



Advanced Master's Degree Gynecologic Pathology and Assisted Reproduction

» Modality: online» Duration: 2 years

» Certificate: TECH Technological University

» Dedication: 16h/week

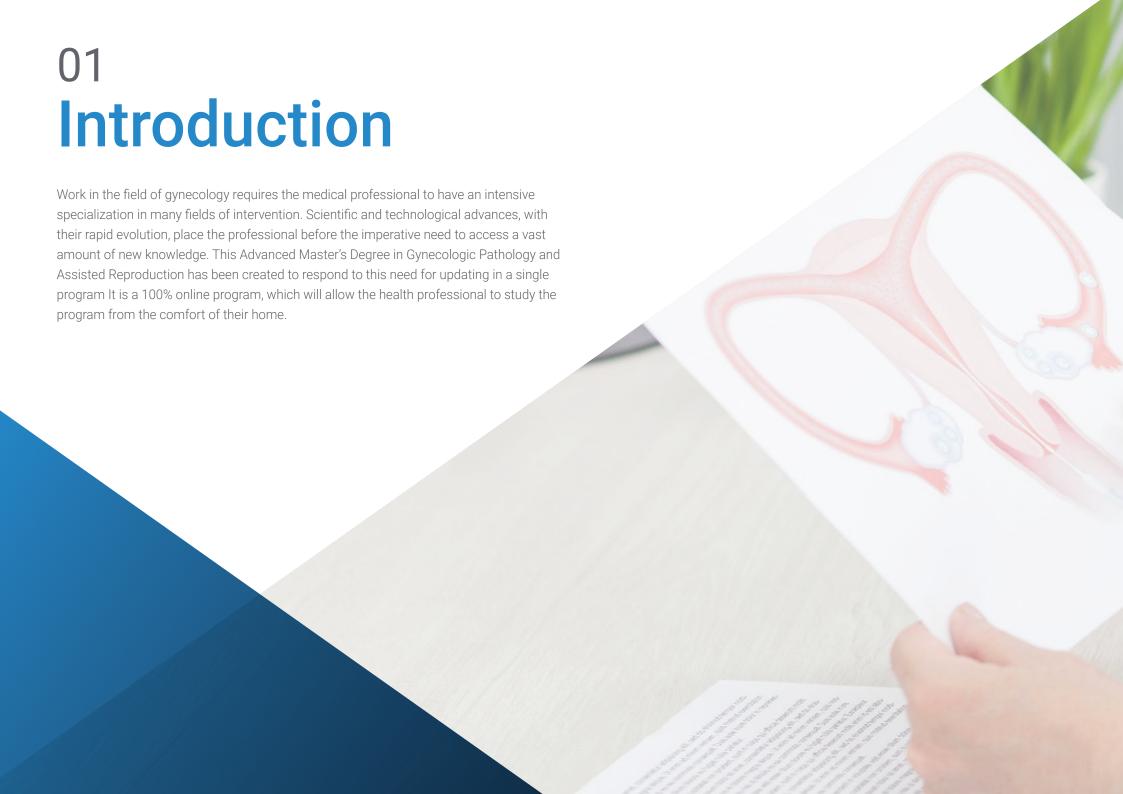
» Schedule: at your own pace

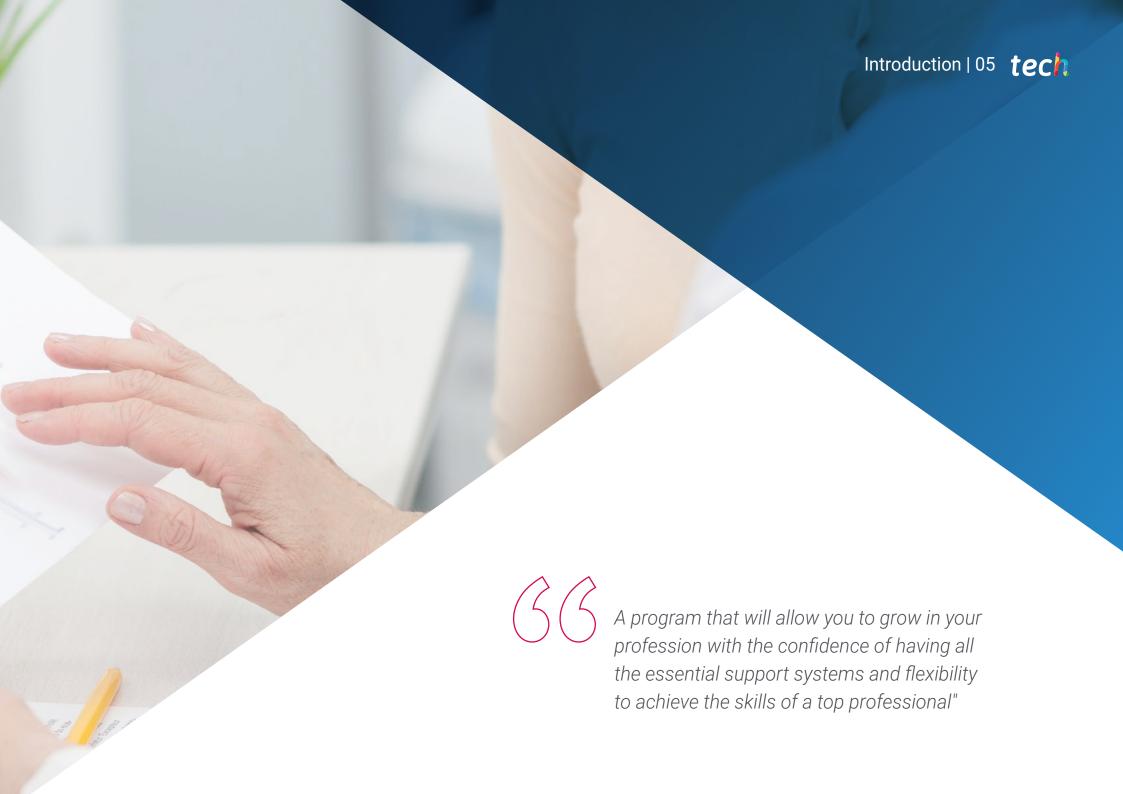
» Exams: online

We b site: www.techtitute.com/us/medicine/advanced-master-degree/advanced-master-degree-gynecologic-pathology-assisted-reproduction

Index

02 Introduction Objectives p. 4 p. 8 03 05 **Course Management** Skills **Structure and Content** p. 24 p. 28 p. 36 06 Methodology Certificate p. 58 p. 66





tech 06 | Introduction

Gynecological care has changed exponentially in recent times due to advances in diagnostic and treatment systems in all fields of practice.

One of the most relevant fields is gynecologic oncology. The social and emotional burden that gynecologic cancer has on today's society means that scientific and professional interest in this discipline is on the rise.

In order to keep abreast of advances in surgery and gynecologic oncology, it is essential for specialists to maintain a constant specialization that avoids obsolescence and allows them to continue providing quality care. Another of the most important interventions due to the number of patients is related to reproduction and its processes. Reproductive problems have become one of the most frequent situations in current society. It is a situation that has made assisted reproduction one of the growing medical specialities in recent decades.

Rapid advances and the need for constant updating in all these aspects require the professional to make an intense effort to remain at the forefront. An effort that may be too great to be taken on by working professionals. This Advanced Master's Degree is a unique educational experience, with a greater scientific, technical, teaching and practical scope that offers you all the necessary knowledge to be part of the medical vanguard in this area of intervention. Everything the professional needs to know, in one place and with all the facilities for learning.

This program will emphasize each and every one of the areas of interest in gynecological care, paying special attention to three of the most important: the approach to oncological problems, assisted reproduction and minimally invasive surgery.

This Advanced Master's Degree in Gynecologic Pathology and Assisted Reproduction contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- Clinical cases presented by experts in the different specialties
- 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
- Diagnostic and therapeutic developments in Gynecology and Assisted Reproduction
- Presentation of practical workshops on procedures, diagnosis, and treatment techniques
- Real images in high resolution and practical exercises where the self-evaluation process can be carried out to improve learning
- Algorithm-based interactive learning system for decision-making in the presented clinical situations
- Special emphasis on test-based medicine and research 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



Designed to be totally affordable, this Advanced Master's Degree will become a tool for professional growth that will bring you up to date on each and every one of the most relevant developments on the international scene"



This Advanced Master's Degree is the best investment you can make for your future.

