



Postgraduate Certificate

Update on Coagulation, Thrombosis and Fibrinolysis Tests

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 8h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/postgraduate-certificate-update-coagulation-thrombosis-fibrinolysis-tests

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Certificate

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tech 06 | Introduction

At present, the specialty of hematology is a pioneer in innovation in diagnosis and treatment and it should be noted that hematologists are leaders in the clinical application of immunotherapy in the fight against the different blood cancers.

Different scientific societies around the world that deal with this specialty strive to rapidly incorporate the results of biomedical research into clinical practice, especially the treatment of hematological malignancies (blood cancers), but also iron deficiency and anemias, the administration of direct-acting oral anticoagulants-DOACs, bone marrow transplants and, in the long-term, research focused on obtaining artificial blood, with the ultimate aim of ensuring that healthcare managers include these techniques in the services provided by national healthcare systems as soon as possible.

The reasons why hematology and hemotherapy is one of the fastest progressing medical disciplines in terms of knowledge and technology in recent decades lie in the integration of biological and clinical knowledge, which has led to a better understanding of the mechanisms of disease, thereby facilitating the development of more appropriate guidelines for clinical action. All of this has contributed to Hematology and Hemotherapy reaching a remarkable degree of maturity and justifying its future as an integrated specialty, this being the ideal framework for training and improving specialists in this area of medical knowledge.

This Postgraduate Certificate in Update on Coagulation, Thrombosis and Fibrinolysis Tests endorses the latest advances in research and the highest scientific evidence, with a robust and didactic teaching program that positions it as a teaching product of the highest scientific rigor at international level, aimed at health professionals, who in their daily clinical practice face the care of patients or populations with hemorrhagic diseases. In addition, the training program is based on a multidisciplinary approach to its subjects, which allows training and professional development in different areas.

This Postgraduate Certificate in Update on Coagulation, Thrombosis and Fibrinolysis **Tests** is the most comprehensive and up-to-date educational program on the market. The most important features of the program include:

- Clinical symptoms cases presented by experts in hematology
- The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional
- Diagnostictherapeutic developments on assessment, diagnosis, and treatment in hematology patients
- Practical exercises where the self-assessment process can be carried out to improve learning
- The Iconography of clinical and diagnostic imaging tests
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- With special emphasis on evidence-based medicine and research methodologies in hematology
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content available from any fixed or portable device with Internet connection



With the Postgraduate Certificate in Coagulation, Thrombosis and Fibrinolysis Testing Update you have the opportunity to update your knowledge in a comfortable way and without renouncing to the maximum scientific rigor"



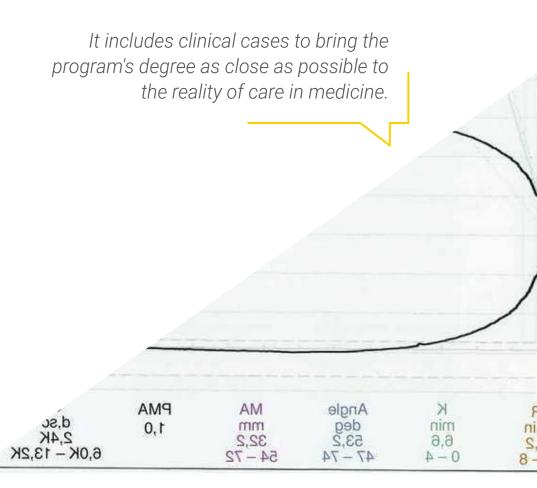
This Postgraduate Certificate is the best investment you can make to acquire the best and most up-to-date training in Update on in Coagulation, Thrombosis and Fibrinolysis Testing"

The teaching body is made up of respected and renowned professionals with extensive experience in healthcare, teaching, and research, who have work in many countries where these diseases are prevalent.

The methodological design of this program, developed by a multidisciplinary team of e-learning experts, integrates the latest advances in educational technology for the creation of numerous multimedia educational tools allow the professional, based primarily on the problem-based learning method, to address real problems in their daily clinical practice, which will allow them to advance by acquiring knowledge and developing skills that will impact their future professional work.

