





Hybrid Master's Degree

Diet Therapy

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 créditos ECTS

We b site: www.techtitute.com/us/medicine/hybrid-master-degree/hybrid-master-degree-diet-therapy

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The serious problems caused by obesity have led to the improvement of digestive and bariatric surgery procedures and techniques in recent decades. However, this disease already affects millions of people around the world and its consequences are reflected in the increase of diabetes in children.

In response to this situation, health institutions are promoting plans for the prevention of overweight. However, the medical community takes on the challenge of dealing with patients whose poor nutrition leads to nervous system, endocrine or renal pathologies. Faced with this reality, TECH has created this Hybrid Master's Degree in Diet Therapy, which offers professionals an update of their knowledge in this area, through a theoretical framework 100% online and a clinical internship in a prestigious specialized center.

In this way, the physician will be able to delve, through quality multimedia content, in hospital nutritional plans, in the multidisciplinary treatment of overweight, obesity and its comorbidities, as well as in nutrition in patients with liver and oncological pathologies. All this, with a syllabus available 24 hours a day and with easy access from any electronic device with an Internet connection.

In addition, in this academic program, the medical professional will spend an on-site stay in a reference center, specialized in the treatment of patients with problems derived from poor nutrition. In this environment, they will be with the best specialists in this field, who will show them the latest procedures, as well as the treatments used in each patient according to their characteristics and severity of the disease.

In this way, this institution offers physicians an excellent opportunity to keep up-to-date with the advances in Diet Therapy, through a program that is compatible with their professional responsibilities. In addition, this program provides a first-class internship, which will allow them to integrate the advances in this field into their daily clinical practice. A unique academic option that only TECH offers.

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

- The development of practical cases presented by experts in Nutrition and Endocrinology
- The graphic, schematic, and practical contents which 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 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



This program will lead you to a clinical internship in a first-class clinical environment specialized in Diet Therapy"



Thanks to the Relearning methodology, you will advance through the content of this program in an agile way, reducing the long hours of study"

This Master's program, which has a professionalizing nature and a hybrid learning modality, is aimed at updating medical professionals who perform their functions in clinical and hospital centers, and who require a high level of qualification. The contents are based on the latest scientific evidence, and oriented in a educational way to integrate theoretical knowledge in the medical practice, and the theoretical-practical elements will facilitate the updating of knowledge and allow decision-making in patient management through nutritional guidelines adapted to the pathologies they suffer.

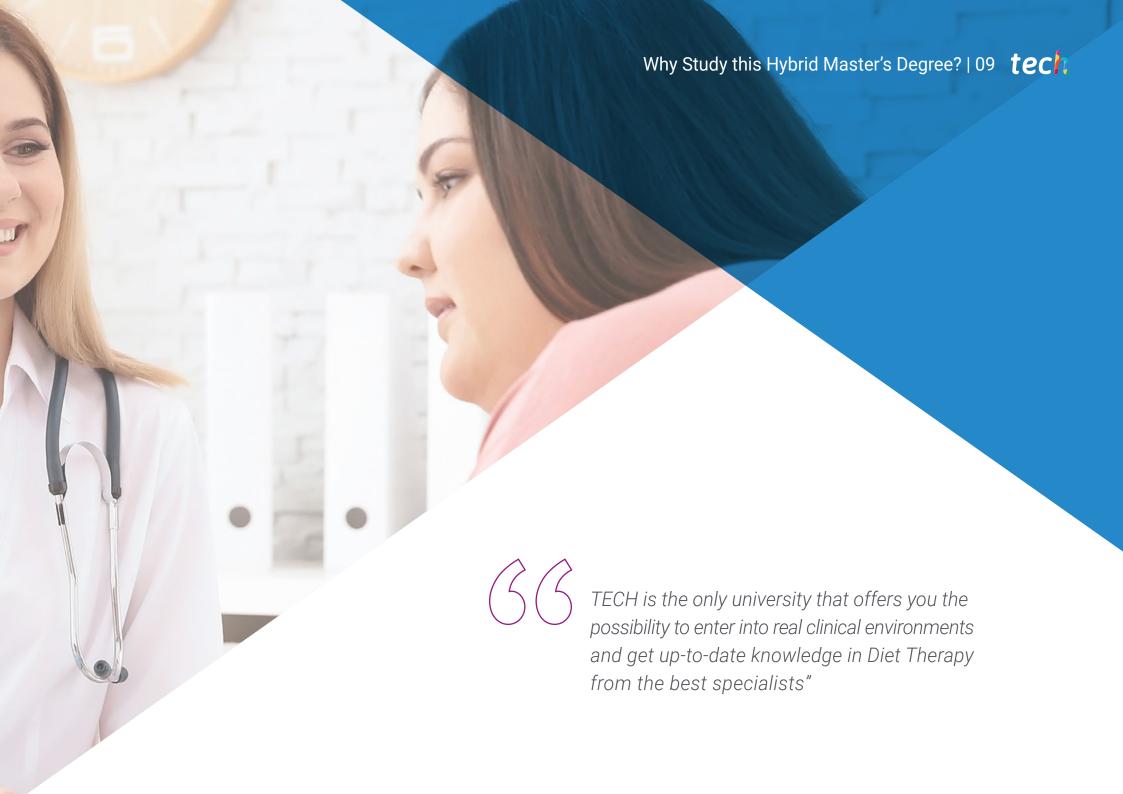
Its multimedia content, developed with the latest educational technology, will allow the medical professional a situated and contextual learning, i.e., a simulated environment that will provide immersive learning programmed to train in real situations. This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, students will be assisted by an innovative interactive video system developed by renowned experts.

You will have access 24 hours a day to a syllabus that offers you different models of hospital diets according to the patient's pathology.

You will be able to update your knowledge through an advanced syllabus and an intensive internship in a renowned clinical center.







tech 10 | Why Study this Hybrid Master's Degree?

1. Updating from the latest technology available

The area of Diet Therapy has evolved in recent years, thanks to advances in pharmacological treatments, bariatric and endoscopic surgery for the approach of patients with obesity. For this reason, and with the aim of offering the professional the latest technical advances in this field, TECH has created this Hybrid Master's Degree, where you will enter a first-class clinical environment, accessing the latest technology used in this area.

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

During this Hybrid Master's Degree, the medical professional will have a teaching staff specialized in Nutrition and Endocrinology, which will guide them at all times to obtain a satisfactory update in Diet Therapy. An accompaniment that will also take place during the internship, in which they will be tutored by an expert member of the clinical center where the internship will take place. An update offered by TECH from the hand of the best specialists.

3. Entering First-Class Clinical Environments

TECH maintains a philosophy based on providing professionals with a quality program that responds to their real needs. That is why this institution carries out a rigorous selection process for both the teaching staff, who teach this program, as well as for the clinical centers where the internship will take place. In this way, the professional will have guaranteed access to a high level Hybrid Master's Degree, unique in the academic panorama.





Why Study this Hybrid Master's Degree? | 11 tech

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

The academic market is full of programs that do not come close to the real needs and daily work of medical professionals. Therefore, this institution has designed a program that combines a flexible theory taught in online format, with a 100% practical phase. All this will allow the specialist to see first-hand the advances made in the techniques and treatments used in the field of Diet Therapy.

5. Expanding the Boundaries of Knowledge

In this university program, the medical professional has the option of doing the internship in a clinical center of national and international reference. In this way, they will be able to update their skills alongside the best specialists, practicing in a first-class healthcare environment. An unparalleled and effective experience that you will be able to access thanks to TECH.