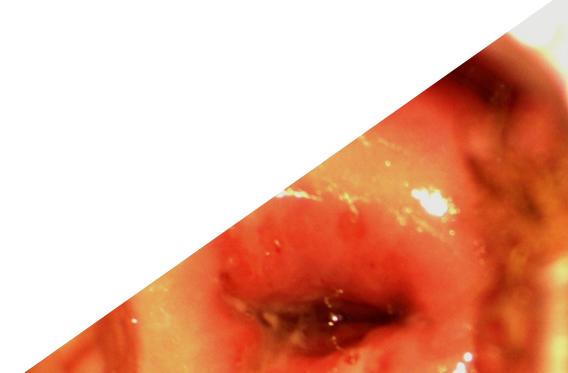
A specialization created to be compatible with your professional and personal life that will take you to your goal in the easiest way, optimizing your time and effort"

Its teaching staff is made up of leading professionals in the sector. Practicing professionals who bring to this program the experience of their work, as well as recognized specialists belonging to leading scientific societies.

Thanks to its multimedia content elaborated with the latest educational technology, this program offers the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to work in real situations.

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

The content, which is developed entirely by professionals in the sector, will allow you to assimilate the learning through an innovative concept of telepractice, with which you will be able to observe the performance of the techniques on real patients.







tech 10 | Objectives



General Objectives

- Gain up-to-date, specialist knowledge of the procedures and techniques performed in gynecologic oncology, incorporating the latest advances in the discipline in order to increase the quality of daily medical practice
- Know all the material available to perform endoscopic and hysteroscopic surgery
- Know the protocol for the preparation of the endoscopy operating room
- Learn about general aspects such as ergonomics in the laparoscopic and electrosurgical operating rooms to be used in gynecological procedures
- Apply different appropriate techniques in each specific clinical case
- Learn about female pelvic and abdominal anatomy
- Create a training model (pelvi-trainer) for the performance of laparoscopic suturing and other exercises leading to the acquisition of dissection and cutting skills
- Learn hysteroscopic techniques and their application in uterine pathology
- Establish a series of alternatives to manage benign ovarian pathology
- Know how to treat benign uterus pathology
- Learn techniques to resolve pelvic floor problems using laparoscopy
- Acquire up-to-date concepts in anatomy, physiology, embryology and genetics, which will help to understand reproductive diagnostics and treatments
- Understand in detail the aspects related to the initial assessment of a sterile couple.
 Study criteria and referral to Reproduction Units. Basic clinical examination, request and interpretation of the results of complementary tests
- Perform an appropriate assessment and clinical orientation of the couple. Indication of request for specific tests based on the above findings

- Have an exhaustive knowledge of the different types of medical treatment, indications and their choice according to the profile of the patient and their partner
- Know the indications and surgical techniques that could improve the reproductive results
 of our patients. Alterations in uterine morphology (congenital or acquired). Endometriosis.
 Tubal Surgery
- Know the techniques used in the Andrology, IVF and cryobiology laboratories. Diagnostic techniques and sperm selection techniques. Oocyte evaluation. Embryonic Development
- Describe the types of genetic embryonic studies that are available, know their possible indications and be able to interpret the results
- Know the current legal situation of the treatments for assisted reproduction in our country
- Know the main scientific and patient societies in the field of Reproductive Medicine



Take the first step to get up to date on the latest developments in Gynecologic Pathology and Assisted Reproduction"





Specific Objectives

Module 1. Female Surgical Anatomy

- Review the anatomy of the abdominal wall
- Review the anatomy of the pelvic and abdominal visceral system, including the upper abdomen
- Refresh understanding of pelvic vascular system anatomy and review the para-aortic vascular system and the vena cava
- Identify the different parts of the lymphatic system and their detailed laparoscopic management
- · Learn about the functional anatomy of the female pelvic floor
- Determine vulvo-vaginal area exploration and its relation to pelvic floor pathology
- Study sympathetic and parasympathetic nerve anatomy of the female pelvis

Module 2. Hysteroscopic Surgery

- Prepare the material for diagnostic and surgical hysteroscopy
- Update the new technological advances in hysteroscopy, such as morcellators, lasers and endometrial ablation systems
- Describe the tools to perform hysteroscopy in the office
- Acquire up-to-date knowledge of the literature on advances in hysteroscopy
- Explain advanced techniques, such as malformation treatment or hysteroscopic myomectomy
- Improve success rate in consultation
- Acquire up-to-date knowledge of the indications for office or surgical hysteroscopy
- Learn the latest developments in hysteroscopic surgery
- Acquire skills to resolve hysteroscopic complications, typical of the technique, such as perforations or vasovagal syndrome



tech 12 | Objectives

- Identify the different techniques used in uterine morcellation and myoma morcellation laparoscopically in a watertight manner to avoid the possibility of dissemination in case of uterine sarcoma
- Select the different endoscopy applications within the different modalities of complexity in hysterectomy
- Acquire up-to-date knowledge of the use of laparoscopy in uterine malformations and their resolution
- Incorporate the advances of the laparoscopic neovagina technique
- Incorporate theoretical knowledge related to vaginal vault dehiscence
- Identify the different types of uterine mobilizers
- Acquire up-to-date knowledge of the evaluation procedures for pelvic floor defects
- Acquire up-to-date knowledge of procedures to manage ectopic pregnancy using laparoscopy
- Acquire up-to-date knowledge of procedures to manage ovarian torsion using laparoscopy
- Acquire up-to-date knowledge of the procedures to manage pelvic infections using laparoscopy
- Establish the strategy to adequately access the abdominal cavity
- Describe the process of taking an exploratory biopsy and abdominal cytology using laparoscopy
- Acquire up-to-date knowledge of the laparoscopic management of ovarian remnant syndrome
- Update the procedures to manage uterine fibroids
- Establish the strategy to reduce bleeding in laparoscopic myomectomy

Module 3. Exploratory Laparoscopy and Benign Adnexal Pathology

- Define the specific technique in suturing and intracorporeal and extracorporeal knotting
- Adapt the avascular spaces for endoscopic surgery
- Acquire fluency in the resolution of simple pathologies such as endometrial polyps and hyperplasia

Module 4. Benign Uterine Pathology and Dysgenesis

- Acquire up-to-date knowledge of management procedures for benign ovarian and tubal pathology, including cystectomy and adnexectomy
- Update procedures to manage large complex tumors

Module 5. Pelvic Floor Pathology and Use of Vaginal Meshes

- Determine vulvo-vaginal area exploration and its relation to pelvic floor pathology
- Review the functional anatomy of the female pelvic floor
- Review the sympathetic and parasympathetic nervous anatomy of the female pelvis
- Identify abdomino-pelvic vascular abnormalities
- Select the different types of laparoscopic and vaginal meshes for the resolution of such abnormalities
- Incorporate advances in the application of cystoscopy after reparative techniques
- Review the scientific evidence on the use of endoscopy in pelvic floor pathology
- Gain a detailed understanding of the use of laparoscopic sacrocolpopexy
- Foresee complications and their management in pelvic floor pathology
- Explain the procedures for laparoscopic repair of paravaginal defects
- Explain the placement procedure for different meshes to resolve urinary incontinence

Module 6. Laparoscopy in Endometriosis

- Conduct detailed analyses of patients with possible endometriosis
- Incorporate advances in the application of imaging techniques and tumor markers to diagnose endometriosis
- Describe the classifications of endometriosis by different authors
- Explain the therapeutic possibilities of endometriosis in each specific case
- Acquire up-to-date knowledge of the procedures to manage endometriosis in the recto vaginal and ovarian septum
- Acquire up-to-date knowledge of the procedures to manate patients with endometriosis involving the lateral compartment

- Acquire up-to-date knowledge of the management procedures for the recommended medical treatment of endometriosis
- Acquire up-to-date knowledge of treatment in cases of intestinal endometriosis
- Acquire up-to-date knowledge of laparoscopic management procedures for endometriosis of urinary origin
- Describe the main characteristics of extra pelvic endometriosis, such as in the abdominal wall, in the lungs and other organs
- Know the reproductive effects of endometriosis treatment

