

# Postgraduate Certificate

## Lip-Palatal Cleft Reconstruction





## Postgraduate Certificate Lip-Palatal Cleft Reconstruction

- » 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/postgraduate-certificate-lip-palatal-cleft-reconstruction](http://www.techtute.com/us/medicine/postgraduate-certificate/postgraduate-certificate-lip-palatal-cleft-reconstruction)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

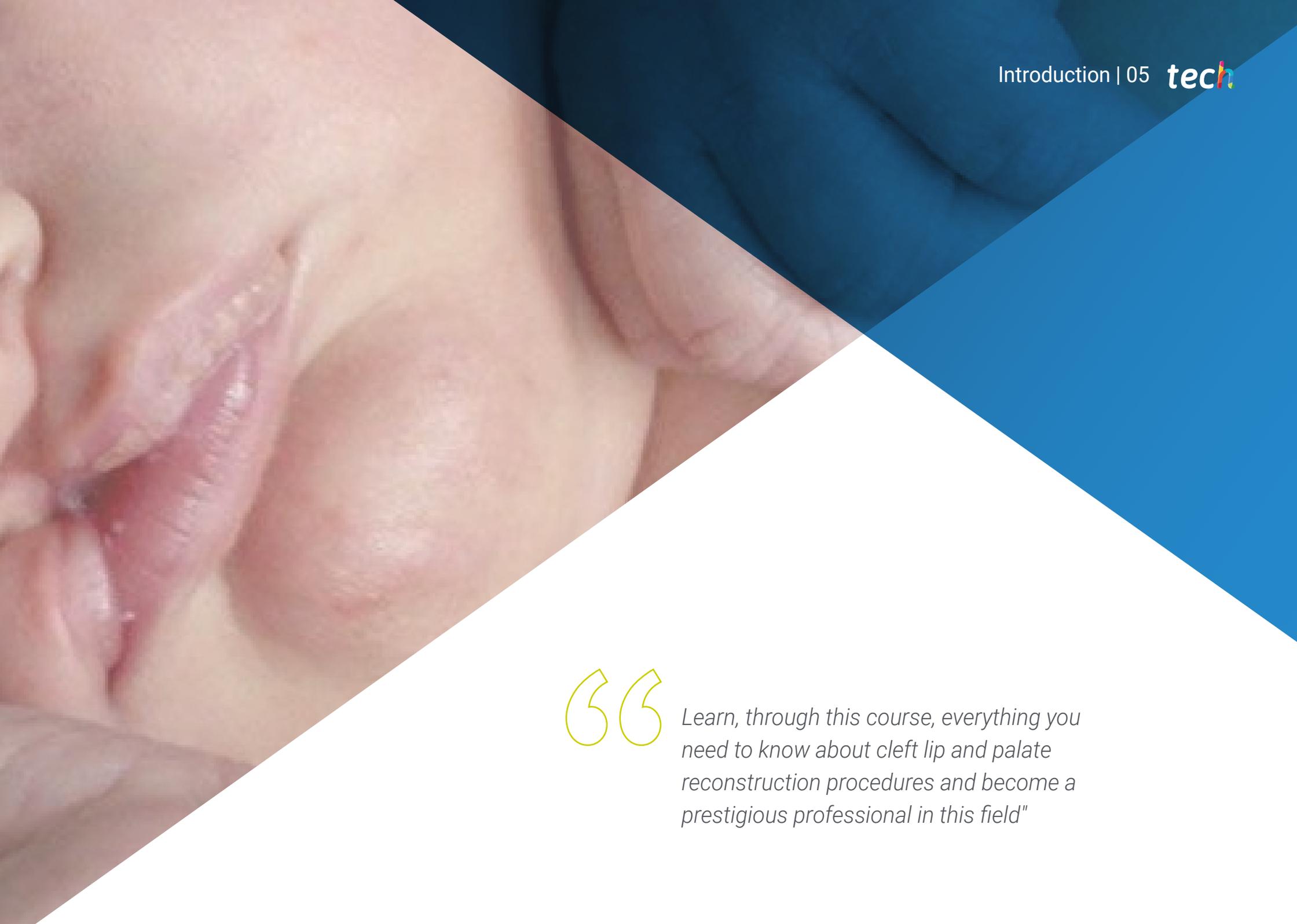
*p. 28*

# 01

# Introduction

Lip, alveolar and palatal clefts, isolated or combined, constitute a very complex area due to the alterations they produce in breathing and their most effective solution involves reconstructive plastic surgery. To carry it out, it is vital that the physician has a thorough knowledge of reconstructive surgery techniques, as they are very complex and meticulous procedures that require the expertise of well-trained professionals. This is what this TECH course will emphasize, where an accurate and precise historical review of the medical implications of this problem over the years will also be carried out.





“

*Learn, through this course, everything you need to know about cleft lip and palate reconstruction procedures and become a prestigious professional in this field"*

Among the various congenital malformations, cleft lip and palate are of special importance; they have been catalogued by the World Health Organization as a health problem due to the fact that they present an average of 1 per 1000 live births; and they occupy the first place among congenital malformations affecting the head and neck.

The labial, alveolar and palatal clefts, isolated or combined, constitute a very complex area due to the alterations they produce in breathing, swallowing, phonation, occlusion and esthetics. They significantly affect both socially and economically, due to the costs generated during treatment, which generally extends from birth to adolescence in most cases.

The treatment of these malformations involves a multidisciplinary team of healthcare professionals. The Reconstructive Plastic Surgeon requires specialized knowledge in reconstructive surgery techniques, as they are very complex and meticulous procedures that demand the expertise of well-trained professionals.

This course will address the theoretical bases on the protocols of care and the most advanced surgical techniques for facial reconstruction of patients with cleft lip and palate.

Everything through a 100% online training that makes it easier to combine studies with the rest of the daily activities in the surgeon's life. Thus, the doctor will only need an electronic device (Smartphone, Tablet, PC) with Internet connection to open up a wide horizon of knowledge that will allow him to position himself as a professional of reference in the sector.

