

# Postgraduate Certificate

Innovation, Quality of Life, Training  
and Clinical Management  
in Bariatric Surgery





## Postgraduate Certificate

Innovation, Quality of Life,  
Training and Clinical  
Management in  
Bariatric Surgery

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/innovation-quality-life-training-clinical-management-bariatric-surgery](http://www.techtute.com/us/medicine/postgraduate-certificate/innovation-quality-life-training-clinical-management-bariatric-surgery)

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# 01

# Introduction

Bariatric surgery is a development field consisting of various surgical innovation techniques, such as robotic surgery, single-port surgery or surgery without incisions. All of which is always aimed at improving patient quality of life. Nevertheless, that cannot only be achieved through bariatric procedures, postoperative psychological support is also essential. Correcting aesthetic sequelae due to excessive dermal fat after weight loss also has its place in the pursuit of this objective.

Experience with us a unique training provided by professionals with extensive experience in the field.





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*The Postgraduate Certificate was created to take the professional through the essential knowledge in each and every one of the areas that make up a high-level Bariatric Unit”*

Although the clinical benefit of bariatric surgery in morbidly obese patients is evident, the fact that surgical procedures per se entail a high economic cost should also be taken into account. Even so, several cost-benefit studies support bariatric surgery as efficient techniques with a reduction in health care costs in the medium to long term. However, this leads to an increase in the number of indications and, therefore, the demand for these surgeries exceeds healthcare system possibilities to cater for it, which generates a waiting list, so prioritization criteria must be established for proper management.

The increase in demand also leads to the creation of more and more surgical groups. Given that laparoscopic bariatric surgery is a technically complex procedure, adequate training must be ensured through programs that use animals and cadavers in order to perform the surgical procedures correctly, meeting quality standards.

Lastly, the high demand for surgery has led many patients to emigrate to other countries to undergo the procedure, which has resulted in the phenomenon known as bariatric tourism.

This Postgraduate Certificate in Innovation, Quality of Life, Training and Clinical Management in Bariatric Surgery offers you the advantages of a high-level scientific, teaching, and technological course. These are some of its most notable features:

This **Postgraduate Certificate in Innovation, Quality of Life, Training and Clinical Management in Bariatric Surgery** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ Latest technology in online teaching software.
- ♦ Highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand.
- ♦ Practical cases presented by practising experts.
- ♦ State-of-the-art interactive video systems.
- ♦ Teaching supported by telepractice.
- ♦ Continuous updating and recycling systems.
- ♦ Self-regulating learning: full compatibility with other occupations.
- ♦ Practical exercises for self-evaluation and learning verification.
- ♦ Support groups and educational synergies: questions to the expert, debate and knowledge forums.
- ♦ Communication with the teacher and individual reflection work.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.
- ♦ Supplementary documentation databases are permanently available, even after the course.



*A unique training program  
with which you can achieve  
professional success”*

“*The professors for this Postgraduate Certificate have been selected based on two criteria: the excellence of their medical practice in the field of the creation, promotion and maintenance of bariatric units, and their proven didactic capacity. All in order to offer you the high quality training program that you need”*

Our teaching staff is composed of medical professionals, practising specialists. That way we can be sure to offer you the training update we aim to provide. A multidisciplinary team of professors with training and experience in different settings, who will develop theoretical knowledge effectively, but, above all, will bring their practical knowledge derived from their own experience to the course: one of the differential qualities of this program.

This mastery of the subject is complemented by the effectiveness of the methodology used in the design of this course. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your training.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

*With a methodological design based on proven teaching techniques, this Postgraduate Certificate will take you through different teaching approaches to allow you to learn in a dynamic and effective way.*

*Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster integration and a much more realistic view of the contents: learning from an expert.*



# 02 Objectives

This program aims to train highly qualified professionals for the workplace. An objective that is complemented, moreover, in a global manner, by promoting human development that lays the foundations for a better society. This objective is focused on helping surgical professionals reach a much higher level of expertise and control, meeting all the requirements in the field of bariatric surgery. A goal that, in just a few months, you will be able to achieve with a highly intensive and precise course.







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*Our goal is yours: to provide you with the best online training and specialization course in Bariatric Surgery on the market. A highly qualified step, from the hands of the best professionals in this specialty”*



## General Objectives

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- Obtain a general vision of the psychotherapy approach in postoperative follow-up care
- Know the criteria used for the initial assessment of a patient with esthetic consequences of obesity after bariatric surgery
- Establish quality standards and appropriate training programs
- Identify the most recent technical advances (robotic surgery and NOTES)



*Achieve your goals by keeping up to date with the latest techniques and medical advances in the field of bariatric surgery through a highly demanding Postgraduate Certificate”*





## Specific Objectives

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- ♦ Analyze the psychological profile of the “bariatric patient” and there difficulties in adapting to the postoperative process.
- ♦ Learn about the process of psychological evaluation and intervention following surgery aimed at enhancing the benefits of surgery and reduce the risk of weight regain.
- ♦ Identify the most common areas of the body affected by excess skin following weight loss.
- ♦ Know the most relevant surgical techniques used according to the affected area, to remove skin excesses.
- ♦ Identify the benefits of robotic surgery and NOTES.
- ♦ Establish the criteria for prioritizing patients on the surgical waiting list.
- ♦ Analyze the cost benefit relationship in bariatric surgery.
- ♦ Establish quality standards.
- ♦ Assess the advantages and disadvantages of bariatric tourism.
- ♦ Identify quality of life indicator parameters.
- ♦ Weigh up the pros and cons of different surgical training methods.

