

# Postgraduate Certificate Dysphagia in Neonates





## Postgraduate Certificate

### Dysphagia in Neonates

- » 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/dysphagia-neonates](http://www.techtute.com/us/medicine/postgraduate-certificate/dysphagia-neonates)

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# 01

# Introduction

Although dysphagia is a more frequent disorder in adulthood and advanced age, there is an incidence of premature or neonatal patients with suction-deglutition-breathing coordination problems, which require protocols for its assessment and detection. In this sense, there are many specialists who show a high interest in updating their knowledge in this field. As a result of this demand, TECH has designed this 100% online program that allows medical professionals to obtain a complete update in 6 weeks. All this, with a program that covers clinical manifestations, assessment tools and even intervention techniques to promote feeding. A unique opportunity to update with the most innovative pedagogical material, elaborated by specialists.





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*You will achieve in only 6 weeks a complete update in Dysphagia in Neonates”*

The incidence of premature Neonates with dysphagia is between 25 and 45% approximately, although this figure decreases to 5% in term Neonates. Although the percentage differences are evident, what do coincide are the significant consequences they present, such as difficulty in feeding, risk of pulmonary aspiration or delay in oral motor development.

In this context, the interest of medical professionals has focused in recent years on working in an interdisciplinary way on this disorder, incorporating the most accurate assessment and diagnostic tools. For this reason, TECH has designed this program with an interdisciplinary focus on Neonatal Dysphagia.

It is an intensive program that brings together in 180 teaching hours the most advanced information and scientific evidence for the approach to this type of patients. For this purpose, the specialized faculty of this educational proposal has created an educational proposal with numerous teaching materials based on video abstracts, high-quality detailed videos, medical literature, and clinical case studies.

In addition, thanks to the Relearning method, the students will be able to consolidate key concepts and reduce the hours spent studying and memorizing. Furthermore, you will have more freedom to self-manage the time to access the syllabus, since this program presents a 100% online and flexible methodology.

Graduates of this program only need a cell phone, tablet or computer with an Internet connection to consult it at any time of the day. Therefore, the professionals have before them an ideal option to keep up-to-date with the advances in this area through an cutting-edge university proposal.

This **Postgraduate Certificate in Dysphagia in Neonates** 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 Otorhinolaryngology and Speech Therapy
- 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 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



*If you are looking for a high quality and flexible university proposal. TECH has designed the methodology that best suits professionals"*

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*This is an educational proposal that will allow you to investigate the most current medical literature on Dysphagia in Neonates"*

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 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 educational year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*You have an extensive library of teaching resources with which to further extend the information in this program.*

*Thanks to the clinical case studies you will integrate the most effective methodology to assess the risk factors that condition feeding difficulties.*



# 02

# Objectives

This educational institution employs the most advanced technology in the educational field to provide graduates with the most advanced pedagogical tools. In this way, TECH favors that the specialists obtain the best update of their diagnostic competences and skills for the use of the most accurate tools in the assessment of Dysphagia in Neonatal patients. In addition to all this, there is an excellent team of teachers who will answer any questions you may have about the content of this program.







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*Delve into the most current tools used to assess the environment and family of an infant with Dysphagia”*



## General Objectives

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- Update theoretical and practical knowledge about Dysphagia
- Develop clinical assessment skills
- Design and implement treatment plans according to the most current procedures
- Delve into the most up-to-date technologies and techniques
- Encourage interdisciplinary collaboration





## Specific Objectives

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- ♦ Delve into the anatomy and physiology of swallowing in Neonates
- ♦ Recognize the signs and symptoms of Dysphagia in Neonates

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*It delves into the most recent scientific evidence on the use of enteral feeding in neonates with Dysphagia”*



03

# Course Management

The management and teachers of this university program have been selected for their high level of competence in the management of patients with Dysphagia. In this way, the students who take this educational option will have at their disposal an excellent program prepared by specialists in Speech Therapy and Otorhinolaryngology, outstanding in their respective health areas. In this way, you will get a much more interdisciplinary approach to Dysphagia in Neonatal patients.