This **Postgraduate Certificate in Cleft Lip and Palatal Reconstruction** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ Development of more than 80 clinical cases, recorded with POV (Point Of View) systems from different angles, presented by experts in surgery and other specialities. 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.
- ♦ Presentation of practical workshops on procedures and techniques.
- ♦ Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- ♦ Action protocols and clinical practice guidelines, where to disseminate the most important developments in the specialty.
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- ♦ Special emphasis on test-based medicine and research methodologies in surgical procedures.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.



*This Online Course in Cleft Lip-Palate Reconstruction contains the most complete and up-to-date scientific program on the market"*

“

*Thanks to this complete course which TECH has prepared for you, you will acquire the best and most updated training in Lip-Palatal Cleft Reconstruction"*

The teaching staff includes a team of healthcare professionals, who bring their experience to this training program, as well as renowned specialists from leading scientific societies.

The multimedia content developed with the latest educational technology will provide the surgeon with situated and contextual learning, i.e., a simulated environment that will provide immersive training program to train in real situations.

This program is designed around Problem Based Learning, whereby the surgeon must try to solve the different professional practice situations that arise during the course. For this purpose, you will be assisted by an innovative interactive video system created by renowned experts in the field of Reconstructive Plastic Surgery, with extensive teaching experience.

*It is the best value for money training program on the market.*

*Improve your specialized surgical practice with this training that will catapult you to success in your profession.*



# 02 Objectives

The most prestigious professionals in the field of Reconstructive Plastic Surgery have designed for TECH this complete professional updating and recertification program with the aim of ensuring that doctors in the sector are up to date with new scientific and technical knowledge in the field of facial reconstructive plastic surgery. This refresher in surgeons' professional competencies and the acquisition of new skills and abilities will be the professional's main asset when it comes to successfully entering a sector that is increasingly demanding specialized professionals in this field.





“

*TECH puts in all its trainings a perfect mix of theoretical and practical contents with the objective to lead professionals to success in their career”*



## General Objectives

---

- Develop specialized theoretical and practical knowledge on the care of patients with cleft lip and palate.
- Analyze the protocols for multidisciplinary management of patients with cleft lip and palate.
- Determine multidisciplinary treatment of patients with cleft lip and palate.