Objectives The design of the program of this Hybrid Master's Degree will lead the professional over 12 months to obtain an up-to-date knowledge in the field of nutrition and its adaptation to the patient's digestive, nervous system or renal pathologies. For this, TECH provides the most innovative teaching tools and a clinical internship in a clinical center, where they can apply the concepts visualized in the syllabus. All this, together with an excellent team of professionals specialized in the field of Nutrition and Endocrinology.



This program gives you the opportunity to update your knowledge in a real clinical scenario, applying the latest techniques and technologies in the approach to patients with severe overweight problems"

tech 14 | Objectives



General Objective

With this Hybrid Master's Degree in Diet Therapy, the professional will be able to
incorporate into their daily clinical practice the latest developments in healthy eating,
from a preventive approach. It also includes the most relevant advances in the
detection of syndromes and symptoms related to nutritional problems. All this, with
a theoretical-practical perspective, which will lead them
to obtain a global and broad vision of the current Diet Therapy



This Hybrid Master's Degree will take you over the course of 12 months and under the maximum scientific rigor to learn about the effects on health derived from the current dietary model"







Specific Objectives

Module 1. Nutrition, Health and Disease Prevention: Current Issues and Recommendations for the General Population

- · Analyze patient's eating habits, as well as their problems and motivation
- Update nutritional recommendations based on scientific evidence for their application in clinical practice
- Prepare for the design of nutritional education strategies and patient care

Module 2. Assessment of Nutritional Status and Calculation of Personalized Nutritional Plans, Recommendations and Monitoring

- Adequate assessment of the clinical case, interpretation of causes and risks
- Personalized calculation of nutritional plans taking into account all individual variables
- Draw up nutritional plans and models order to provide comprehensive and practical recommendations

Module 3. Nutrition in Overweight, Obesity and its Comorbidities

- Adequate assessment of the clinical case, interpretation of causes of overweight and obesity, comorbidities and risks
- Calculate and individually prescribe the different models of hypocaloric diets
- Plan consultations and multidisciplinary team in obesity

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Module 4. Nutrition in Childhood and Adolescence

- Update knowledge on childhood and adolescent overweight and obesity, epigenetic factors and advances in multidisciplinary management and treatment with special focus on the nutritional approach
- Expand the specific therapeutic approach to eating disorders and genetic syndromes associated with nutritional alterations
- Study new evidence on feeding models in Pediatrics and adolescent Medicine Useful tools for consultation
- Approach nutrition adapted to pediatric pathology

Module 5. Nutrition in Dysfunctions and Pathologies along the Digestive Tract

- Study the functioning of the digestive tract, functions and pathologies
- · Complete assessment of the clinical case and the digestive health
- Understanding the intestinal microbiota and its relationship with endocrine and nervous system

Module 6. Nutrition in Renal, Hepatic and Pancreatic Diseases

- Update knowledge of renal, hepatic and pancreatic functions and pathologies, and their relationship with nutrition
- Assess clinical cases, application tools in nutrition consultation
- Plan nutritional treatments based on scientific evidence and assessment of evolution

Module 7. Nutrition in Endocrine-Metabolic and Autoimmune Pathologies

- Individualize nutritional planning for patients with insulin-dependent DM1 and DM2 and insulin resistance
- Explore adapted nutritional recommendations based on scientific evidence in autoimmune, endocrine and respiratory pathologies
- Delve into the prevention and treatment of sarcopenia and osteopenia





Objectives | 17 tech

Module 8. Nutrition in Nervous System Pathologies

- Update on the scientific evidence of the relationship between nervous system pathologies and nutrition
- Assess the patient's needs and difficulties, in addition to an adequate assessment of the nutritional status
- Learn the main psychological aspects of patients with alterations of behavioral disorders

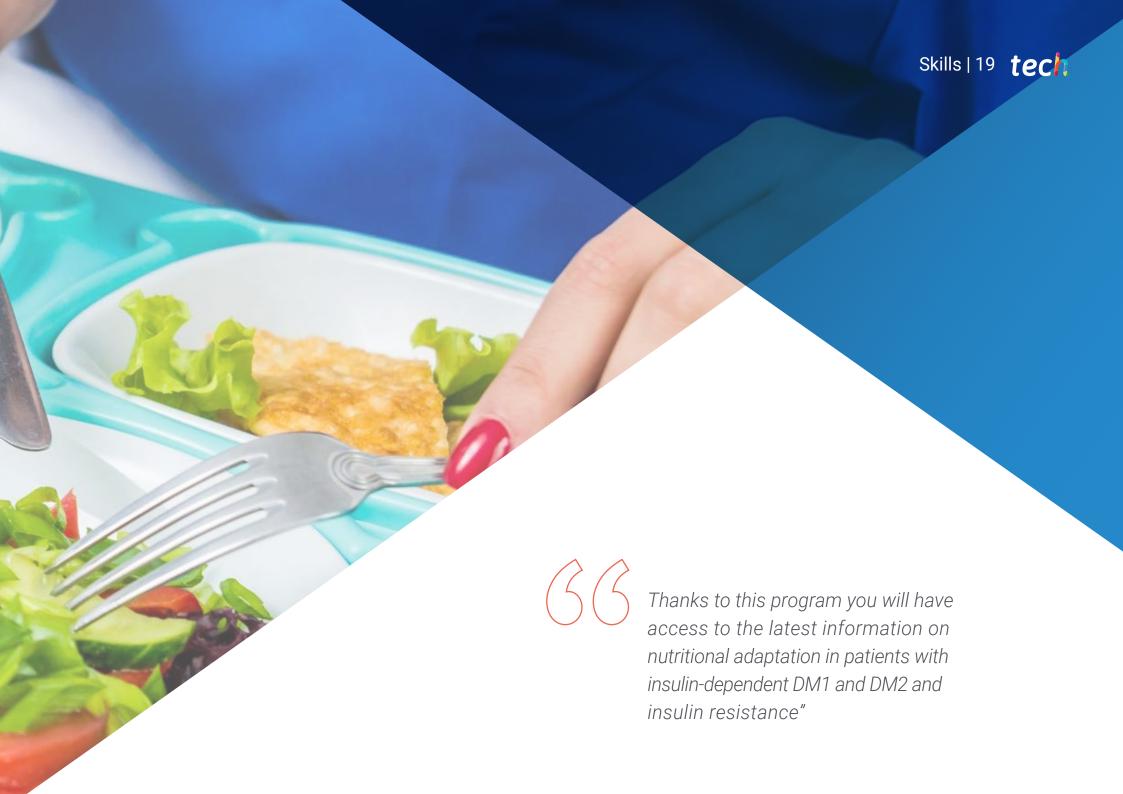
Module 9. Oncology Patient Nutrition

- Know how this pathology affects the nutritional level, from the organic, psychological and metabolic point of view
- Identify malnutrition in the context of a neoplastic disease as the only pathology or in the pluripathological patient, as well as to prevent them
- Personalize the nutritional treatment, covering the needs of the patient in antineoplastic treatment, and/or surgeries

Module 10. Nutrition for Health, Equity and Sustainability

- Analyze the scientific evidence regarding the impact of food on the environment
- Learn about current legislation in the food industry and consumption
- Assess the health effects derived from the current food model and the consumption of ultra-processed food