03

# Course Management

For our Postgraduate Certificate to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record in the field of Bariatric Surgery. A multidisciplinary team, made up of professionals who will contribute their vision and experience to this comprehensive course. A unique opportunity to learn from the best.





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*Your professors in this Postgraduate Certificate will be a team of professionals with solid backgrounds: a unique opportunity to learn directly from the best in the field”*

## International Guest Director

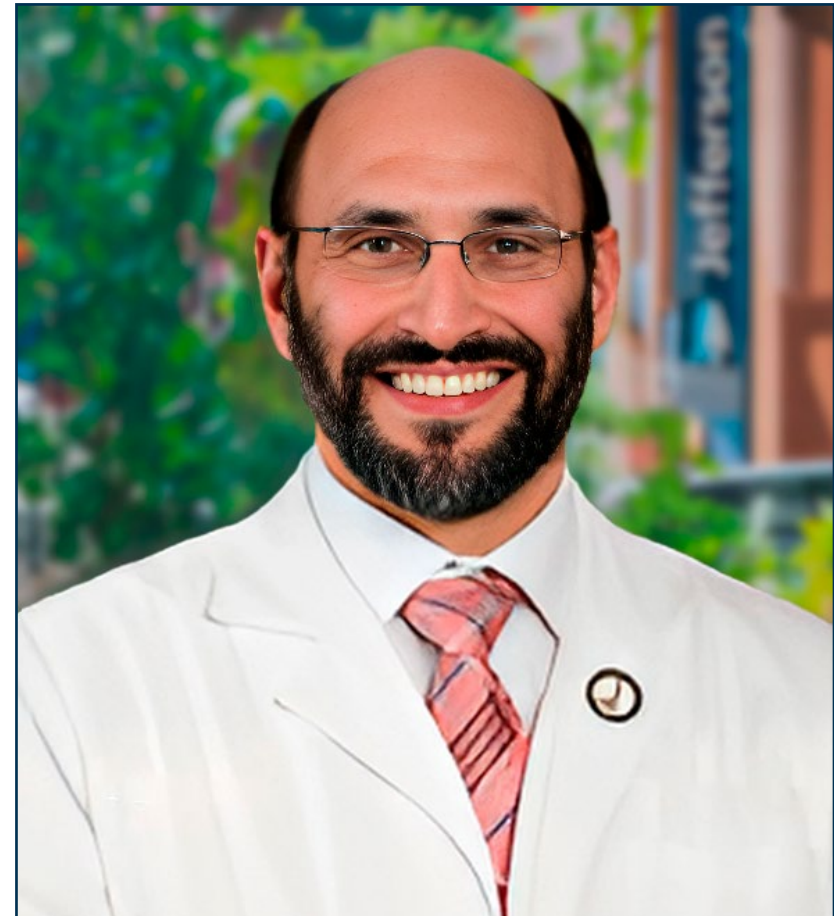
Dr. Alec Beekely is an international eminence in Bariatric and Metabolic Surgery. Throughout his career, this specialist has mastered the most disruptive tools and procedures to intervene patients with pathologies such as Morbid Obesity, Diabetes, among others. Thanks to his extensive experience and continuous updating, he has become the Director of the surgical program, focused on this area, at Thomas Jefferson University Hospital in the United States.

At the same time, the expert maintains close ties with the Trauma and Intensive Care Service of the same health institution. Through this work, he has performed operations on people in serious or acute conditions and, in turn, supervises the progress of residents and interns under his care. In addition, he is an instructor of Advanced Life Support in Trauma.

Similarly, his research career has been linked to clinical analysis projects. In particular, Dr. Beekley has addressed in depth the management of the Roux-en-Y gastric bypass technique and its subsequent outcomes such as weight loss and ulceration. He is also a scientific reviewer for multiple peer-reviewed journals such as Surgery for Obesity and Related Diseases and the Journal of Trauma.

On the other hand, this specialist has a long career in the medical-war context. His beginnings in the field of military surgery have been linked to combat and extreme situations such as the wars in Afghanistan and Iraq. Given his merits in this complex field, he has received various awards such as the Bronze and Meritorious Service Medals awarded by his country's army.

Dr. Beekley has also been an active member of several scientific societies and committees. In this way, through his intense healthcare management, he has become a true reference in world medicine..



## Dr. Beekley, Alec

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- Director of the Metabolic and Bariatric Surgery Program at Thomas Jefferson University Hospital
- Advanced Life Support Instructor in the Trauma and Intensive Care Service at Thomas Jefferson University Hospital
- Director of the Combat Casualty Research Team at the 28th Combat Support Hospital in Baghdad, Iraq
- Staff Surgeon General, 102nd Forward Surgical Team, Kandahar, Afghanistan
- General Surgeon, Madigan Army Medical Center, Tacoma
- General Surgeon at Blanchfield Army Community Hospital in Kentucky
- M.D., Case Western Reserve University



