

# Postgraduate Certificate Pediatric Plastic and Maxillofacial Surgery





## Postgraduate Certificate Pediatric Plastic and Maxillofacial Surgery

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Global University
- » Credits: 12 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/pediatric-plastic-maxillofacial-surgery](http://www.techtute.com/us/medicine/postgraduate-certificate/pediatric-plastic-maxillofacial-surgery)

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# 01

# Introduction

Pediatric Maxillofacial Surgery is a specialty that has experienced significant advances in recent years in the care of acquired and congenital pathologies in the head and neck of children. In this context, this university program is designed with the aim of providing health professionals with the latest and most necessary tools for the diagnosis and comprehensive treatment of these diseases. The course addresses the most frequent pathologies of the specialty, such as congenital malformations, hand pathologies, skin lesions and soft parts, among others. All this, under a 100% online approach, which allows the specialist to update his knowledge in a comfortable way and without giving up his professional and personal activities.





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*This university program will guide you to delve into the latest developments in the comprehensive management of vascular anomalies, a little known pathology, but with a high incidence in pediatric patient”*

The Postgraduate Certificate in Pediatric Plastic and Maxillofacial Surgery comprehensively addresses head and neck conditions in children, both acquired and congenital pathologies. The purpose of the program is to provide pediatric surgeons with specialized tools for the diagnosis and comprehensive treatment of these diseases.

The program focuses on congenital malformations, especially those related to congenital fissures of the face and alterations of the glands of the cervical region. Infectious and tumor pathology affecting the face and neck, whose knowledge is essential for the pediatric surgeon due to its potential mortality and morbidity, is also addressed.

The airway is another of the areas covered in the program, as it can present multiple acquired and congenital alterations in children that require urgent treatment by the pediatric surgeon.

Finally, the importance of aesthetics in late childhood and adolescence is addressed, as it can cause psychological problems that affect the mental health and social integration of patients. The program also covers the most frequent aesthetic pathologies in the specialty, such as ear pinning, gynecomastia and scar sequelae.

In summary, the Postgraduate Certificate in Pediatric Plastic and Maxillofacial Surgery provides pediatric surgeons with the latest scientific findings to comprehensively and effectively address head and neck conditions in children, both from a therapeutic and aesthetic approach.

This **Postgraduate Certificate in Pediatric Plastic and Maxillofacial Surgery** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of case studies presented by experts in laser in Gynecological Aesthetics
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions 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



*You will learn the latest updates in classification, diagnosis and treatment of vascular anomalies, which will allow you to improve the quality of life of your patients”*

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*In just 12 weeks, you will obtain new tools for the diagnosis and comprehensive treatment of skin and soft tissue lesions to obtain the best aesthetic results”*

The program's teaching staff includes professionals from sector who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

The design of this program focuses on Problem-Based Learning, in which the professional will have to try to solve the different professional practice situations that will arise throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*In only 12 weeks, you will obtain new tools for the diagnosis and integral treatment of skin and soft tissue lesions to obtain the best aesthetic results.*

*A rigorous program that addresses the latest developments in burn patients management in a comprehensive way: from the initial and intensive approach to therapeutic options and long-term sequelae.*



# 02 Objectives

The main purpose of the Diploma in Pediatric Plastic and Maxillofacial Surgery is to provide health professionals with updated knowledge for the care of head and neck pathologies in children, both acquired and congenital. The course focuses on the most frequent pathologies in the specialty and seeks to develop skills in the diagnosis and comprehensive treatment of these diseases. It also seeks to interaction between participants and experts in the field for a comprehensive and updated training.







