





Professional Master's Degree

Update on Endocrinology

Modality: Online
Duration: 12 months

Certificate: TECH Technological University

Official N° of hours: 1,500 h.

Website: www.techtitute.com/medicine/professional-master-degree/master-update-endocrinology

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Diabetes and obesity are two of the main diseases that affect a significant part of the population, both in developed and developing countries. Endocrinology therefore becomes a priority medical specialty for global organizations worldwide.

In the field of clinical practice management and in the framework of daily activity, the specialist must have the best possible information at their disposal in order to speed up and maximize their decision-making capacity. Deciding involves weighing different possible alternatives and choosing those that best meet the objectives set. Therefore, prioritization and allocation of available resources should be based on the most advanced scientific information.

In this task, pathophysiological knowledge of diseases that sometimes require a high degree of specialization comes into play. This requires frequent updating and rigorous knowledge on the part of the specialist, so TECH has assembled a teaching team with extensive experience in the clinical field of Endocrinology to provide this program with the best possible knowledge.

The specialist will give an up to date and detailed tour of the main areas of endocrinology. In this way, you will be up to date on the most important issues for your work, incorporating recent advances in insulin therapy, lipid lowering drugs and other new approaches into your daily practice.

All this in a 100% online format in which there are no pre-set classes or schedules, so it is the specialist themselves who decides the study times. A decisive advantage to be able to combine professional updating with the most demanding daily tasks.

This **Professional Master's Degree in Update on Endocrinology** 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 self assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions for experts and individual reflection work
- Content that is accessible from any fixed or portable device with an Internet connection



You will have at your disposal a large amount of support material, including real clinical cases, complementary readings and video summaries prepared by the teachers themselves"



Access a modern compendium on the Etiology, Epidemiology and Pathophysiology of the main conditions of the endocrine system" Incorporate the most modern scientific postulates into your daily practice and maintain a high level of professional practice.

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.

Rely on a world class faculty, assembled by TECH for both clinical and academic merit.







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General Objective

• Accurately interpret currently available clinical information and associate it effectively in clinical practice



You will have the support of a technical team that will be ready to solve any doubts or setbacks that may arise"





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
- Delve into the autoimmune polyglandular syndromes

Module 2. Thyroid, Parathyroid Gland and MEN

- Update knowledge of the main pathologies affecting the thyroid gland and to know the main diagnostic algorithms in these diseases
- Deepen in the laboratory findings that can lead to the diagnosis of the main parathyroid diseases
- Interpret the clinical findings that should make us suspect the existence of multiple endocrine neoplasia

Module 3. 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 4. Obesity, Metabolic Syndrome and Dyslipidemia

- Update knowledge on obesity and its pharmacological treatments
- Delve into the approach and classification of the metabolic syndrome, as well as the profound impact it is having on the healthcare landscape
- Discuss and interpret the findings in lipid profiling and the development of therapeutic knowledge that has been generated in recent years in this field

Module 5. Diabetes Mellitus

- Provide and expand knowledge on the pathogenesis and pathophysiology of diabetes mellitus
- Provide the basis of knowledge of the main chronic complications (micro and macrovascular) of this pathology
- Discuss the different therapeutic options for this endocrinological disease

Module 6. Endocrinological Emergencies

- Know the most frequent causes that occur in the most common endocrine and metabolic emergencies, developing the activities to be carried out with the patient in the situations described in the contents
- Prioritize the actions to be carried out according to their importance for the patient's life
- Identify the differential diagnosis in relation to the metabolic and electrolyte alterations of these pathologies
- Recognize the importance of the evaluation of blood analysis and metabolic values in the detection of related problems

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Module 7. Disorders of Intermediate Metabolism and Bone Metabolism

- Update knowledge in this heterogeneous field of pathologies, especially in the clinical and diagnostic concept
- Provide and expand knowledge about the skeletal system and related diseases in this area

Module 8. Clinical Nutrition and Dietetics

- Update the knowledge in the field of dietetics and its connection with the most prevalent diseases and in which its knowledge can be transcendental to achieve a favorable clinical evolution
- Know the different types of nutrition, their indications, their singularities and their mechanics of administration