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

## Management



### Dr. Priego Jiménez, Pablo

- Specialist Physician, Department of General and Digestive System Surgery, Ramón y Cajal University Hospital (Madrid). Esophagogastric, Bariatric and Minimally Invasive Surgery Unit (January 2015-...)
- PhD in Medicine from the University of Miguel Hernández de Elche (2013). (Outstanding "Cum Laude")
- Fellowship in Gastric Oncology Surgery in the "Gastric Cancer Department" in the Cancer Institute Hospital (Tokyo) with Professor Takeshi Sano (July 2018).
- Fellowship in Esophagogastric and Minimally Invasive Oncological Surgery in the Division of Esophageal and Upper Gastrointestinal Surgery at Queen Mary Hospital, Hong Kong with Professor Simon Law (January-March 2014).
- Degree in Medicine from the Complutense University Madrid (1996 - 2002).
- Master's Degree in Advanced Laparoscopic Surgery. University of Alcalá (2007).
- Master's Degree in Clinical Management, Medical, and Welfare Management. University of CEU(2019)
- Medical Specialist in the Department of General and Digestive System Surgery at the General Hospital of Villalba (Madrid). Esophagogastric and Bariatric Surgery Unit (Oct 2014- Dec 2014)
- Medical Specialist in the Department of General and Digestive System Surgery at the General University Hospital of Castellón. Esophagogastric, Hepatobiliopancreatic and Thoracic Surgery Unit (Jun 2008-Sep 2014).





### Dr. Ruiz-Tovar Polo, Jaime

- Bariatric Surgeon in the Centre for Excellence for the Study and Treatment of Obesity. Valladolid. Bariatric Surgery Unit (2017-2020).
- Faculty Specialist in the Bariatric Surgery Unit. Rey Juan Carlos University Hospital, Madrid (2014-2020).
- Coordinator of the Bariatric Surgery Unit. Elche University General Hospital(2010 -2014)
- Specialist in General and Digestive Surgery. Henares University Hospital Madrid (2019-2020)
- Doctorate in Medicine from the Autonomous University Madrid
- Degree in Medicine from the Autonomous University Madrid.
- Master's Degree in Advanced Laparoscopic Surgery. University of Alcalá
- Specialist in General and Digestive System Surgery
- Diploma of Expert Level Competence by the Spanish Society of Obesity Surgery (SECO).
- Diploma in Obesity and Metabolic Diseases Surgery. European Accreditation Council for Bariatric Surgery of IFSO. 2000 hours.

## Professors

### Dr. Carlos Moreno Sanz

- ♦ Head of Surgery Services at Mancha Centro General Hospital and Tomelloso General Hospital.
- ♦ Specialist in General and Digestive System Surgery with specific focus on Minimally Invasive Surgery and its Innovations.
- ♦ Honorary Member of European Fellowship in Minimally Invasive Surgery.
- ♦ Professor in the International Doctorate School at the University of Castilla La Mancha
- ♦ Professor for the Master's Degree in Coloproctology at the University of Zaragoza and the Master's Degree in Update in General Surgery and Digestive System from the CEU University.

### Dr. Alejandro García Muñoz-Najar

- ♦ Specialist Physician, Department of General and Digestive System Surgery, Rey Juan Carlos University Hospital (Madrid). Abdominal Wall Surgery Unit. Endocrine Surgery Unit. Coordinator of the Bariatric and Metabolic Surgery Unit (2014 - present).
- ♦ Degree in Medicine from the University of Navarra (1988 - 1994).
- ♦ Specialist in General and Digestive System Surgery. 12 de Octubre University Hospital (Madrid) 1995-1999.
- ♦ Medical Specialist in the Department of General and Digestive System Surgery at the University Hospital of Fuenlabrada (Madrid). Endocrine and Bariatric Surgery Unit (2004-2014).

### Dr. Eva Lumbreras

- ♦ Esthetic and Reconstructive Plastic Surgery Physician Specialist from 2008 to the present.
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid in June 1995.
- ♦ Specialist in Family and Community Medicine via RMI at 12 de Octubre Hospital, Madrid (Area 11) 1996-1999.
- ♦ Specialist in Esthetic and Reconstructive Plastic Surgery via RMI at Getafe University Hospital (Area 10) 2002-2008.
- ♦ Completion of doctoral courses and passing the entire program (research proficiency).
- ♦ Accreditation of Personal Competency for performing procedures in animals. Category B and C. Course accredited by the Ministry of Environment. May 2013 (120 hours).
- ♦ Associate Professor at Alfonso X El Sabio University since September 2017 in the Human Anatomy Department.
- ♦ Family Medicine and Primary Care since May 1999 - December 2000 and as an intern in Primary Care at the Abrantes Health Center (Area 11 of Madrid) from May 2001 to June 2003.
- ♦ Attending Physician in the Emergency Department at Alcorcón Foundation Hospital July 1999 - December 2000.

**Dr. Ramón Trullenque Juan**

- ♦ PhD in Medicine from the University of Valencia (2001). (Outstanding Cum Laude).
- ♦ Degree in Medicine from the University of Valencia (1987 - 1993).
- ♦ Master's Degree in Medical and Clinical Management. UNED the Carlos III Health Institute. (2016- 2017).
- ♦ Specialist in General and Digestive System Surgery. Dr Pest University Hospital, Valencia (1995-2000).
- ♦ Complete Training Diploma by the Spanish Society of Obesity Surgery (SECO).
- ♦ Medical Specialist in the Department of General and Digestive System Surgery at the Dr Peset University Hospital of Valencia(2000- 2012) Esophagogastric, Bariatric and Wall Surgery Unit.
- ♦ Head of Esophagogastric, Bariatric and Wall Surgery Department. 2013 - present.