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*You will delve into the latest scientific findings to treat aesthetic pathologies in children and adolescents, such as ear pinning or gynecomastia, which can have a significant impact on the mental health and social integration of the patient”*



## General Objectives

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- ♦ Develop specialized knowledge and current treatments in pediatric surgery
- ♦ Compile the different diagnostic methods, as well as the different therapeutic options, both medical and surgical depending on the pathology
- ♦ Expose the possible associated complications and the prognosis of these diseases
- ♦ Establish the current treatment guidelines for each of the pathologies described

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*If your goal is to get up to date and learn about the latest advances in pediatric plastic and maxillofacial surgery then welcome, this program is for you”*





## Specific Objectives

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- ♦ Analyze the normal embryological development and its alterations that condition congenital malformations of the face, neck and its structures
- ♦ Examine the most frequent congenital pathologies, their anatomy and pathological implications
- ♦ In a systematic way, present the cleft lip and palate treatment and malformation syndrome of facial structures fusion
- ♦ Analyze tumor pathologies that occur at the facial and tumor level
- ♦ Determine the treatment of infectious pathologies of the region
- ♦ Establish the guidelines for the treatment of malformations secondary to alterations in the development of the branchial arches
- ♦ Point out the treatments of the pathologies of the glands of the oral and cervical region
- ♦ Systematize the approach to the pathologies of the cervical lymph nodes
- ♦ Put in order the alterations of the airway and their treatment
- ♦ Train the pediatric surgeon in the diagnosis and treatment of the pathologies of the cervico-facial region
- ♦ Develop congenital soft tissue pathology, its embryonic development and its implications in children and adolescents and acquired soft tissue pathology, its epidemiology and its implications in children and adolescents
- ♦ Substantiate and classify vascular anomalies updating treatment protocols
- ♦ Determine the comprehensive management of the pediatric burn patient, peculiarities according to age and burn type
- ♦ Classify pinna anomalies and their therapeutic options
- ♦ Assess the different ways of approaching wound closure and skin and soft tissue defects
- ♦ Learn to diagnose and set the basis for infrequent acquired lesion treatment in children and adolescents

03

# Course Management

The professors in charge of teaching the Diploma in Plastic and Maxillofacial Surgery in Pediatrics are experts with decades of clinical work and extensive experience in the care and treatment of pathologies in the head and neck of children. These health professionals are recognized nationally and internationally, which guarantees a quality and updated training to the specialist. Additionally, the teachers are committed to the academic and professional development of the participants, providing personalized attention and a steady and constant interaction throughout the course.



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*Internationally renowned medical specialists with decades of experience will guide your learning and provide you with specific tools for your professional success”*

## International Guest Director

Dr. Mehul V. Raval is a pediatric surgeon specializing in improving outcomes and quality of care for children requiring surgical interventions. As such, his work has encompassed General Pediatric Surgery, Thoracic Surgery and Surgical Oncology, with expertise in Minimally Invasive Techniques and Neonatal Surgery. In addition, his primary interests include the implementation of enhanced recovery protocols, patient safety and value-based surgical care.

Throughout his career, he has served as Director of Research in the Division of Pediatric Surgery and as Director of the Center for Outcomes Research and Public Health at Ann & Robert H. Lurie Children's Hospital, Chicago. He has also played key roles in surgical quality improvement nationally, collaborating on projects with the Food and Drug Administration (FDA) and the Agency for Healthcare Research and Quality (AHRQ), as well as leading research on the effectiveness of surgical procedures in children's hospitals.

Internationally recognized, he has contributed significantly to the development of the American College of Surgeons National Pediatric Surgical Quality Improvement Program (ACS-NSQIP-P), currently implemented in more than 150 hospitals in the United States. In turn, he has received numerous grants from prestigious organizations, such as the National Institutes of Health (NIH), and has served on several committees of medical organizations, including the American Association for Pediatric Surgery and the American Academy of Pediatrics.

In addition, Mehul V. Raval, M.D., has authored more than 170 peer-reviewed articles and book chapters. In fact, his research ranges from clinical trials to outcome measurement and patient safety. As a surgeon, he has strived to help children recover optimally.