Module 7. Minimally Invasive Surgery

- Delve deeper into the history of laparoscopy
- Gain a deeper understanding of how to prepare the endoscopic operating room
- Know the correct postural factors and ergonomics
- Approach the management of patients pre- and post-operatively
- Know the details of conventional laparoscopic operating rooms
- Determine the anesthetic and recovery details of patients
- Learn Fast-Track postoperative management and the ERAS protocol
- Describe the main features irrigation and suction systems

Module 8. Instrumentation, Materials and Electrosurgery

- Manage the preparation of the surgical site before each operation
- Establish skin cleansing and asepsis
- Learn how to position patients on the operating table
- Learn the peculiarities of integrated operating rooms
- Increase knowledge of anesthetic aspects related to endoscopy
- Learn the different applications of bipolar and monopolar energy in instrumentation
- Acquire information about electrosurgery for its use in clinical practice

- Select morcellation instruments and apply them safely
- Describe the main features of specimen extraction bags
- Determine the types and use of tissue sealants

Module 9. General Training in Minimally Invasive Surgery

- Identify dissection and cutting instruments for laparoscopy and the use of each piece of equipment
- Select the correct optics for each specific patient
- Differentiate between entry trocars used in surgeries
- Perform pelvitrainer simulation exercises
- · Learn how to assemble a homemade pelvitrainer
- Explain the use of learning pyramids
- Identify the types of laparoscopic simulators
- Acquire up-to-date knowledge of animal simulation procedures
- Bring new advances to cadaver simulation procedures
- Apply simulated organ models
- Acquire up-to-date knowledge of simple laparoscopic suturing procedures

Module 10. Laparoscopic Suture Training

- Explore all the material for laparoscopic suturing, including suture holders, suture threads, needles and other instruments
- Give a detailed description of all the accessory material for gynecological laparoscopy
- Distinguish the types of recorders available for surgery
- Acquire up-to-date knowledge of the orientation of laparoscopic vision systems
- Identify the types of insufflators and how they work
- Identify general surgical instruments

tech 14 | Objectives

Module 11. Complications in Minimally Invasive Surgery

- Acquire up-to-date knowledge of the procedures to manage vascular lesions using endoscopy
- Acquire up-to-date knowledge of the procedures to manage intestinal lesions using endoscopy
- Acquire up-to-date knowledge of the procedures used to manage urological lesions using endoscopy
- Identify the main characteristics of abdominal wall injuries and complications
- Explain how to manage complications in radical hysterectomy
- Select the use of hemostatic agents in endoscopy
- Foresee the complications derived from pelvic floor meshes
- Foresee the complications that occur intraoperatively, as well as those that go unnoticed during surgery
- Determine nervous and other complications, such as pulmonary thromboembolism (PTE), infections, etc

Module 12. Ultra-Minimally Invasive Surgery

- Explain the main characteristics of adhesions and how to prvent them
- Describe laparoscopic tubal chromopertubation
- Incorporate the advances in the 3 mm laparoscopic technique
- Select specific instruments for mini laparoscopy
- Acquire up-to-date knowledge of the specific technique for 3 mm ports
- Incorporate the novel aspects of single-port laparoscopy
- Describe the main characteristics of the instrumentation specific single-port
- Update single-glove technique performance
- Update specific single-port technique
- Describe the advantages of each of the ultra mini-invasive techniques
- Foresee technical problems derived from using these methods in interventions





Objectives | 15 tech

Module 13. Robotic Surgery in Gynecology

- Incorporate new options, such as surgery without entry trocars, into practice
- List the advantages and disadvantages of robotic surgery in gynecology
- Acquire up-to-date knowledge of the different types of robotic systems for surgery, such as the Da Vinci, Zeus or Amadeus
- Identify how to apply this type of surgery in gynecology
- Describe the specific instrumentation procedures used in robotic surgery
- Evaluate the financial aspects of robotic surgery
- Foresee the complications typical of robotic surgery
- Identify how to apply single-port in gynecologic robotic surgery
- Acquire up-to-date knowledge of on new robotic advances

Module 14. Biological Basis of Cancer

- Recognize and understand the molecular bases of carcinogenesis as well as its development and metastasis production
- Define the basis of cellular growth regulation
- Understand the role of carcinogens in the formation of genital cancer
- Gain up-to-date knowledge of cancer genetics
- Understand the cellular mechanisms of programed cell death and apoptosis and their relationship and activity with malignant pathology
- Interpret the mechanisms of cancer production and distant metastatis 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
- Recognize respiratory symptomatology, such as that caused by pleural effusion, in the treatment of gynecologic cancer

tech 16 | Objectives

Module 15. Basis of Chemotherapy Treatment, Adverse Affects and New Therapies

- Identify the essentials for the use of chemotherapy in gynecologic oncology as well as adverse effects and complications
- Identify the basic factors that are involved in chemotherapy treatment
- Highlight the influence of chemotherapy in the cellular cycle
- Identify the action mechanisms of antineoplastic agents
- Recognize the mechanisms for the resistance of medical treatments in gynecologic cancer
- Gain up-to-date knowledge of toxicity and side effects
- Review the available antineoplastic drugs and their characteristics
- Identify cases in which patient observation can be used without using adjuvant treatment
- Understand the role of new tests such as positron emission tomography for cervical cancer
- Evaluate the role of tumor markers such as SCC
- Acquire up-to-date knowledge of the role of laparoscopy in performing a radical hysterectomy and the para-aortic lymphadenectomy for non-early tumor stages
- Evaluate the use of medical and surgical therapy in mestastatic, recurrent or persistent illness
- Study and analyze the postoperative care of patients to identify any complications early on
- Appropriately assess the role of chemotherapy in gestational trophoblastic disease
- Manage the progression of pelvic tumor disease in the most effective way

Module 16. Endometrial Cancer I

- Identify the different types of endometrial cancer and perform the appropriate diagnostic and disease extension methods
- Gain up-to-date knowledge on the epidemiology etiopathogenesis of endometrial cancer
- Evaluate patients with a family history of hereditary carcinomas such as Lynch Syndrome
- Understand the diagnostic process for endometrial cancer
- Implement new molecular diagnostic tests for premalignant and malignant endometrial pathology

- Understand and implement surgical treatments in an appropriate way in the treatment of endometrial cancer
- Establish the different uses of the surgical approach both by laparotomy and laparoscopy in endometrial cancer, and update knowledge on the application of robotic surgery in endometrial cancer
- · Review adjuvant therapeutic options after primary treatment of endometrial cancer
- Analyze the role of radiotherapy and adjuvant chemotherapy in endometrial cancer
- Understand the applications of hormonal treatment in endometrial cancer

Module 17. Endometrial Cancer II

- Evaluate the distinct types of patients with endometrial cancer in order to implement the most appropriate treatment in each individual case
- Recognize precancerous endometrial lesions and apply the most appropriate treatment
- List the different histological types of endometrial cancer and the different tumor types
- Recognize and interpret the different imaging tests needed for the diagnosis and staging of endometrial cancer
- Interpret the distinct tumor markers and there use in the possible screening of endometrial cancer
- Classify endometrial pathology by FIGO prognostic classification
- Classify the different high and low-risk endometrial tumors
- Study the new surgical techniques for treating high risk endometrial cancer
- Gain up-to-date knowledge on the treatment of some specific endometrial tumors such as the clear cell and serious papillary types
- Review how to deal with recurring endometrial cancer including surgery, radiotherapy and /or chemotherapy as well as evidence on the follow-up treatment and prognosis of endometrial tumors



Module 18. Cervical Cancer I

- Identify pre-invasive pathologies of the cervix and correctly apply early diagnosis methods
- Determine the etiology and etiopathogenesis of cervical cancer and its stages of development
- Gain up-to-date knowledge of the distant imaging techniques for diagnosing cervical cancer such as magnetic resonance and scanning
- Acquire up-to-date knowledge of the treatment for preinvasive cervical lesions including surgery and immunotherapy
- Identify the role of the sentinel node in cervical cancer and the pelvic sentinel node labeled with indocyanine green
- Gain up-to-date knowledge of the use of concurrent and neoadjuvant chemotherapy in cervical cancer
- Compare the characteristics of squamous cell carcinoma and cervical adenocarcinoma