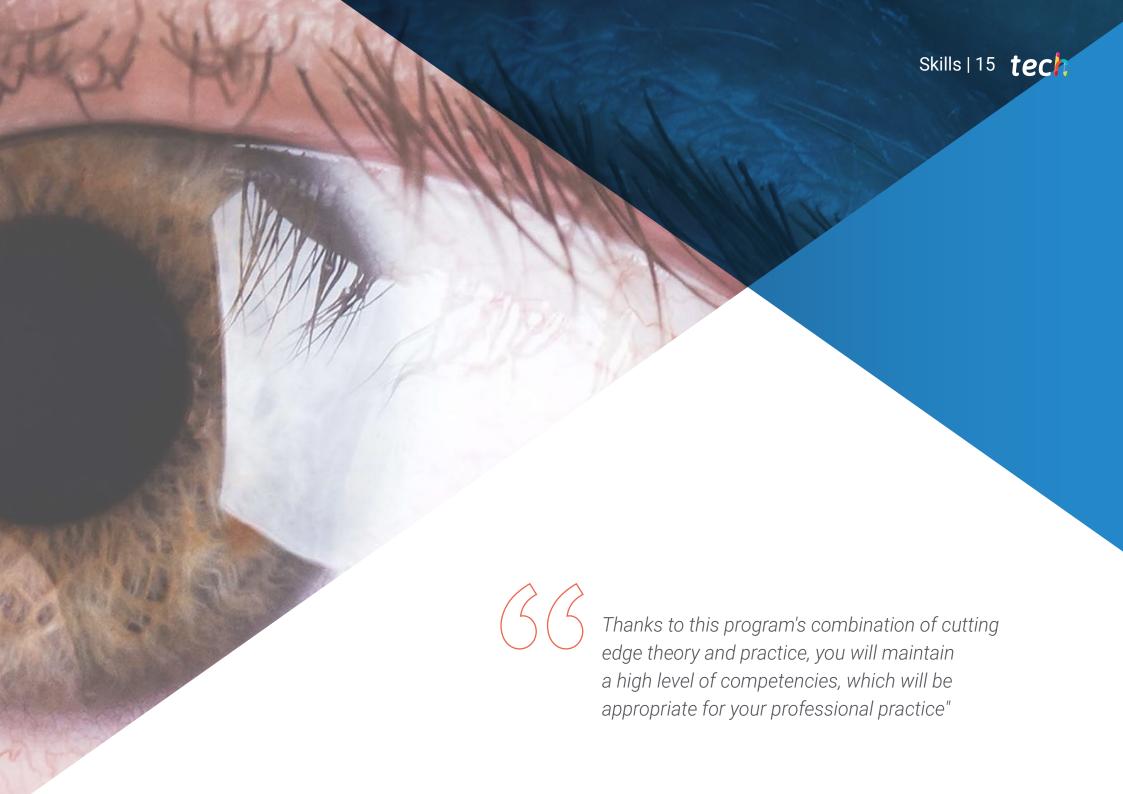
Module 9. Women and Endocrinology

- 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

Module 10. Miscellaneous

- Delve the approach to the study of hypogonadism and the main algorithms involved in its study
- Update on the singularities of endocrinological diseases in the elderly patient
- Review the most important clinical knowledge in the detection of arterial hypertension of endocrinologic origin
- Deepen the role of the endocrine system in the nervous system and cardiovascular system
- Deepen the knowledge of gastrointestinal hormones in the control of food intake





