

Postgraduate Certificate

Physiotherapy in Cerebral Palsy in Early Pediatric Care





Postgraduate Certificate Physiotherapy in Cerebral Palsy in Early Pediatric Care

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

Website: www.techtute.com/in/physiotherapy/postgraduate-certificate/physiotherapy-cerebral-palsy-early-pediatric-care

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01

Introduction

Cerebral palsy in pediatric care is described as a group of motor disabilities caused by damage to a child's brain that can affect their daily activities. It is currently considered one of the most frequent causes of disability in childhood, making it essential to have professional physiotherapists who have extensive knowledge of the causes and incidences that this may have. For this reason, the program in Physiotherapy in Cerebral Palsy in Early Pediatric Care focuses on developing the skills that professionals need to specialize in this field.





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A comprehensive and practical Postgraduate Certificate that will allow you to learn everything you need to work as a physiotherapist in early care in a realistic and direct way”

Cerebral palsy continues to be one of the main pathologies that alters patient mobility and posture. Despite the progress that has been made to prevent and treat certain causes, there are still a large number of children whose lives are affected by this pathology. As such, there are many research studies in progress to improve side effects after an attack, as is the case of breathing.

Based on the above, it is important to have a program that encourages physical therapists to learn more about this area of study, as this will ensure they can improve patient treatments by making them more effective through a better understanding of their environment. The Postgraduate Certificate in Physiotherapy in Cerebral Palsy in Early Pediatric Care has been developed by experts in the field to delve into its most important aspects and provide students with the most up-to-date knowledge.

This program will deal with Infantile Cerebral Palsy, delving deeper into what it is and its incidence. Several ways of classifying ICP will be discussed, such as the *Gross Motor Function Measure*, types according to muscle tone involvement, etc. Students will be taught about the many associated problems that manifest in ICP and complications such as musculoskeletal disorders and epileptic seizures will be addressed more specifically. Finally, various syndromes such as Down's, Prader-Willi, and Angelman etc. will be explained, as well.

The extensive experience of the teaching staff and their training in the field of child physiotherapy, both nationally and internationally, positions this program above others on the market, so graduates will have an excellent reference. Both the course director and the professors on the program will put their knowledge and professional experience at the disposal of students in a practical manner. Therefore, this course will provide students with fast-track knowledge on all aspects related to Physiotherapy in Cerebral Palsy in Early Pediatric Care.

A 100% online Postgraduate Certificate that provides students with the ease of being able to study it comfortably, wherever and whenever suits them best. All you need is a device with Internet access to take your career one step further. A modality in keeping with the current times and all the guarantees to position professionals in a highly demanded field.

This **Postgraduate Certificate in Physiotherapy in Pathological Patients in Early Pediatric Care** offers the advantages of a high-level scientific, teaching, and technological program. These are some of its most notable features:

- ♦ The latest technology in online teaching software
- ♦ A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- ♦ Practical cases presented by practicing experts
- ♦ State-of-the-art interactive video systems
- ♦ Teaching supported by telepractice
- ♦ Continuous updating and recycling systems
- ♦ Autonomous 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 program



Receive training in all the functions performed in Early Care in Physiotherapy to improve pediatric patients' condition"

“ *Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, with a high educational impact”*

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.

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

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

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.

The teaching staff is made up of active professionals in the field of Physiotherapy.



02 Objectives

This Postgraduate Certificate has been created from start to finish to be a tool for personal and professional growth for physiotherapists. Its objective is to guide students through a specialization that will allow them to acquire the most up-to-date knowledge and techniques for the most advanced and competitive practice in this field. That is how it motivates students to expand their knowledge of the causes and incidences of cerebral palsy in children, as well as the main medical treatments available that can benefit from physical therapy. To this end, TECH establishes a series of general and specific objectives to fulfill future graduates' expectations.