*Seize the moment and take the step to get up to date on the latest developments in Cleft Lip-Palate Reconstruction and become a prestigious surgeon.*





## Specific Objectives

---

- ♦ Examining the anatomical characteristics of patients with cleft lip and palate
- ♦ Define the etiological factors of cleft lip and palate.
- ♦ Present the classification of cleft lip and palate.
- ♦ Propose treatment plans according to the particular characteristics of each case.
- ♦ Establish the advantages and disadvantages of the various surgical techniques for the correction of cleft lip and palate.
- ♦ Support the design of treatment plans based on the knowledge obtained.
- ♦ Identify the complications generated in the management of patients with cleft lip and palate.
- ♦ Present up-to-date literature related to reconstructive surgical treatment in patients with cleft lip and palate.

03

# Course Management

These materials have been developed by a team of leading professionals in the surgical field, who work in the most important national and international hospitals. Bringing to the program the experience they have gained throughout their careers. Likewise, this great teaching team also includes a series of specialists who complete the contents of the course in an interdisciplinary and transversal way that will help the student to acquire complete knowledge and take into account each and every one of the important factors when intervening in cases of patients requiring lip and palate reconstructions.

“

*With this training, you will have at your disposal the best teaching staff in the market that will train and guide you towards success in your practice as a facial reconstructive surgeon"*

## International Guest Director

Peter Henderson, M.D. is a reconstructive surgeon and microsurgeon based in New York City who focuses on breast reconstruction and lymphedema treatment. He is Chief Executive Officer and Director of Surgical Services for Henderson Breast Reconstruction. In addition, he is an Associate Professor of Surgery (Plastic and Reconstructive Surgery) and Director of Research at the Icahn School of Medicine at Mount Sinai.

Dr. Henderson received a Bachelor of Fine Arts degree from Harvard University, a medical degree from Weill Cornell Medical College and an MBA from the Stern School of Business at New York University.

He completed his residencies in general surgery and plastic surgery at NewYork-Presbyterian/Weill Cornell. He then completed a fellowship in reconstructive microsurgery at Memorial Sloan Kettering Cancer Center. In addition, he was Chief of Research in the Laboratory of Bioregenerative Medicine and Surgery during his residency in general surgery.

Through a variety of surgical approaches and techniques, he is committed to helping patients restore, maintain or improve their function and appearance. Dr. Henderson's clinical care is supported by his research and scholarly activities in the field of microsurgery and breast reconstruction.

Dr. Henderson is a Fellow of the American College of Surgeons and a member of many professional societies. He is a recipient of the Dicran Goulian Award for Academic Excellence in Plastic Surgery and the Bush Award for Excellence in Vascular Biology. He has authored or co-authored over 75 peer-reviewed publications and textbook chapters, as well as over 120 research abstracts, and has guest lectured nationally and internationally.



## Dr. Henderson, Peter

---

- Director of Surgical Services at Henderson Breast Reconstruction
- Director of Research at Icahn School of Medicine at Mount Sinai
- Chief of Research, Laboratory of Bioregenerative Medicine and Surgery at Memorial Sloan Kettering Cancer Center
- M.D. from Weill Cornell Medical College
- Bachelor of Fine Arts from Harvard University
- Bush Award for Excellence in Vascular Biology

“

*Thanks to TECH you will be able to learn with the world's best professionals”*

## Management



### Dr. Castro de Rojas, Ligia Irene

- ♦ Doctor specialized in Obstetrics and Gynecology.
- ♦ Professor of Morphophysiology I and II at the Experimental School of Nursing, Faculty of Medicine, Universidad Central de Venezuela.
- ♦ Medical School Counselor
- ♦ Medical sonographer
- ♦ Resident physician at the Palo Negro outpatient clinic
- ♦ General Practitioner at Policlínica Coromoto



