

# Postgraduate Certificate

Epidemiology and  
Diagnosis of Ovarian  
Cancer



## Postgraduate Certificate

### Epidemiology and Diagnosis of Ovarian Cancer

Course Modality: **Online**

Duration: **8 weeks**

Certificate: **TECH Technological University**

**7 ECTS Credits**

Teaching Hours: **175 hours.**

Website: [www.techtitute.com/medicine/postgraduate-certificate/epidemiology-diagnosis-ovarian-cancer](http://www.techtitute.com/medicine/postgraduate-certificate/epidemiology-diagnosis-ovarian-cancer)

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# 01

# Introduction

The approach to ovarian cancer requires the management of its epidemiology and new diagnostic processes in an updated manner, thus facilitating the strategies to combat it through the procedures determined by the latest scientific evidence. The mastery of advances makes it essential for specialists to be continuously updated, so that they can carry out quality clinical practice and guarantee the safety of their patients.





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*New scenarios in today's gynecologic oncology push us to propose new training programs that fit the real needs of experienced professionals, so that they can incorporate advances in chemotherapy into their daily practice”*

Ovarian cancer is the fourth most frequent cancer of gynecological origin, but it is the most lethal. Most of these tumors occur in advanced stages of the disease when survival is only around 30% of cases. Therefore, knowledge of the pathophysiology of the disease and early diagnosis is crucial in this disease.

It is necessary for the specialist physician to be updated in the main aspects of the epidemiology and diagnosis of ovarian cancer, since the breadth and specificity of advances that are constantly being published and discovered about cervical cancer must be transferred to daily medical practice.

This program is aimed at providing the professional with an update on the epidemiology, causes and the entire diagnostic process of female ovarian tumor pathology.

This **Postgraduate Certificate in Epidemiology and Diagnosis of Ovarian Cancer** contains the most complete and up-to-date scientific program on the market. The most important features of the course are:

- Development of case Clinical symptoms, presented by specialists in Gynecologic Oncology and other specialties. The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are Doctor essential for professional.
- Update on the epidemiology of Ovarian cancer.
- Diagnostic Techniques and Procedures in ovarian oncologic pathology.
- Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- All of this will be complemented by 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 be able to learn, through the latest educational technology, the latest advances in Epidemiology and Diagnosis of Ovarian Cancer".*

“ *This Postgraduate Certificate be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge in Epidemiology and Diagnosis of Ovarian Cancer, you will obtain a issued qualification from TECH Technological University”.*