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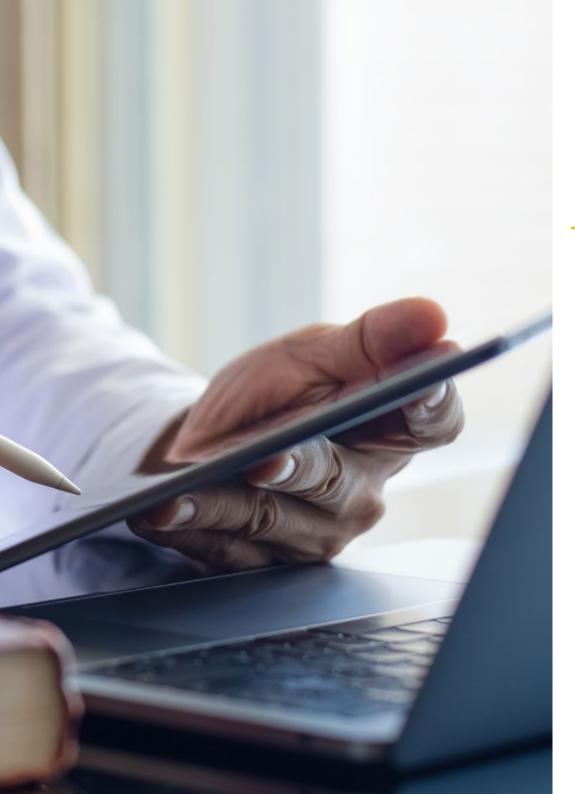
General Skills

- Perform comprehensive nutritional assessments that take into account the psychological, social and pathological aspects of the patient
- Adapt dietary plans to the most recent advances in Diet Therapy
- Apply diets and dietary therapy planning to the field of prevention, clinic and education



Multimedia pills, essential readings and case studies make up the resource library that you'll have access to 24 hours a day, 7 days a week"







Specific Skills

- Detect the patient's nutritional risks and needs from a holistic point of view
- Plan consultations, treatment goals and techniques focused on improving adherence
- Perform dietary planning and assess psychological and quality of life aspects with adapted dietary recommendations
- Plan nutritional treatment based on scientific evidence in pathologies of the digestive system
- Plan nutritional treatment, supplementation and/or substitutes
- Plan menus for collectivities
- Apply dietary measures to improve symptoms and quality of life
- Integrate the concept of sustainability in the recommendation of healthy eating
- Create a flexible and personalized nutritional plan according to the patient's own demands





Management



Dr. Vázquez Martínez, Clotilde

- Corporate Head of the Endocrinology and Nutrition Department, Jiménez Díaz Foundation University Hospital
- Head of the Endocrinology and Nutrition Service at the Ramón y Cajal University Hospital
- Head of the Endocrinology and Nutrition Service at Severo Ochoa University Hospital
- President of the Society of Endocrinology, Nutrition, and Diabetes of the Community of Madrid (SENDIMAD)
- Coordinator of the Therapeutic Education Group of the Spanish Society of Diabetes
- Doctor from the Faculty of Medicine of the Autonomous University of Madrid
- Degree in Medicine and Surgery from the Faculty of Medicine of the University of Valencia
- Specialist in Pediatric Endocrinology and Nutrition via MIR at the Jiménez Díaz Foundation University Hospital
- Abraham García Almansa Clinical Nutrition Lifetime Achievement Award
- Recognized among the 100 best Doctors in Spain according to Forbes list
- Castilla La Mancha Diabetes Foundation (FUCAMDI) Diabetes and Nutrition Lifetime Achievement Award



Dr. Montoya Álvarez, Teresa

- Head of the Endocrinology and Nutrition Service of the Infanta Elena University Hospital
- Head of Volunteering at the Garrigou Foundation
- Graduate in Medicine and Surgery from Universidad de Navarra
- Master in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos
- Course in Bariatric Antecedents of Surgery Patient Emergencies: Key References for the Attending Physician
- Member of: Institute for Health Research Foundation Jiménez Díaz, Health Commission of FEAPS Madrid, Trisomy 2⁻
 Research Society



Dr. Sánchez Jiménez, Álvaro

- Specialist in Nutrition and Endocrinology at Jiménez Díaz Foundation University Hospital
- Nutritionist at Medicadiet
- Clinical Nutritionist Specialized in Prevention and Treatment of Obesity, Diabetes and their Comorbidities
- Nutritionist in the Predimed Plus Study
- Nutritionist at Eroski
- Nutritionist at Axis Clinic
- Professor, Master's Degree in Obesity and Comorbidities, Rey Juan Carlos University
- Professor at the Course of Excellence in Obesity at the Fundación Jimenez Díaz University Hospital
- Graduate in Human Nutrition and Dietetics from the Complutense University of Madrid
- Nutrition and Feeding in the Elderly by Complutense University of Madrid
- Nutrition and Sport for Professionals, Tripartite Foundation
- Refresher Course on Practical Type 1 and 2 Diabetes for Healthcare Professionals

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Professors

Mr. Martínez Martínez, Alberto

- Clinical Nutritionist in the Endocrinology and Nutrition Service of the Infanta Elena Hospital
- Clinical Nutritionist in the Endocrinology and Nutrition Service at the Rey Juan Carlos University Hospital
- Dietitian responsible for the menu of children with food allergy. Gastronomic
- Dietitian Clinical Nutritionist at the University Hospital Antonio
- Degree in Human Nutrition and Dietetics. Fluminense Federal University
- Graduate in Human Nutrition and Dietetics at the University of Valencia
- Master's Degree in Agri-environmental and Agri-food Sciences. Autonomous University of Madrid

Dr. Fernández Menéndez, Amanda

- Doctor Specialist in Pediatric Endocrinology and Nutrition at the Jimenez Diaz Foundation University Hospital
- Medical Specialist in Pediatrics, Doctor Castroviejo Health Center (SERMAS)
- Attending Physician Specializing in Pediatric Endocrinology and Nutrition at La Paz University Hospital
- International Cooperation in Health and Development in India (development of health projects in the field)
- Degree in Medicine and Surgery from the Autonomous University of Madrid
- Master in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos
- Expert in Clinical Bioethics from the Complutense University

Dr. Hoyas Rodríguez, Irene

- Specialist in Endocrinology and Nutrition
- Specialist in Endocrinology and Nutrition at the Fundación Jiménez Díaz and Infanta Elena Hospitals
- Specialist in Endocrinology and Nutrition at the Beata María Ana Hospital
- Specialist in Endocrinology at the University Hospital 12 de Octubre
- · Degree in Medicine from the Complutense University of Madrid
- Postgraduate course in Treatment of Diabetes Mellitus Type 2 at the Autonomous University of Barcelona

Dr. Núñez Sanz, Ana

- · Dietitian and Nutritionist Expert in Pregnancy, Breastfeeding and Infancy
- López-Nava Obesity Nutritionist
- Nutritionist at Medicadiet
- Dietitian and nutritionist Freelance
- · Dietitian and nutritionist at MenuDiet SL
- Contributor on food and nutrition in Castilla La Mancha Television
- Promoter of talks and workshops on healthy eating for kindergartens, schools and companies
- Graduate in Human Nutrition and Dietetics at the Complutense University of Madrid
- Master's Degree in Nutrition and Health at the Open Official of Catalonia

Dr. Prieto Moreno, Ana

- Nutritionist in the Department of Endocrinology and Nutrition at Jimenez Foundation University Hospital
- Nutritionist at the General Hospital of Villalba
- Nutritionist at the Infanta Elena University Hospital
- Nutritionist at the Superior Sports Council
- Nutritionist at WWF
- Nutritionist at Medicadiet
- Nutritionist at Sanitas Sociedad Anónima de Seguros
- Nutritionist at the La Paz University Hospital
- Nutritionist at Mapfre Foundation
- Nutritionist at Copernal Publishing
- Nutritionist at Diabetes Magazine
- Master's Degree in Obesity and its Comorbidities, Prevention Strategies, Diagnosis and Integral Treatment at the University of Alcalá
- Master's Degree in Physical Anthropology, Human Evolution and Biodiversity at the Complutense University of Madrid
- Degree in Human Nutrition and Dietetics at the Autonomous University of Madrid

