree without travel or laborious paperwork"

The **Postgraduate Diploma in Endocrinology in Women** contains the most complete and up-to-date scientific program on the market

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional from career evaluation committees.

Title: **Postgraduate Diploma in Endocrinology in Women**

Official N° of Hours: **450 h.**



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

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



Postgraduate Diploma
Endocrinology in Women

Course Modality: Online

Duration: 6 months

Certificate: TECH Technological University

Official N° of Hours: 450 h.

Postgraduate Diploma

Endocrinology in Women