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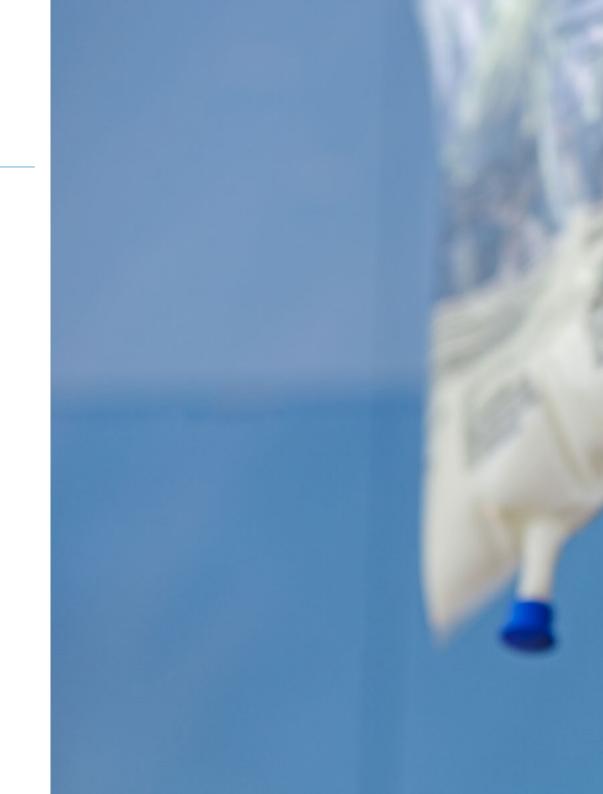


General Skills

- Possess and understand knowledge that provides an opportunity in the context of Endocrinology
- Apply acquired knowledge and problem-solving skills in clinical settings in a comprehensive and solvent manner
- Integrate knowledge and face complex clinical situations, including pathophysiological reflections related to the application of knowledge
- Communicate your findings to both specialized and non-specialized audiences in a clear and unambiguous manner
- Possess the learning skills that will enable them to continue studying in a self directed and/or autonomous manner



You will achieve greater agility in decision making and treatment thanks to the new tools that you will incorporate in your daily work"







Specific Skills

- Create a global and updated vision of the topics addressed, acquiring a useful and deep knowledge
- Generate interest in expanding knowledge in this area and discover its application to daily clinical practice
- Understand the process of knowledge discovery that includes the reading of specific information, contextualization and transversality with other medical branches
- Understand how to evaluate the performance of both supervised and unsupervised learning algorithms
- Know the most relevant diagnostic techniques and therapeutic aspects in this field of medicine





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

Dr. Albi Rodríguez, Salomé

- Assistant, Pediatrics Department, 12 de Octubre University Hospital, Madrid
- University Degree in Medicine and Surgery from the Complutense University of Madrid
- Doctor in Medicine and Surgery at the Autonomous University of Madrid
- Specialty of Pediatrics and Specific Areas

Dr. Barrio Martínez, Nina Marina

• Gynecology and Obstetrics Service Fundación Alcorcón University Hospital

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 in Cardiovascular Diseases at Barcelona University
- University Expert in HIV Infection and Associated Diseases, at the Miguel Hernández University of Elche

Professors

Dr. Calvo Urrutia, Marta

- Assistant Physician at the Women's Health Institute Professor Botella Llusiá (Hospital Clínico San Carlos)
- Coordinator of the Reproduction Unit of ISM Botella Llusiá
- 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. Cuenca Abarca, Ana

- Attending Physician of Internal Medicine at Hospital El Escorial
- 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. 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. Mattei, Isabella

- Assistant Physician 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 the12 de Octubre University Hospital in Madrid
- Degree in Medicine and Surgery from the University of Florence

Dr. Martín de Francisco, Elisa

- Medical Specialist in Geriatrics at El Escorial Hospital in Madrid
- Medical Specialist in Geriatrics at the Infanta Elena Hospital in Valdemoro
- Degree in Medicine and Surgery from the Complutense University of Madrid
- MIR in Geriatrics at the Getafe University Hospital

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

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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. Carrasco Lara, Pablo

- Specialist Physician in Endocrinology and Nutrition at the El Escorial University Hospital
- Specialist in Endocrinology and Nutrition at Hospital La Luz, University Hospital of Getafe, University Hospital of Fuenlabrada and General University Hospital Gregorio Marañón
- Degree in Medicine at the Faculty of Health Sciences of the Rey Juan Carlos University in Madrid
- Master's Degree in Integration and Clinical Problem Solving in Medicine at the University of Alcalá, Madrid
- Specialty in Endocrinology and Nutrition via MIR at the University Hospital of Getafe
- Expert in Chronic Complications of Diabetes Mellitus at the University of Barcelona
- Master's Degree in Clinical Nutrition in Medicine at the CEU-Cardenal Herrera University

