

# Postgraduate Certificate

## Chronic Myeloproliferative Neoplasms



## Postgraduate Certificate

### Chronic myeloproliferative neoplasms

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/chronic-myeloproliferative-neoplasms](http://www.techtute.com/us/medicine/postgraduate-certificate/chronic-myeloproliferative-neoplasms)

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# 01 Introduction

The area of hematology is of vital importance in public health, as it deals with diseases that affect the production of blood cells and their proper functioning in the body. In this context, TECH has created a complete program that is presented as a high quality educational alternative for specialists in oncology, who seek to deepen the treatment of chronic myeloproliferative neoplasms. The Postgraduate Certificate is taught 100% online and has a pedagogical methodology based on Relearning, which allows the student to learn in a meaningful way and apply the knowledge in real situations. In addition, it stands out for its flexibility in organizing academic resources and adapting to the needs of each student.







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*Do you want to update your knowledge in the field of Oncohematology? Discover everything you need to know with this Postgraduate Certificate in Chronic Myeloproliferative Neoplasms"*

Advances in medicine have led to the identification of several hematological diseases, including Chronic Myeloproliferative Neoplasms (CMN). These are characterized by an excessive production of blood cells in the bone marrow and can affect people of all ages. These abnormalities can have serious consequences on patients' quality of life. That is why it is essential to have specialists trained in diagnosis and treatment in this field of health.

The Postgraduate Certificate in Chronic Myeloproliferative Neoplasms offers a complete and updated qualification in the field of Oncohematology. The program focuses on providing the hematology specialist with the most relevant and current scientific evidence on the diagnosis and treatment of CMNs. All this with the aim of improving patients' quality of life

The pedagogical methodology of Relearning, combined with a practical and dynamic approach, allows the student to deepen theoretical knowledge and apply it to clinical practice. In addition, the Postgraduate Certificate is 100% online, which facilitates access to the training from anywhere and at any time.

Flexibility in organizing academic resources is another of the outstanding features of the program in Neoplasms. Students have access to innovative teaching material 24 hours a day, 7 days a week. In this way, students can adapt the pace of learning to their needs and time availability.

This **Postgraduate Certificate in Chronic Myeloproliferative Neoplasms** contains the most complete and up-to-date scientific program on the market. The most important features include::

- ♦ The development of case studies presented by experts in myeloproliferative neoplasms
- ♦ 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 work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*Enroll to acquire the skills you need to offer your patients the best possible treatment"*

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*Get a global vision focused on the interests of the medical industry with this Postgraduate Certificate”*

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 professional 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 professional must try to solve the different professional practice situations that are presented throughout the academic course. This will be done with the help of an innovative system of interactive videos made by renowned experts.

*Looking for flexible training tailored to your needs? Access the Postgraduate Certificate in Chronic Myeloproliferative Neoplasms, which is 100% online.*

*Get quality training with TECH and become a leading specialist in the field of polycythemia vera.*



# 02 Objectives

The objective of the Postgraduate Certificate in Chronic Myeloproliferative Neoplasms is to provide the hematology specialist with the latest and most relevant scientific evidence in this field. The student will be updated on the new diagnostic classifications of these diseases, the selection of the most appropriate treatment and a global vision that moves away from the interests of the pharmaceutical industry. This focus on the real long-term benefit of patients translates into quality education for health professionals. For this reason, TECH has established a series of general and specific objectives for the satisfaction of future graduates, as follows.





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*Discover the most interesting career opportunities in the field of Oncohematology with this Postgraduate Certificate covering Chronic Myeloproliferative Neoplasms, including Primary Myelofibrosis”*



## General Objectives

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- ♦ Delve into the etiopathogenesis, diagnosis and prognosis of myelodysplastic syndromes
- ♦ Update the pharmacological knowledge used in Oncohematology
- ♦ Investigate the most recent scientific publications on the most appropriate treatments in LAL
- ♦ Delve into the growing problem of resistant microorganisms
- ♦ Assess the evidence and current recommendations on prophylaxis
- ♦ Deepen in the routine care of oncohematological patients affected by SARS-CoV2





## Specific Objectives

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- ♦ Analyze etiopathogenesis and prognosis up to treatment, including the experience with different TK inhibitors, as well as the controversial point of discontinuation
- ♦ Delve into MPNs such as PV, ET and myelofibrosis, emphasizing their sometimes difficult differential diagnosis, and therapeutic novelties
- ♦ To identify the different prognostic scales in myelofibrosis
- ♦ Develop a critical spirit towards the different levels of evidence for drugs in MPN

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*Register at TECH and learn from the best specialists in Hematology and Hemotherapy in the medical panorama with the Postgraduate Certificate in Chronic Myeloproliferative Neoplasms”*



03

# Structure and Content

The curriculum of this Postgraduate Certificate brings together the most updated content in Chronic Myeloproliferative Neoplasms in 150 teaching hours. The graduate will deepen in the latest scientific evidence on the diagnosis and pharmacological treatments of this syndrome. Likewise, the program will also cover invasive fungal infections, leukemia or complications derived from Allogeneic Hemopoietic Progenitor Transplant. This academic itinerary includes innovative didactic material with access at any time of the day, 7 days a week.