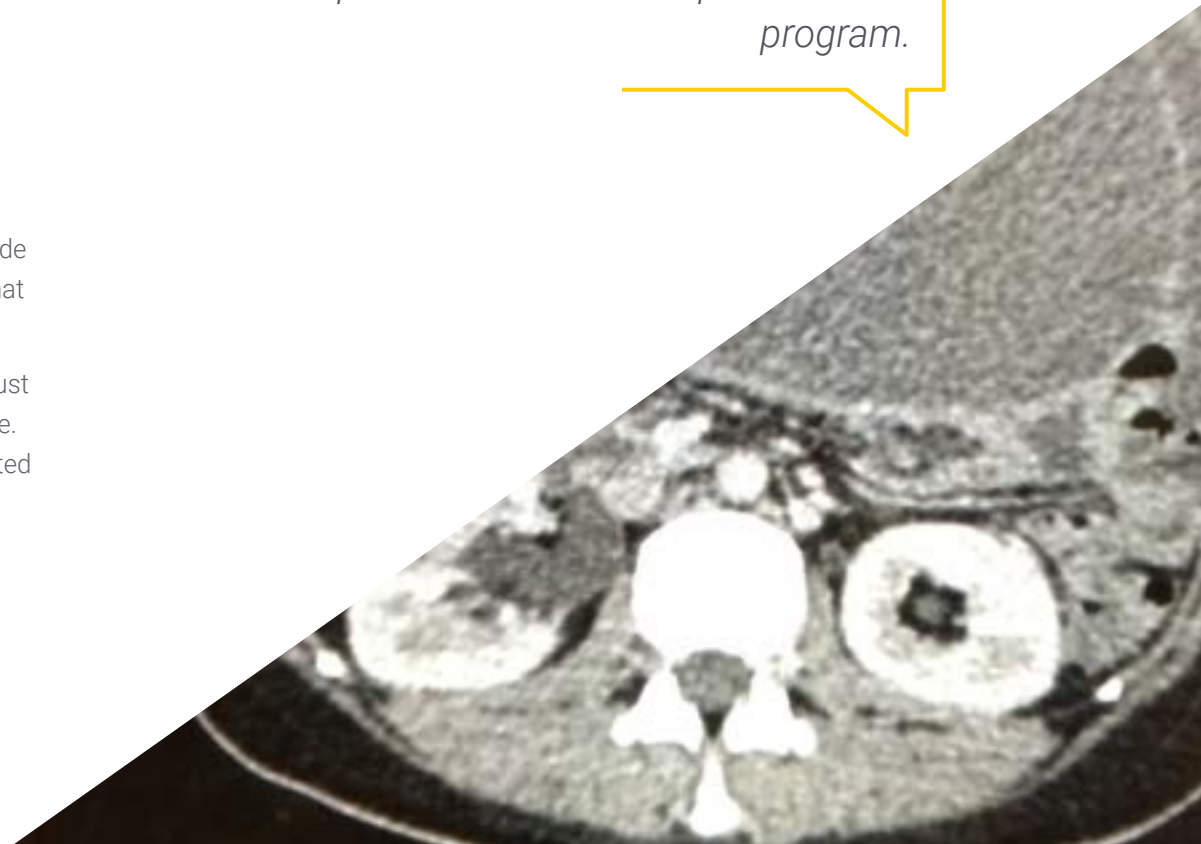
It includes, in its teaching staff, a team of leading gynecologists, who bring to this training the experience of their work, in addition to recognized specialists in other medical areas.

The multimedia content developed with the latest educational technology will provide the physician with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

