

# Postgraduate Certificate

## Skin Cancer Detection and Prevention





## Postgraduate Certificate Skin Cancer Detection and Prevention

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

Website: [www.techtute.com/in/medicine/postgraduate-certificate/skin-cancer-detection-prevention](http://www.techtute.com/in/medicine/postgraduate-certificate/skin-cancer-detection-prevention)

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# 01

# Introduction

Recent studies confirm that currently a high number of people worldwide are diagnosed with skin cancer every year. This is why it is essential for medical professionals to keep up to date with the latest advances in the detection and prevention of this disease. Consequently, TECH has developed this program that offers the clinical specialist the possibility to improve his knowledge in the genetics of Skin Cancer, Non-Melanoma Skin Cancer and Dermatoscopy. All this through a 100% online pedagogical format, which gives the professionals the possibility of carrying out their daily activities without being subject to a pre-established schedule.





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*With this course you will be able to improve your knowledge of the anatomy, functions and structure of the skin in only 6 weeks"*

Skin Cancer has become a public health problem of great magnitude due to its high incidence and the need to address its detection and prevention in an effective manner. Given this situation, it is of vital importance that medical professionals are properly informed about the latest advances in the detection and prevention of Skin Cancer. In addition, early identification of suspicious lesions and proper treatment of patients are essential to achieve a good recovery and reduce the morbidity and mortality associated with this disease.

With this in mind, TECH has designed a program that provides physicians with a complete upgrade in the latest scientific evidence that will allow them to apply diagnostic and evaluative techniques in order to detect this type of pathologies more efficiently and early.

This way, the professional will deepen in the anatomy, functions, structural characteristics, the epidermis, dermis, hypodermis and skin appendages, the analysis, inheritance and risk associated with this type of cancer and the associated genes and syndromes. You will also expand your knowledge of the different factors that can increase the chances of developing Skin Cancer, such as skin photo-types, exposure to radiation or certain chemicals.

A Postgraduate Certificate that is developed with the support of innovative multimedia resources, which will be stored in a virtual library, accessible at any time, without restrictions. In addition, the program's methodology includes the Relearningsystem, which guarantees the graduate the easy memorization of complex concepts in less time. All this with the flexibility needed by the medical specialists to make their professional responsibilities compatible with a high-level university proposal.

This **Postgraduate Certificate in Skin Cancer Detection and Prevention** contains the most complete and up-to-date educational program on the market. The most important features include:

- ◆ The development of case studies presented by experts in Dermatology, Oncology and Plastic and Reconstructive Surgery
- ◆ 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



*You will delve into the analysis of the associated genes, inheritance and risk of skin cancer and the most appropriate techniques for its approach"*

“

*In only 6 weeks you will deepen in the advances in the fast and effective detection of Skin Cancer”*

*You will have access to rigorous scientific literature on the prevention of skin cancer.*

*Thanks to TECH you will be up to date with the symptoms that indicate a possible Skin Cancer and you will act according to the protocol of each pathology.*

The program includes in its teaching staff professionals from the sector who bring to this course the experience of their work, as well as renowned specialists from prestigious societies and universities.

Its 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 an immersion 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 throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