Ms. Yela Salguero, Clara

- Dietitian Coordinator of Clinical Trials
- Dietitian at the Jimenez Díaz Foundation Hospital
- Clinical Trials Coordinator at the Ramón y Cajal Hospital
- Dietitian at the Severo Ochoa Hospital, in Leganés
- Dietitian in the Integral Obesity Treatment Unit at the San José Hospital in Madrid
- Postgraduate Certificate in Human Nutrition and Dietetics at Alfonso X El Sabio University
- Degree in Food Science and Technology at the Complutense University of Madrid

Dr. Sanz Martínez, Enrique

- Clinical Nutritionist at the University Hospital General de Villalba and Rey Juan Carlos University Hospital
- Dietitian in the project PLUS researcher in the Health Research Institute of the Jiménez Diaz Foundation
- $\bullet\,$ Researcher and collaborator in the NUTRICOVID study
- Researcher and collaborator in the cross-sectional prospective OBESTIGMA study
- Graduate in Human Nutrition and Dietetics at the Complutense University of Madrid
- Master's Degree in Clinical Nutrition at the Catholic University of San Antonio in Murcia
- Master's Degree in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos

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Ms. López Escudero, Leticia

- Nutritionist at Diet La Clinic
- Clinical Dietitian and Nutritionist at Jiménez Díaz Foundation University Hospital
- Dietitian and Clinical Nutritionist at the Infanta Elena University Hospital
- Professor in Degree Studies of Human Nutrition and Dietetics
- Graduate in Human Nutrition and Dietetics at the Complutense University of Madrid
- Master's Degree in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos
- Master's Degree in Nutrition in Physical Activity and Sport from the Open University of Catalunya (UOC)

Dr. Alcarria Águila, María del Mar

- Clinical Nutritionist at Medicadiet
- Clinical Nutritionist in Obesity at López-Nava
- Dietitian and nutritionist at Predimed-Plus
- Degree in Human Nutrition and Dietetics from the Complutense University of Madrid
- Master's Degree in Sports Nutrition and Training from the Institute of Nutrition and Health Sciences (ICNS)

Dr. Gutiérrez Pernia, Belén

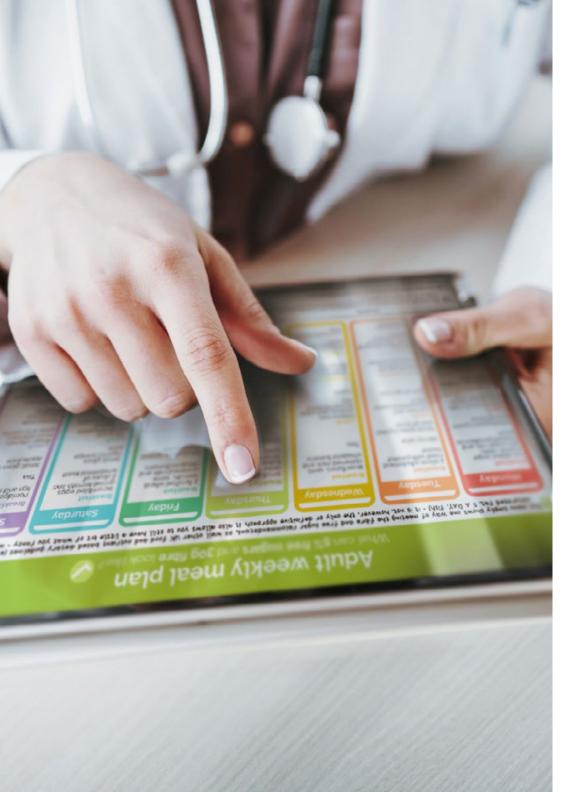
- Obesity Nutritionist at Medicadiet
- López-Nava Obesity Nutritionist. Madrid
- Dietitian and Nutritionist in Research Projects of Predimed Plus
- Degree in Human Nutrition and Dietetics from the Autonomous University of Madrid.
- Master's Degree in Clinical Nutrition and Endocrinology at the Institute of Nutrition and Health Sciences.

Ms. Labeira Candel, Paula

- Clinical Nutritionist in the Bariatric Endoscopy Unit at HM Hospitales
- Sports and Clinical Nutritionist at the Quirónsalud Clinic of the Overweight and Obesity Institute
- Nutritionist Sports and Clinical at Medicadiet, Slimming & Nutrition
- Sports Nutritionist at CF TrivalValderas de Alcorcón
- Food and water quality analyst in the Andalusian Health Service.
- Diploma in Human Nutrition and Dietetics at the Pablo Olavide University of Seville
- Bachelor 's Degree in Food Science and Technology.
- Diploma in Human Nutrition and Dietetics
- Master's Degree in Sports Training and Nutrition at the European University of Madrid

Ms. Manso del Real, Paula

- Deputy Director of Nursing at the Íñigo Álvarez de Toledo Renal Foundation
- Nursing Supervisor of the Dialysis Unit of the Íñigo Álvarez de Toledo Renal Foundation
- Nephrology Nurse at the Nephrology Unit of the Fundación Jiménez Díaz University Hospital
- Diploma in Nursing at the Francisco de Vitoria University
- Degree in International Cooperation and Health Promotion at the Francisco de Vitoria University
- Degree in International Cooperation and Health Promotion at the Francisco de Vitoria University
- Master's Degree in Hemodialysis for Nurses at the Complutense University of Madrid



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Dr. Miguélez González, María

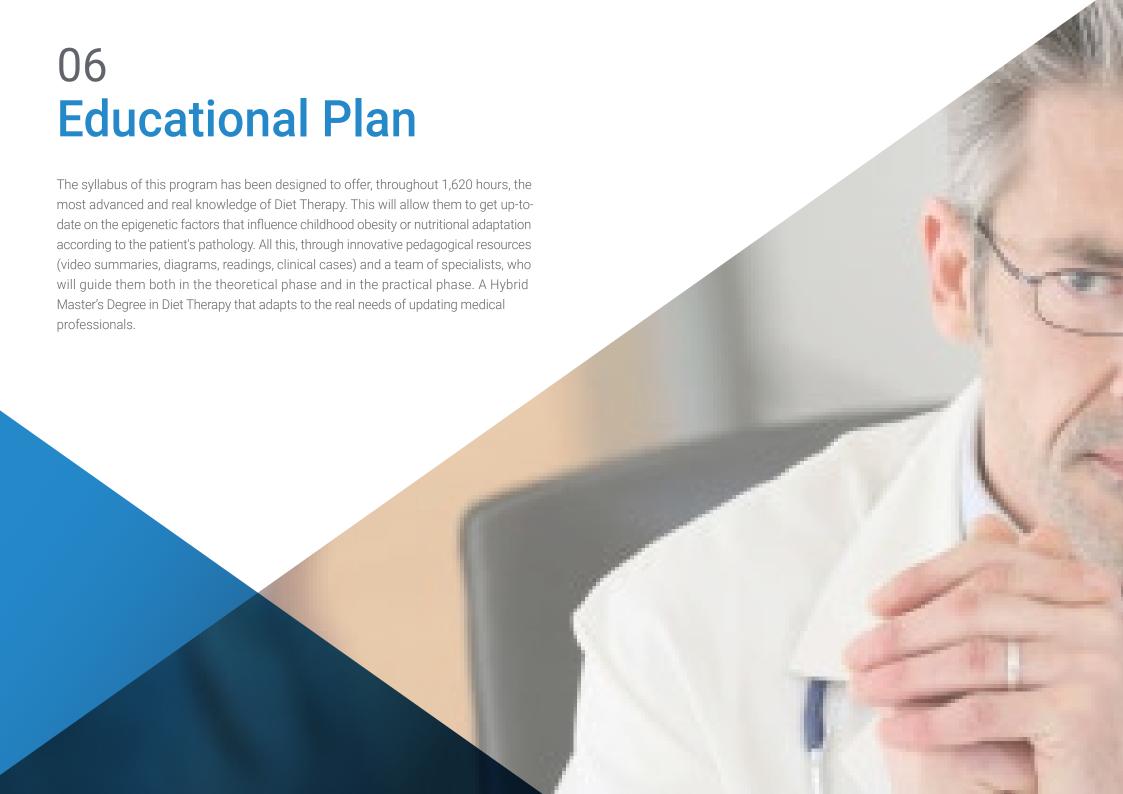
- Attending Physician of Endocrinology and Nutrition at the Fundación Jiménez Díaz University Hospital in Madrid
- Degree in Medicine from the University of Valladolid
- Teaching collaborator in seminars for students at the Complutense University of Madrid
- Professor of the Master Expert in Obesity and Metabolic Complications, endorsed by SEEDO.