This program is designed around Problem Based Learning, whereby the student must try to solve the different professional practice situations that arise during the course. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of gynecology and oncology with extensive teaching experience.

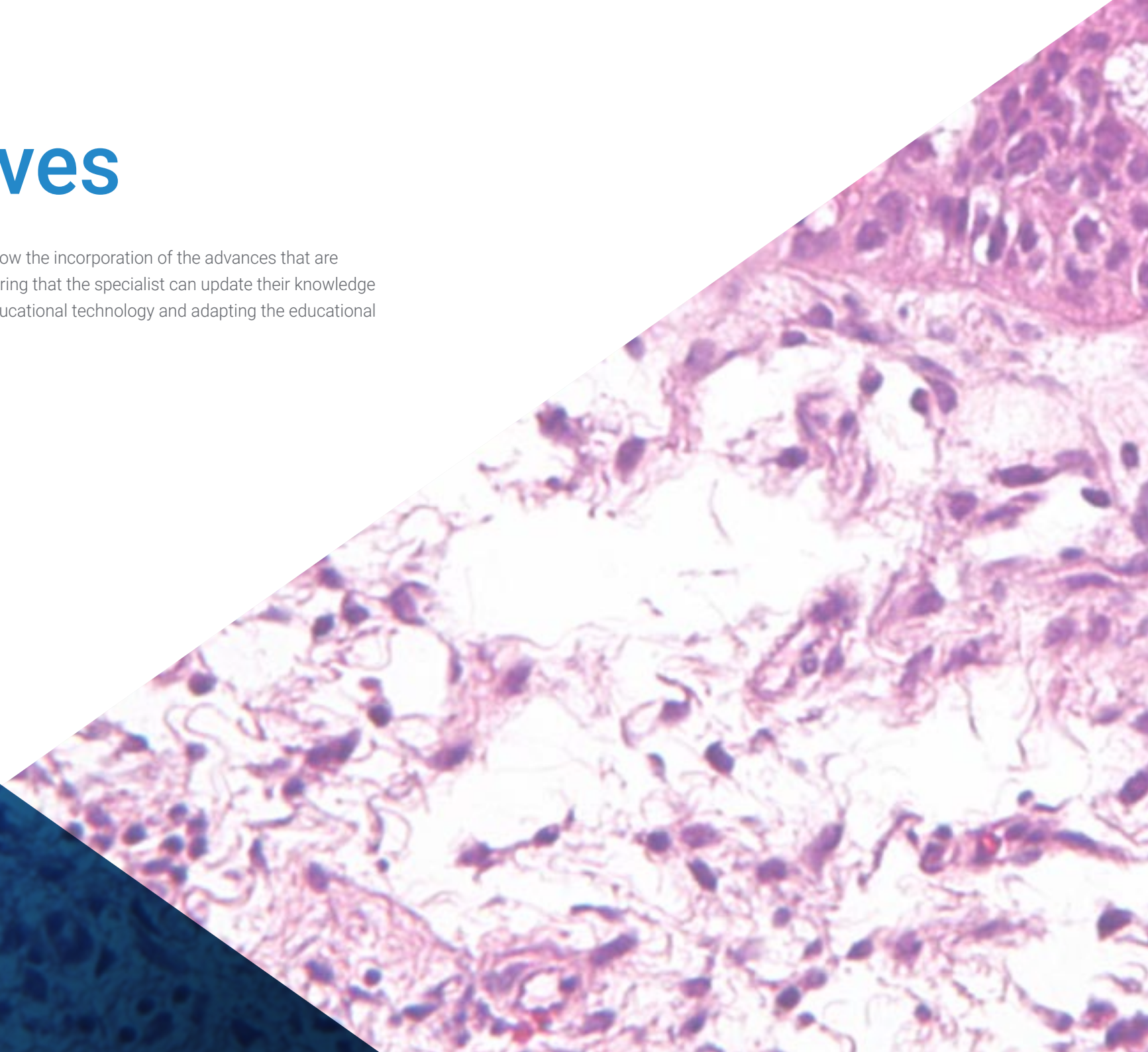
*Incorporate the latest developments in epidemiology and diagnostics of ovarian cancer into your medical practice and improve your patients' prognosis.*