Module 19. Cervical Cancer II

- Classify and treat cervical cancers in the most appropriate way
- Know the risk factors for contracting the human papillomavirus
- Review the application of techniques for early diagnosis of cervical cancer and hereditary-familial diseases affecting the cervix
- Evaluate the role of FIGO and TNM classification in cervical cancer and its prognostic role
- Revise the different invasive surgical techniques for cervical cancer, especially the different types of radical hysterectomy with or without nerve preservation
- Identify the indications of chemotherapy and radiotherapy in cervical cancer
- Gain up-to-date knowledge of the invasive cervical adenocarcinoma and adenocarcinoma in situ

Module 20. Ovarian Cancer I

- Identify patients at risk of ovarian cancer and perform a precise preoperative diagnosis
- Review the epidemiology and etiopathogenesis of ovarian and fallopian tube cancer
- Review the possibilities of screening by ultrasound and the tumor markers for the early detection of ovarian cancer

- Establish the new criteria for pathological and molecular classification of ovarian cancer
- Evaluate the different clinical manifestations, highlighting the value of ultrasound, magnetic resonance imaging and scanning in the diagnosis of ovarian cancer
- Analyze the role of tumor serological markers CA125, CA19.9, CEA, HE4 and other rare tumor serological markers in ovarian cancer
- Specifically analyze the role of complete cytoreduction and its prognostic implications
- Analyze the role of interval surgery in ovarian cancer and establish the most appropriate adjuvant chemotherapy steps and biological treatments for each case
- Identify the possibilities available for the follow-up of patients with ovarian cancer
- · Analyze the controversies on the management of ovarian and fallopian tube cancer

Module 21. Ovarian Cancer II

- Apply the most appropriate surgical or chemotherapy treatment for each case of ovarian cancer
- Evaluate STIC tubal lesions as precursors of ovarian cancer
- Gain up-to-date knowledge on hereditary-familial ovarian cancer and new predisposing genetic mutations
- Indicate the distinct pathological types of ovarian and fallopian tube cancer and relate them to the different diagnostic tests for studying the extension and initial diagnosis of each one
- Classify the different types of ovarian cancer according to the FIGO classification and determine the general approach surgical procedures
- Evaluate when a patient should preferentially receive neoadjuvant chemotherapy for ovarian cancer
- Analyze the role of radiotherapy and hormone therapy in endometrial cancer
- Review and gain up-to-date knowledge on intraperitoneal chemotherapy treatments and hyperthermic therapy in ovarian and peritoneal cancer

tech 18 | Objectives

Module 22. Vulvar Cancer I

- Identify the premalignant pathology in the vulva and apply the appropriate diagnostic techniques in each case
- Interpret normal colposcopic and vulvar examination, and interpret abnormal findings on both colposcopic and vulvoscopic examination
- Describe the etiology of vulva cancer and its relationship to recurrent HPV infection
- Assess the role of possible vulvar cancer screening and hereditary risk factors in pathological alterations
- Describe the different histological types of vulvar cancer and the most efficient tests for diagnosis and extension study
- Review the use of tumor markers in vulvar cancer
- Review the procedure for addressing a primary vulvar lesion
- Update on the management of advanced vulvar cancer, both primary tumor and lymph node chains
- Evaluate how to deal with a recurrent vulva carcinoma.
- Review the follow-up care of vulvar cancer patients for early detection of recurrences
- Study the characteristics and treatment of tumors of the Bartholin's glands and basal cell carcinomas of the vulva

Module 23. Vulvar Cancer II

- Diagnose Invasive Paget's Disease of the vulva. Assess the most appropriate management for each case of the disease
- Review the etiopathogenesis of precancerous lesions of the vulva and VIN and VAIN lesions
- Review staging of vulvar cancer according to FIGO classification
- Review the prevalence, and identify the types, clinical manifestations, diagnosis and treatment of non-invasive Paget's disease in the vulvar area

- Relate the clinical manifestations of invasive carcinoma of the vulva to its dissemination routes
- Revise the treatment and handling of the inguinal and pelvic ganglionic chains
- Assess the sentinel lymph node technique for vulvar pathology
- · Analyze the role of chemotherapy and radiotherapy in advanced vulvar cancer
- Study the prognosis of the different types of vulva carcinoma
- Evaluate the clinical and diagnostic characteristics as well as how to manage melanoma of the vulva
- Review the clinical aspects of verrucous carcinoma of the vulva and the different types of vulvar sarcoma, as well as their characteristics and management

Module 24. Uterine Sarcoma I

- Identify and classify the different anatomopathological forms of uterine sarcoma
- Appropriately manage early and advanced stage sarcomatous pathology of the uterus and adequate assessment of its prognosis
- Revise the epidemiology of a uterine sarcoma
- Acquire up-to-date knowledge of the anatomopathologic characteristics of the different histologic types of uterine sarcoma
- Evaluate the role of tumor markers in sarcoma of the uterus
- Review the indications and surgical techniques, as well as radiotherapy and chemotherapy, for the treatment of early stage uterine leiomyosarcoma
- Study the prognostic factors in uterine leiomyosarcoma
- Review the treatment and management of the early stages of endometrial stromal sarcoma



Module 25. Uterine Sarcoma II

- · Identify and classify the different anatomopathological forms of uterine sarcoma
- Identify the risk factors associated with the development of a uterine sarcoma
- Review the different clinical manifestations of uterine sarcomas and the use of magnetic resonance in the diagnosis procedures
- Classify the uterine sarcomas accorsing the the internetioanl FIGO classification model
- Gain up-to-date knowledge on the management of recurrent or metastatic disease in uterine leiomyosarcoma
- · Analyze the management of recurrent endometrial stromal sarcoma
- Study the treatment of a metastatic disease and the prognostic factors of an endometrial stromal sarcoma
- Review the treatment and management of the early stages of undifferentiated endometrial sarcoma

Module 26. Rare Gynecologic Tumors

- Identify the different types of less common genital tumors and the corresponding treatment and evolution
- · Revise the clinical manifestations and diagnosis of vaginal cancer
- Review the different histological types and classify the different types of vaginal cancer
- Evaluate and create an appropriate diagnostic and management plan for vaginal cancer
- Establish the follow-up plan for vaginal cancer to be able to detect and recurrences
- Identify the prognosis for each type of vaginal cancer
- Review the epidemiology of gestational trophoblastic disease and the clinical features of hydatidiform mole
- Study the clincial characteristic of gestational trophoblastic neoplasia
- Appropriately evaluate the different forms of gestational trophoblastic disease with imaging techniques

- Gain up-to-date knowledge of the histologic shapes of molar and invasive forms
- Appropriately perform staging of placental invasive disease
- Study the different types of surgical treatment suitable for treating the different forms of molar disease in pregnancy
- Recognise and implement the most appropriate methods for follow-up treatment of molar disease in pregnancy
- Appropriately classify the prognosis of gestational trophoblastic disease
- Identify and assess the different tumors that can metastasize in the female genital tract
- Study the way to deal with metastasized cancers in the genital tract
- Analyze and treat neuroendocrine tumors in the female genital tract
- Review the way to deal with tumors of the rectovaginal septum, as well as symptomatology associated with gynecological tumors
- Evaluate the pain, the different types and the treatment of these types of tumors
- Assess the presence of ascites in the context of gynecologic tumors in an appropriate way
- Classify edema and manage it appropriately
- Identify deep vein thrombosis and evaluate the most appropriate anticoagulant treatment for each case