It should be noted in this program that each of the contents generated, as well as the videos, self-evaluations, clinical cases and exams, have been thoroughly reviewed, updated, and integrated by the team of experts that make up the faculty, to ensure that the learning process is orderly and instructive in order to achieve the program's objectives.

This program offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.





tech 10 | Objectives



General Objective

Update the specialist's knowledge through the latest scientific evidence in the diagnosis
and treatment of hematological diseases, in order to develop measures to prevent,
diagnose, treat, and rehabilitate hematological diseases, with a multidisciplinary and
integrative approach that supports medical care with the highest quality standards for
managing and monitoring hematology patients.



Don't miss the opportunity and get up to date on new developments in in Coagulation, Thrombosis and Fibrinolysis Testing to incorporate them into your daily medical practice"





Objectives | 11 tech



Specific Objectives

- Provide students with advanced, in-depth, up-to-date, and multidisciplinary information that allows them to comprehensively approach the hematological health/disease process, ensuring proper treatment and the use of all appropriate therapeutic procedures
- Provide training and practical/theoretical improvement that will ensure a reliable clinical diagnosis supported by the efficient use of diagnostic methods
- Explain the complex pathophysiologic and etiopathogenic interrelationships in the mechanisms of hematologic disease onset
- Emphasize the role of the rational use of diagnostic technologies when studying these patients
- Address, in detail and depth, the most up-to-date scientific evidence on the mechanisms of action, adverse effects, dosage, and use of drugs to treat these diseases



International Guest Director

Dr. Joseph Hai Oved is a pediatric hemato-oncology specialist at Memorial Sloane Kettering Cancer Center, considered one of the best cancer centers in the world. His work focuses on stem cell and bone marrow transplantation, as well as cell therapies, to treat non-cancerous diseases. His work in the field of transplantation to patients with difficult-to-treat immune dysfunctions or inherited immune deficiencies, as well as those with bone marrow failure syndromes, is particularly noteworthy.

His research is prolific in the hemato-oncology area, seeking new ways to personalize transplantation to achieve a precise cure with minimal side effects. He has studied in depth the effects of the different techniques used to manipulate donated stem cells, extracting or adding specific cells of interest. He has also analyzed how exposure to different conditioning agents (chemotherapies or other drugs used to prepare the body for transplantation) affect outcomes. His work has advanced the identification of biomarkers to more accurately predict transplant outcomes.

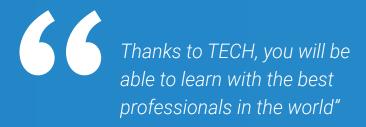
Joseph is a member of several national and international groups in bone marrow transplantation, hematology and immunology. He serves on committees of many of these organizations, where they discuss potential future therapies, clinical trials and efforts to further advance the field of pediatric transplantation and cellular therapies worldwide.

All his scientific contribution places him as a reference in his field, receiving several awards. These include two fellowships awarded by the Howard Hughes Medical Institute, one of the largest privately funded organizations for biological and medical research in the United States. He also received a fellowship in immunology from the Weizmann Institute of Science, considered one of the most advanced multidisciplinary research institutions in the world.



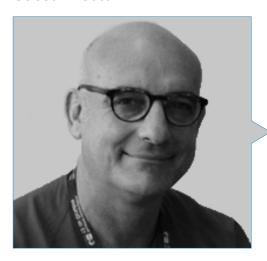
Dr. Hai Oved, Joseph

- Pediatrician specialized in hemato-oncology at the MSK Cancer Center New York
- Member of the Scientific Advisory Board of Emendo Biotherapeutics.
- Managing Partner of New World Health, LLC
- Observer on the board of BioTrace Medical Inc.
- Pediatrician specializing in hemato-oncology at Children's Hospital of Philadelphia
- M.D. from NYU School of Medicine
- Fellowship in pediatric hemato-oncology at Children's Hospital of Philadelphia
- Residency in Pediatrics at New York Presbyterian Weill Cornell Medical College



tech 16 | Course Management

Guest Director



Dr. Joaquín Martínez-López

- Head of the Hematology Department at the 12 de Octubre Hospital, Madrid
- PhD in Medicine from the Complutense University of Madrid.
- Hematology Medical Specialist
- Director of the translational research group and the early clinical trials unit in hematology at 12 de Octubre Hospital
- More than 140 publications in international scientific journals
- President of AltumSequencing