Dr. Fiorante, Silvana

- Internal Medicine Service at El Escorial Hospital in Madrid
- Professor in the Faculty of Health Sciences in the Degree in Dietetics and Nutrition at the Catholic University of Avila
- Degree in Medicine from the National University of La Plata
- Doctor of Medicine and Surgery from the Complutense University of Madrid with Cum Laude distinction
- Master's Degree on Human Immunodeficiency Virus Infection by the Ministry of Health, Consumption and Social Welfare at the Universidad Rey Juan Carlos with Cum Laude distinction
- Master's Degree in Clinical Management of Health Care Units at the International University Menéndez Pelayo with Cum Laude distinction

Dr. García Tobaruela, Almudena

- Assistant Physician in the Internal Medicine Department of El Escorial Hospital, Madrid
- Internal Medicine Service Safety Officer
- Assistant Physician in the Emergency Department of Hospital La Paz, Madrid
- Degree in Medicine and Surgery from the Autonomous University of Madrid.
- Specialist in Internal Medicine with training at La Paz University Hospital in Madrid

Dr. Torres Rodríguez, Enrique

- Chief of the Emergency Department of the Hospital de El Escorial in Madrid
- Specialist in Internal Medicine
- Master's Degree in Healthcare Unit Management

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. Martín Cabrejas, Berta María

- 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. Montoro Lara, Juan

- Specialist in Internal Medicine at the University Hospital El Escorial
- Clinical Teaching Collaborator at the Francisco de Vitoria University
- Clinical Teaching Collaborator at the Autonomous University of Madrid
- Master's Degree in Emergency Medical Care
- Master in Hyperbaric Medicine
- University Expert in Clinical Ultrasound

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. Pérez Blanco, Carmen

- Specialist Physician in Endocrinology and Nutrition at El Escorial Hospital
- Specialist in Endocrinology and Nutrition at Hospital 12 de Octubre and Hospital de Getafe
- 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





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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. Thyroid, Parathyroid Gland and MEN

- 2.1. Physiology and Thyroid Function Tests
- 2.2. Goiter and the Euthyroid Patient Syndrome
- 2.3. Hypothyroidism
- 2.4. Hyperthyroidism
- 2.5. Tiroiditis
- 2.6. Thyroid Nodule and Thyroid Cancer
- 2.7. Biology of Mineral Metabolism
 - 2.7.1 Parathyroid Hormone
 - 2.7.2. Vitamin D
 - 2.7.3. Regulation of Mineral Metabolism
 - 2.7.4. Laboratory Assessment of Mineral Metabolism
- 2.8. Hypoparathyroidism and Pseudohypoparathyroidism
- 2.9. Hyperparathyroidism
 - 2.9.1. Primary
 - 2.9.2. Secondary
- 2.10. Multiple Endocrine Neoplasms
 - 2.10.1. Type 1 MEN
 - 2.10.2. Type II MEN

Module 3. Adrenal Gland Disorders

- 3.1. Anatomy
- 3.2. Adrenal Gland Physiology
- 3.3. Cushing's Syndrome
- 3.4. Adrenal Insufficiency
- 3.5. Hyperaldosteronism
- 3.6. Hypoaldosteronism
- 3.7. Pheochromocytoma
- 3.8. Congenital Adrenal Hyperplasia
- 3.9. Incidentalomas
- 3.10. Adrenal Tumors and Metastases

