

Postgraduate Certificate

Emergencies in the Newborn
after Natural Childbirth





Postgraduate Certificate

Emergencies in the Newborn after Natural Childbirth

- » 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/emergencies-newbornafter-natural-childbirth

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01

Introduction

Scientific evolution has led to the refinement of procedures for addressing emergency situations in neonates following natural childbirth. Along these lines, techniques for newborn resuscitation have been updated, and sophisticated heart rate monitoring devices have been developed, contributing to the physical well-being of the infant. Given the benefits these advancements offer to patients, specialists are obligated to familiarize themselves with them to stay on the medical cutting edge. For that reason, TECH has decided to design this program, through which students will delve into advanced techniques for neonatal resuscitation and the management of respiratory difficulties. Furthermore, its 100% online methodology will enable you to balance your professional and personal life while staying updated.





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Enroll in this program and explore the sophisticated methods for preventing neonatal jaundice”

After childbirth, newborns may experience various pathologies or clinical situations that require swift and effective intervention by health professionals to stabilize their health. As a result, rapid advances have been made in recent years in the techniques and procedures for addressing respiratory or cardiac emergencies, thus contributing to the preservation of the infant's life. For this reason, specialists who wish to fully optimize their professional updating are obligated to identify these cutting-edge protocols.

For that, TECH has created this certificate, through which students will delve into the latest scientific evidence on the management of Emergencies in the Newborn after Natural Childbirth. Throughout this academic period, they will be able to learn about advanced strategies for basic neonatal resuscitation or methods to prevent neonatal jaundice. Similarly, they will discover state-of-the-art treatments for neonatal hypoglycemia.

All of this is achieved through a comprehensive 100% online methodology that allows students to enjoy excellent learning without the need to adhere to inconvenient pre-established schedules. Additionally, they will have access to educational resources in cutting-edge formats such as interactive summaries, explanatory videos, or evaluative tests. In this way, they will experience a completely engaging and individualized education.

This **Postgraduate Certificate in Emergencies in the Newborn after Natural Childbirth** 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 Natural Childbirth and Neonatology
- ♦ 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



The Postgraduate Diploma in Emergencies in the Newborn after Natural Childbirth will enable you to learn cutting-edge techniques for neonatal resuscitation”

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Study from anywhere in the world and 24 hours a day thanks to the 100% online format of this program”

Position yourself at the forefront of medicine in just 6 weeks, with the greatest study conveniences in the educational landscape.

Update yourself with the guidance of the top experts in Natural Childbirth and through first-rate multimedia educational formats.

The program's teaching staff includes professionals from the field who contribute their work experience to this educational 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 education programmed to learn 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 students will be assisted by an innovative interactive video system created by renowned and experienced experts.



02 Objectives

This Postgraduate Certificate has been designed with the intention of providing the student with the most up-to-date knowledge about the management of Emergencies in the Newborn after Natural Childbirth. Thanks to this certificate, you will be able to delve into sophisticated methods of identifying neonatal risk factors and cutting-edge strategies for addressing respiratory difficulties. All of this in just 150 hours, while benefiting from the most advanced educational materials in the pedagogical landscape.





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Incorporate the recent advances in the management of Emergencies in the Newborn after Natural Childbirth into your daily practice”



General Objectives

- ◆ Acquire fundamental knowledge about the physiology of Natural Childbirth, ancient cultural practices, and the emotional needs of women during childbirth, as well as the implications of medical interventions
- ◆ Acquire essential skills and knowledge for the care of pregnant women and their fetuses, including promoting healthy pregnancies and identifying potential complications
- ◆ Acquire fundamental knowledge and skills in the diagnosis, management, and prevention of childbirth emergencies, with a focus on interprofessional collaboration and patient rights advocacy
- ◆ Acquire fundamental knowledge and skills in the assessment, diagnosis, and management of neonatal emergencies, with an emphasis on early problem recognition and the application of appropriate interventions
- ◆ Emphasize fundamental knowledge about the neuroscience of pregnancy, motherhood, and perinatal care, as well as the scientific evidence related to Natural Childbirth and evidence-based care practices
- ◆ Acquire fundamental knowledge about home births, including team management and organization, pregnancy, childbirth, and postpartum preparation and support, as well as the identification and management of special situations and home obstetric emergencies
- ◆ Acquire fundamental knowledge about Natural Childbirth units, such as birthing centers and hospital units, and develop skills to assess, plan, and manage these environments, ensuring a high level of care and satisfaction for women and their families
- ◆ Acquire fundamental knowledge and practical skills in newborn care, as well as the ability to provide comprehensive and safe care in this critical stage of life and collaborate with other health professionals and families to ensure the well-being of the newborn