**Dr. José Manuel Laguna Sastre**

- ♦ Head of General and Digestive Surgery Services at the General University Hospital in Castellón. Since February 2020 to present.
- ♦ Degree in Medicine and Surgery from the University of Valladolid in 1986.
- ♦ PhD in Medicine and Surgery from the University of Alcalá de Henares 1998.
- ♦ Specialist in General and Digestive Surgery, General University Hospital of Castellón since January 1993 until January 2015 (with a statutory fixed place since April 2005).
- ♦ Head of the Bariatric, Endocrine and Breast Surgery Section of the General and Digestive Surgery Service of the Hospital General Universitario de Castellón. Since January 2015 until February 2020.
- ♦ Certificate Specialist in General and Digestive System Surgery. Ramón y Cajal Hospital. Madrid. January 1993.
- ♦ University Diploma in Laparoscopic Surgery. Montpellier University. School year 2001 - 2002.

**Dr. José María Fernández Cebrián**

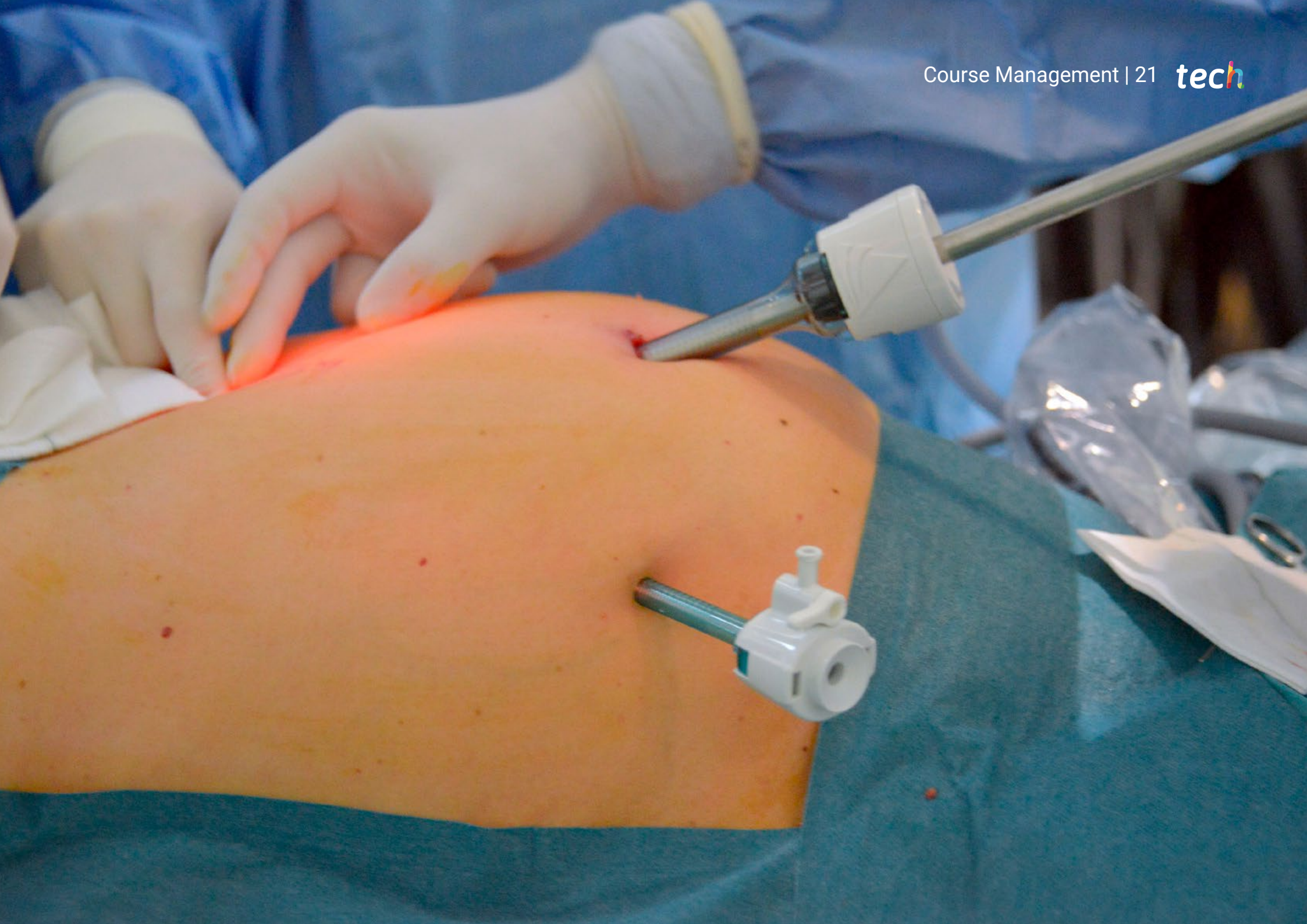
- ♦ Specialist in General and Digestive System Surgery.
- ♦ Degree from the School of Medicine. Complutense University of Madrid. September 1979- July 1985.
- ♦ PhD: Faculty of Medicine. Complutense University of Madrid. 1985-1987.
- ♦ Competitive exam for the provision of training positions for specialists in 1986, specializing in General and Digestive Surgery in the C.E. Ramon and Cajal, Madrid, from 1986 to 1990.
- ♦ General Practitioner in Public Social Security Systems for Member States European Communities.
- ♦ Management and Directing and Clinical Units.
- ♦ Advanced Program in Management in Health Institutions-III edition University of Navarra. IESE Business School 2009