### Dr. Piña Rojas, Juan Luis

- ♦ Plastic and reconstructive surgeon. Maracay Central Hospital.
- ♦ Secretary of Academic Affairs, 2004-2005 period, Student Center, La Morita branch, Carabobo University.
- ♦ Chief Resident 2012-2014 Postgraduate of Plastic Surgery Maracay's Central Hospital.
- ♦ Academic Teaching Coordinator 2016-2018 postgraduate course in Plastic Surgery, Maracay Central Hospital.
- ♦ Postgraduate resident doctor of the 1st level in the department of Surgery at Maracay's central hospital from March 3, 2008 to December 2010. (Position earned by credential competition)
- ♦ Academic Teaching Coordinator 2016-2018 postgraduate course in Plastic Surgery, Maracay Central Hospital.



## Professors

### Dr. Piña Aponte, Enzo Raúl

- ♦ Oral and Maxillofacial Surgeon
- ♦ Oral and Maxillofacial Surgeon in Private Clinic
- ♦ Postgraduate Professor of Oral and Maxillofacial Surgery UC-IVSS,
- ♦ Assistant of the Oral and Maxillofacial Surgery Service "Dr. Atilio Perdomo", University Hospital "Dr. Ángel Larralde"; Valencia, Edo. Carabobo.
- ♦ Undergraduate Teaching, Subject "Comprehensive Adult Clinic II",
- ♦ Rotation of Oral Surgery, 5th year, School of Dentistry, Carabobo University. Valencia, Edo. Carabobo.

### Dr. Rivas Zambrano, Aura Lorena

- ♦ Pediatric Infectious Diseases Specialist
- ♦ Medical School. Carabobo University, Venezuela. Promotion position: 2. Magna Cum Laude
- ♦ Pediatrics Residency at Maracay Hospital Central de Maracay. Carabobo University, Venezuela
- ♦ Pediatric Infectious Diseases Residency at the José Manuel de los Ríos Children's Hospital. Venezuela.
- ♦ Pediatric Infectiologist. Maracay Central Hospital. Venezuela
- ♦ Professor of Pediatric Infectious Diseases. Carabobo University. U Venezuela.
- ♦ Lecturer in National and Regional Congresses and Conferences.

# 04

## Structure and Content

The structure and contents of this comprehensive curriculum have been designed by a team of professionals knowledgeable about the implications of medical training in the approach to the surgical patient, aware of the relevance of current specialization and committed to quality teaching through new educational technologies. This extensive compendium of contents will be the main asset of the professional when it comes to deep training in the steps and protocols to follow when performing a surgical intervention with the aim of reconstructing parts of the lip and the palate structure.



“

*This Postgraduate Certificate in Cleft Lip and Palatal Reconstruction contains the most complete and up-to-date scientific program on the market”*

## Module 1. Cleft lip and palate reconstruction

- 1.1. Labiopalatal clefts
  - 1.1.1. Embryology
  - 1.1.2. Morfoligical
    - 1.1.2.1. Cleft Lip Anatomy
    - 1.1.2.2. Cleft Palate Anatomy
  - 1.1.3. Epidemiology
  - 1.1.4. Aetiopathogenesis.
- 1.2. Nomenclature and Classification of Labiopalatine Clefts
  - 1.2.1. Clinical Significance of Classifications
  - 1.2.2. Embryological Classifications
  - 1.2.3. Anatomy Classifications
- 1.3. Non-surgical multidisciplinary management of the patient with cleft lip and palate.
  - 1.3.1. Historical Evolution
  - 1.3.2. Psychosocial Aspects
    - 1.3.2.1. Parent Management
  - 1.3.3. Multidisciplinary Evaluation
    - 1.3.3.1. Healthy Child Checkup
    - 1.3.3.2. Evaluation by Subspecialties
- 1.4. Surgical Management of Unilateral Labial Clefts
  - 1.4.1. Anesthetic Considerations
  - 1.4.2. Anatomic Considerations
  - 1.4.3. Chronological Sequence of Treatment
  - 1.4.4. Surgical Techniques for Unilateral Cleft Cheiloplasty
- 1.5. Surgical Management of Bilateral Labial Clefts
  - 1.5.1. Anatomic Considerations
  - 1.5.2. Chronological Sequence of Treatment
  - 1.5.3. Surgical Techniques for Bilateral Cleft Cheiloplasty
- 1.6. Surgical Management of Palatal Clefts
  - 1.6.1. Anesthetic Considerations
  - 1.6.2. Anatomic Considerations
  - 1.6.3. Chronological Sequence of Treatment
  - 1.6.4. Palatoplasty
  - 1.6.5. Vomerian flap
  - 1.6.6. Colgajo Faríngeo