- ♦ Acquire knowledge about the physical and emotional needs of the mother during the perinatal period
- ♦ Develop skills to provide emotional support and comprehensive care to the mother during the postpartum period, including difficult and emotionally intense situations
- ♦ Promote the prevention and care of maternal mental health during the perinatal period, including the detection and treatment of mood disorders and addressing obstetric trauma and obstetric violence
- ♦ Analyze the stages of labor and pain management and relaxation techniques
- ♦ Develop skills in creating and monitoring personalized birth plans
- ♦ Examine the importance of interdisciplinary collaboration in childbirth care
- ♦ Promote emotional preparation and support for women and their families during the childbirth process
- ♦ Acquire skills to identify and manage high-risk situations in pregnancy and childbirth
- ♦ Acquire fundamental knowledge and practical skills in newborn care, as well as the ability to provide comprehensive and safe care in this critical stage of life and collaborate with other health professionals and families to ensure the well-being of the newborn
- ♦ Acquire knowledge about the physical and emotional needs of the mother during the perinatal period
- ♦ Develop skills to provide emotional support and comprehensive care to the mother during the postpartum period, including difficult and emotionally intense situations
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- ♦ Analyze the stages of labor and pain management and relaxation techniques
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- ♦ Acquire skills to identify and manage high-risk situations in pregnancy and childbirth
- ♦ Analyze the stages of labor and pain management and relaxation techniques
- ♦ Develop skills in creating and monitoring personalized birth plans
- ♦ Examine the importance of interdisciplinary collaboration in childbirth care
- ♦ Promote emotional preparation and support for women and their families during the childbirth process
- ♦ Acquire skills to identify and manage high-risk situations in pregnancy and childbirth



Specific Objectives

- ◆ Perform an initial assessment of the newborn, including the Apgar score assessment and the identification of risk factors
- ◆ Analyze basic and advanced Neonatal Resuscitation techniques, such as bag-mask ventilation, chest compressions, endotracheal intubation, and medication administration
- ◆ Deepen knowledge about common respiratory conditions in newborns, such as Transient Tachypnea, Respiratory Distress Syndrome, and Meconium Aspiration
- ◆ Identify Neonatal Hypoglycemia, including capillary blood glucose measurement and long-term follow-up
- ◆ Evaluate neonatal jaundice, applying treatments like phototherapy and exchange transfusion
- ◆ Recognize neonatal infections, including sepsis and meningitis, and apply prophylactic and preventive measures
- ◆ Examine cardiovascular emergencies in the newborn, such as neonatal shock, congestive heart failure, and patent ductus arteriosus
- ◆ Manage the care of premature newborns, focusing on initial stabilization, nutrition, and prevention of long-term complications
- ◆ Develop knowledge in preparation and teamwork, effective communication among professionals, and follow-up and referral to specialized services in neonatal emergencies
- ◆ Examine cardiovascular emergencies in the newborn, such as neonatal shock, congestive heart failure, and patent ductus arteriosus
- ◆ Manage the care of premature newborns, focusing on initial stabilization, nutrition, and prevention of long-term complications
- ◆ Develop knowledge in preparation and teamwork, effective communication among professionals, and follow-up and referral to specialized services in neonatal emergencies





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Achieve the objectives that TECH has set for this certificate and position yourself at the forefront of the field of Natural Childbirth”

03

Course Management

To maintain the high educational standards that characterize TECH's certifications, this program has a teaching staff composed of top-notch specialists in the field of Natural Childbirth, who actively perform their hospital duties. These professionals are responsible for creating the educational content for this Postgraduate Certificate. Therefore, all the knowledge they impart to students will be highly up-to-date.





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With the guidance of the best specialists in Natural Childbirth, you will receive an excellent update in the management of emergencies in newborns”

Management



Dr. Santos Leal, Emilio

- Medical specialist in University Hospital Fundación Alcorcón
- Medical specialist in Consorcio Hospital General Universitario de Valencia
- Medical specialist at Pius Hospital de Valls
- Medical specialist at Clínica Perpetuo Socorro
- Specialty in Gynecology and Obstetrics at San Carlos Clinical Hospital
- Degree in Medicine and Surgery from the University of Cantabria



Professors

Dr. Espinosa Barraión, José Ángel

- ◆ Director of the Affective Childbirth Unit at the Hospital San Francisco de Asís
- ◆ Head of the Obstetrics and General Gynecology Team at Hospital San Francisco de Asís
- ◆ Specialist in Gynecology and Obstetrics at Clínica de la Concepción
- ◆ Master's Degree in Minimally Invasive Surgery in Gynecology from the Universidad Cardenal Herrera
- ◆ Degree in Medicine and Surgery from the Universidad Autónoma de Madrid