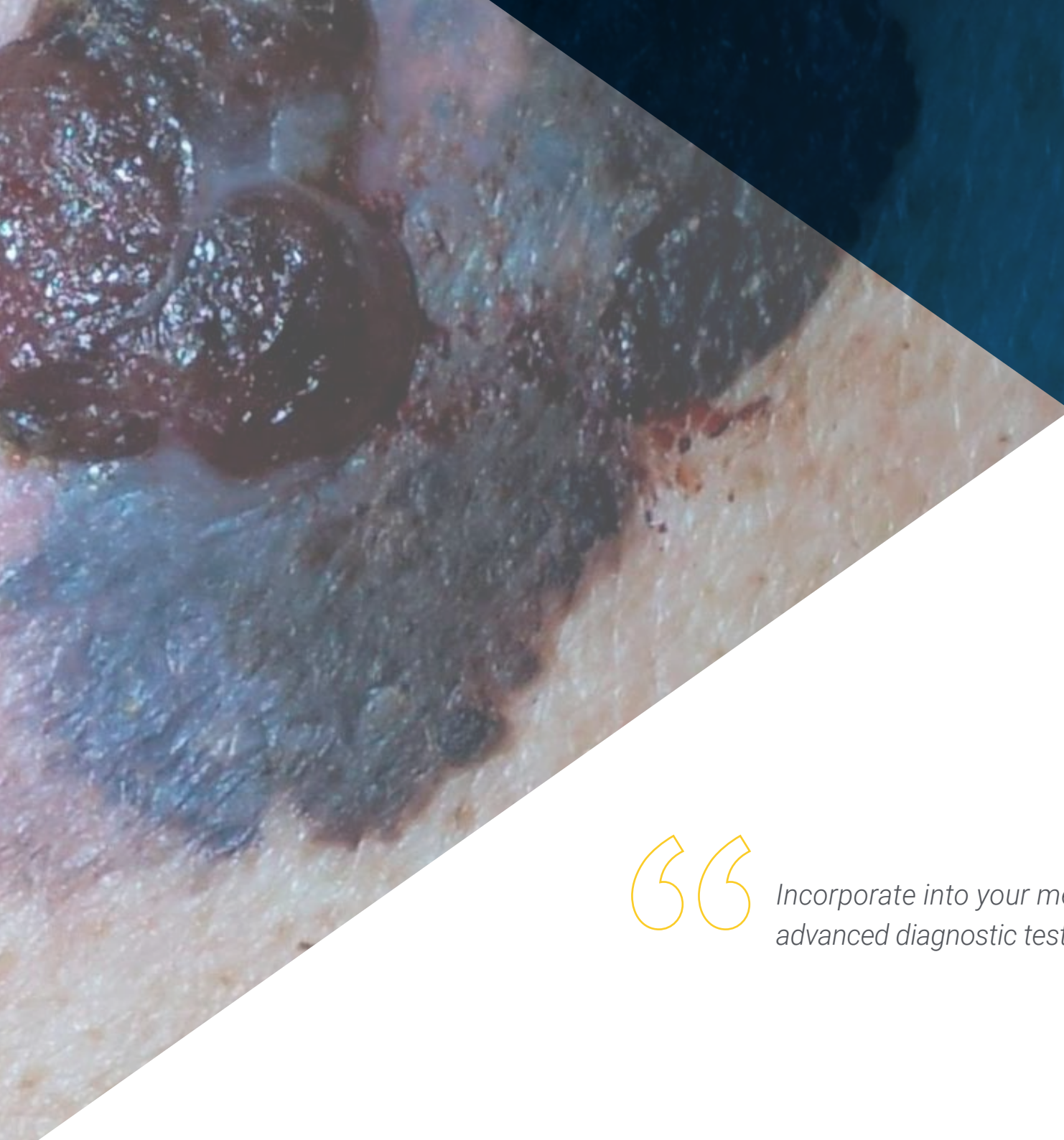


# 02 Objectives

The purpose of this program is to provide the physician with an upgrade in the knowledge required at the time of detecting and preventing skin cancer. This way, the specialist will be able to provide guidance to patients on how to protect their skin from damage caused by sun exposure and other known risk factors. For this reason, this degree is offered in a 100% online format that will allow you to access all the multimedia content stored in a virtual library from any device with an internet connection.