Module 4. Obesity, Metabolic Syndrome and Dyslipidemia

- 4.1. Epidemiology and Measurement of the Obesity
- 4.2. Adipocyte, Etiology and Consequences of Obesity
- 4.3. Epidemiology and Etiology of Metabolic Syndrome
- 4.4. Pathophysiology of Metabolic Syndrome
- 4.5. Clinical Manifestations and Diagnosis of Metabolic Syndrome
 - 4.5.1. Relationship of Metabolic Syndrome with AHT
 - 4.5.2. Relationship of Metabolic Syndrome to Heart Failure
- 4.6. Prevention and Treatment of Metabolic Syndrome
 - 4.6.1. Importance of Lifestyle
 - 4.6.2. Vasculoprotective and Etiopathogenic Treatment
- 4.7. Lipoprotein Metabolism and Classification of Dyslipidemias
- 4.8. Lipid-Lowering Drugs and Therapeutic Strategies
- 4.9. Dyslipidemia Management in Different Clinical Situations
 - 4.9.1. Familial Dyslipidemia
 - 4.9.2. Woman
 - 4.9.3. Elderly people
 - 4.9.4. Diabetes and Metabolic Syndrome
 - 4.9.5. Secondary prevention
- 4.10. Non-Pharmacological Methods
 - 4.10.1. Lifestyle
 - 4.10.2. Functional Food
 - 4.10.3. Medicinal Plants

Module 5. Diabetes Mellitus

- 5.1. Etiology, Classification and Prevalence
- 5.2. Etipathogenesis, Insulin Resistance and Metabolic and Molecular Pathogenesis
- 5.3. Type 1 Diabetes Mellitus
- 5.4. Genetic Basis of Type 2 Diabetes Mellitus
- 5.5. Microvascular Complications
 - 5.5.1. Pathogenesis.
 - 5.5.2. Diabetic Retinopathy.
 - 5.5.3. Diabetic Nephropathy
 - 5.5.4. Diabetic Neuropathy
- 5.6. Macrovascular Complications
 - 5.6.1. Ischemic Heart Disease
 - 5.6.2. Diabetic Cardiomyopathy
 - 5.6.3. Heart Failure
 - 5.6.4. Stroke
 - 5.6.5. Peripheral Arterial Disease
- 5.7. Oral Antidiabetics
- 5.8. Insulin Therapy
- 5.9. Special Considerations
 - 5.9.1. Lipodystrophic Diabetes Mellitus
 - 5.9.2. Total Parenteral Nutrition
 - 5.9.3. Glucocorticoids
- 5.10. Diabetes and Public Health
 - 5.10.1. Type 2 Diabetes Mellitus Screening
 - 5.10.2. Prevention of Type 2 Diabetes Mellitus

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Module 6. Endocrinological Emergencies

- 6.1. Thyrotoxic Crisis
- 6.2. Myxedematous Coma.
- 6.3. Non-Ketotic Hyperglycemic Hyperosmolar Crisis
- 6.4. Diabetic ketoacidosis
- 6.5. Acute Adrenal Insufficiency
- 6.6. Hypoglycemia
- 6.7. Pituitary Apoplexy
- 6.8. Hypocalcemia
- 6.9. Hypercalcemia
- 6.10. Pediatric Endocrinologic Emergencies

Module 7. Disorders of Intermediate Metabolism and Bone Metabolism

- 7.1. Hemochromatosis
- 7.2. Wilson's Disease
- 7.3. Porphyrias
- 7.4. Purine and Pyrimidine Metabolism Disorders
- 7.5. Lysosomal Storage Diseases
 - 7.5.1. Pathogenesis
 - 7.5.2. Tay-Sachs Disease
 - 7.5.3. Fabry Disease
 - 7.5.4. Gaucher Disease
 - 7.5.5. Niemann-Pick Disease
 - 7.5.6. Mucopolysaccharidosis
 - 7.5.7. Pompe Disease
 - 7.5.8. Lysosomal Acid Lipase Deficiency

