

Postgraduate Certificate Allergen-Specific Immunotherapy in the Pediatric Patient





Postgraduate Certificate Allergen-Specific Immunotherapy in the Pediatric Patient

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/allergen-specific-immunotherapy-pediatric-patient

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01

Introduction

The advances that have been made in the last decade in the field of Allergen Immunotherapy have allowed medical specialists to treat patients with asthma and allergic rhinoconjunctivitis from the source, and not superficially relieving the symptoms as with other treatments. For this reason, the importance of using this type of techniques is fundamental for any professional who wants to offer his patients a more effective alternative, especially in the case of children and adolescents. For this reason, TECH and its group of experts have developed this complete multidisciplinary and 100% online program, oriented to offer you all the tools that allow you to know in detail the latest developments in this sector, as well as to update and improve your knowledge of the ITA specifications.



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Allergen-specific immunotherapy has become a highly effective technique, so learning about the latest developments in its use will allow you to perfect your skills in the management of allergic patients"

Allergen Specific Immunotherapy (AIT) has become a widely used treatment in the field of allergy medicine. Advances in molecular diagnostics have made it possible to perfect its efficacy by improving the identification of the causes of sensitization and allowing the development of specific therapies that delve deeper into them, unlike other protocols that only alleviate symptoms.

This technique is used more and more frequently in child patients who present a clinical picture that is contextualized in that of an allergy, so the specialists in charge of treating them must know in detail the latest specifications of this treatment in order to be able to apply it with total guarantee.

Thanks to this Postgraduate Certificate in Allergen-Specific Immunotherapy in the Pediatric Patient, the graduates will be able to get up to date in the management of asthma and rhinoconjunctivitis through the use of AIT. This is a program that delves into its correct recommendation, mechanisms of action and possible adverse effects. In addition, it also delves into the current indications and contraindications, the available routes and patterns of administration and the practical management of this etiological treatment.

It is, therefore, a complete and intensive program, presented in a convenient online format and thanks to which the specialist will achieve his academic objectives in just 6 weeks. In addition, you will have the support of the teaching team, experts in the field of Pediatrics and Allergology who will accompany you during the course of the program to ensure the resolution of any questions that may arise.

This **Postgraduate Certificate in Allergen-Specific Immunotherapy in the Pediatric Patient** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical cases presented by experts in Pediatrics and Allergology
- 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 the self-assessment process can be carried out 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



Did you know that TECH is the largest medical school in the world? For this reason, all of the programs it launches follow very demanding academic quality standards"

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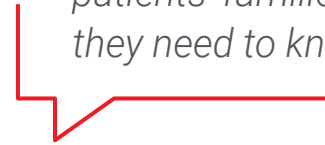
In just 180 hours, you will be up to date with the latest information on the indications and contraindications of ITA”

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

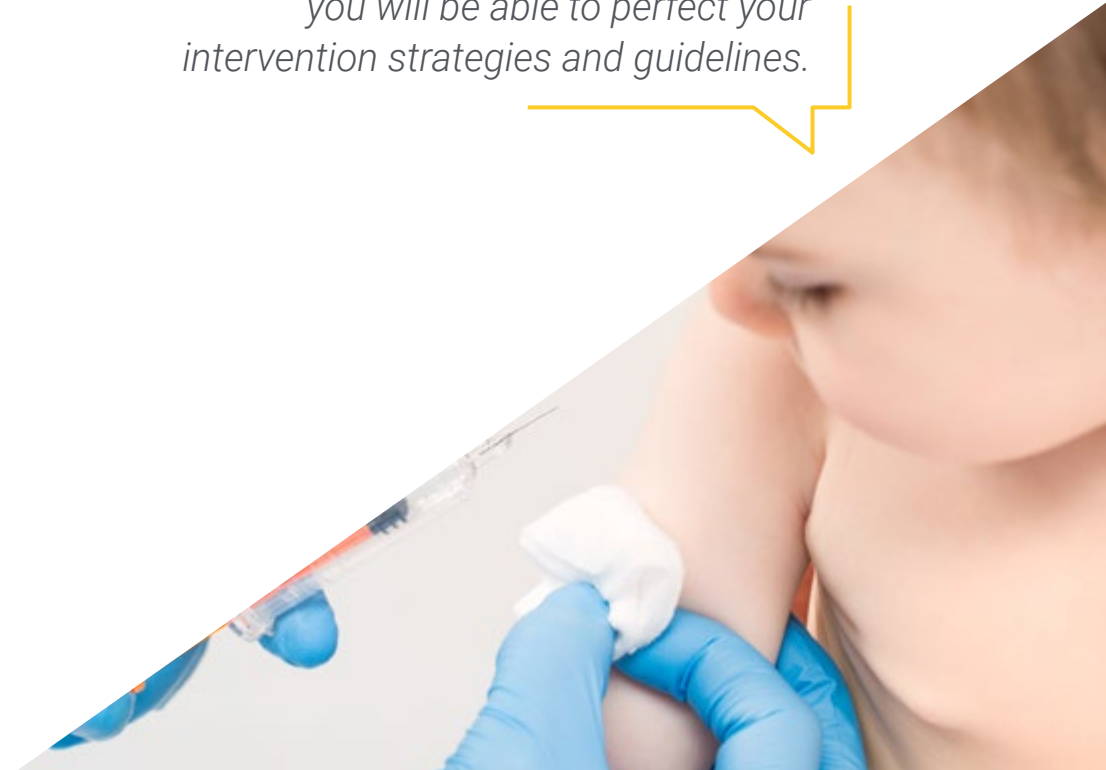
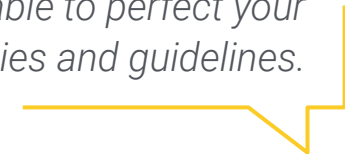
Its multimedia content, developed with the latest educational technology, will provide the professionals with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