*It includes clinical cases and real images in high definition to bring clinical practice as close as possible to the development of the program.*

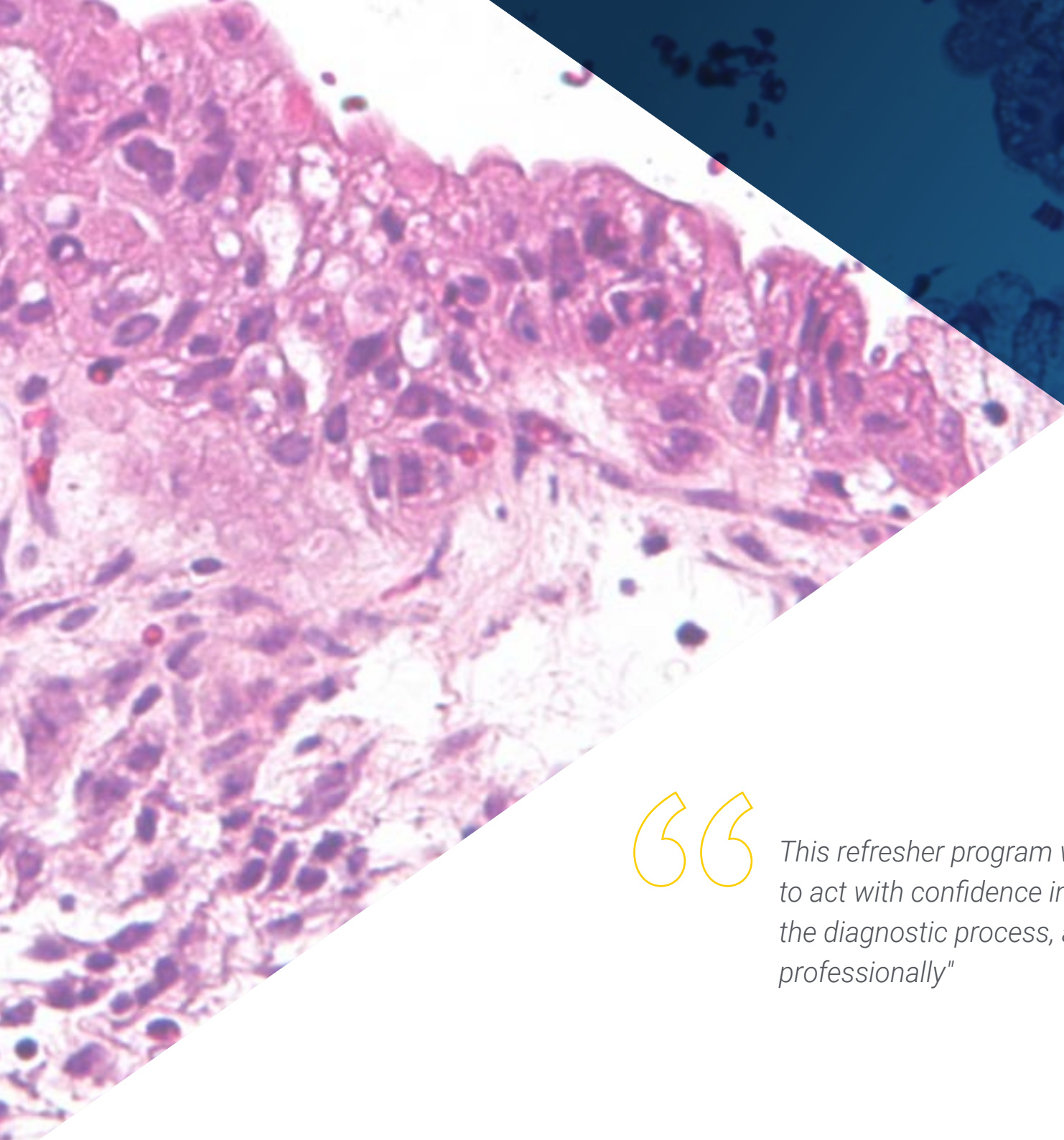


# 02 Objectives

The main objective is oriented to allow the incorporation of the advances that are taking place in ovarian cancer, ensuring that the specialist can update their knowledge in a practical way, with the latest educational technology and adapting the educational process to their real needs.







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*This refresher program will provide you with the skills to act with confidence in decision making during the diagnostic process, and will help you to grow professionally"*



## General Objective

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- Update the medical specialist on the epidemiology and diagnostic procedures for Ovarian oncologic processes, reviewing the molecular basis of carcinogenesis, its development and production of metastasis in the affected patient.



## Specific Objectives

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- Define the basis of cellular growth regulation.
- Understand the role of carcinogens in the training of genital cancer.
- Gain up-to-date knowledge of cancer genetics.
- Understand the cellular mechanisms of programmed cell death and apoptosis and their relationship and activity with malignant pathology.
- Interpret the mechanisms of cancer production and distant metastasis at a molecular level.
- Identify the origins of genetic alterations that provoke cancer.
- Identify the epigenetic changes and oncogenes related with genital tract tumor pathology.
- Explain the mechanisms tumor neoformation in blood vessels.
- Review the epidemiology and etiopathogenesis of ovarian and fallopian tube cancer.
- Evaluate STIC tubal lesions as precursors of ovarian cancer.
- Review the possibilities of screening by ultrasound and the tumor markers for the early detection of ovarian cancer.



- ♦ Gain up-to-date knowledge on hereditary-familial ovarian cancer and new predisposing genetic mutations.
- ♦ Establish the new criteria for pathological and molecular classification of ovarian cancer.
- ♦ Review the epidemiology and etiopathogenesis of ovarian and fallopian tube cancer.
- ♦ Apply the different diagnostic tests for the study of extension and initial diagnosis of ovarian cancer.
- ♦ Evaluate the different clinical manifestations of ovarian cancer.
- ♦ Review the value of ultrasound in the diagnosis of ovarian cancer.
- ♦ Review the value of ultrasound in the diagnosis of ovarian cancer.
- ♦ Review the value of Magnetic Resonance in the Studies of the extent of ovarian cancer.
- ♦ Evaluate the usefulness of PET-CT for the assessment of metabolism in suspected malignant lesions.
- ♦ Analyze the role of Ca 125 tumor serological markers in ovarian cancer.
- ♦ Analyze the role of Ca 19.9 tumor serological markers in ovarian cancer.
- ♦ Analyze the role of CEA tumor serological markers in ovarian cancer.
- ♦ Analyze the role of HE4 tumor serological markers in ovarian cancer.
- ♦ Analyze the role of rare tumor serological markers in ovarian cancer.
- ♦ Review staging of ovarian cancer according to FIGO classification.