- 
- 1.7. Surgical Management of Alveolar Clefts
    - 1.7.1. Surgical Objectives
    - 1.7.2. Orthodontic-Surgical Sequence
      - 1.7.2.1. Orthopedic and Orthodontic Considerations
    - 1.7.3. Types of Grafts
      - 1.7.3.1. Autogenous Grafts
      - 1.7.3.2. Allogenic grafts
      - 1.7.3.3. Implants
    - 1.7.4. Surgical Techniques
    - 1.7.5. Post-Operative Care
    - 1.7.6. Complications
  - 1.8. Surgical Management of Sequelae
    - 1.8.1. Alveolar Fissures and Alveolar Fistulas
    - 1.8.2. Lip Deformities
    - 1.8.3. Nasal Deformities
    - 1.8.4. Palatine Fistulas
    - 1.8.5. Velopharyngeal Incompetence and Insufficiency
  - 1.9. Chronological Sequence of Treatment
    - 1.9.1. Pre-surgery Preparation
    - 1.9.2. Cheiloplasty
    - 1.9.3. Palatoplasty
    - 1.9.4. Alveoloplasty
    - 1.9.5. Orthognathic Surgery
    - 1.9.6. Implant Surgery
    - 1.9.7. Rhinoplasty and Related Aesthetic Corrections
  - 1.10. Legal Aspects
    - 1.10.1. Legal Framework
    - 1.10.2. Informed Consent
    - 1.10.3. Importance of the clinical history

05

# Methodology

This training 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.