- 7.6. Inherited Disorders of Carbohydrate Metabolism
 - 7.6.1. Glycogenosis
 - 7.6.2. Galactose Metabolism Disorders
 - 7.6.3. Fructose Metabolism Disorders
- 7.7. Inherited Membrane Transport Disorders
 - 7.7.1. Cystinuria
 - 7.7.2. Lysinuria
 - 7.7.3. Citrulinemia
 - 7.7.4. Hartnup Disease
 - 7.7.5. Cystinosis
- 7.8. Osteomalacia, Rickets and Osteogenesis Imperfecta
 - 7.8.1. Bone Remodeling
 - 7.8.2. Osteomalacia
 - 7.8.3. Rickets
 - 7.8.4. Osteogenesis Imperfecta
- 7.9. Osteoporosis
 - 7.9.1. Epidemiology
 - 7.9.2. Pathophysiology
 - 7.9.3. Microbiological
 - 7.9.4. Treatment
 - 7.9.5. Osteoporosis Secondary to Glucocorticoids
- 7.10. Paget's Disease and Other Bone Dysplasias
 - 7.10.1. Paget's Osteopathy
 - 7.10.2. Sclerosing Bone Disorders
 - 7.10.3. Defective Mineralization
 - 7.10.4. Fibrous Dysplasia
 - 7.10.5. McCube-Albright Syndrome

Module 8. Clinical Nutrition and Dietetics

- 8.1. General Principles
 - 8.1.1. Assessment of Nutritional Status
 - 8.1.2. Nutritional Requirements
 - 8.1.3. Food Groups
 - 8.1.4. Markers of Malnutrition
- 8.2. Dietetics and Dietethotherapy
 - 8.2.1. Dietary Recommendations
 - 8.2.2. Characteristics of the Different Types of Diets
 - 8.2.3. Nutritional Requirements
- 8.3. Enteral Nutrition
 - 8.3.1. Methods and Mechanics of Administration
 - 8.3.2. Indications, Contraindications and Complications
- 8.4. Parenteral Nutrition
 - 8.4.1. Types
 - 8.4.2. Routes and Mechanics of Administration
 - 8.4.3. Indications, Contraindications and Complications
 - 8.4.4. Nutrients in Parenteral Nutrition
 - 8.4.5. Preparation of Mixtures for Parenteral Nutrition
- 8.5. Dietary and Pharmacological Treatment of Obesity
 - 8.5.1. Pretreatment Assessment
 - 8.5.2. Modifications in Caloric Content
 - 8.5.3. Modifications in Dietary Macronutrients
 - 8.5.4. Specific Role in the Control of Obesity
 - 8.5.5. Pharmacological Treatment of Obesity
- 8.6. Diabetes Mellitus
 - 8.6.1. Objectives
 - 8.6.2. Types of Diets
 - 8.6.3. Nutrition Strategies
 - 8.6.4. Recommended Caloric Intakes
 - 8.6.5. Macronutrient Distribution
 - 8.6.6. Other Nutrients

- 8.7. Nutritional Aspects of Hyperlipemia
 - 8.7.1. Influence of Fatty Acids on Cardiovascular Risk
 - 8.7.2. Effects of Sterols on Cardiovascular Risk
 - 8.7.3. Recommendations to Reduce the Impact of the Atherogenic Diet
 - 8.7.4. Other Nutritional Recommendations
- 8.8. Hydrosaline Metabolism
 - 8.8.1. Sodium-Controlled Diet
 - 8.8.2. Potassium-Controlled Diet
 - 8.8.3. Diet in Arterial Hypertension
- 8.9. Nutrition in Gastrointestinal Pathologies
 - 8.9.1. Celiac Disease Diet
 - 8.9.2. Diet and Hepatobiliary Disease
 - 8.9.3. Diet and Inflammatory Bowel Disease
 - 8.9.4. Lactose Intolerance
 - 8.9.5. Probiotics, Prebiotics, Symbiotics, and Fiber
- 8.10. Nutrition and Renal Pathology
 - 8.10.1. Malnutrition as a Morbidity and Mortality Factor
 - 8.10.2. Nutritional Assessment in Renal Patients
 - 8.10.3. Nutritional Recommendations
 - 8.10.4. Nutritional Treatment