Professors

Dr. Carreño Gómez-Tarragona, Gonzalo

- Specialist physician at the 12 de Octubre University Hospital
- Degree in Medicine. Autonomous University of Madrid. 2013
- Advanced Master's Degree in Hematopoietic Transplantation. University of Valencia. 2019
- Cytology Course in Myelodysplasia. Del Mar Hospital. 2017
- Teaching collaborator for the following subjects: Hematology and Hemotherapy, Degree
 of Medicine (Complutense University of Madrid); and Advances in Vascular Function,
 Degree of Medicine (Autonomous University of Madrid).
- Participation in the Clinical Research Ethics Committee at the 12 de Octubre University Hospital. 2019
- Participation in national and international conferences
- Distinction as Best Scientific Communication. VII National Research Conference for Undergraduate Students in Health Sciences. Complutense University of Madrid. 2013

Dr. Sánchez Pina, José María

- Attending Physician in the area of hospitalization and hematopoietic transplantation. Member of the cell therapy group. Since 2017
- Degree in Medicine. University of Alcalá. 2006-2012
- Advanced Master's Degree in Hematopoietic Transplantation, 4th edition, University of Valencia
- Resident intern of Hematology and Hemotherapy at 12 de Octubre University Hospital in Madrid. 2013-2017
- Teaching collaborator in the Advanced Master's Degree in Translational Medicine.
 The Complutense University of Madrid; and Advanced Master's Degree in Organ and Tissue Transplants. European University of Madrid