*Take the opportunity and take the step to get up to date on the most important aspects of Epidemiology and Diagnosis of Ovarian Cancer.*



03

# Course Management

The materials are the result of collaboration between a team of renowned professionals in the surgical field who work in the top hospitals prestigious universities. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.



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*Learn from leading professionals the latest advances in Ovarian cancer diagnostic techniques and epidemiology”.*

## Management



### Dr. Zapardiel Gutiérrez, Ignacio

- ♦ Degree in Medicine and Surgery
- ♦ Doctor specialized in Obstetrics and Gynecology
- ♦ Doctor of Medicine
- ♦ ESGO Subspecialist in Gynecologic Oncology
- ♦ Currently attending physician at the Gynecologic Oncology Unit of the la Paz University Hospital in Madrid
- ♦ Training clinical residencies in prestigious centers such as IEO- Thousand, Mayo Clinic-USA y el MD Anderson International- Madrid
- ♦ Master's in Oncology from European Health Institute
- ♦ Associate Professor Autonomous University of Madrid and national accreditation ANECA for Full Professor of University Professor at Rey Juan Carlos University Madrid
- ♦ Deputy Scientific Director of the Institute for Biosanitary Research I di PAZ
- ♦ Author of more than 140 articles in scientific journals, 82 of which indexed in Pubmed and a regular contributor to book chapters, invited papers at conferences, national and international research projects.

## Professors

### Dr. Aletti, Giovanni

- ♦ Specialist in Gynecology
- ♦ Head of the oncological gynecology service
- ♦ European Institute of Oncology Milan Italy

### Dr. Díaz, Rebeca

- ♦ Specialist in Gynecology
- ♦ Gynecologic Oncology Department
- ♦ European Institute of Oncology Milan Italy

### Dr. De Santiago García, Javier

- ♦ Head of Department. Gynecology Services
- ♦ La Paz University Hospital. Madrid. Spain

### Dr. Diestro Tejeda, María Dolores

- ♦ Attending Physician Gynecologic Oncology Department
- ♦ La Paz University Hospital. Madrid. Spain

**Dr. E. Bristow, Robert**

- ◆ Division Director
- ◆ Gynecologic Oncology division
- ◆ University of California Irvine Health California USA.

**Dr. González Benítez, Cristina**

- ◆ Attending Physician Gynecologic Oncology Department
- ◆ La Paz University Hospital. Madrid. Spain

**Dr. M. Randall, Leslie**

- ◆ Associate Professor.
- ◆ Gynecologic Oncology division
- ◆ University of California Irvine Health California USA.

**Dr. Zanagnolo, Vanna**

- ◆ Specialist in Gynecology
- ◆ Head of the oncological gynecology service
- ◆ European Institute of Oncology Milan Italy



# 04

# Structure and Content

The structure of the curriculum has been designed by a team of professionals knowledgeable about the implications of medical training in the diagnostic approach to ovarian cancer, and aware of the relevance of current training and committed to quality teaching through new educational technologies.







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*This Postgraduate Certificate in Epidemiology and Diagnosis of Ovarian Cancer contains the most complete and up-to-date scientific program on the market”*

### Module 1. Biological Basis of Cancer

- 1.1. Regulation of Cell Growth.
- 1.2. Carcinogenesis and Carcinogens.
- 1.3. Genetics of Cancer.
- 1.4. Mechanisms of Apoptosis and Programmed Cell Death.
- 1.5. Molecular Mechanisms of Cancer Production and Metastasis.
- 1.6. Origin of Genetic Alterations.
- 1.7. Epigenetic Changes and Oncogenes.
- 1.8. Angiogenesis