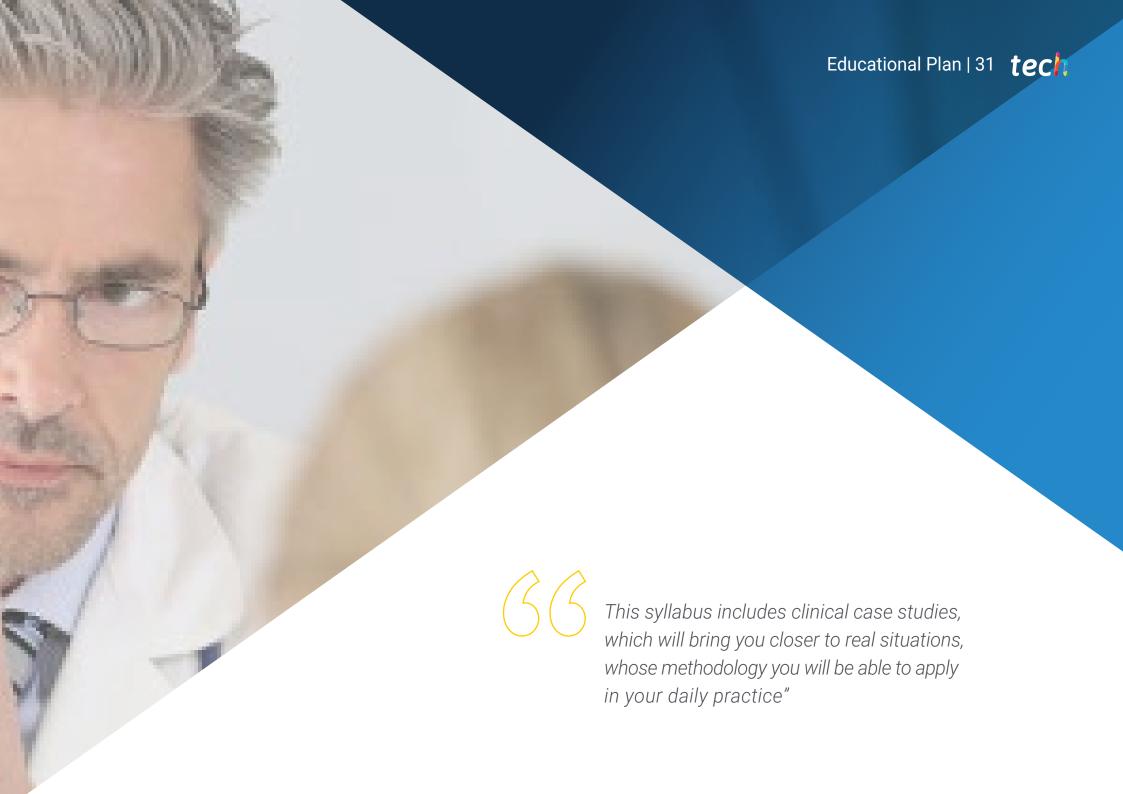
Dr. Modroño Móstoles, Naiara

- Specialist in Endocrinology
- Medical Specialist in Endocrinology at the Jiménez Díaz Foundation University Hospital
- Medical Specialist in Endocrinology at the Infanta Elena University Hospital
- Medical Specialist in Endocrinology at the University Hospital of Getafe
- Author of various articles published in scientific journals
- Postgraduate Certificate in Treatment of Diabetes Mellitus Type 2 at the Autonomous University of Barcelona

Dr. González Toledo, Beatriz María

- Nurse expert in Hemodialysis and Nutrition and Health.
- Nephrology Nurse Unit of the Fundación Jiménez Díaz Hospital
- Nurse Director of Dialysis at the Íñigo Álvarez de Toledo Renal Foundation
- Master's Degree in Hemodialysis for Nurses at the Complutense University of Madrid
- Master's Degree in Nutrition and Health at the Open University of Catalonia.
- Postgraduate Diploma in Peritoneal Dialysis for Nurses at Cardenal Herrera University.
- Graduate in Nursing from the Autonomous University of Madrid.





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Module 1. Nutrition, Health and Disease Prevention: Current Issues and Recommendations for the General Population

- 1.1. Feeding Habits in the Current Population and Health Risks
- 1.2. Mediterranean and Sustainable Diet
 - 1.2.1. Recommended Dietary Pattern
- 1.3. Comparison of Dietary Patterns or "Diets"
- 1.4. Nutrition in Vegetarians
- 1.5. Childhood and Adolescence
 - 1.5.1. Nutrition, Growth and Development
- 1.6. Adults
 - 1.6.1. Nutrition for the Improvement of Quality of Life
 - 1.6.2. Prevention
 - 1.6.3. Treatment of disease
- 1.7. Pregnancy and Lactation Recommendations
- 1.8. Recommendations in Menopause
- 1.9. Advanced Age
 - 1.9.1. Nutrition in Aging
 - 1.9.2. Changes in Body Composition
 - 1.9.3. Abnormalities
 - 1.9.4. Malnutrition
- 1.10. Nutrition in Athletes

Module 2. Assessment of Nutritional Status and Calculation of Personalized Nutritional Plans, Recommendations and Monitoring

- 2.1. Medical History and Background
 - 2.1.1. Individual Variables Affecting Nutritional Plan Response
- 2.2. Anthropometry and Body Composition
- 2.3. Assessment of Eating Habits
 - 2.3.1. Nutritional Assessment of Food Consumption
- 2.4. Interdisciplinary Team and Therapeutic Circuits
- 2.5. Calculation of Energy Intake
- 2.6. Calculation of Recommended Macro- and Micronutrient Intakes

- 2.7. Quantity and Frequency of Food Consumption Recommendations
 - 2.7.1. Dietary Patterns
 - 2.7.2. Educational
 - 2.7.3. Distribution of Daily Feedings
- 2.8. Diet Planning Models
 - 2.8.1. Weekly Menus
 - 2.8.2. Daily Intake
 - 2.8.3. Methodology by Food Exchanges
- 2.9. Hospital Nutrition
 - 2.9.1. Dietary Models
 - 2.9.2. Decision Algorithms
- 2.10. Educational
 - 2.10.1. Psychological Aspects
 - 2.10.2. Maintenance of Feeding Habits
 - 2.10.3. Discharge Recommendations