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*A Postgraduate Certificate made up of leading specialists in the field of Speech Therapy and Otolaryngology”*

## International Guest Director

Julie Stierwalt, M.D., is a leading consultant in the Division of Speech Pathology within the Department of Neurology at the Mayo Clinic in Rochester. With an outstanding track record in the diagnosis and treatment of Speech, Language, Cognitive and Swallowing Disorders, she has set a standard of excellence in her field. Her clinical focus has been on optimizing communication for people with both acute and progressive conditions.

She has also been recognized internationally for her research and contributions in areas such as Aphasia, Frontotemporal Dementia, Amyotrophic Lateral Sclerosis (ALS) and Functional Speech Disorders. In fact, her publications in high impact scientific journals have provided valuable insights into the treatment and diagnosis of these disorders, significantly influencing clinical practice and health policy. In addition, her interest in telepractice has been crucial in expanding access to Speech Pathology services, especially in times of pandemic.

She has also been the recipient of numerous awards and honors throughout her career, including the Leadership Award from the College of Communication and Information at Florida State University, as well as her appointment as a Fellow of the American Speech-Language-Hearing Association (ASHA). In this way, with her unwavering commitment to improving the communication and quality of life of her patients, Dr. Julie Stierwalt has become a key figure in the field of Speech Pathology, as well as an international reference in the treatment of Speech, Language and Swallowing Disorders. In this regard, her work continues to inspire healthcare professionals and benefit countless patients around the world.



## Dr. Stierwalt, Julie

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- Consultant for the Division of Speech Pathology, Department of Neurology, Mayo Clinic, United States
- Speech-Language Pathologist at the Mayo Clinic
- Specialist in Neurological Disorders of Communication
- PhD in Speech-Language Pathology from the University of Iowa
- Master's Degree in Speech Pathology, University of Northern Iowa
- B.S. in Speech Pathology, University of Northern Iowa
- Member of: Alternative and Augmentative Communication Task Force (Division of Speech Pathology), Cognitive Evaluation Committee (Division of Speech Pathology), Dysphagia Research Society, American Speech-Language-Hearing Association



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

## Management



### Mr. Maeso i Riera, Josep

- ◆ Director of the Otorhinolaryngology Section of the Otorhinolaryngology Ophthalmology Center of Egara.
- ◆ Assistant Physician of the Otorhinolaryngology Service in the Head and Neck Section of the Mútua de Terrass University Hospital.
- ◆ Physician in charge of the Dacryology Section (Ophthalmology Service) of the Delfos Medical Center.
- ◆ Head of the Otorhinolaryngology Department at Sanitas CIMA Hospital.
- ◆ Collaborating physician in the Otorhinolaryngology office of the Sanitas offices.
- ◆ Specialist in Otorhinolaryngology
- ◆ Doctor in Medicine and Surgery from the Autonomous University of Barcelona
- ◆ Degree in Medicine and Surgery from the Autonomous University of Barcelona
- ◆ Diploma in Hospital Management from the School of Business Administration and Management.
- ◆ Member of: Catalan Society of Oto-Rhino-Laryngology, Spanish Society of Otolaryngology and Cervico-Facial Pathology,, American Academy of Otolaryngology-Head and Neck Surgery





### **Ms. Marcos Galán, Victoria**

- ♦ Director of the Crecemos contigo center and Neuro-logist
- ♦ Specialist in Voice Pathology and Myofunctional Therapy
- ♦ Professor, Department of Physiotherapy in Health Sciences, Castilla La Mancha University
- ♦ Trainer in health specialization courses in Speech Therapy Intervention
- ♦ Specialist in Voice Pathology from the University of Alcalá de Henares
- ♦ Degree in Speech Therapy from the Complutense University of Madrid