### **Dr. Ramón Corripio Sánchez**

- ♦ Head of the Bariatric Surgery Unit. La Paz University Hospital
- ♦ Quality Coordinator of General and Digestive System Surgery. La Paz University Hospital
- ♦ Specialist in General and Digestive System Surgery at Torrelodones University Hospital - Montepíncipe.
- ♦ Faculty Specialist. Esophagogastric and Bariatric Surgery Unit. Jiménez Díaz Foundation Hospital and Collado Villalba General University Hospital. 2015 - present.
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid.
- ♦ Specialist in General and Digestive System Surgery. Gregorio Marañón General University Hospital.
- ♦ Accreditation Diploma of FAST and Ultrasound course for surgeons by the Spanish Association of Surgeons (AEC). 2005
- ♦ Surgeon in Our Lady of the Rosary Sanatorium. General and Digestive Surgery. 2004-2009
- ♦ Faculty Specialist. Esophagogastric Surgery Unit Coordinator. Infanta Cristina University Hospital (2008-2015).

### **Dr. Rosana Martínez Amorós**

- ♦ Clinical Psychologist in the Mental Health Unit of San Vincent of Raspeig (Alicante) Since May 2019
- ♦ Degree in Psychology from the University of Valencia
- ♦ Specialist in Clinical Psychology
- ♦ 2016- 2019 Clinical Psychologist in the Mental Health Unit of Altabix de Elche (Alicante)
- ♦ 2013-2016 Clinical Psychologist at the Elche University General Hospital (Alicante) dependent on the Valencian Health Agency.
- ♦ 2006-2013. Sexologist in the Reproductive and Sexual Health Center of Novelda-Aspe (Alicante) dependent on the Valencian Health Agency.
- ♦ October 2004- October 2006. Clinical Psychologist in the day center of the C.V Foundation. Santos Andrés y Santiago de Sueca (Valencia)
- ♦ May 2004- September 2004. Coordinator of the Moderate and Severe Intellectual Disability Ward at the Pere Mata University Psychiatric Hospital of Reus (Tarragona).



# 04

# Structure and Content

The contents of this Postgraduate Certificate have been developed by the different experts involved in the program, with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field. A complete and well-structured program that will take you to the highest standards of quality and success.





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*A comprehensive teaching program, structured in well-developed teaching units, oriented toward learning that is compatible with your personal and professional life”*

## Module 1 Innovation, Quality of Life, Training and Clinical Management in Bariatric Surgery

- 1.1. Innovation, Quality of Life, Training and Clinical Management in Bariatric Surgery
    - 1.1.1. Application of Robotics in Bariatric Surgery
      - 1.1.1.1. Bariatric Procedures: General Aspects (Indications, Contraindications, Advantages and Disadvantages)
      - 1.1.1.2. Restrictive Laparoscopic and Robot-Assisted Procedures
        - 1.1.1.2.1. Gastric Sleeve: Advantages and Disadvantages of Using a Robot
        - 1.1.1.2.2. Other Restrictive Procedures Gastric Banding, Bariclip, Gastroplication, Intra-gastric Balloon and Endorobotics
      - 1.1.1.3. Laparoscopic Gastric Bypass Roux-en-Y with Robot Assistance
        - 1.1.1.3.1. Pouch Confirmation and Probe Calibration
        - 1.1.1.3.2. Distances of Intestinal Loops: Food Loop, Biliopancreatic Loop, Common Loop
        - 1.1.1.3.3. Types of Anastomosis: Manual, Linear, Circular, Robotic Grappling (Anterior, Posterior, One Plane, Two Plane)
        - 1.1.1.3.4. Closing Spaces and Gaps
        - 1.1.1.3.5. Intraoperative Tests: Methylene Blue, Pneumatic Priebe, Endoscopy
        - 1.1.1.3.6. Use of Open and Closed Drains
      - 1.1.1.4. Other Robot-Assisted Mixed Procedures:
        - 1.1.1.4.1. Gastric Bypass of One Anastomosis
        - 1.1.1.4.2. SADI-S
        - 1.1.1.4.3. Duodenal Crossover and Biliopancreatic Diversion
        - 1.1.1.4.4. Intestinal Bipartition
      - 1.1.1.5. Revision Surgery and Robotic Surgery
      - 1.1.1.6. Superobesity and Robotic Surgery
      - 1.1.1.7. Use of New Platforms in Gastrointestinal Surgery
      - 1.1.1.8. How to Reduce Costs in Robotic Surgery Without Putting the Patient at Risk
      - 1.1.1.9. Future of Surgery Robotics in Bariatric Surgery
      - 1.1.1.10. Pandemic and Robotic Surgery
      - 1.1.1.11. Telemedicine and 5G Technology
      - 1.1.1.12. Conclusions
  - 1.2. Application of NOTES and Single Port in Bariatric Surgery
    - 1.2.1. Basics of Access Reduction in Bariatric Surgery
    - 1.2.2. Surgical Defects
    - 1.2.3. Results
  - 1.3. Quality of Life after Bariatric Surgery
    - 1.3.1. Introduction
    - 1.3.2. Concept of Quality of Life
    - 1.3.3. Questionnaires
      - 1.3.3.1. Generic Questionnaires
      - 1.3.3.2. Specific Questionnaires
    - 1.3.4. Results
      - 1.3.4.1. Surgical Techniques Results
        - 1.3.4.1.1. Short-Term Results
      - 1.3.4.2. Long-Term Results
      - 1.3.4.2. Future Perspectives
      - 1.3.4.3. Conclusions
- 1.4. Bariatric Surgery Cost-Benefit Studies
  - 1.4.1. Economic Impact of Obesity and Bariatric Surgery
    - 1.4.1.1. Economic Load of Obesity
    - 1.4.1.2. Costs of Bariatric Surgery
    - 1.4.1.3. Benefits of Bariatric Surgery
    - 1.4.1.4. Cost-effective Aspect of Bariatric Surgery
  - 1.4.2. Systems or Methods for the Evaluation of the Impact on Health Costs
    - 1.4.2.1. Comparison of Approaches for Measuring Cost Impact
      - 1.4.2.1.1. Cost Minimization Analysis (CMA)
      - 1.4.2.1.2. Cost-effectiveness Analysis (CEA)
      - 1.4.2.1.3. Cost-utility Analysis (CUA)
      - 1.4.2.1.4. Cost Benefit Analysis (CBA)
    - 1.4.2.2. Visualization of Cost-effectiveness Using the Cost-effectiveness Plan
  - 1.4.3. Summary of Current Data on the Economic Benefit of Bariatric Surgery