## Dr. Raval, Meहुल V.

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- Director of Pediatric Surgery at Ann & Robert H. Lurie Children's Hospital, Chicago, United States
- Director of the Center for Outcomes Research and Public Health at Ann & Robert H. Lurie Children's Hospital
- Vice Chair of Quality and Safety at Ann & Robert H. Lurie Children's Hospital
- Chair of the Board of Pediatric Surgery at the Orvar Swenson Foundation
- Doctor of Medicine, Wake Forest University
- Master of Science in Clinical Research, Northwestern University
- B.S. in General Biology from the University of North Carolina
- Member of:
  - American Pediatric Surgical Association
  - American Academy of Pediatrics

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

## Management



### Dr. Paredes Esteban, Rosa María

- ♦ Head of Service and Director of the Pediatric Surgery Clinical Management Unit of the Reina Sofia Hospital
- ♦ Specialist in Pediatric Surgery at the Reina Sofia Hospital
- ♦ Specialist in Pediatric Surgery at Jaén Medical-Surgical Hospital
- ♦ Responsible for Pediatric Surgery Training at the Reina Sofia Hospital
- ♦ President of the Spanish Society of Pediatric Surgery
- ♦ Coordinator of the Bioethics Commission of the Spanish Society of Pediatric Surgery
- ♦ Coordinator of the Vascular Anomalies Committee of the Reina Sofia University Hospital
- ♦ Coordinator of the Living Donor Transplant Commission (Renal and Hepatic) of Córdoba
- ♦ Doctor of Medicine and Surgery from the University of Granada
- ♦ Graduate in Medicine and Surgery from the University of Granada
- ♦ Member of: European Society of Pediatric Endoscopic Surgery, Spanish Society of Pediatric Surgery, Editorial Committee of the Spanish Society of Pediatric Surgery Journal, Scientific Evaluation Committee of the Spanish Society of Pediatric Surgery

## Professors

### Dr. Fernández Diez, Esther

- ♦ Specialist in Pediatric Surgery at the 12 de Octubre Hospital
- ♦ Volunteer Pediatrician at the University Hospital of Basurto
- ♦ Graduate in Medicine from the University of the Basque Country
- ♦ Pediatric Surgery Update Course at 12 de Octubre Hospital
- ♦ Pediatric Emergency Course

### Dr. Redondo Sedano, Jesús Vicente

- ♦ Specialist in Pediatric Surgery at the 12 de Octubre University Hospital
- ♦ Graduate in Medicine and Surgery from the Complutense University of Madrid
- ♦ Specialty in Pediatric Surgery at the 12 de Octubre University Hospital
- ♦ Master's Degree in Pediatric Urology from the International University of Andalusia
- ♦ Master's Degree in Minimally Invasive Surgery in Pediatrics



**Dr. Gómez Sánchez, Alicia**

- ♦ Specialist in Pediatric Surgery at the 12 de Octubre University Hospital
- ♦ Graduate in Medicine from the Complutense University of Madrid
- ♦ Author of various scientific publications on Pediatric Surgery

**Dr. Delgado Muñoz, María Dolores**

- ♦ Head of the Pediatric Surgery Section at the 12 de Octubre Hospital
- ♦ Specialist in Pediatric Surgery at the 12 de Octubre Hospital
- ♦ President of the Spanish Society of Facial Fissures
- ♦ Graduate in General Medicine and Surgery from the Autonomous University of Madrid
- ♦ Specialty in Pediatric Surgery
- ♦ Member of: National Commission of Pediatric Surgery, Editor Committee of the Journal of Pediatric Surgery

**Dr. Vázquez Rueda, Fernando**

- ♦ Specialist in Pediatric Surgery
- ♦ Associate Professor in Health Sciences in the Pediatric Area
- ♦ Doctor of Medicine and Surgery from the University of Extremadura
- ♦ Graduate in Medicine and Surgery from the University of Seville Doctor of Medicine and Surgery from the University of Extremadura
- ♦ Specialty in Pediatric Surgery at Reina Sofia University Hospital
- ♦ Master's in Public Health and Health Management from the International School of Hospital Management
- ♦ Master's in Laparoscopic Surgery from the University of Cordoba
- ♦ Master's Degree in Molecular Oncology from the Rey Juan Carlos University
- ♦ Certification by the European Board of Pediatric Surgery