Module 27. Fertility Preservation in Gynecologic Oncology

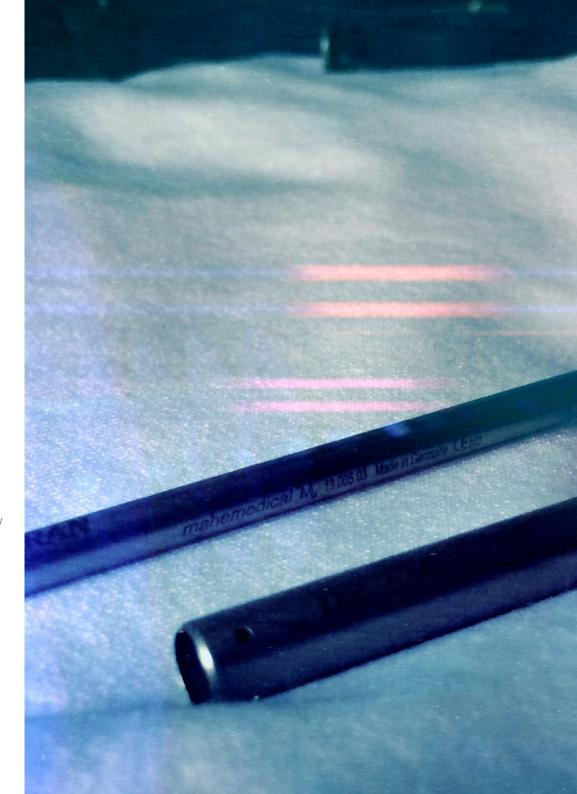
- Determine the different fertility preservation techniques in young patients and their oncological implications
- Identify the options for preserving fertility in gynecologic cancer, as well as gamete preservation
- Revise the surgical techniques for preserving fertility in each of the cancers affecting the female genital tract
- Update on the management of pregnant patients with gynecologic cancer
- Review new options for preserving ovarian tissue

tech 20 | Objectives

• Gain up-to-date knowledge on the current status of uterine transplantation and the most recent results obtained to date

Module 28. Endoscopic Surgery in Gynecologic Oncology

- Acquire up-to-date knowledge of exploratory laparoscopy for gynecologic cancer
- Foresee the possible oncologic complications due to the specific endoscopic technique used
- Describe the main characteristics of port of entry metastases
- Know the effect of mobilizers and pneumoperitoneum in gynecological cancer
- Acquire up-to-date knowledge of the lymphadenectomy procedures in the gynecological context
- Acquire up-to-date knowledge of the procedures involved in the specific technique of systematic transperitoneal and extraperitoneal para-aortic lymphadenectomy
- Select which type of laparoscopy should be used for inguinal lymphadenectomy
- Acquire up-to-date knowledge of the applications of endoscopy in ovarian, cervical and endometrial cancer
- Acquire up-to-date knowledge of the procedures involved in specific techniques, such as laparoscopic trachelectomy and parametrectomy in the context of cervical cancer
- Acquire up-to-date knowledge of sentinel lymph node application procedures in endoscopy and gynecology
- Identify the different types of tracers and fluorescence
- Explain the technique for pelvic exenteration using laparoscopy
- Acquire up-to-date knowledge of the procedures involved in minimally invasive surgery for recurrences of different gynecologic cancers
- Acquire up-to-date knowledge of the procedures involved in laparoscopic management of borderline ovarian tumors
- Acquire up-to-date knowledge of the procedures involved in laparoscopic management of lymph node recurrences in genital cancer





Module 29. Stress and Its Impact on Fertility

- Describe the peculiarities of endoscopy and its use in pregnant patients
- Update the procedures used in tubal recanalization techniques
- Identify the different uses of endoscopy in relation to the fertility of patients
- Acquire up-to-date knowledge of the literature on the effects of endoscopy on fertility

Module 30. Introduction. Anatomy. Physiology. Cellular Cycle

- Study the developments and advances throughout the history of Reproductive Medicine
- Examine the aspects related to female and male anatomy, in addition to those related to gametogenesis and oocyte fertilization by the spermatozoon
- Delve into the anatomy and embryology related to embryonic genesis and embryo implantation

Module 31. Gamete Interaction Fertilization Embryonic Development

- Differentiate the different reproductive techniques: ovulation stimulation, artificial insemination and In Vitro Fertilization with or without sperm microinjection
- Detail the indication of the different reproductive techniques
- Understand the possibility of using reproductive techniques with donor gametes
- Know the different adjuvant treatments that could be used in patients diagnosed with low ovarian reserve
- Manage the different types of ovulation induction according to the patient's profile
- Know the usual artificial insemination and vitro fertilization cycles



Module 32. Study of the Female Factor Role of Surgery in Reproduction

- Study the possible relationship with tubal factor sterility and infertility
- Deepen in the histological, immunological and microbiological endometrial changes and in the current techniques for their evaluation
- Basic study of ovarian reserve
- Distinguish the factors that can affect female reproductive capacity at the level of decreased ovarian reserve
- Understand tubal patency assessment techniques

Module 33. Andrology Laboratory

- Deepening the basic study at the male level
- Interpret normal values of a semen analysis
- Know the factors that may affect male reproductive capacity in terms of sperm quality, motility, morphology, aneuploidy or sperm DNA fragmentation
- Deepen the current specific studies for male factor, as well as advanced techniques
- Develop the indications for testicular biopsy and its procedure

Module 34. Reproductive Treatments Medication. Stimulation Protocols

- Manage the different drugs used in ovulation stimulation
- Know the different stimulation protocols according to the patient's characteristics
- Develop IVF/ICSI techniques (micromanipulation) from the beginning: SUZI, PZD, ROSI, ELSI, IMSI, PICSI, assisted hatching
- Explore culture media composition and requirements as a function of embryonic developmental stage
- Study embryo development and specific classification of embryo quality according to stages

- Deepen in time-lapse technology and the different kinetic events affecting embryo division
- Study the automatic algorithms presented by each time-lapse technology and relate them to the reproductive results
- Develop additional techniques in the laboratory that allow a possible improvement in embryo implantation (collapse, hatching)

Module 35. Micromanipulation Techniques

- Understand the need to establish general and specific quality indicators for each laboratory in order to maintain the best conditions in the laboratory
- Study the impact of fibroids on fertility
- Analyze the possible surgical indications in patients with fibroids and infertility
- Delve deeper into the impact of uterine malformations on fertility
- Analyze the possible surgical indications in patients with surgical malformations and infertility Metroplasties Septoplasties
- Understand the role of tubal surgery in improving natural fertility
- Develop the surgical option of uterine transplantation, its indications and technique

Module 36. Gamete and Embryo Cryopreservation

- Study the indications of the "freeze all"
- Know and manage the possible complications derived from assisted reproduction treatments
- Analyze the drugs used for the endometrial preparation of substituted embryo cryotransfer cycles
- Update the different luteal phase support protocols
- Develop gamete handling in the laboratory
- Know the embryo biopsy techniques according to the stage of embryo division

- Know the embryo biopsy techniques according to the technology used and the existing means in each laboratory
- Analyze the indications for fertility preservation in the male
- Study the techniques used in sperm cryopreservation and their efficiency
- Deepen the indications for fertility preservation in women
- Know the techniques used in oocyte cryopreservation and their efficiency
- Know the techniques used in ovarian tissue cryopreservation and their efficiency

Module 37. Fertility Preservation

- Study the European standards to establish the minimum criteria required in Reproduction Units (ISO/UNE)
- Study in depth the definitions and indications for the study of the couple with repeated miscarriages or implantation failures
- Develop the level of evidence for each of the requested tests
- Gain knowledge the different treatment options
- Study the impact of endometriosis on fertility
- Analyze the possible surgical indications in patients with endometriosis and infertility
- Know the impact of adenomyosis on fertility
- Develop possible surgical indications in patients with adenomyosis and infertility
- Understand the impact of the hydrosalpinx on fertility and its surgical indication prior to In Vitro Fertilization

Module 38. Genetics in Reproduction

- Study the basic concepts of genetics
- Develop the basic concepts of reproductive genetics
- Analyze the concept of "epigenetics" and its influence on reproduction
- Know the different genetic diagnostic techniques, existing platforms and application of each of them according to the diagnostic objective
- · Analyze the indications in reproductive medicine for diagnosis and screening of aneuploidy
- Interpret the results of genetic studies
- Understand the need for genetic counseling
- Knowledge of embryo biopsy techniques
- Study the results of the preimplantation genetic diagnosis and aneuploidy screening program