Module 3. Nutrition in Overweight, Obesity and their Comorbidities

- 3.1. Pathophysiology of Obesity
 - 3.1.1. Precision Diagnosis
 - 3.1.2. Analysis of Underlying Causes
- 3.2. Phenotypic Diagnosis
 - 3.2.1. Body Composition and Calorimetry and Impact on Personalized Treatment
- 3.3. Treatment Target and Hypocaloric Diet Models
- 3.4. Prescription of Physical Exercise in Overweight and Obesity
- 3.5. Psychology Associated with Slimming Nutrition: Psychonutrition
- 3.6. Comorbidities Associated with Obesity
 - 3.6.1. Nutritional Management in Metabolic Syndrome
 - 3.6.2. Insulin Resistance
 - 3.6.3. Type 2 Diabetes and Diabesity
- 3.7. Cardiovascular Risk and Nutritional Adaptations in Hypertension, Dyslipidemias and Atherosclerosis
- 8.8. Digestive Pathologies Associated with Obesity and Dysbiosis
- Pharmacological Treatment in Obesity and Drug-Nutrient Interactions and Adaptation
 of the Nutritional Plan

3.10. Bariatric and Endoscopic Surgery

3.10.1. Nutritional Adaptations

Module 4. Nutrition in Childhood and Adolescence

- 4.1. Causes and Interrelated Factors of Childhood Obesity
 - 4.1.1. Obesogenic Environment in Childhood
 - 4.1.2. Assessment of Individual, Family and Socioeconomic Problems
- 4.2. Risks of Childhood Obesity
 - 4.2.1. Prevention and Adapted Diet Therapy
 - 4.2.2. Physical Activity and Physical Exercise
- 4.3. Nutritional Education
 - 4.3.1. Nutritional Recommendations
 - 4.3.2. Personalized Calculation of Plans for the Treatment of Childhood and Adolescent Obesity
- 4.4. Dietary Patterns and Food Recommendations
 - 4.4.1. Consultation Tools
- 4.5. Genetic Alterations and Predisposition to Obesity in Children and Adults
- 4.6. Prevention and Management of Other Eating Disorders in Children and Adolescents
- 4.7. Psychological Aspects of Childhood Obesity in Nutritional Consultation
- 4.8. Nutrition in Special Situations: Celiac Disease. Food Allergy
- 4.9. Nutrition in Special Situations: Diabetes and Dyslipemia
- 4.10. Nutrition and Growth Disorders
 - 4.10.1. Nutrition in Later Stages of the Preterm or SGA Patient

Module 5. Nutrition in Dysfunctions and Pathologies along the Digestive Tract

- 5.1. Digestive History, and Assessment of Variables, Symptomatology and Previous Eating Habits
- 5.2. Mouth: Nutrition in Mucositis, Xerophthalmia, Dysphagia, and Oral Dysbiosis
- 5.3. Esophagus: Nutrition in Gastroesophageal Reflux Disease and Barret's Esophagus
- 5.4. Stomach: Nutrition in Gastritis, Hiatus Hernia, Dyspepsia, Helicobacter Pylori Infection
- 5.5. Constipation and Symptomatology
 - 5.5.1. Associated Pathologies
- 5.6 Acute and Chronic Diarrhea
- 5.7. Inflammatory Bowel Diseases

- 5.8. Differentiation between Malabsorption, Intolerances and Allergies
 - 5.8.1. Enzyme Deficiency and Immune System
 - 5.8.2. Diet Low in Histamine and DAO Deficiency
- 5.9. Dysbiosis, Bacterial Overgrowth and Nutrient Malabsorption
- 5.10. Celiac Disease and Non-Celiac Gluten Sensitivity (NCGS)

Module 6. Nutrition in Renal, Hepatic and Pancreatic Diseases

- 6.1. Nutrients
 - 6.1.1. Enzymatic Activity, Metabolism, Filtration and Diuresis
- 6.2. Habits, Risks, Previous and Causative Comorbidities, and Assessment of Feeding Habits
- 6.3. Nutrition in CKD: Predialysis
- 6.4. Nutrition in CKD: Dialysis: Renal Transplantation
- 5.5. Diabetic Nephropathy
- 6.6. Renal Lithiasis
- 6.7. Pancreatic Insufficiency
- 6.8. Non-Alcoholic Hepatic Steatosis, Fibrosis, Hepatic Cirrhosis and Vesicular Lithiasis
- 6.9. Modulation of the Intestinal Microbiota in Renal, Pancreatic and Hepatic Pathology
- 6.10. Psychological Aspects and Planning of Objectives and Consultations

Module 7. Nutrition in Endocrine-Metabolic and Autoimmune Pathologies

- 7.1. Type 1 Diabetes
 - 7.1.1. Nutrition in Insulin-Dependent Patients
- 7.2. Insulin Resistance and Type 2 Diabetes
- 7.3. Nutrition in Thyroid Disorders
 - 7.3.1. Hypothyroidism
 - 7.3.2. Hyperthyroidism
- 4. Nutrition and Circadian Rhythms: Chronobiology
- 7.5. Nutrition in the Physiological Menstrual Cycle and its Alterations
 - 7.5.1. Amenorrea
 - 7.5.2. Polycystic Ovary Syndrome
 - 7.5.3. Endometriosis
- 7.6. Nutrition in Autoimmune Pathology
 - 7.6.1. Rheumatoid Arthritis
 - 7.6.2. Psoriasis
 - 7.6.3. Lupus

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- 7.7. Muscle
 - 7.7.1. Sarcopenia
- 7.8. Bone Health
 - 7.8.1. Osteopenia
 - 7.8.2. Osteoporosis
- 7.9. Nutrition in Pulmonary Pathologies
 - 7.9.1. Cystic fibrosis
 - 7.9.2. COPD
 - 7.9.3. Obstructive Sleep Apnea Syndrome (OSAS)
- 7.10. Chronic Fatigue, Anemia and Vitamin D Deficiency

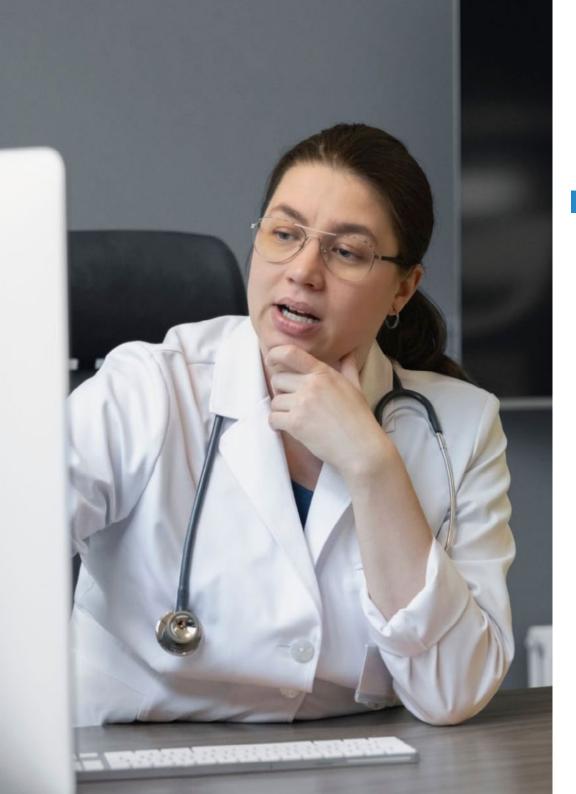
Module 8. Nutrition in Nervous System Pathologies