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

A 100% online program that dynamically delves into the short and long term efficacy of ITA, so you can provide your patients' families with all the information they need to know.



Thanks to the topic dedicated to the practical management of Immunotherapy, you will be able to perfect your intervention strategies and guidelines.



02 Objectives

The objective of this Postgraduate Certificate is to provide the graduates with all the academic tools they need to become up to date in the use of ATI in pediatric patients. For this reason, its content has been elaborated based on the latest and most exhaustive information in this sector of medicine, forming a cutting-edge, dynamic and highly specialized syllabus in Immunotherapy, so that it can be used in the modification of the natural course of allergic rhinoconjunctivitis and asthma.



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The last topic of this Postgraduate Certificate delves into the upcoming developments in Immunotherapy and the possible future of this technique, so that you get an even broader vision"



General Objectives

- To provide the graduates with access to the broadest, most up-to-date and comprehensive content on allergen-specific immunotherapy in pediatric patients
- To provide you with the most effective and dynamic academic tools that will facilitate your update and allow you to meet your academic objectives within the stipulated timeframe



If your goal is to access a program that includes clinical cases with which to put the syllabus into practice, this program is perfect for you"





Specific Objectives

- Manage how component diagnostics can help indicate the most appropriate vaccine for each patient
- Assess response and carry out activities to improve therapeutic adherence
- Know the factors related to possible adverse reactions in order to be able to prevent them
- Choose the right candidate for immunotherapy

03

Course Management

For the development of the teaching and management staff of this program, TECH has selected a group of experts in Pediatric Medicine and Allergology. This is a team with extensive professional experience in the management of pediatric patients with allergic disorders and in the use of ITA. In addition, their current activity in the sector brings to this program a degree of realism and novelty, which will be reflected in the syllabus.



A close-up photograph of a young child with light brown hair, wearing a yellow sleeveless top. The child is looking down with a focused expression. A hand wearing a white medical glove is visible, gently holding the child's arm. The background is softly blurred, suggesting an indoor setting like a clinic or hospital.

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You will be able to arrange individualized tutorials with the teaching staff and share with them your concerns and questions about the syllabus and the profession”

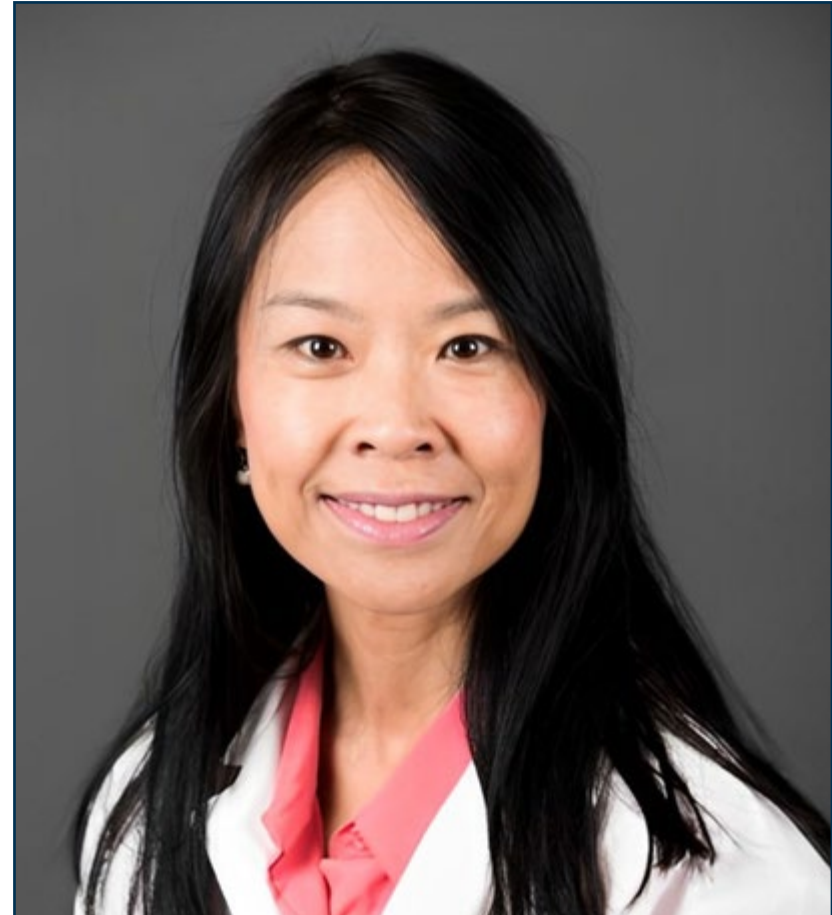
International Guest Director

With a long and exhaustive specialization in Pediatric Immunology, Dr. Wanda Phipatanakul has dedicated her medical career to the re-education and prevention of Asthma and Allergic Diseases. Her most significant contribution to this field of health has been to promote the construction of a deep network of community relations and to carry out several studies in schools and homes directly.