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*Incorporate into your medical work the most advanced diagnostic tests used in Skin Cancer”*



## General Objectives

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- ◆ Identify and classify the different types of skin cancer, including melanoma, basal cell carcinoma, squamous cell carcinoma and other less common subtypes
- ◆ Understand the risk factors associated with the development of skin cancer and its importance in prevention and early detection
- ◆ Perform a thorough clinical evaluation of patients with cutaneous cancer, including history, physical examination and interpretation of complementary tests
- ◆ Apply appropriate diagnostic techniques to confirm or rule out the presence of skin cancer, such as dermoscopy, biopsy and cytology
- ◆ Develop skills in the therapeutic management of different types of Skin Cancer, including surgery, radiotherapy, photodynamic therapy and the use of systemic therapies
- ◆ Evaluate and manage the complications and side effects associated with Skin Cancer treatments, such as infections, scarring and pigmentary disorders
- ◆ Provide genetic counseling to patients and their families in cases of hereditary cutaneous cancer or predisposing genodermatoses
- ◆ Promote the prevention of skin cancer through education and awareness of sun protection methods and early detection of suspicious lesions
- ◆ Participate in multidisciplinary oncology care teams, collaborating with oncologists, dermatologists, surgeons and other healthcare professionals in the integral management of patients
- ◆ Constantly keep up to date with the latest advances and research in the field of skin cancer in order to provide evidence-based care





## Specific Objectives

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- ◆ Identify and describe the different types of skin cancer, including melanoma, basal cell carcinoma, squamous cell carcinoma and other less common subtypes
- ◆ Understand the risk factors associated with the development of skin cancer and their relationship to sun exposure, family history and genetic conditions
- ◆ Be updated on the clinical and dermatoscopic features of skin lesions suspicious for cancer and to differentiate them from benign lesions
- ◆ Be up to date on the clinical and dermatoscopic features of skin lesions suspicious for cancer and differentiate them from benign lesions

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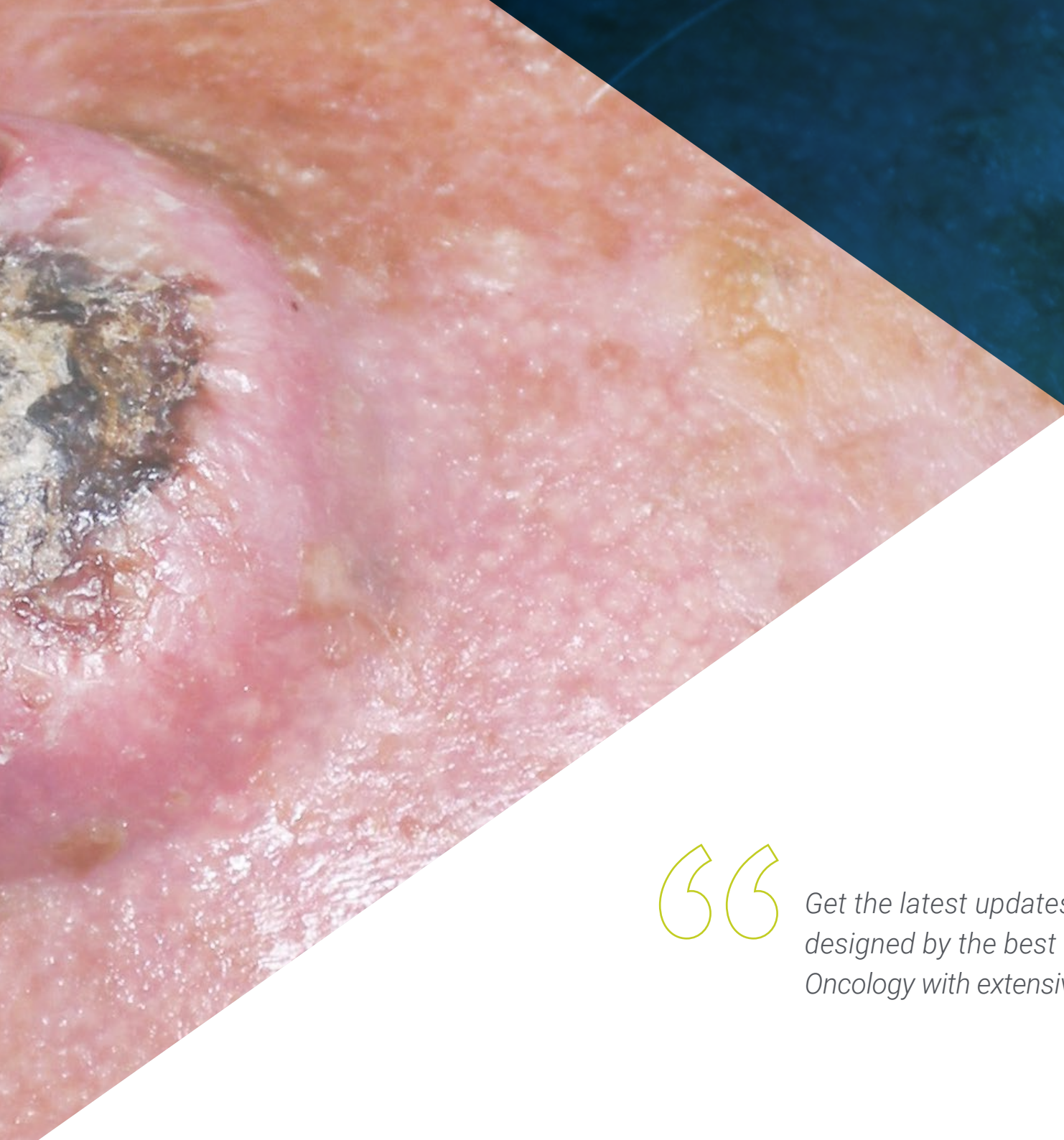
*You will achieve an effective upgrade in the analysis of hyper-pigmented lesions and dermatoscopic parameters in the BLINCK algorithm”*