- 8.1. Nutrition in the Prevention of Cognitive Impairment, Dementia and Alzheimer's Disease
- 8.2. Nutrition and Psychoaffective Pathologies
 - 8.2.1. Depression
 - 8.2.2. Bipolar Disorder
- 8.3. Pathologies with Altered Eating Behavior
 - 8.3.1. Schizophrenia
 - 8.3.2. Borderline Personality Disorder
- 8.4. Eating Disorder
 - 8.4.1. Anorexia
 - 8.4.2. Bulimia
 - 8.4.3. BED
- 8.5. Nutrition in Degenerative Pathologies
 - 8.5.1. Multiple Sclerosis
 - 8.5.2. Amyotrophic Lateral Sclerosis
 - 8.5.3. Muscular Dystrophies
- 8.6. Nutrition in Pathologies with Uncontrolled Movement
 - 8.6.1. Parkinson's Disease
 - 8.6.2. Huntington's Disease
- 8.7. Nutrition in Epilepsy

- 8.8. Nutrition in Neuralgias
 - 8.8.1. Chronic Pain
- 8.9. Nutrition in Severe Neurological Injuries
- 8.10. Toxics, Bioactive Compounds, Intestinal Microbiota and their Relationship to Nervous System Diseases

Module 9. Oncology Patient Nutrition

- 9.1. Pathophysiology of Cancer
- 9.2. Relationship of Cancer with Eating Habits and Potential Carcinogens
- 9.3. Assessment of Nutritional Status in the Oncologic Patient
- 9.4. Nutrient-Antineoplastic Treatment Interaction
 - 9.4.1. Specific Changes in the Most Frequently Used Antineoplastic Agents
- 9.5. Psychological Aspects in the Patient and General Nutritional Recommendations in the Oncology Patient
- Nutrition in the Appetite and Swallowing Alterations Caused by the Pathology or Treatments
 - 9.6.1. Anorexia
 - 9.6.2. Dysgeusia
 - 9.6.3. Dysphagia
 - 9.6.4. Mucositis
 - 9.6.5. Xerostomia
- 9.7. Nutrition in Digestive Disorders Caused by Pathology or Treatments
 - 9.7.1. Malabsorption
 - 9.7.2. Diarrhea
 - 9.7.3. Dysbiosis
 - 9.7.4. Constipation
- 9.8. Nutrition in Metabolic Alterations Caused by the Pathology: Cachexia
- 9.9. Nutrition Before and After Oncological Surgery
 - 9.9.1. Head and Neck
 - 9.9.2. Esophageal
 - 9.9.3. Gastric
 - 9.9.4. Pancreaticobiliary
 - 9.9.5. Small and Large Intestine



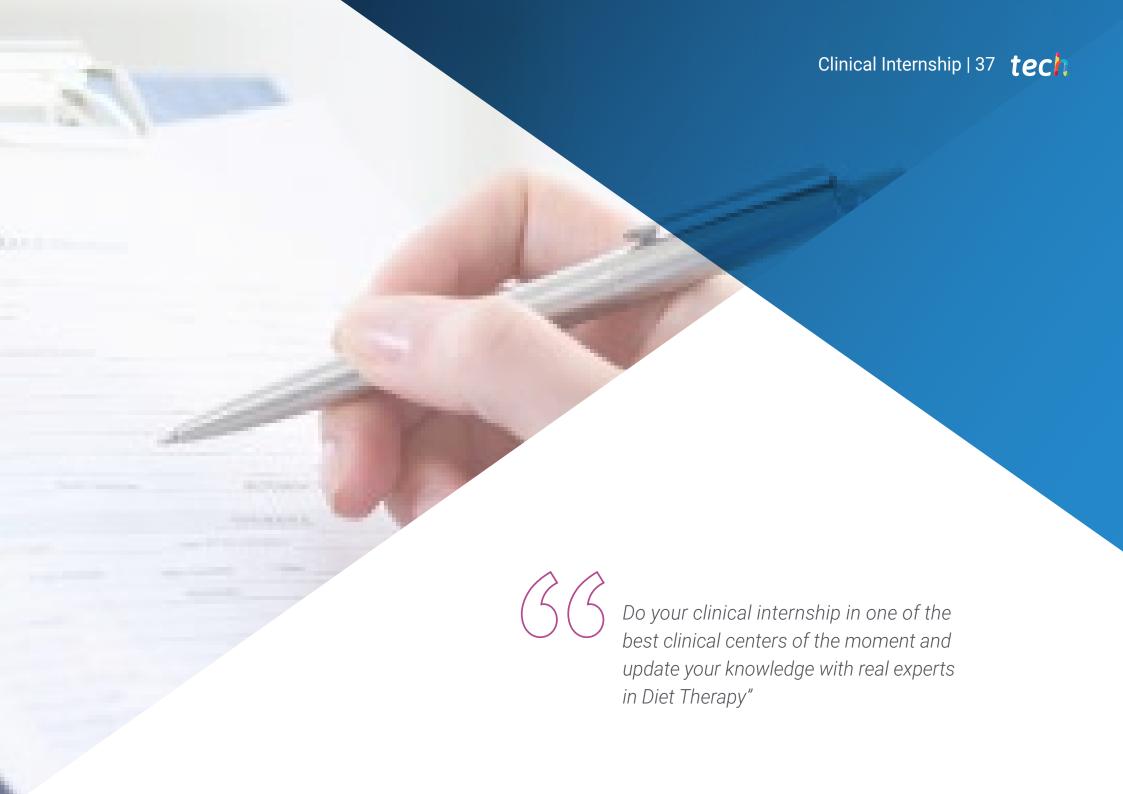
- 9.10. Hospital Nutrition
 - 9.10.1. Oral
 - 9.10.2. Enteral
 - 9.10.3. Parenteral

Module 10. Nutrition for Health, Equity and Sustainability

- 10.1. Sustainable Nutrition, Food Variables Influencing the Ecological Footprint
 - 10.1.1. Carbon Footprint
 - 10.1.2. Water Footprint
- 10.2. Food Waste as an Individual Problem and as a Problem Associated with the Food Industry
- 10.3. Biodiversity Loss at Different Levels and its Impact on Human Health: Microbiota
- 10.4. Toxics and Xenobiotics in Food and their Effects on Health
- 10.5. Current Food Legislation
 - 10.5.1. Labeling, Additives and Regulatory Proposals in Marketing and Advertising
- 10.6. Nutrition and Endocrine Disruptors
- 10.7. The Global Obesity and Malnutrition Epidemic, Associated with Inequity:
 "A Planet of Fat and Hungry People"
- 10.8. Feeding in Childhood and Youth and Habits Acquisition in Adulthood10.8.1. Ultraprocessed Foods and Beverages Other Than Water: A Population Problem
- 10.9. Food Industry, Marketing, Advertising, Social Networks and their Influence on Food Choice
- 10.10. Healthy, Sustainable and Non-Toxic Food Recommendations: Policy







tech 38 | Clinical Internship

This Hybrid Master's Degree includes an intensive internship in a prestigious clinical center. A professional environment where the physician will be, from Monday to Friday, in 8 consecutive hours shifts, working and updating their knowledge with the best experts in the area of Diet Therapy.

This stay will allow them to deal with real patients with a team of reference professionals in this field, applying the most innovative diagnostic procedures and planning the latest generation of therapy in each pathology. Therefore, in an active way, the medical professional will be able to carry out an up-to-date in the planning and nutritional adaptation to the patient, depending on the pathologies they suffer from and their characteristics.