**Dr. Ibarra Rodríguez, María Rosa**

- ♦ Pediatric Surgeon in the General Surgery and Pediatric Oncology Section of the Reina Sofia Hospital
- ♦ Graduate in Medicine and Surgery from the University of Cordoba
- ♦ Master's Degree in Pediatric Urology from the UNIA
- ♦ Master's in Minimally Invasive Surgery by TECH Technological University
- ♦ Practical stay at the Tawam Hospital in Abu Dhabi
- ♦ Practical stay at Memorial Sloan-Kettering Cancer Center in New York
- ♦ Member of: ACPA: Pediatric Surgeons of Andalusia Association, SECIPE: Spanish Society of Pediatric Surgeons, SIOP: International Society of Pediatric Oncology, IPSO: International Society of Pediatric Surgical Oncology

**Dr. Grijalva Estrada, Ornella**

- ♦ Specialist in Pediatric Urology at the Reina Sofia Hospital
- ♦ Specialist in Pediatric Urology at the La Paz University Hospital
- ♦ Clinical Tutor at Reina Sofia University Hospital
- ♦ Graduate in Medicine from the Central University of Ecuador
- ♦ Master's in Infant Urology from the International University of Andalusia

**Dr. Castillo Fernández, Aurora Lucía**

- ♦ Specialist in Pediatric Plastic Surgery at the Reina Sofia Hospital
- ♦ Graduate in Medicine and Surgery from the University of Navarra
- ♦ Master's in Pediatric Urology from the International University of Andalusia
- ♦ Master's in Pediatric Minimally Invasive Surgery by Cardenal Herrera CEU University
- ♦ Member of: Spanish Society of Pediatric Surgery, Society of Pediatric Surgeons of Andalusia, Vascular Anomalies Committee of the Reina Sofia Hospital

**Dr. Barnes Marañón, Sarah**

- ♦ Specialist in Pediatric Surgery at the Virgen De las Nieves Maternal-Children Hospital
- ♦ Specialist in Pediatric Surgery at the Hospital Vithas Santa Catalina
- ♦ Degree in Medicine from the Autonomous University Madrid
- ♦ Specialist in Pediatric Surgery at the Central de Asturias University Hospital
- ♦ Master's Degree in Aesthetic, Regenerative and Anti-Aging Medicine from the Complutense University of Madrid

**Dr. Castilla Parrilla, Elena**

- ♦ Specialist in Pediatric Surgery at the Virgen De las Nieves Hospital
- ♦ Graduate in Medicine from the University of Cadiz
- ♦ Master's in Tissue Engineering and Advanced Therapies from the University of Granada
- ♦ Master's in Pediatric Urology from the International University of Andalusia

**Dr. Botía Martínez, Carmen**

- ♦ Specialist in Pediatric Surgery at the Virgen De las Nieves University Hospital
- ♦ Graduate in Medicine from the Jaime I University
- ♦ Master's Degree in Tissue Engineering and Advanced Therapies from the University of Granada
- ♦ Master's in Pediatric Minimally Invasive Surgery by Cardenal Herrera CEU University
- ♦ Master's Degree in Clinical Medicine from the Camilo José Cela University

**Dr. Palomares Garzón, Cristina**

- ♦ Specialist in Pediatric Surgery at the Virgen De las Nieves University Hospital
- ♦ Specialist in Pediatric Surgery at the Puerta del Mar University Hospital
- ♦ Graduate in Medicine from the University of Granada
- ♦ Specialty in Pediatric Surgery at the Regional University Hospital of Malaga
- ♦ Master's in Minimally Invasive Surgery in Pediatrics at CEU Cardenal Herrera University
- ♦ Master's in Pediatric Urology from the International University of Andalusia