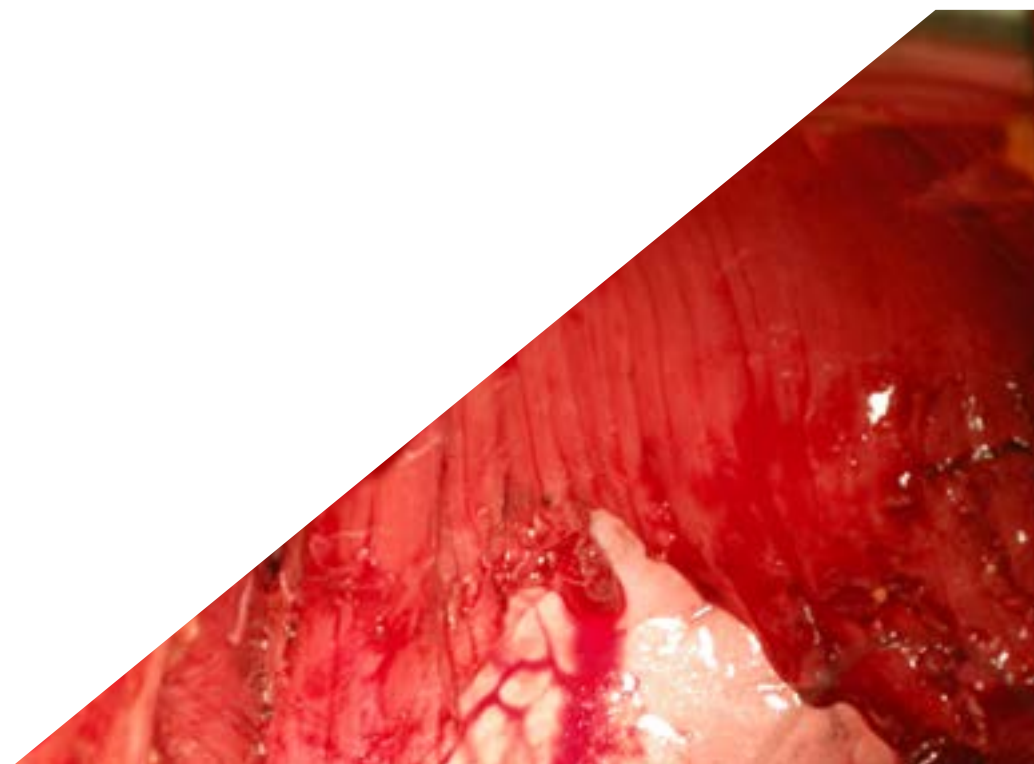
### Module 2: Ovarian Cancer I

- 6.1. Epidemiology of Ovarian and Fallopian Tube Cancer.
- 6.2. Etiopathogenesis and tubal origin, new trends.
- 6.3. Precancerous Lesions in the Fallopian Tubes.
- 6.4. Ovarian Cancer Screening.
- 6.5. Hereditary-Familial Carcinoma and How to Evaluate It.
- 6.6. Histological Forms and Pathological Anatomy.
- 6.7. Diagnostic Process
  - 6.7.1. Clinical Presentation.
  - 6.7.2. Ultrasound.
  - 6.7.3. Computerized Tomography
  - 6.7.4. Magnetic Resonance
  - 6.7.5. Positron Emission Tomography.
- 6.8. Serum Tumor Markers.
  - 6.8.1. CA125
  - 6.8.2. HE4.
  - 6.8.3. CA19.9
  - 6.8.4. CEA
  - 6.8.5. Other Markers
- 6.9. FIGO Classification of the Disease.



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*A unique, key, and decisive training experience to boost your professional development”*



05

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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.



“

*Discover Re-learning, 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

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, 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. 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 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 professional medical 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 grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on 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.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.



*The physician will learn through real cases and by solving 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 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).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



#### Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.



#### Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06

# Certificate

The **Postgraduate Certificate in Epidemiology and Diagnosis of Ovarian Cancer** guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate degree issued by **TECH Technological University**



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*Successfully complete this training and receive your university degree without travel or laborious paperwork”.*

This **Postgraduate Certificate in Epidemiology and Diagnosis of Ovarian Cancer** contains the most complete and up-to-date scientific program on the market.

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

The certificate issued by **TECH Technological University** will specify the qualification obtained through the Postgraduate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Diploma: **Postgraduate Certificate in Epidemiology and Diagnosis of Ovarian Cancer**

**ECTS: 7**

Nº Hours: **175**



\*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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