Module 39. Legislation Quality Research and Future Techniques

- Know the Spanish legislation on Assisted Reproduction Techniques and its evolution throughout history
- Know the legislation in other surrounding countries
- Develop new techniques in genetic diagnosis (non-invasive tests, mitochondrial transfer) and their possible future applications





tech 26 | Skills



General Skills

- Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- Apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study
- Integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments
- Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- Acquire the learning skills that will enable further studying in a largely self-directed or autonomous manner
- Acquire up-to-date concepts in anatomy, physiology, embryology and genetics, which will help to understand reproductive diagnostics and treatments
- Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- Know how to apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the field of study
- Integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments
- Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way





- Know the general application of laparoscopy in gynecologic surgery for both benign and malignant processes
- Establish the basis of electrosurgery for its application in the field of endoscopy
- Determine the learning needs and carry out a specialized educational program using all the resources available for the study of endoscopy
- Perform adequate training in endoscopic suturing
- Develop an exhaustive knowledge of the visceral and accessory anatomy of the female pelvis and abdomen to apply it in the operating room
- Diagnose and treat benign uterus and appendage pathology involving the female genital tract with minimum invasion
- Identify and classify the different types of endometriosis in order to treat them with minimally invasive surgery
- Determine the epidemiology and main characteristics of pelvic floor processes in women and how to treat them with or without meshes
- Establish the diagnostic and treatment procedures for the different types of cancer affecting women based on the latest advances in gynecologic oncology
- Describe the endoscopic surgical procedures related to different types of cancers affecting women
- Adequately manage gynecologic tumor recurrences
- Identify endoscopic surgery complications and their intraoperative and postoperative management
- Describe the biological basis of oncology procedures
- Identify the various chemotherapeutic agents, their mechanism of action and their use in the treatment of gynecologic cancers

- Identify and classify the different types of cancer found in the female reproductive system
- Determine the epidemiology and principal characteristics of oncology processes in women
- Establish the diagnostic and treatment procedures for the different types of cancer affecting women based on the latest advances in gynecologic oncology
- Identify the signs and symptoms specific to uterine sarcoma and the latest diagnostic and therapeutic procedures used to address them
- Describe the surgical procedures related to the different types of cancers affecting women
- Know ways in which to adequately preserve the fertility of a woman with cancer
- Identify new research paths and literature updates on gynecologic oncology
- Identify the signs and symptoms specific to uncommon tumors in women and highlight the latest diagnostic and therapeutic procedures used to address them
- Implement the correct form of medical practice to care for a dying patient, in accordance with the latest scientific evidence
- Highlight the main pathologies associated with eating disorders and the actions aimed at their prevention and treatment
- Understand in detail the aspects related to the initial assessment of a sterile couple.
 Study criteria and referral to Reproduction Units. Basic clinical examination, request and interpretation of the results of complementary tests
- Perform an appropriate assessment and clinical orientation of the couple. Indication of request for specific tests based on the above findings





International Guest Director

Dr. Allan Covens is an international eminence in the field of **Gynecologic Oncology**. Throughout his distinguished professional career, the Postgraduate Diploma has investigated **germ cell tumors**, **Gestational Trophoblastic Disease**, **Cervical Cancer**, as well as radical and reconstructive surgical techniques. In particular, he is a reference for his medical innovations that, after different types of surgeries, aim at preserving the fertility of patients. Thanks to these contributions, he has accumulated more than 32 awards and grants.

In addition, this eminent specialist has performed live interventions in several continents, also taking his medical contributions to nearly 30 countries around the world through lectures. He is also the author of more than 135 peer-reviewed publications and has participated in 16 textbooks on Gynecologic Oncology. Another of his works is a DVD/book on advanced laparoscopic techniques in this field of women's health.

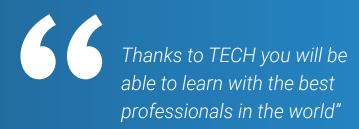
In turn, Dr. Covens has chaired the Division of Gynecologic Oncology at the University of Toronto and Sunnybrook Health Sciences Centre. At the latter institution, he directed his fellowship to train potential scientists for 13 years. He also serves on the board of the Global Curriculum Review Committee and coordinates the Rare Tumor Committee. He is also a member of MAGIC, a multidisciplinary team developing protocols for malignant germ cell tumors.

In addition, this distinguished scientist is on the editorial board of the journal Cancer and reviews articles for Lancet Oncology, Gynecologic Oncology, International Journal of Gynecologic Cancer, among many other specialized publications.



Dr. Covens, Allan

- Director of the Division of Gynecologic Oncology at the University of Toronto
- Advisor to Moi University, Eldoret, Kenya
- Past President of the International Gynecologic Cancer Society (IGCS)
- Advisor to the Editorial Board of the journal Cancer
- Specialist in Obstetrics and Gynecology from the University of Western Ontario
- Medical Degree from the University of Toronto
- Research Fellowship in Gynecologic Oncology at the University of Toronto/McMaster's Degree in Gynecologic Oncology
- Member of: Rare Tumor Committee, Gynecology, Cervical and Gestational Trophoblastic Committee of the NRG Postgraduate Certificate in Treatment and Management of Uterine Sarcoma



International Guest Director

As one of the pioneer surgeons in Brazil by introducing advanced techniques of Laparoscopic Oncologic Surgeryin Paraná, Dr. Reitan Ribeiro is one of the most prolific figures in this specialty. So much so that he has even received recognition as an honorary citizen of the city of Curitiba, highlighting his work in the creation and development of the technique of Uterine Transposition.

The IJGC, International Journal of Gynecologic Cancer, has also recognized the outstanding work of Dr. Reitan Ribeiro. His publications on **Uterine Robotic Transposition in Cervical Cancer**, Uterine Transposition after Radical Trachelectomy and directed research in the technique of Uterine Transposition for patients with gynecological cancers who want to preserve fertility are highlighted. He has received the **national award for medical innovation** for his research in the field of Uterine Transposition, highlighting these advances in the preservation of the patient's fertility.

His professional career is not without success, as he holds numerous positions of responsibility in the prestigious Erasto Gaertner Hospital. He directs the research program in Gynecologic Oncology of this center, being also director of the Fellowship program in this specialty, in addition to coordinating the training program in Robotic Surgery focused on Gynecologic Oncology.

At the academic level, he has completed internships at numerous prestigious centers, including Memorial Sloan Kettering Cancer Center, McGuill University and the National Cancer Institute of Brazil. He balances his clinical responsibilities with consulting work for leading medical and pharmaceutical companies, mainly Johnson & Johnson and Merck Sharp & Dohme.



Dr. Ribeiro, Reitan

- Research Director, Gynecologic Oncology Department Erasto Gaertner Hospital - Brazil
- Director of the Fellowship Program in Gynecologic Oncology at the Erasto Gaertner Hospital
- Director of the Robotic Surgery Training Program of the Gynecologic Oncology Oncology Department of the Erasto Gaertner Hospital
- Senior Surgeon in the Department of Gynecologic Oncology, Erastus Gaertner Hospital
- Director of the Resident Oncologist Program at the Erasto Gaertner Hospital
- Consultant at Johnson & Johnson and Merck Sharp & Dohme
- Degree in Medicine at the Federal University of Porto Alegre
- Fellowship in Gynecologic Oncologic Surgery at Memorial Sloan Kettering Cancer Center

- Fellowship in Minimally Invasive Surgery, McGuill University
- Internships at Governador Celso Ramos Hospital, National Cancer Institute of Brazil and Erasto Gaertner Hospital
- Certification in Oncologic Surgery by the Oncologic Surgery Society of Brazil