With this research approach, the expert seeks to reduce the social disparity in access to early diagnosis and treatment. For this reason, her projects have received continuous funding for more than 2 decades from the National Institute of Health of the United States (NIH). Her most important current projects are an Asthma Intervention in Schools study, together with the National Institute of Allergy and Infectious Diseases (NIAID), and an evaluation of the Sleep Environment in Youth, in collaboration with the National Heart, Lung and Blood Institute (NHLBI).

On the other hand, he participates in research on the use of Omalizumab for the prevention of chronic respiratory diseases and atopic progression. She is also leading an analysis on the response to Dupilumab in asthmatic patients with a specific genetic variant. All this while serving as Director of the Immunology Research Center at Boston Children's Hospital and teaching in academic programs at Harvard Medical School.

She is also a prolific author with over 400 scientific publications in top impact journals such as JAMA and the New England Journal of Medicine. She is also an associate editor of the Journal of Allergy Clinical Immunology (JACI). She has received numerous awards from institutions such as the American Academy of Pediatrics and is an honorary member of several academic societies.



Dra. Phipatanakul, Wanda

- Director of the Immunology Research Center at Boston Children's Hospital, United States
- Academician in the Division of Immunology and Allergy at Harvard University Medical School
- Leader of several joint research projects with the NIH, NIAID and the NHLBI
- Associate Editor of the Journal of Allergy Clinical Immunology
- Author of over 400 publications in top impact scientific journals JAMA and the New England Journal of Medicine
- Medical Degree from Loma Linda University
- Immunology Research Fellow at Johns Hopkins University
- Member of: American Academy of Pediatrics, American Academy of Allergy, Asthma and Immunology, American Society for Clinical Investigation, American Association of Physicians

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

Management



Dr. Troyano Rivas, Carmen

- Specialist in Pediatrics expert in Pediatric Allergology
- Assistant Physician of the Pediatrics Department in the Allergy and Pediatric Pulmonology Section of the 12 de Octubre Hospital
- Researcher in research projects and clinical trials on Pediatric Allergology
- Author and co-author of several publications for scientific magazines
- Teacher in university studies of Medicine
- Speaker at several Pediatric Allergology congresses



04

Structure and Content

TECH has based the structure of this Postgraduate Certificate on three fundamental pillars: the recommendations of the teaching team, the most avant-garde content related to Specific Allergen Immunotherapy, and the use of Relearning methodology. All this has allowed this university to create a dynamic and multidisciplinary program with which the graduates will be able to perfect their medical skills in the management of the child and adolescent patient in only 6 weeks and in a guaranteed effective way.





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The syllabus also includes the latest developments in the monitoring and assessment of ITA response, as well as guidelines for improving adherence”

Module 1. Allergen-Specific Immunotherapy (AIT)

- 1.1. Immunotherapy
- 1.2. Mechanism of Action
- 1.3. Content of Allergenic Vaccines
 - 1.3.1. Types of Extracts
 - 1.3.2. Adjuvants
- 1.4. Indications and Contraindications of Immunotherapy
- 1.5. Effectiveness of Immunotherapy
 - 1.5.1. Short-Term Efficacy
 - 1.5.2. Long-Term Efficacy
 - 1.5.3. Improving Efficiency through Molecular Diagnostics
 - 1.5.4. Allergen Mixtures and Immunotherapies
- 1.6. Safety of Immunotherapy
 - 1.6.1. Local Reactions
 - 1.6.2. Systemic Reactions
- 1.7. Types of Immunotherapy
 - 1.7.1. By Route of Administration
 - 1.7.2. By Guidelines of Administration
 - 1.7.3. By Type of Allergen
- 1.8. Practical Management of Immunotherapy
 - 1.8.1. Starting Guidelines
 - 1.8.2. Duration of Immunotherapy
 - 1.8.3. Dose Adjustments
- 1.9. Monitoring and Adherence
 - 1.9.1. Evaluation of the Response
 - 1.9.2. How to Improve Adherence
- 1.10. Advances in Immunotherapy
 - 1.10.1. New Adjuvants
 - 1.10.2. New Routes of Administration





“ *An intensive, avant-garde and dynamic Postgraduate Certificate that will fly by*”

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. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

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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 Allergen-Specific Immunotherapy in the Pediatric Patient 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 Allergen-Specific Immunotherapy in the Pediatric Patient** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

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 Allergen-Specific Immunotherapy in the Pediatric Patient**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



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