- 1.5. Waiting List Management and Candidates Selection in Bariatric Surgery
  - 1.5.1. Introduction
  - 1.5.2. Selection of Candidates for Bariatric Surgery
  - 1.5.3. Factors Affecting the Waiting List
    - 1.5.3.1. Resources Availability
    - 1.5.3.2. Severity
    - 1.5.3.3. Waiting Capacity
  - 1.5.4. Criteria for Prioritizing Patients on the Waiting List Severity Scales
  - 1.5.5. Conclusions
- 1.6. Experimental Animal and Cadaver Training Thiel in Bariatric Surgery
  - 1.6.1. Introduction
  - 1.6.2. Learning Curve in Laparoscopic Gastric Bypass
  - 1.6.3. Ex vivo Laparoscopic Gastric Bypass Training Strategies
    - 1.6.3.1. Training Models
      - 1.6.3.1.1. Laboratory Models
      - 1.6.3.1.2. Virtual Reality Simulators
      - 1.6.3.1.3. Animal Experimentation Models
      - 1.6.3.1.4. Thiel Human Cadavers
    - 1.6.3.2. Laparoscopic Surgery Workshops
- 1.7. Bariatric Tourism
- 1.8. Quality Standards After Bariatric Surgery. What is the Current Evidence?
  - 1.8.1. In Relation to Weight Loss
  - 1.8.2. in relation to the Resolution of Comorbidities in Revision Surgery
  - 1.8.3. Mortality and Morbidity of Bariatric Procedures Record of Complications
  - 1.8.4. How to Measure the Quality of Life in Bariatric Patients? Measuring Systems
- 1.9. Aesthetic and Body Contouring Surgery
  - 1.9.1. Selection Criteria for Intervention of Morbid Obesity Sequelae Following Bariatric Surgery
  - 1.9.2. Plastic Surgery Techniques for the Intervention of Sequelae
    - 1.9.2.1. Upper Limbs Classification and Techniques
      - 1.9.2.1.1. Horizontal, L, T Brachioplasty
      - 1.9.2.1.2. Posterior Brachioplasty
    - 1.9.2.2. Posterior Brachioplasty
      - 1.9.2.2.1. Horizontal Lifting
      - 1.9.2.2.2. Vertical Lifting
      - 1.9.2.2.3. Complementary Techniques
    - 1.9.2.3. Abdomen Classification and Techniques
      - 1.9.2.3.1. Conventional/ Anchor Abdominoplasty with/ without Rectus Plication, with/ without Umbilical Transposition
      - 1.9.2.3.2. Upper/ Lower Bodylift
      - 1.9.2.3.3. Complementary Techniques: Liposuction
    - 1.9.2.4. Breast Classification and Techniques
      - 1.9.2.4.1. Breast Reduction
      - 1.9.2.4.2. Mastopexy with/without Prosthesis
  - 1.9.3. Intra / Postoperative Management
  - 1.9.4. Complications after Obesity Sequelae Surgery
- 1.10. Creation of Behavioral Therapy Programs for Maintaining Weight Loss after Surgery
  - 1.10.1. Introduction
  - 1.10.2. Psychological Aspects of the Patient with Morbid Obesity Post-Surgery
  - 1.10.3. Phases in the Post-Surgery Monitoring
  - 1.10.4. Areas to Evaluate in the Postsurgical Monitoring
  - 1.10.5. Individual Psychological Monitoring