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Get up to date on all the latest developments in the field of physiotherapy by completing the most effective program on the subject available on the market"



General Objectives

- ♦ Facilitate specializing in Physiotherapy in Early Care
- ♦ Reinforce the importance of the role of the family
- ♦ Acquire extensive knowledge of normal and pathological development in children
- ♦ Describe the assessment and evaluation methods used in Early Care Physiotherapy
- ♦ Gain detailed knowledge of frequent childhood pathologies
- ♦ Recognize methods, techniques and tools used in Early Care treatments



Become deeply familiar with the implications of Cerebral Palsy in childhood and improve your professional profile”





Specific Objectives

- ◆ Deeply understand what cerebral palsy is, its causes and incidence
- ◆ Know how to classify the type and level of cerebral palsy
- ◆ Specialize in spasticity and its main medical treatments
- ◆ Recognize ataxia, athetosis and hypotonia
- ◆ Explain the diversity of associated problems presented by patients with Infantile Cerebral Palsy
- ◆ Recognize epileptic seizures and the most common types of musculoskeletal disorders
- ◆ Gain a deep understanding of what Down syndrome is and how it affects children with cerebral palsy
- ◆ Recognize other syndromes such as Prader-Willi syndrome, Rett syndrome, etc.

03

Structure and Content

This syllabus has been designed based on the requirements of Physiotherapy in Cerebral Palsy in Early Pediatric Care and focuses on the classification and the different causes that lead to this condition in infants. Thus, the curriculum consists of modules that offer a broad perspective of the etiology and incidence of the different manifestations of ICP in children. From module 1, students will see their knowledge broadened, which will enable them to develop professionally, knowing that they can count on the support of a team of experts.





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The program includes a syllabus that meets the requirements to specialize in Physiotherapy in Cerebral Palsy in Pediatric Care”

Module 1. Childhood Cerebral Palsy (CCP) and Syndromes

- 1.1. CCP
 - 1.1.1. Etiology and Incidence
- 1.2. CCP Classification
 - 1.2.1. Classification According to Muscle Tone and Posture
 - 1.2.1.1. Spastic CCP
 - 1.2.1.2. Dyskinesia or Athetoid CCP
 - 1.2.1.3. Spastic CCP
 - 1.2.1.4. Mixed CCP
 - 1.2.2. Classification by Topographical Criteria
 - 1.2.2.1. Hemiplegia
 - 1.2.2.2. Paraplegia
 - 1.2.2.3. Monoplegia
 - 1.2.2.4. Diplegia
 - 1.2.2.5. Tetraplegia
 - 1.2.3. *Gross Motor Classification System*
- 1.3. Spasticity and Medical Treatments
 - 1.3.1. Causes of Spasticity
 - 1.3.2. Difference between Spasticity and Hypertonia
 - 1.3.3. Consequences of Spasticity
 - 1.3.4. Spasticity Rating Scales
 - 1.3.5. Medical-Pharmacological Treatment of Spasticity
 - 1.3.6. Physiotherapeutic Approach to Spasticity
- 1.4. Athetosis, Ataxia and Hypotonia
- 1.5. Associated Problems in CCP
- 1.6. Musculoskeletal Alterations
- 1.7. Epileptic Seizures





- 1.8. Down Syndrome
 - 1.8.1. Etiology and Incidence
 - 1.8.2. Clinical Manifestations
 - 1.8.3. Treatment
- 1.9. Prader-Willi, Angelman and Turner Syndromes
 - 1.9.1. Etiology and Incidence
 - 1.9.2. Clinical Manifestations
 - 1.9.3. Treatment
- 1.10. Other Syndromes
 - 1.10.1. Etiology and Incidence
 - 1.10.2. Clinical Manifestations
 - 1.10.3. Treatment

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A comprehensive teaching program, structured in well-developed units, oriented toward high-impact learning”

04

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. Physiotherapists/kinesiologists 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 of professional physiotherapy 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. Physiotherapists/kinesiologists 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 physiotherapist/kinesiologist 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.



The physiotherapist/kinesiologist 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 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 we trained more than 65,000 physiotherapists/kinesiologists with unprecedented success in all clinical specialties, regardless of the workload. 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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 our 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 really 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.



Physiotherapy Techniques and Procedures on Video

TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. 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 them as many times as you want.



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 unique multimedia content presentation training system 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.



05

Certificate

The Postgraduate Certificate in Physiotherapy in Cerebral Palsy in Early Pediatric Care guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Physiotherapy in Cerebral Palsy in Early Pediatric Care** 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 certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Physiotherapy in Cerebral Palsy in Early Pediatric Care**

Official Number of Hours: **150 h.**



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

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



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