Course Management | 17 tech

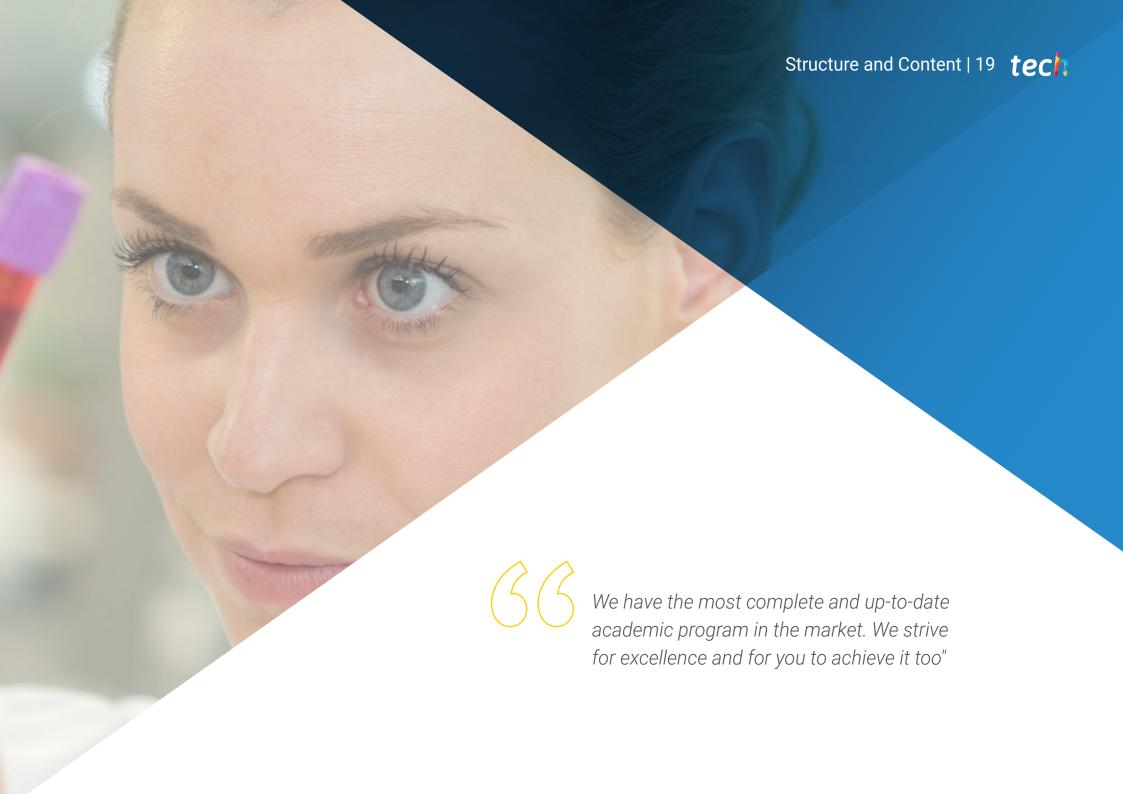
Dr. Rodríguez Rodríguez, Mario

- Specialist in Thrombophilia and Hemostasis consultation and in basic and special coagulation laboratory at the 12 de Octubre University Hospital. Since June 2017
- Graduate in Medicine and Surgery from the Complutense University of Madrid.
 Class of 2006 2012
- Hematology on-call duty as an attending physician (FEA). Since June 2017
- Medical Intern Resident in Hematology and Hemotherapy at the 12 de Octubre University Hospital (21/05/2013 - 21/05/2017)
- Participation in quality work for ENAC accreditation in the coagulation laboratory at the 12 de Octubre University Hospital
- Usability study/evaluation of the cobas t711 coagulometer, Roche Diagnostics
- Participation in the following publications: "Evaluation of The MD Anderson Tumor Score for Diffuse Large B-cell Lymphomain the Rituximab Era", "Clinical course and risk factors for mortality from COVID-19 inpatients with haematological malignancies" and "Thrombosis and antiphospholipid antibodies in patients with SARS-COV-2 infection (COVID-19)", among others

Dr. Paciello Coronel, María Liz

- Specialist in Hematology and Hemotherapy. 12 de Octubre University Hospital. Since 2008
- Graduate in Medicine and Surgery. National University of Asunción, Paraguay.
- Collaborator in clinical trials as principal investigator and sub-investigator





tech 20 | Structure and Content

Module 1. Update on Coagulation, Thrombosis, and Fibrinolysis Tests

- 1.1. Primary and Secondary Hemostasis Evaluation Tests:
 - 1.1.1. Tests to Assess the Role of the Vascular Endothelium
 - 1.1.2. Tests to Assess the Role of Platelets in Hemostasis
 - 1. 1.3. Tests that Assess the Role of Coagulation Factors in the Enzymatic Cascade
- 1.2. Interpretation of Prothrombin, Thrombin, and Activated Thromboplastin Times:
 - 1.2.1. Prothrombin Time Interpretation
 - 1.2.2. Thrombin Time Interpretation
 - 1.2.3. Interpretation of Activated Thromboplastin Time
- 1.3. Usefulness of Thromboelastography: Its Current Role
 - 1.3.1. Definition
 - 1.3.2. Use
 - 1.3.3. Interpretation
- 1.4. Fibrinolysis Tests: The Mediators of Tissue Reperfusion
 - 1.4.1. Tests that Assess Fibrinolysis
 - 1.4.2. Uses
 - 1.4.3. Interpretation
- 1.5. Diagnosis of Hemophilia: Traditional and the Latest Techniques
 - 1.5.1. Types of Hemophilia
 - 1.5.2. Tests to Diagnose Hemophilia
- 1.6. Monitoring Coagulation in Patients with Critical Bleeding Disorders:
 - 1.6.1. Hemostasis in Critically III Patients
 - 1.6.2. Tests for Monitoring Bleeding Disorders in Critically III Patients
- 1.7. Laboratory Monitoring of Patients on Oral Anticoagulants:
 - 1.7.1. Traditional and New Oral Anticoagulants
 - 1.7.2. Evidence for Monitoring Patients on Direct Oral Anticoagulants
- 1.8. Laboratory Monitoring in Patients Treated with Heparins:
 - 1.8.1. Heparins in Anticoagulant Treatment
 - 1.8.2. Tests for Monitoring Heparin Treatment







Take advantage of the opportunity and step up as a professional"





tech 24 | Methodology

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 abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can 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 potential 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.