## **Professors**

### **Ms. Casero Tapiador, Claudia**

- ♦ Speech therapist at Neuro-Logo Center
- ♦ Graduate in Speech Therapy from the University of Castilla-La Mancha
- ♦ Expert in Psychomotricity and Neuromotor skills by the International University of La Rioja
- ♦ Training in Early Childhood Language Stimulation and Early Childhood Care by the Antonio de Nebrija University
- ♦ Member of: Breastfeeding Committee of the General University Hospital of Ciudad Real

# 04

## Structure and Content

The plan of study of this university program has been designed to offer the students Dysphagia in Neonates, both in the tools for assessment, such as the development of oral skills of newborns or the most effective feeding strategies. All this, thanks to the Relearning methodology, based on the continuous reiteration of the essential content, which will allow the graduate to focus on the most important concepts of this advanced program.



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*An educational proposal with the best multimedia teaching material at your fingertips. Get up-to-date with TECH”*

## Module 1. Dysphagia in Neonatology

- 1.1. Sucking and Swallowing Reflexes
  - 1.1.1. Nourishing Suction
  - 1.1.2. Search Reflex
  - 1.1.3. Primary Swallowing Reflex
  - 1.1.4. Secondary Swallowing Reflex
- 1.2. Development of Oral Skills in the Neonate
  - 1.2.1. Reflexes Involved in Speaking Skills
  - 1.2.2. Gestational Age at Which the Reflexes and Cranial Nerves Involved Appear
  - 1.2.3. How to Stimulate Oral Reflexes
  - 1.2.4. Conclusions
- 1.3. Oral Skills Necessary for Feeding in the Neonate
  - 1.3.1. Suction-Deglutition-Breathing Coordination
  - 1.3.2. Importance of Regional Stability
  - 1.3.3. Non-Nutritive Suction
  - 1.3.4. Nourishing Suction
- 1.4. Underlying Medical Conditions in Neonates
  - 1.4.1. Congenital malformations
  - 1.4.2. Associated Neurological Disorders
  - 1.4.3. Structural Abnormalities in the Mouth or Tongue
  - 1.4.4. Diseases of the Intestinal Tract
- 1.5. Characteristics of a UCIN
  - 1.5.1. What is a Neonatal Unit
  - 1.5.2. Causes of Hospital Admission
  - 1.5.3. Neonatal Unit Evaluation
  - 1.5.4. Neonatal Unit Intervention
- 1.6. Risk Factors that Condition the Development of Feeding Difficulties
  - 1.6.1. Prematurity
  - 1.6.2. Underweight at birth
  - 1.6.3. Immature Organ Systems
  - 1.6.4. Pathologies





- 1.7. Clinical Manifestations
  - 1.7.1. Signs and Symptoms of Dysphagia in Infants
  - 1.7.2. Impact of Stress on Nutrition
  - 1.7.3. Clinical Cases
- 1.8. Tools for Assessing Oral Skills for Feeding
  - 1.8.1. Assessment of Pre-Feeding Status Prior to Feeding
  - 1.8.2. Assessment of Bottle Feeding and Breast Feeding
  - 1.8.3. Assessment of Stress in Oral Skills
  - 1.8.4. Environment and Family Assessment
- 1.9. Tools to Intervene on Oral Skills for Feeding
  - 1.9.1. Direct Intervention
  - 1.9.2. Indirect Intervention
  - 1.9.3. Adaptive Intervention
  - 1.9.4. Compensatory Intervention
- 1.10. Neonatal Dysphagia and Family
  - 1.10.1. Importance of Family Involvement
  - 1.10.2. Feeding Strategies in Breastfeeding
  - 1.10.3. Bottle Feeding Strategies
  - 1.10.4. Conclusions

“Delve, when and where you want, into the most frequent signs and symptoms in Dysphagia in the baby”

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 Dysphagia in Neonates 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 Dysphagia in Neonates** 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 Dysphagia in Neonates**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**







## Postgraduate Certificate

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