Management



Dr. Iniesta Pérez, Silvia

- Coordinator the Reproduction Unit of Hospital Universitario
- Degree in Medicine and Surgery from the University of Alcalá, Madrid
- Specialist in Obstetrics and Gynecology, via MIR. Santa Cristina University Hospital, Madrid
- Doctorate Courses at the Autonomous University of Madrid
- Research Sufficiency in the Department of Obstetrics and Gynecology, Universidad Autónoma de Madrid, Qualification
 Outstanding
- Doctoral Thesis, Obstetrics and Gynecology epartment, Autonomous University of Madrid Oustanding- Cum Laude
- Levels I, II, III and IV obstetric-gynecological ultrasound (SESEGO accreditation)
- Master's Degree in Human Reproduction IVI
- Master's Degree in Genomics and Medical Genetics 2nd edition, Granada University
- Online Master's Degree in Minimally Invasive Surgery in Gynecology. CEU Cardenal Herrera University
- Masterclass Patient-Centered Clinical Management. Deusto Business School, Madrid
- Area Specialist Doctor at the Santa Cristina University Hospital, Madrid
- Interim Labor Doctor, Hospital Infanta Sofía, Madrid
- Physician on Secondment at the La Paz 6 University Hospita



Dr. Franco Iriarte, Yosu

- Laboratory and scientific director, International Ruber Hospital
- Head of the Assisted Reproduction Laboratory of the Virgen del Pilar Health Centre in San Sebastiár
- Head of the Assisted Reproduction Laboratory of Policlínica Guipúzcoa, including the laboratory of Clínica del Pila
- Collaboration with the Assisted Reproduction Center, Navarro Medical Center
- Senior Embryologist at Cornell University Hospitals of New York and RMA of New Jersey
- Creation of the company Donostia Basque Institute of Fertility located in Onkologikoa. Managing Director
- Managing Director of the Donostia Basque Institute of Fertility
- Graduate in Biology, University of Navarra (Fundamental and Health Specialty)
- CAP Qualification (Certificate of Pedagogical Competency
- PhD in Science from the University of Navarra. Thesis Title: "Genetic risk factors for venous thrombosis"
- University Specialist in Assisted Reproduction: Psychological and Legal Aspects from the Complutense University of Madrid
- Discussion Table Moderator of the North Forum Reproduction Units on embryonic and oocyte morphological criteria and embryo freezing
- University Diploma in Nursing. UPV-EHU "Donostia School of Nursing" Donostia- San Sebastián
- Master's Degree in "Genetic Counseling". San Pablo University CEU in Madrid

tech 32 | Course Management

Professors

Ms. Sotos Borrás, Florencia

- Graduate in Biological Sciences. Specialist in Biochemistry and Molecular Biology.
 Autonomous University of Madrid
- Radioactive Facilities Supervisor Certification, Specialty in Biomedicine and Research.
 Infocitec
- IVF-Genetics-Andrology at Ruber Internacional Hospital

Ms. Villa Milla, Amelia

- Senior Embryologist in the Assisted Human Reproduction Laboratory at Ruber Internacional Hospital, Madrid
- Degree in Biological Sciences and Specialist in Biochemistry and Molecular Biology.
 Autonomous University of Madrid
- Biologist Specialist in Clinical Analysis in the Area of Genetics. Official Biologists College

Dr. Cuevas Saiz, Irene

- Accredited by the ASEBIR as a Specialist in Assisted Human Reproduction Clinical Embryology
- Official Master's Degree in Biotechnology of Assisted Human Reproduction, University of Valencia
- Master's Degree in Human Reproduction
- Doctoral Candidate in Obstetrics, Gynecology and Regenerative Medicine, Research Plan Title: "Embryo selection by non-invasive techniques: combining morphology

Dr. Sole Inarejos, Miquel

- Senior Embryologist of the In Vitro Fertilization Laboratory and Head of the Cryobiology Department, Dexeus University Hospital
- Degree in Biology and Biochemistry
- D. in Cell Biology, Autonomous University of Barcelona

Dr. Fernández Díaz, María

- Director of Ergo Clinic and responsible for the Assisted Reproduction Department
- Degree in Biochemistry. Faculty of Medicine and Health Sciences, University of Oviedo
- Degree in Chemistry. Faculty of Chemical Medicine, University of Oviedo
- PhD student in Molecular and Cellular Biology. University of Oviedo
- Official Master's Degree in Reproductive Biology and Technology University of Oviedo
- Master's Degree in Cancer Research University of Oviedo
- Postgraduate Degree in Medical Genetics. University of Valencia

Dr. Gayo Lana, Abel

- Co-Director of the ERGO Clinic. Embryology Laboratory Director
- Doctor in Biology (outstanding Cum Laudem), PhD Program in Biochemistry and Molecular Biology, Department of Functional Biology, University of Oviedo
- Master's Degree in Human Reproduction, Spanish Fertility Society (SEF) and Complutense University of Madrid
- Degree in Biology. Faculty of Biology Medicine, University of Oviedo
- Official Degree: Senior Embryologist of ESHRE
- · ASEBIR Certification in Assisted Human Reproduction. Clinical Embryology

Dr. Costa Borges, Nuno Luis

- Chief Scientific Officer and co-founder of Embryotools
- Clinical Embryologist, Valencian Institute of Infertility (IVI), Barcelona
- Assistant Professor, Autonomous University of Barcelona, Department of Cellular Biology
- Graduate in Biochemistry, University of Coimbra, Portugal
- D. in Cell Biology, Autonomous University of Barcelona

Dr. Carrillo de Albornoz Riaza, Elena

- Medical Director of the Reproduction Unit, Ruber International Hospital
- Gynecologist of the Gynecology and Obstetrics Service of Dr. Jiménez Ruiz's team at Ruber International Hospital
- Specialist in the Obstetrics and Gynecology Service, Del Aire University Hospital
- Honorary collaborator of the Department of Obstetrics and Gynecology, Faculty of Medicine, Complutense University of Madrid
- Degree in Medicine and Surgery from the Faculty of Medicine at the Complutense University of Madrid
- Specialist in Gynecology and Obstetrics issued by the Ministry of Education and Science
- · Doctorate, Autonomous University of Madrid

Dr. Vegas Carrillo de Albornoz, Ana

- Medical Specialist in Obstetrics and Gynecology, Ruber International Hospital
- Assistant Physician in the Obstetrics and Gynecology Shift Team, Hospital Ruber International
- Medicine Graduate from the Faculty of Medicine of the Complutense University of Madrid
- PhD in Medical and Surgical Sciences, Universidad Complutense de Madrid
- Master's Degree in Human Reproduction, Complutense University of Madrid

Dr. Fernández Prada, Sara

- Specialist in the Human Reproduction Section, La Paz University Hospital, Madrid
- Doctor specialized in Obstetrics and Gynecology
- Master's Degree in Assisted Reproduction from Rey Juan Carlos University

Dr. Gay, Rosina

- Senior Embryologist in the Assisted Reproduction Laboratory, Ruber International Hospital
- Biologist in the Genetics and IVF Laboratory Clinic
- Biologist in the Genetics, IVF and Clinical Analysis laboratories, Madrid Institute of Integral Gynecology
- Degree in Biological Sciences with a major in Biochemistry, Complutense University of Madrid

Dr. Messeguer, Marcos

- Scientific Supervisor at IVI Team
- · Senior Embryologist at IVI Valencia
- Professor of Biotechnology, University of Valencia
- Degree in Biological Sciences, University of Valencia
- D. cum laude in Biological Sciences and European Doctorate
- Master's Degree in Research Methods; Design and Statistics, Autonomous University of Barcelona

Dr. Hurtado de Mendoza, María Victoria

- Head of Quality Control of the IVF Laboratory and Senior Clinical Embryologist at Caremujer SL
- Responsible for the design and start-up of the first IVF laboratory in Andalusia
- Senior Clinical Embryologist at MásVidaReproducción, in Seville, Spain
- Medical Specialist in the Cell Culture Genetics and Cytogenetic Analysis Unit, Puerta del Mar University Hospital, Cadiz
- Degree in Biological Sciences, University of Seville, Spain
- Doctorate from the Faculty of Biology, University of Seville

tech 34 | Course Management

Dr. Alcaide Raya, Antonio

- CTO and co-founder of Assacell Biologist
- Partner, senior embryologist and cofounder of Reprofiv
- Senior Embryologist in charge of the Andrology and Embryology Laboratory at FIV Center Madrid
- Graduate in Biology, Complutense University of Madrid
- · Specialist in Genetic Medicine, University of Alcalá de Henares, Madrid
- Master's Degree in Biological and Embryological Development, University of Valencia