Module 9. Women and Endocrinology

- 9.1. Physiology of the Menstrual Cycle
- 9.2. Amenorrhea
 - 9.2.1 Classification
 - 9.2.2. Primary Amenorrhea
 - 9.2.3. Secondary Amenorrhea
- 9.3. Polycystic Ovarian Syndrome and Chronic Anovulation
- 9.4. Hyperandrogenism and Hirsutism
- 9.5. Hyperprolactinemia
- 9.6. Gestational Diabetes

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- 9.7. Endocrinology of Pregnancy
 - 9.7.1. Pituitary Hormones
 - 9.7.2. Thyroid Hormones
 - 9.7.3. Sexual Hormones
 - 9.7.4. Placental Hormones
- 9.8. Hormonal Contraception
- 9.9. Hormones and Reproduction
- 9.10. Climacteric
 - 9.10.1. Hormonal Changes
 - 9.10.2. Clinical Manifestations
 - 9.10.2.1. Vasomotor Symptoms
 - 9.10.2.2. Menstrual Alterations
 - 9.10.2.3. Psychological Sphere
 - 9.10.3. Osteoporosis and Menopause
 - 9.10.4. Cardiovascular Diseases and Menopause
 - 9.10.5. Hormone Replacement Therapy

Module 10. Miscellaneous

- 10.1. Gonadal Pathology
 - 10.1.1. Male Hypogonadism
 - 10.1.2. Male Hypergonadism
- 10.2. Endocrinologic Diseases in the Elderly
 - 10.2.1. Endocrinological Changes in Aging
 - 10.2.2. Endocrinopathies in the Elderly
 - 10.2.3. Diabetes Mellitus in the Elderly
 - 10.2.4. Thyroid Diseases in the Elderly
- 10.3. Endocrine Neoplasms of the Pancreas
- 10.4. Carcinoid syndrome
- 10.5. Paraneoplastic Endocrinopathies
- 10.6. Arterial Hypertension of Endocrine Origin

- 10.7. Gastrointestinal Hormones in the Control of Dietary Intake
 - 10.7.1. Anorexigenic Hormones
 - 10.7.2. Orexigenic Hormones
- 10.8. Central Nervous System and Hormones
 - 10.8.1. Thyroid Hormones
 - 10.8.2. Steroids
 - 10.8.3. Testosterone
- 10.9. Short Stature: Diagnostic Approach and Therapeutic Basis
- 10.10. Endocrine System and Heart
 - 10.10.1. Pituitary and Cardiovascular System
 - 10.10.2. Cushing's Syndrome and Cardiovascular Disease
 - 10.10.3. Thyroid and Cardiovascular System
 - 10.10.4. Parathyrin and Cardiovascular System
 - 10.10.5. Adrenal Gland and Cardiovascular System



You will be able to ask the teachers any questions you may have about the syllabus, with full and personalized attention"







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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:

- 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.



Methodology | 37 tech

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.

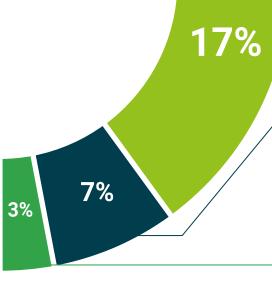
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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.









tech 42 | Certificate

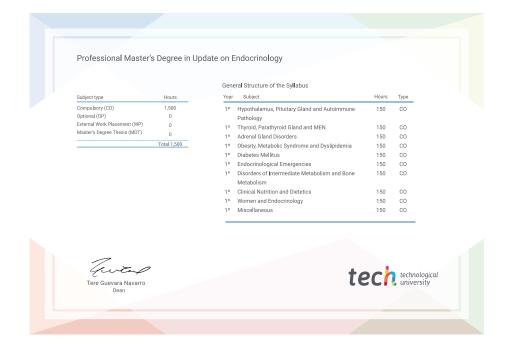
This **Professional Master's Degree in Update on Endocrinology** contains the most complete and up to date scientific program on the market.

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

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Professional Master's Degree, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Professional Master's Degree in Update on Endocrinology Official N° of hours: 1,500 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.



Professional Master's Degree

Update on Endocrinology

Modality: Online Duration: 12 months

Certificate: TECH Technological University

Official No of hours: 1,500 h.