03

# Course Management

With the purpose of preserving the academic quality that characterizes TECH programs, this Postgraduate Certificate has a faculty made up of recognized experts in the field of Radiation Oncology. These professionals, who are currently active in leading hospitals, have extensive skills in the diagnosis and treatment of various types of cancer, as well as in their corresponding attention and care. This way, the knowledge that the medical specialist will acquire will be in accordance with the latest scientific evidence in this field.





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*Get the latest updates through a curriculum designed by the best specialists in Radiation Oncology with extensive experience in Skin Cancer”*

## Management



### Dr. Payano Hernández, Stephanyie

- ♦ Radiation Oncology at the Rey Juan Carlos University Hospital
- ♦ Radiation Oncology, Madrid Sanchinarro University Hospital
- ♦ Area Specialist in the Radiation Oncology Service at Genesis Care
- ♦ Faculty Physician in the Treatment Oncology Service at the Rey Juan Carlos Móstoles University Hospital
- ♦ Professor and honorary tutor of the Department of Medicine, Oncology Area at the Rey Juan Carlos University
- ♦ Professor of the Professional Master's Degree in Arteriovenous Malformation at TECH Technological University
- ♦ Degree in Medicine from the Ibero University
- ♦ Member of SEOR, ESTRO, ILOG, ICAPEM



### **Dr. Samper, Pilar**

- ♦ Head of the Radiation Oncology Service at the Rey Juan Carlos University Hospital
- ♦ Physician in the Radiation Oncology Fields at the 12 de Octubre University Hospital
- ♦ Area Specialist at the Gómez Ulla Central Defense Hospital
- ♦ Professor of the University Foundation San Pablo CEU del Ciclo: Senior Technician in Radiotherapy
- ♦ Associate Professor in Health Sciences. Department of Medical Specialties. Fields: Radiology and Physical Medicine at the University of Alcalá de Henares
- ♦ Professor and honorary tutor of the Department of Medicine, Oncology Area of the Rey Juan Carlos University
- ♦ Professor at the Spanish School of Radiation Oncology
- ♦ Doctorate in Medicine from the University of Alicante
- ♦ Degree in Medicine and Surgery from the University of Alicante
- ♦ Member of SEOR, GOECP, URONCOR, GEBT, GICOR, ESTRO