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*Become an expert in the detection, diagnosis and appropriate treatment for leukemoid reaction"*



## Module 1. Chronic myeloproliferative neoplasms

- 1.1. Chronic Myeloid Leukemia. Diagnosis and clinical
  - 1.1.1. Introduction. Epidemiology
  - 1.1.2. Pathogenesis Diagnostic
  - 1.1.3. Prognosis
- 1.2. LMC, Differential Diagnosis
  - 1.2.1. Leukemoid reaction
  - 1.2.2. LMMC
  - 1.2.3. Atypical CML, CNL and others
- 1.3. CML. Treatment
  - 1.3.1. Tirosin Kinasa Inhibitor. Imatinib
  - 1.3.2. Second-generation TKi. Nilotinib. Dasatinib. Bosutinib
  - 1.3.3. Other TKIs: Ponatinib. Asciminib
  - 1.3.4. Other treatments TPH Role
- 1.4. Polycythemia Vera
  - 1.4.1. Diagnosis and clinical
  - 1.4.2. Criterios OMS. Differential Diagnosis
  - 1.4.3. Prognosis. Low Risk Adated Treatment
- 1.5. High-risk polycythemia Vera, treatment
  - 1.5.1. Initial cytoreduction options
  - 1.5.2. Rescue options
  - 1.5.3. Pregnancy Transformation
- 1.6. Essential Thrombocythemia
  - 1.6.1. Diagnosis and clinical
  - 1.6.2. WHO Criteria
  - 1.6.3. Differential Diagnosis





- 1.7. Essential Thrombocythemia: prognosis and treatment
  - 1.7.1. Prognosis
  - 1.7.2. Cytoreduction indications
  - 1.7.3. Hydroxyurea vs. Anagrelide
- 1.8. Primary Myelofibrosis
  - 1.8.1. Clinical Pathogenesis
  - 1.8.2. Diagnosis. WHO Criteria
  - 1.8.3. Prognosis Scales
- 1.9. Myelofibrosis Treatment
  - 1.9.1. Anemia management
  - 1.9.2. JAK Inhibitors
  - 1.9.3. New Drugs in Myelofibrosis
- 1.10. TPH in Myelofibrosis
  - 1.10.1. TPH candidate selection
  - 1.10.2. MF conditioning

“With TECH you will have at your fingertips the most cutting-edge web-based educational resources through multiple channels”

# 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.





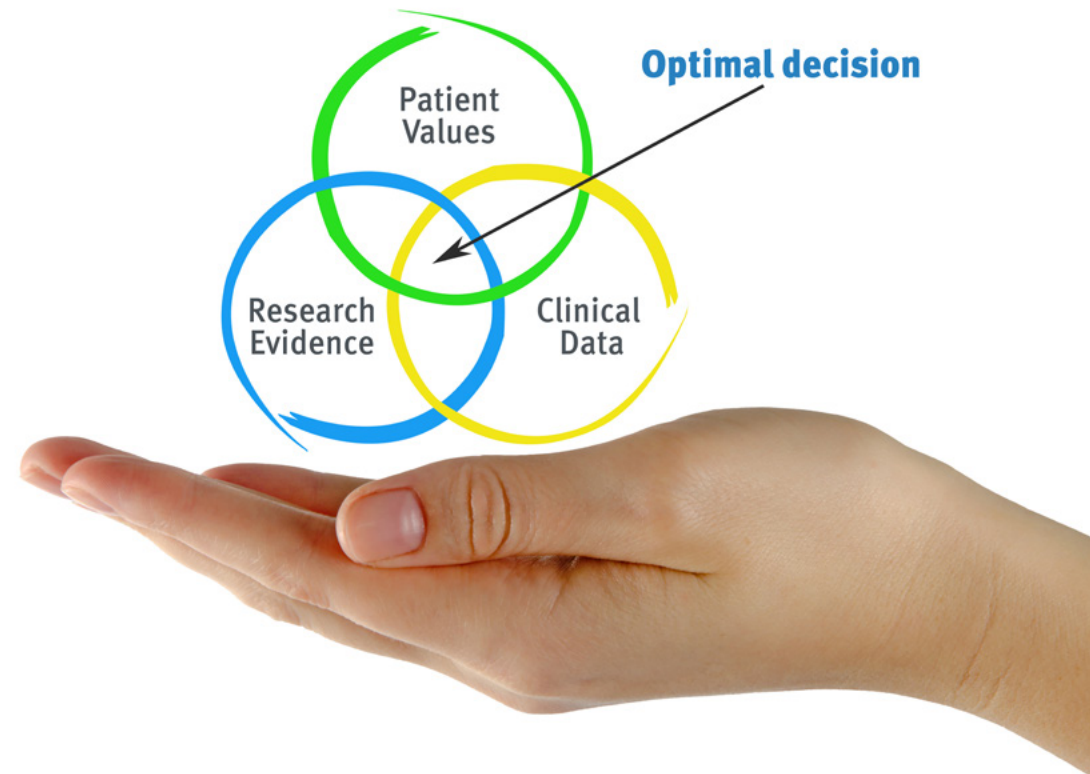
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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. 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. Gervas, 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.







# 05 Certificate

The Postgraduate Certificate in Chronic myeloproliferative neoplasms 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 Chronic Myeloproliferative Neoplasms** 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

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Accreditation: **6 ECTS**





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