Ms. García García, María Dolores

- ◆ Midwife in Specialized Care at the Hospital General Universitario de Valencia
- ◆ Master's Degree in Business Management from the Universidad Católica San Antonio de Murcia
- ◆ Master's Degree in Bioethics from the Universidad Católica San Antonio de Murcia
- ◆ Expert in Breastfeeding Advice and Consultancy, Universidad Católica de Ávila
- ◆ Degree in Nursing, specializing in Midwifery

Ms. Lanza del Rivero, Cristina

- ◆ Field Psychologist at Casa de la Salud
- ◆ Postgraduate in Theory and Practice of Psychodrama, Sociodrama and Sociometry at the Universidad de Salamanca
- ◆ Postgraduate in Theory and Practice of Group Analysis at the Universidad de Salamanca
- ◆ Master's Degree in Behavior Modification from the Universidad de Salamanca
- ◆ Degree in Psychology from the Universidad de Salamanca

04

Structure and Content

The syllabus of this Postgraduate Certificate has been designed with the intention of providing the student with the most up-to-date knowledge in the field of Emergencies in the Newborn after Natural Childbirth. All the educational content you will have access to during this program is presented in various textual and multimedia formats, preserving a learning experience adapted to your study needs. Additionally, its 100% online methodology will enable you to study without neglecting your personal and professional responsibilities.





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The innovative Relearning system of this certificate will allow you to learn at your own pace and without time constraints”

Module 1. Newborn Emergencies

- 1.1. Initial Assessment of the Newborn
 - 1.1.1. Apgar Score Assessment
 - 1.1.2. Vital Signs and Physical Examination
 - 1.1.3. Identification of Risk Factors
 - 1.1.4. Immediate Stabilization
- 1.2. Basic Neonatal Resuscitation
 - 1.2.1. Positioning and Airway Patency
 - 1.2.2. Bag-Mask Ventilation
 - 1.2.3. Cardiac Massage
 - 1.2.4. Monitoring and Adjustment of Resuscitation
- 1.3. Advanced Neonatal Resuscitation
 - 1.3.1. Endotracheal Intubation
 - 1.3.2. Medication administration
 - 1.3.3. Umbilical Vascular Access
 - 1.3.4. Defibrillation and Advanced Techniques
- 1.4. Respiratory Difficulties in the Newborn
 - 1.4.1. Transient Tachypnea of the Newborn
 - 1.4.2. Respiratory Distress Syndrome
 - 1.4.3. Meconium Aspiration
 - 1.4.4. Persistent Pulmonary Hypertension
- 1.5. Neonatal Hypoglycemia
 - 1.5.1. Risk Factors and Symptoms
 - 1.5.2. Capillary Glucose Measurement
 - 1.5.3. Treatment and Prevention
 - 1.5.4. Long-Term Monitoring and Control
- 1.6. Neonatal Jaundice
 - 1.6.1. Etiology and Physiopathology Etiology and Physiopathology
 - 1.6.2. Clinical Evaluation and Diagnosis
 - 1.6.3. Treatment: Phototherapy and Exchange Transfusion
 - 1.6.4. Prevention and Follow-up





- 1.7. Neonatal Infections
 - 1.7.1. Early and Late-Onset Sepsis
 - 1.7.2. Neonatal Meningitis
 - 1.7.3. Antibiotic Prophylaxis and Treatment
 - 1.7.4. Immunization and Infection Prevention
- 1.8. Cardiovascular Emergencies in the Newborn
 - 1.8.1. Neonatal Shock
 - 1.8.2. Congestive Heart Failure
 - 1.8.3. Persistent Ductus Arteriosus
- 1.9. Management of Premature Newborns
 - 1.9.1. Initial Stabilization and Respiratory Care
 - 1.9.2. Nutrition and Growth
 - 1.9.3. Prevention of Long-Term Complications
- 1.10. Protocols and Organization in Neonatal Emergency Care
 - 1.10.1. Preparation and Teamwork
 - 1.10.2. Effective Communication Among Professionals
 - 1.10.3. Follow-Up and Referral to Specialized Services



Enjoy the most up-to-date educational content in the pedagogical landscape on the management of Emergencies in the Newborn after Natural Childbirth”

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 Emergencies in Newborn after Natural Childbirth 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 Emergencies in the Newborn after Natural Childbirth** 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 Emergencies in the Newborn after Natural Childbirth**

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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