# 04

## Structure and Content

This Postgraduate Certificate has the most relevant information on Skin Cancer Detection and Prevention. This way, the professional in Medicine is guaranteed to have a deeper understanding of the different factors that can increase the chances of developing Skin Cancer. In addition, you will expand your technical skills in the analysis of the risk factors associated with this disease. All this, in addition, with a theoretical-practical approach, available 7 days a week, 24 hours a day.





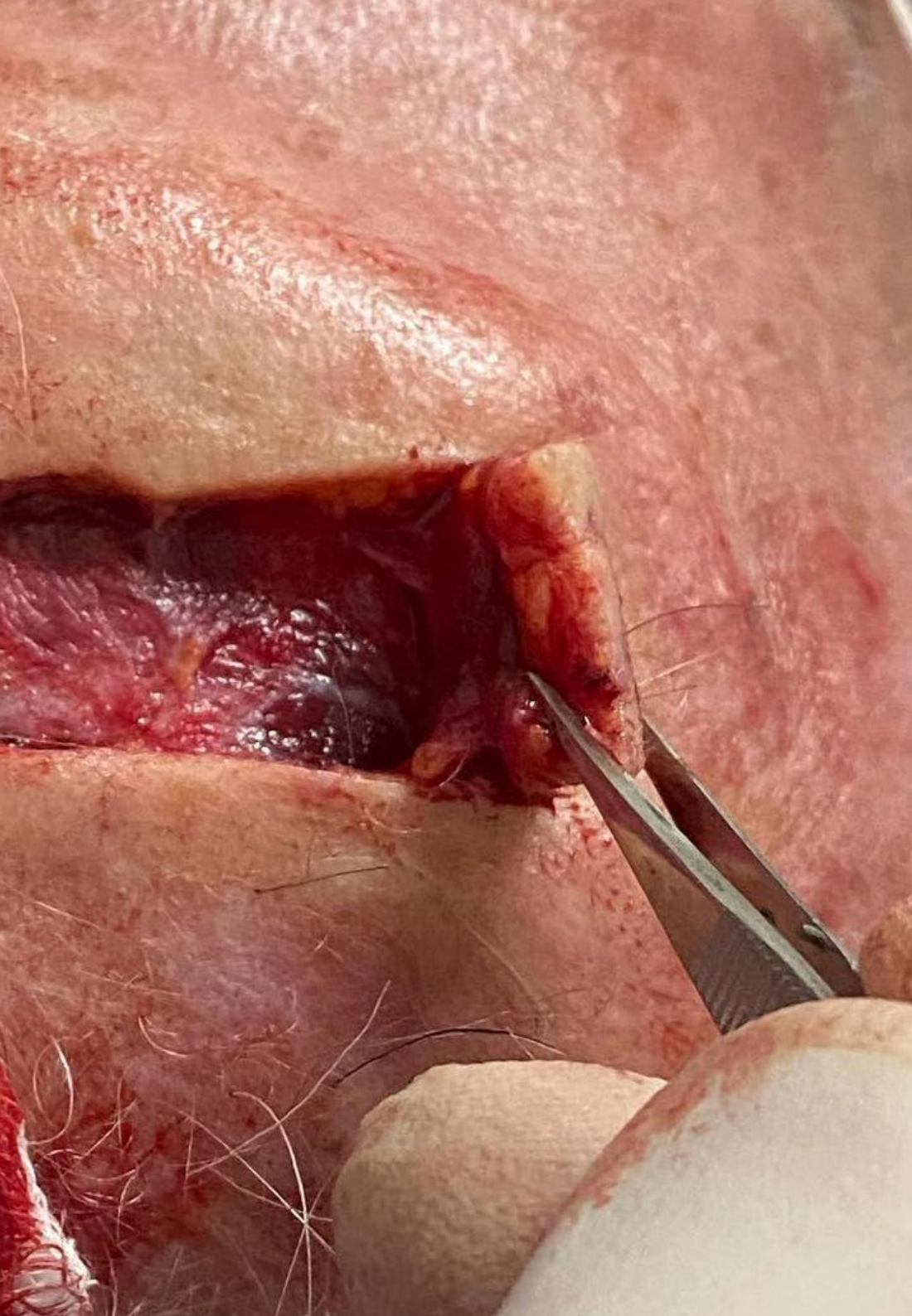
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*With the Relearning method you will optimize your study time by efficiently concentrating on the most relevant concepts"*