05

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

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



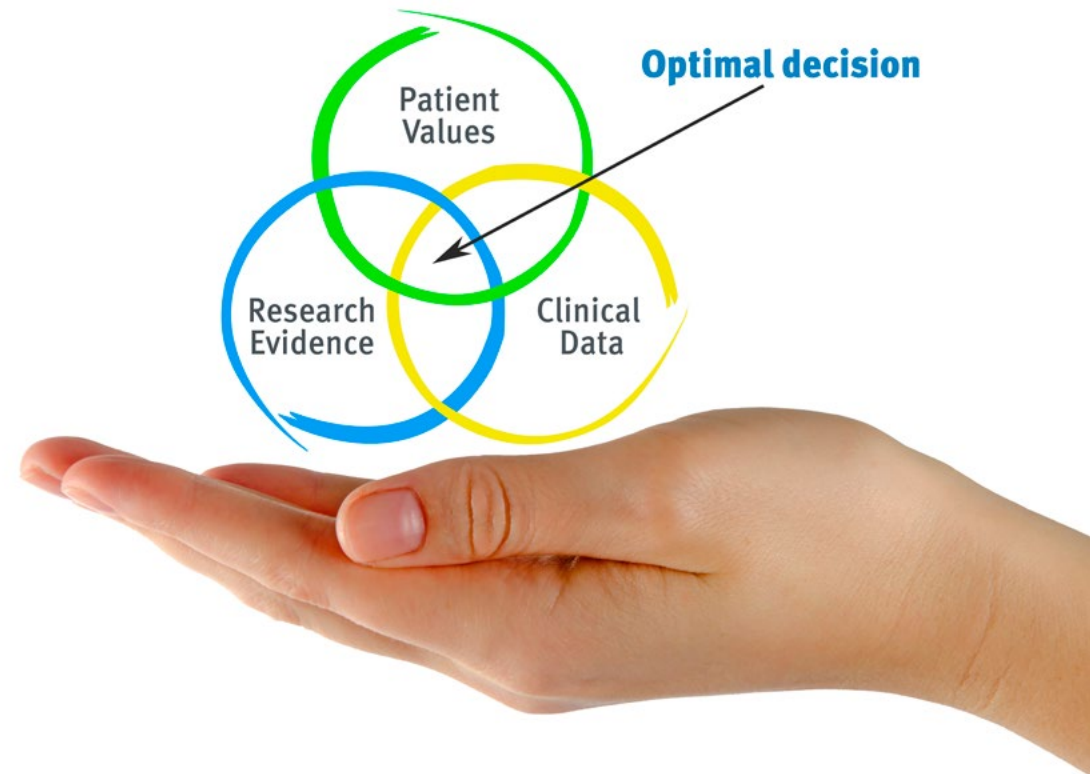
“

*Discover Re-learning, 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

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

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



According to Dr. Gervas, 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 potential 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 professional medical practice.

“

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

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

1. Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on 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.



## Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.



*The physician will learn through real cases and by solving 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



In this program you will have access to the best educational material, prepared with you 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.

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



#### Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



#### Interactive Summaries

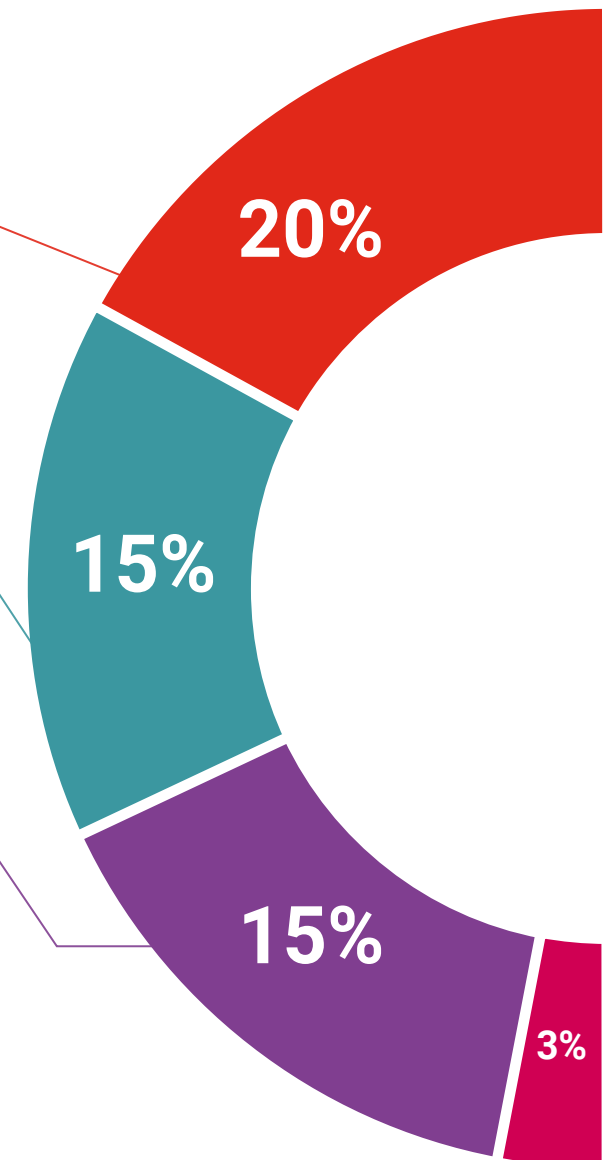
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".