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:

- Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their 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.



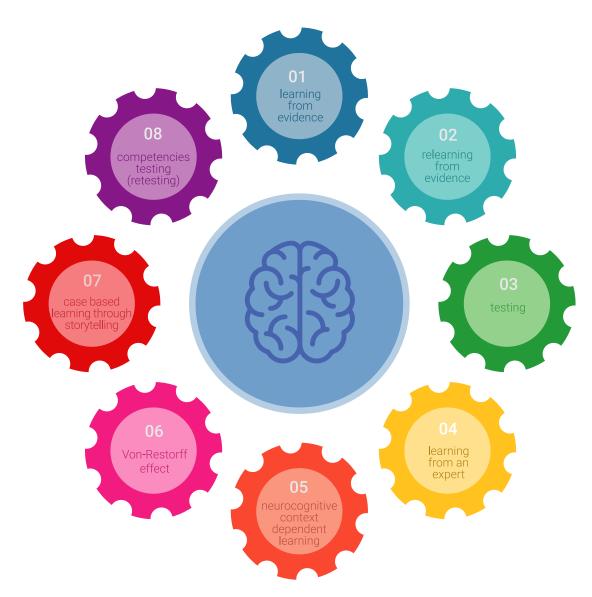


Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

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 simple 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.



Methodology | 27 tech

At the forefront of world teaching, the Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

Over 250,000 physicians have been trained using this methodology, with unprecedented success in all clinical specialties regardless of surgical load. This teaching methodology is developed in a highly demanding environment, with a university student body of high socio-economic profile and an average age of 43.5 years.

Re-learning 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.

tech 28 | Methodology

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

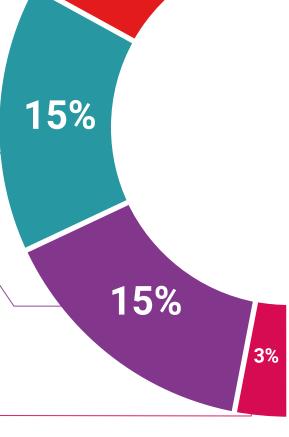
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many 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 multimedia content presentation training Exclusive 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 & Re-testing

The student's knowledge is periodically assessed and re-assessed throughout the program, through evaluative and self-evaluative activities and exercises: in this way, students can check how they are doing in terms of achieving their goals.



Classes

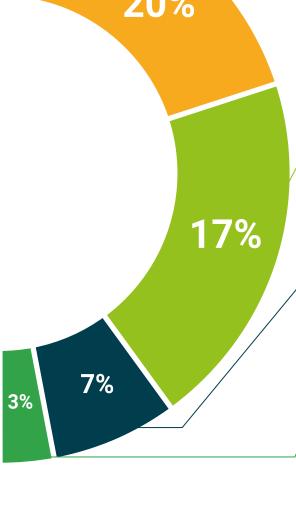
There is scientific evidence on the usefulness of learning by observing experts: The system termed Learning from an Expert strengthens knowledge and recall capacity, and generates confidence in the face of difficult decisions in the future.



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.









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This **Postgraduate Certificate in Update on Coagulation, Thrombosis and Fibrinolysis Tests** is the most comprehensive and up-to-date educational program on the market.

After students have passed the assessments, they will receive their **Postgraduate** Certificate Certificate issued TECH Technological University.

This degree contributes to the academic development of the professional and adds a high university curricular value to their training. It is 100% valid in all competitive examinations, labour exchanges and professional career evaluation committees.

Title: Postgraduate Certificate in Update on Coagulation, Thrombosis and Fibrinolysis Tests

Official Number of Hours: 125 hours.



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

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