TECH offers, this way, an excellent opportunity to access to an innovative environment, where the latest technology is used for the diagnosis and intervention of the patient. An environment that also becomes an ideal scenario for specialists to improve their skills in Diet Therapy, through a unique practical experience.

The practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of knowledge (learning to learn and learning to do), with the accompaniment and guidance of teachers and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for the practice of medicine in the field of Diet Therapy (learning to be and learning to relate).





Clinical Internship | 39 tech

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

Module	Practical Activity
Nutritional Assessments	Assist in performing comprehensive nutritional assessments that take into account the psychological, social and pathological aspects of the patient
	Participate in the adaptation of dietary plans to the most recent advances in Diet Therapy
	Collaborate in the detection of the patient's nutritional risks and needs from a holistic point of view
	Analyze the patient's motivational elements and adapt the nutritional planning to them
Nutritional Planning	Collaborate in the application of diets and dietary planning in prevention, clinical and educational environments
	Assist in planning consultations, treatment goals and techniques aimed at improving adherence
	Provide support for dietary planning and assess psychological and quality of life aspects with adapted dietary recommendations
	Implement healthy eating recommendations integrating the concept of sustainability
Management of the Patient with Obesity	Assist in the calculation and individually prescribe the different models of low-calorie diets
	Cooperate with the multidisciplinary obesity team in the planning of consultations
	Support in the assessment of the clinical case, interpretation of causes of overweight and obesity
	Contribute in the creation of a flexible and personalized nutritional plan taking into account all the variables and demands of the patient
Approach the Patient with Different Pathologies	Carry out a complete patient assessment and plan nutritional treatment based on digestive system pathologies
	Participate in the planning of nutritional treatment, supplementation and / or substitutes
	Participate in the planning and implementation of dietary measures to improve symptoms and quality of life
	Support adapted nutritional recommendations in different pathologies (renal, hepatic, endocrine-metabolic, nervous system)

Civil Liability Insurance

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

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

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



General Conditions for Practical Training

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

- 1. TUTOR: During the Hybrid Master's Degree, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.
- 2. DURATION: The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.
- 3. ABSENCE: If the students does not show up on the start date of the Hybrid Master's Degree, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship.

 Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

- **4. CERTIFICATION**: Professionals who pass the Hybrid Master's Degree will receive a certificate accrediting their stay at the center.
- **5. EMPLOYMENT RELATIONSHIP:** The Hybrid Master's Degree shall not constitute an employment relationship of any kind.
- **6. PRIOR EDUCATION**: Some centers may require a certificate of prior education for the Hybrid Master's Degree. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed
- 7. DOES NOT INCLUDE: The Hybrid Master's Degree will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed

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



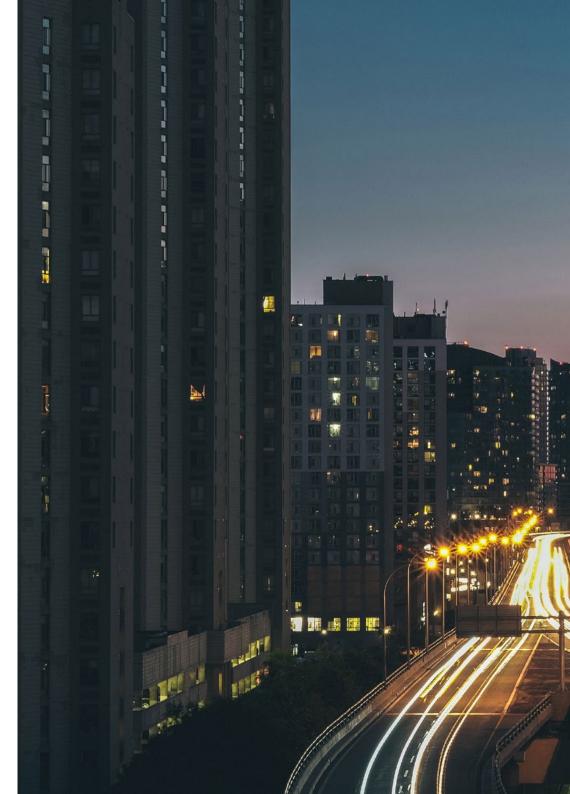


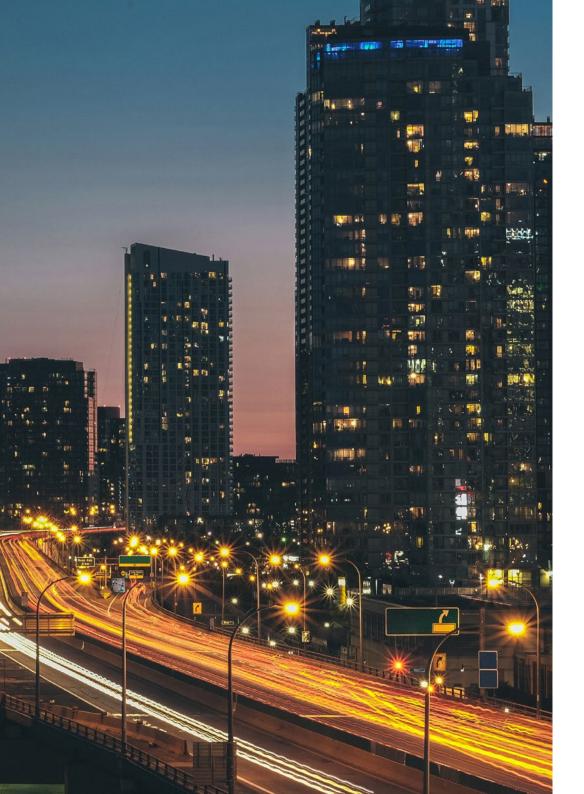
tech 44 | Where Can I Do the Clinical Internship?



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







Where Can I Do the Clinical Internship? | 45 tech



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





tech 48 | Methodology

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 | 51 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.

tech 52 | Methodology

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

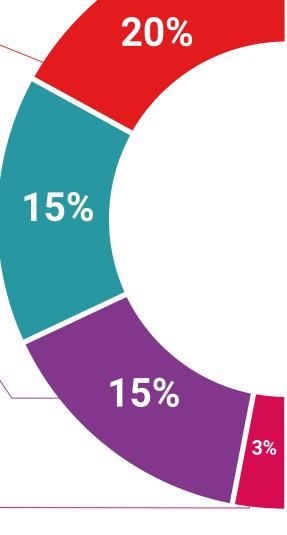
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many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

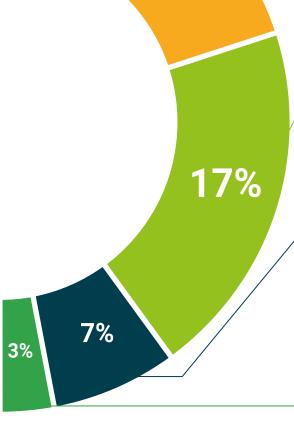
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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 56 | Certificate

This program will allow you to obtain your **Hybrid Master's Degree diploma in Diet Therapy** 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.

Mr./Ms. ______ with identification document ______ has successfully passed and obtained the title of:

Hybrid Master's Degree in Diet Therapy

This is a program of 1.620 hours of duration equivalent to 65 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

This **TECH Global University** title 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: Hybrid Master's Degree in Diet Therapy

Course Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

Recognition: **60 + 5 ECTS Credits**



^{*}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.

tech global university



Hybrid Master's Degree Diet Therapy

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 créditos ECTS