**Dr. Martínez Plaza, Adoración**

- ♦ Assistant Physician of the Oral and Maxillofacial Surgery Service of the Virgen De las Nieves University Hospital of Granada
- ♦ Head of the Children's Oral and Maxillofacial Surgery Unit
- ♦ Co-director of the Craniofacial Malformations and Cleft Lip and Palate Unit
- ♦ Co-Director of the Craniofacial Surgery Unit

- ◆ Doctor of Medicine and Surgery from the University of Granada
- ◆ Graduate in Medicine and Surgery
- ◆ Specialist in Oral and Maxillofacial Surgery
- ◆ Specialist in Stomatology

**Dr. Díaz Moreno, Eloísa**

- ◆ Specialist in Pediatric Surgery at the Jaén Medical Center
- ◆ Specialist in Pediatric Surgery at the Torrecárdenas University Hospital
- ◆ Specialist in Pediatric Surgery at the Virgen De las Nieves University Hospital
- ◆ Doctor of Medicine and Surgery from the University of Granada
- ◆ Graduate in Medicine and Surgery from the University of Granada
- ◆ Specialist in Pediatric Surgery at the Virgen De las Nieves University Hospital
- ◆ Master's Degree in Tissue Engineering from the University of Granada

**Dr. España López, Antonio José**

- ◆ Director of Déntalos Clinic
- ◆ Orthodontist in the Unit of Craniofacial Malformations, Lip and Cleft Palate at the Virgen de las Nieves Hospital
- ◆ Doctor of Dentistry from the University of Granada
- ◆ Graduate in Dentistry
- ◆ Master's in Oral Implantology
- ◆ Health Services Management Expert

**Dr. Licerias Licerias, Esther**

- ◆ Specialist in Pediatric Surgery at the Granada Medical Center
- ◆ Specialist in Pediatric Surgery at the Torrecárdenas Medical Center
- ◆ Specialist in Pediatric Surgery at the General Hospital of Alicante
- ◆ Doctor of Medicine and Surgery from the University of Granada
- ◆ Graduate in Medicine and Surgery from the University of Granada
- ◆ Specialist in Pediatric Surgery at the Virgen De las Nieves University Hospital
- ◆ Master's in Tissue Engineering from the University of Granada
- ◆ Postgraduate Diploma in Pediatric Surgery from the Valencia Catholic University

**Dr. Fernández Valadés, Ricardo**

- ◆ Chief of the Pediatric Surgery Service of the Virgen de las Nieves Hospital
- ◆ Co-director of the Craniofacial Malformations and Cleft Lip and Palate Unit at the Virgen de las Nieves University Hospital
- ◆ Specialist in Pediatric Surgery at the Virgen De las Nieves Hospital
- ◆ Numerary Academician of Pediatric Surgery at the Royal Academy of Medicine and Surgery of Eastern Andalusia
- ◆ Doctor of Medicine and Surgery from the University of Granada Graduate in Medicine and Surgery from the University of Granada Pediatric Surgery Specialist Master's Degree in Tissue Engineering from the University of Granada

# 04

# Structure and Content

The course syllabus covers a wide range of essential topics for the update in Pediatric Maxillofacial Surgery. The most common conditions in the head and neck region are addressed, with emphasis on congenital and acquired malformations. The management of infectious and tumor pathologies is also covered, as well as the importance of the airway in children and the alterations that may occur. Additionally, the importance of aesthetics in late childhood and adolescence is addressed, as well as how surgery can improve the mental health and social integration of patients. The course also includes updates on advanced techniques for the management of vascular anomalies, comprehensive treatment of burn patients, hand pathology, and the assessment and treatment of skin and soft tissue injuries.