## Module 1. Skin Cancer

- 1.1. Advanced skin biology
  - 1.1.1. Skin Anatomy
  - 1.1.2. Functions of the Skin
  - 1.1.3. Structural characteristics of the skin
  - 1.1.4. Epidermis, Dermis, Hypodermis, Skin appendages
- 1.2. Genetics of skin cancer
  - 1.2.1. Analysis of the genetics of skin cancer
  - 1.2.2. Heredity and risk
  - 1.2.3. Genes associated with skin cancer
  - 1.2.4. Syndromes associated with Skin Cancer
  - 1.2.5. Other genes with possible susceptibility in Melanoma
- 1.3. Risk Factors
  - 1.3.1. Description of risk factors
  - 1.3.2. Skin photo-types
  - 1.3.3. Radiation exposure
  - 1.3.4. Exposure to certain chemicals
- 1.4. Prevention of skin cancer
  - 1.4.1. Evaluation of skin cancer prevention
  - 1.4.2. Photo protection
  - 1.4.3. Sunscreens
  - 1.4.4. Other Measures
- 1.5. Classification
  - 1.5.1. Non-Melanoma Skin Cancer
  - 1.5.2. Basal Cell Carcinoma
  - 1.5.3. Squamous cell carcinoma of the skin
  - 1.5.4. Melanoma
- 1.6. Clinical signs and symptoms
  - 1.6.1. Signs and symptoms of basal cell carcinoma
  - 1.6.2. Signs and symptoms of squamous cell carcinoma
  - 1.6.3. Signs and symptoms of Melanoma
  - 1.6.4. Signs and symptoms of less common types of skin cancer





- 1.7. Diagnostic tests in skin cancer
  - 1.7.1. Analysis of diagnostic tests in Skin Cancer
  - 1.7.2. Confocal reflectance microscopy
  - 1.7.3. Biopsies
  - 1.7.4. Skin ultrasound
- 1.8. Dermatoscopy
  - 1.8.1. Analysis of dermoscopy of hyperpigmented lesions
  - 1.8.2. Description of the dermoscopic parameters used in the 3-point rule and the BLINCK algorithm
  - 1.8.3. Dermatoscopic diagnostic procedure
  - 1.8.4. Three-point rule
- 1.9. Margin study method
  - 1.9.1. Considerations on the margins of lateral and deep resection in the pieces of skin tumor excision
  - 1.9.2. Evaluation of the surgical margins of basal cell carcinoma.dermoscopic
  - 1.9.3. Evaluation of Melanoma margins
- 1.10. Molecular Biology Techniques
  - 1.10.1. Evaluation of molecular biology techniques
  - 1.10.2. Molecular biology in dermatological diagnostics
  - 1.10.3. Obtaining DNA/RNA
  - 1.10.4. Nucleic acid hybridization techniques



*With this 100% online degree you will be up to date with nucleic acid hybridization techniques in the diagnosis of Skin Cancer"*

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 Skin Cancer Detection and Prevention 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 Skin Cancer Detection and Prevention** 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 Skin Cancer Detection and Prevention**

Official N° 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 languages  
virtual classroom



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