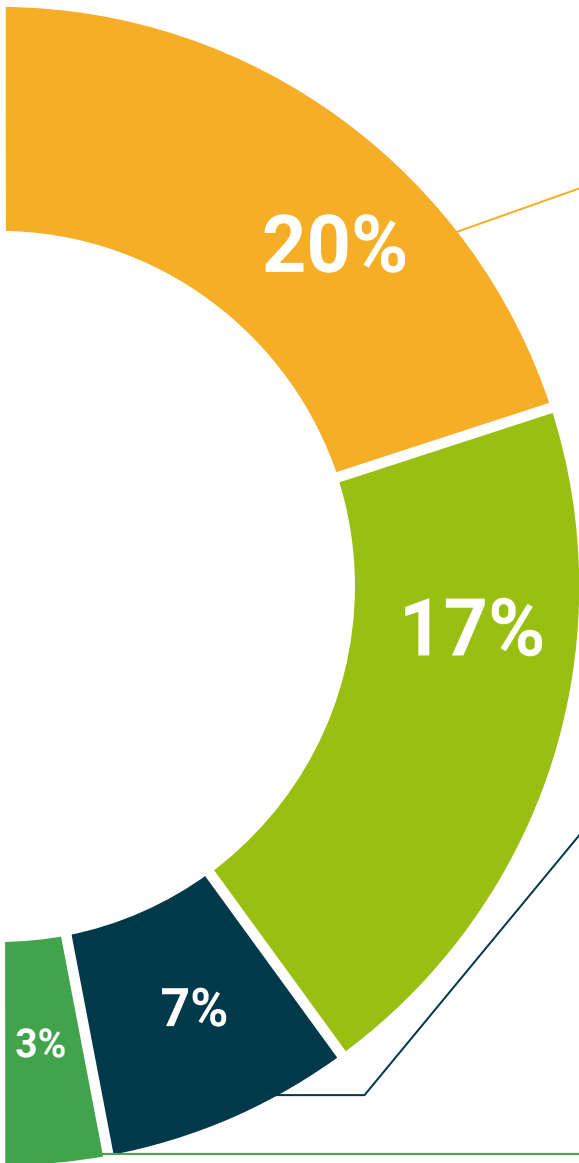


#### Additional Reading

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







**Expert-Led Case Studies and Case Analysis**

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through 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 your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



**Classes**

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

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



**Quick Action Guides**

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06

# Certificate

The **Postgraduate Certificate in Innovation, Quality of Life, Training and Clinical Management in Bariatric Surgery** guarantees, in addition to a rigorous and updated training, access to a qualification issued by **TECH Technological University**.



“

*Successfully complete this training and receive your diploma without travel or laborious paperwork”*

This **Postgraduate Certificate in Innovation, Quality of Life, Training and Clinical Management in Bariatric Surgery** contains the most complete and up-to-date scientific program on the market.

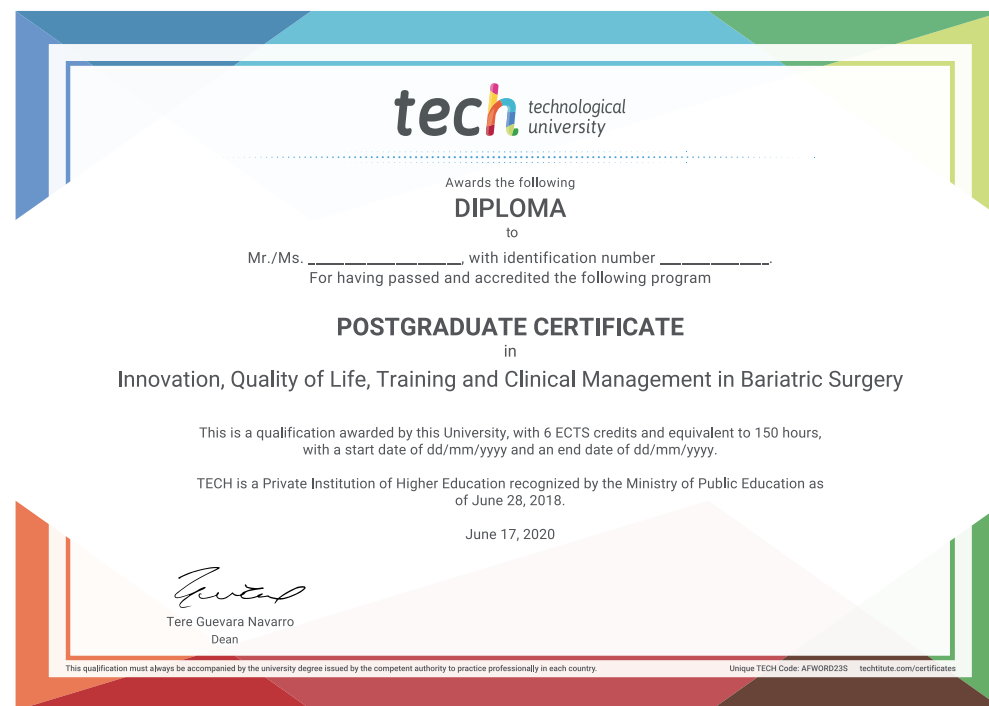
After the student has passed the evaluations, they will receive their corresponding diploma issued by **TECH Technological University via tracked delivery**.

The diploma issued by **TECH Technological University** will specify the qualification obtained through the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Innovation, Quality of Life, Training and Clinical Management in Bariatric Surgery**

ECTS: 6

Official Number of Hours: 150



\*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.

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



**Postgraduate Certificate**  
Innovation, Quality of Life,  
Training and Clinical  
Management in Bariatric  
Surgery

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Certificate

Innovation, Quality of Life, Training  
and Clinical Management  
in Bariatric Surgery