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*From craniofacial malformations to vascular anatomies, this Postgraduate Certificate is the most complete option in the university panorama”*

## Module 1. Pediatric Head and Neck Surgery

- 1.1. Craniofacial Malformations I. Unilateral and Bilateral Cleft Lip
  - 1.1.1. Facial Development
  - 1.1.2. Unilateral and Bilateral Cleft Lip
  - 1.1.3. Embryology and Anatomy of Malformation
  - 1.1.4. Classification
  - 1.1.5. Pre-surgical Treatment
  - 1.1.6. Primary Surgical Techniques, Timing
  - 1.1.7. Complications and Treatment, Follow-up
- 1.2. Craniofacial Malformations II. Cleft Palate
  - 1.2.1. Cleft Palate
  - 1.2.2. Embryology and Anatomy of Malformation
  - 1.2.3. Classification
  - 1.2.4. Treatment, Techniques and Timing
  - 1.2.5. Complications and Treatment
  - 1.2.6. Monitoring
- 1.3. Craniofacial Malformations III. Velopharyngeal Insufficiency
  - 1.3.1. Velopharyngeal Insufficiency
  - 1.3.2. Testing and Treatment
  - 1.3.3. Syndromes (cross, Tracher-Collins, Pierre Robin sequence, etc.)
  - 1.3.4. Sequelae Surgery
  - 1.3.5. Multidisciplinary Teams and Ongoing Treatment
  - 1.3.6. Rehabilitation, Orthodontics and Orthopedics
  - 1.3.7. Monitoring
- 1.4. Surgical Pathology of the Oro-nasopharyngeal Cavity
  - 1.4.1. Dermoid Cyst; Glioma and Encephalocele; Choanal Atresia
  - 1.4.2. Juvenile Angiofibroma
  - 1.4.3. Retropharyngeal and Peripharyngeal Abscess; Ludwig's Angina
  - 1.4.4. Ankyloglossia, Macroglossia
  - 1.4.5. Epulis, Mucocele
  - 1.4.6. Vascular Malformations (Hemangioma, Lymphangioma)
- 1.5. Salivary Gland Pathologies
  - 1.5.1. Inflammatory Diseases
  - 1.5.2. Sialoadenitis
  - 1.5.3. Cystic Disease: Ranula
  - 1.5.4. Malignant and Non-malignant Neoplasms
  - 1.5.5. Vascular Malformations (Hemangioma, Lymphangioma)
- 1.6. Lymph Node Pathology
  - 1.6.1. General Approach to Cervical Adenopathies
  - 1.6.2. Acute Lymphadenitis Atypical Mycobacterial Adenitis. Cat Scratch Disease
  - 1.6.3. Lymphomas
- 1.7. Thyroid Disease
  - 1.7.1. Embryology and Anatomy
  - 1.7.2. Surgical Considerations
  - 1.7.3. Thyroglossal Cyst and Juvenile Ectopic Thyroid
  - 1.7.4. Hypo and Hyperthyroidism
  - 1.7.5. Thyroid Neoplasia
- 1.8. Parathyroid Pathology
  - 1.8.1. Embryology and Anatomy
  - 1.8.2. Surgical Considerations
  - 1.8.3. Functional Tests
  - 1.8.4. Neonatal and Familial Hyperparathyroidism
  - 1.8.5. Secondary Hyperparathyroidism
  - 1.8.6. Parathyroid Adenomas
- 1.9. Cysts and Cervical Sinuses
  - 1.9.1. Embryology
  - 1.9.2. 1st Branchial Arch Anomalies and Clefting
  - 1.9.3. Abnormalities of the 2nd Branchial Arch and Cleft Gills
  - 1.9.4. Abnormalities of the 3rd Branchial Arch and Cleft Gills
  - 1.9.5. Abnormalities of the 4th Branchial Arch and Cleft Gills
  - 1.9.6. Dermoid Cysts Preauricular Cysts and Fistulas
  - 1.9.7. Thymic Cysts
  - 1.9.8. Jugular Venous Aneurysms

- 1.10. Pinna Malformations
  - 1.10.1. Aetiopathogenesis and Pathophysiology
  - 1.10.2. Malformation Types
  - 1.10.3. Preoperative Evaluation
  - 1.10.4. Surgical Management
  - 1.10.5. Non-Surgical Treatment