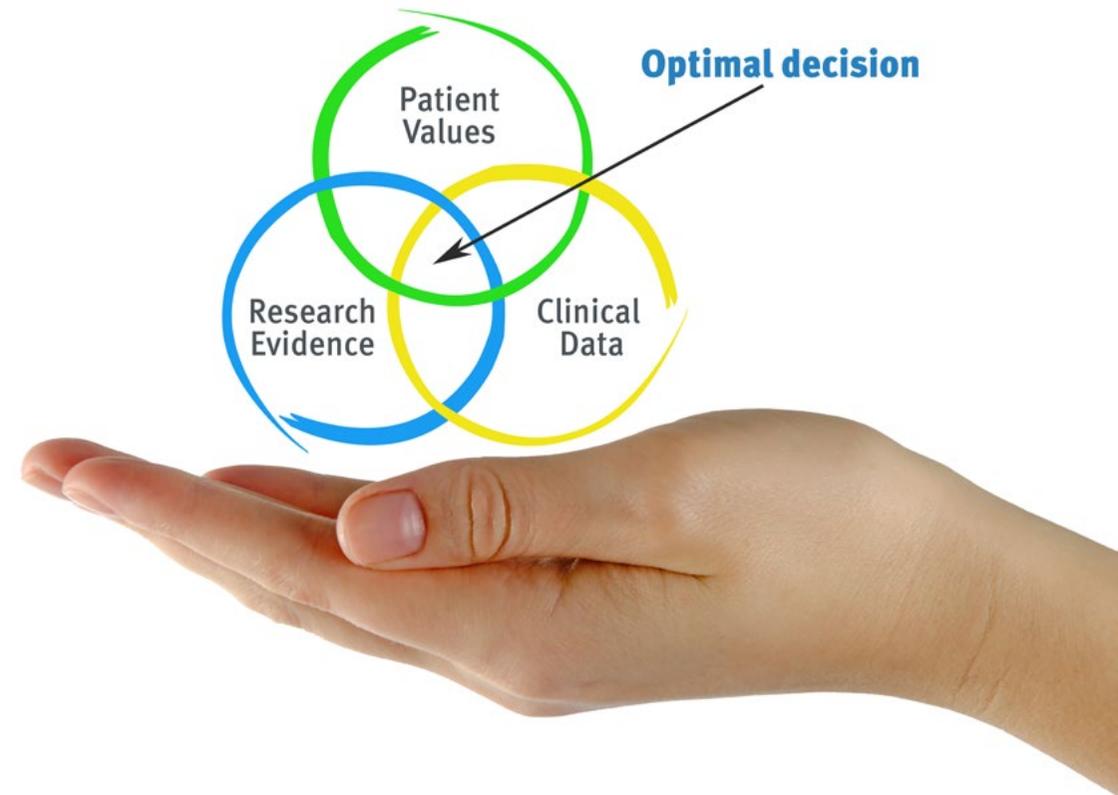
“

*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 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:

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.

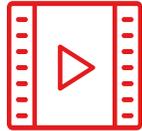
*Re-learning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

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

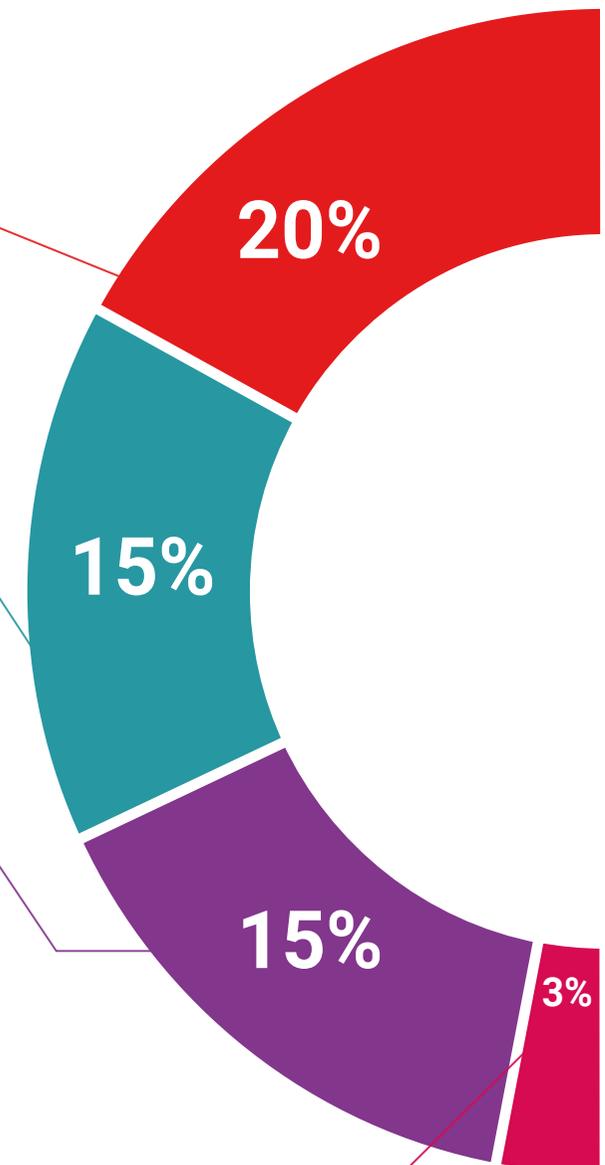
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 & Re-testing**

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

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.





“

*Include in your training a Postgraduate Certificate in Cleft Lip-Palate Reconstruction: a highly qualified added value for any medical professional"*

This **Postgraduate Certificate in Lip-Palatal Cleft Reconstruction** contains the most complete and up-to-date scientific program on the market.

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

The course of this program does not qualify, in any case, to perform the surgical techniques and procedures described in this syllabus.

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

Title: **Postgraduate Certificate in Lip-Palatal Cleft Reconstruction**

Official Number of Hours: **150**



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**  
Lip-Palatal Cleft  
Reconstruction

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

# Postgraduate Certificate

## Lip-Palatal Cleft Reconstruction