## Module 2. Pediatric Plastic Surgery

- 2.1. Vascular Anomalies. Vascular Tumours
  - 2.1.1. Classification
  - 2.1.2. Benign Vascular Tumors
  - 2.1.3. Vascular Tumors of Aggressive Behavior or Potentially Malignant
  - 2.1.4. Malign Vascular Tumors
- 2.2. Vascular Anomalies. Vascular Malformations
  - 2.2.1. Classification
  - 2.2.2. Capillary Malformations and Associated Syndromes
  - 2.2.3. Venous Malformations and Associated Syndromes
  - 2.2.4. Arteriovenous Malformations and Associated Syndromes
  - 2.2.5. Lymphatic Malformations and Associated Syndromes
- 2.3. Childhood Burns
  - 2.3.1. Medical History
  - 2.3.2. First Aid
  - 2.3.3. Evaluation and Initial Management
  - 2.3.4. Ambulatory Management
  - 2.3.5. Hospital Management
  - 2.3.6. Surgical Treatment
  - 2.3.7. After-effects
- 2.4. Congenital Hand Anomalies
  - 2.4.1. Embryonic Development
  - 2.4.2. Classification
  - 2.4.3. Polydactyly
  - 2.4.4. Syndactyly
- 2.5. Hand Trauma
  - 2.5.1. Epidemiology
  - 2.5.2. Exploration
  - 2.5.3. Basis of Treatment
  - 2.5.4. Digital Trauma
- 2.6. Skin Pathology and its Appendages
  - 2.6.1. Skin Anatomy
  - 2.6.2. Congenital Melanocytic Nevus
  - 2.6.3. Acquired Melanocytic Nevus
  - 2.6.4. Melanoma
  - 2.6.5. Non-pigmented Skin Lesions
- 2.7. Breast Pathology in Childhood and Adolescence
  - 2.7.1. Embryonic Development
  - 2.7.2. Classification
  - 2.7.3. Congenital and Developmental Disorders (Alterations in Size, Number and Asymmetries)
  - 2.7.4. Acquired Disorders (Functional, Inflammatory and Tumor Pathology)
- 2.8. Scar Sequelae Management
  - 2.8.1. Scar and Sequelae
  - 2.8.2. Healing Phases
  - 2.8.3. Abnormal Scarring
  - 2.8.4. Scar sequelae Treatment
- 2.9. Skin Coverage
  - 2.9.1. Types of Wounds
  - 2.9.2. Types of Closure
  - 2.9.3. Skin Flaps and Grafts
  - 2.9.4. Tissue expansion
  - 2.9.5. Negative Pressure Therapy
  - 2.9.6. Dermal Substitutes
- 2.10. Special Acquired Skin and Deep Tissue Lesions
  - 2.10.1. Extravasations
  - 2.10.2. Necrotizing Fasciitis
  - 2.10.3. Compartment Syndrome

# 05 Methodology

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

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







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

## At TECH we use the Case Method

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

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



According to Dr. 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 power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

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

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

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



## Relearning Methodology

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

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

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



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

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

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

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

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



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



#### Study Material

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

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



#### Surgical Techniques and Procedures on Video

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



#### Interactive Summaries

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

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



#### Additional Reading

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





#### Expert-Led Case Studies and Case Analysis

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



#### Testing & Retesting

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



#### Classes

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



#### Quick Action Guides

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



# 06 Certificate

The Postgraduate Certificate in Plastic and Maxillofacial Surgery in Pediatrics guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.





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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Plastic and Maxillofacial Surgery in Pediatrics** 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 (*oficial 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.

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: **Postgraduate Certificate in Plastic and Maxillofacial Surgery in Pediatrics**

Modality: **online**

Duration: **12 weeks**

Accreditation: **12 ECTS**



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guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development languages  
virtual classroom



## Postgraduate Certificate

Pediatric Plastic and  
Maxillofacial Surgery

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Global University
- » Credits: 12 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Certificate Pediatric Plastic and Maxillofacial Surgery