Dr. Horcajadas, José A

- Founder of HoMu invest and Fullgenomics
- Scientific Director at Overture Life
- Consultant, scientific director and founder of SINAE Scientific Consulting in Seville, Spain
- Professor of Genetics, Pablo de Olavide University of Seville, Spain
- Research Professor, Eastern Virginia Medical School, Norfolk, Virginia
- Degree in Molecular Biology and Biochemistry, Autonomous University of Madrid
- D. in Biological Sciences, Autonomous University of Madrid

Dr. Eguizabal Argaiz, Cristina

- Head Researcher, Basque Transfusion and Human Tissue Center (CVTTH)
- Senior Researcher, Center for Regenerative Medicine, Barcelona, Spain
- Postdoctoral Research Fellow at The Gurdon Institute, University of Cambridge
- Degree in Biology, Fundamental Biology with a major in Microbiology, University of Navarra
- D. in Cell Biology, University of the Basque Country

Dr. Vendrell Montón, F. Xavier

- Head of the Reproductive Genetics Unit of Sistemas Genómicos SL
- Responsible for reproductive genetic counseling and preconception at the Valencian Institute of Genetics
- Staff Biologist, Balearic Infertility Institute in Palma de Mallorca
- Degree in Biological Sciences, University of Valencia
- Ph.D. in Biological Sciences with Cum Laude distinction, University of Valencia

Dr. Sáez de la Mata, David

- Assistant physician of the Assisted Reproduction Unit of the Infanta Sofía University Hospital of the Community of Madrid
- Physician of the Assisted Reproduction Unit of Ginemed Madrid Center
- Degree in Medicine from the University of Alcalá de Henares
- Master's Degree in Contraception and Sexual and Reproductive Health
- Master's Degree in Human Reproduction IVI
- Expert in Gynecological Exploration and Mammary and Vulvar Pathology
- Expert in Uterine Pathology, Menopause and Reproduction
- Expert in Obstetric Diagnosis and Pathology and Expert in Childbirth, Puerperium and Lactation by the Institute of Continuing Education of the University of Barcelona

Dr. Fernández Pascual, Esaú

- Member of the Spanish Association of Urology
- Andrology and Sexual Medicine at the La Paz University Hospital
- Degree in Medicine from the Autonomous University Madrid
- Co-Editor-in-Chief of the International Journal of Andrology

Dr. Bescós Villa, Gonzalo

- Biologist at the Universidad Autónoma De Madrid
- Master's Degree in Genetics and Cell Biology, Interuniversity: Complutense University of Madrid, Autonomous University of Madrid and University of Alcalá de Henares
- Final thesis in luisa maria botella's group, Center for Biological Research of the Higher Council for Scientific Research
- Internship in Maria Blasco's group, National Oncology Research Center, Spain
- Extracurricular internship in the genetics department of the Ruber International Hospital

Dr. Escribá Pérez, María José

- Clinical Embryologist at IVIRMA-Valencia's In Vitro Fertilization Laboratory
- PhD in Biology from the Polytechnic University of Valencia
- Researcher in the area of reproductive biotechnologies

Dr. Duarte Perez, Manuel

- Specialist in the Reproduction Section and in the Obstetrics and Gynecology Service of the La Paz University Hospital
- Master's Degrees in Human Reproduction (IVI-University of Valencia/ADEIT) and in Gynecological Endoscopic Surgery by IVI-University of Valencia/ADEIT
- Master's Degree in Human Reproduction by IVI-University of Valencia/ADEIT

Dr. Armijo, Onica

- Assistant Specialist in Gynecology and Obstetrics at La Paz Hospital Human Reproduction Unit
- Professor of the Faculty of Medicine of the UAM

Dr. García, Myriam

- · Attending Physician at La Paz University Hospital
- Graduate in Medicine and Surgery from the University of Seville
- Felowship Gynecologic Oncology accredited by ESGO
- Internal Medical Specialist at the Virgen del Rocío University Hospital in Seville

Dr. Sánchez Hernández, María José

• Specialist in Obstetrics and Gynecology at the Reproduction Unit of Hospital Universitario La Paz, Madrid

Dr. Silva Zaragüeta, Patricia

- Specialist in Obstetrics and Gynecology at La Paz University Hospital
- Specialty in Reproductive Medicine at La Paz University Hospital
- PhD in Medicine and Surgery from the Autonomous University of Madrid

Dr. Álvarez Álvarez, Pilar

- Gynecology and Obstetrics Area Specialist at Infanta Sofia University Hospital
- PhD in Gynecology and Obstetrics from the Autonomous University of Madrid
- Professor of Health Sciences at the European University of Madrid
- Master's Degree in Human Reproduction from Rey Juan Carlos University

Ms. Carmen Cañadas, María

- Biologist in the IVF laboratory and coordinating the genetic counselling department at Ginefiv
- Lecturer in the area of genetics and assisted reproduction





tech 42 | Structure and Content

Module 1. Female Surgical Anatomy

- 1.1. Anatomy of the Abdominal Wall
- 1.2. Musculo-Fascial Anatomy of the Female Pelvis
- 1.3. Visceral System of the Upper Abdomen
 - 1.3.1. Diaphragm
 - 1.3.2. Liver
 - 1.3.3. Omentum and Spleen
 - 1.3.4. Small Intestine, Large Intestine, and Stomach
 - 1.3.5. Rest of Organs in Upper Abdomen
- 1.4. Pelvic Visceral System
 - 1.4.1. Uterus and Ovaries
 - 1.4.2. Recto and Sigma
 - 1.4.3. Bladder and Ureters
- 1.5. Abdomino-Pelvic Vascular System
- 1.6. Abdominal and Pelvic Nervous System
- 1.7. Lymphatic System in Abdomen and Pelvis
- 1.8. Dissection and Limits of Avascular Spaces
- 1.9 Vascular Anomalies
 - 1.9.1. Abnormalities in the Pelvic Area
 - 1.9.2. Corona Mortis
 - 1.9.3. Abdominal and Aortic Area Abnormalities
 - 1.9.4. Use of Preoperative Imaging Techniques
- 1.10. Anatomy of Vulva and Vagina
- 1.11. Functional Anatomy of the Pelvic Floor

Module 2. Hysteroscopic Surgery

- 2.1. Introduction to Hysteroscopic Surgery
- 2.2. Organization of an Outpatient Hysteroscopy Consultation
- 2.3. Hysteroscopy Equipment and Instruments in Consultation
 - 2.3.1. Peculiarities of the Hysteroscopy Tower
 - 2.3.2. Types of Diagnostic Hysteroscopes
 - 2.3.3. Types of Instruments
- 2.4. Hysteroscopy in Consultation
 - 2.4.1. Indications for In-Consultation Hysteroscopy
 - 2.4.2. In-Consultation Hysteroscopy Technique
 - 2.4.3. How to Increase the Success Rate?
- 2.5. Surgical Hysteroscopy
 - 2.5.1. Surgical Hysteroscopies Indications
 - 2.5.2. Peculiarities of the Procedure in the Operating Room
- 2.6. Systematic Endometrial Exploration and Biopsy
- 2.7. Hysteroscopic Polypectomy
- 2.8. Foreign Body Removal (IUD, Essures)
- 2.9. Hysteroscopic Myomectomy
 - 2.9.1. Limits to In-Consultation Interventions
 - 2.9.2. Types of Hysteroscopic Morcellators
 - 2.9.3. Suitable Techniques
- 2.10. Resection of Septum and Intracavitary Malformations
- 2.11 Intratubal Devices
- 2.12. Endometrial Ablation
 - 2.12.1. Resectoscope Use
 - 2.12.2. Novasure and Other Devices



Structure and Content | 43 tech

- 2.13. Complications and Post-Procedural Management in Hysteroscopy
 - 2.13.1. Uterine or Cervical Perforation
 - 2.13.2. Infections
 - 2.13.3. Vasovagal Syndrome
 - 2.13.4. Bleeding
 - 2.13.5. Postoperative Pain
 - 2.13.6. Hyperosmolar Syndrome
 - 2.13.7. Others
- 2.14. New Developments in Hysteroscopy
 - 2.14.1. Use of Monopolar vs. Bipolar
 - 2.14.2. Use of Laser in Hysteroscopy
 - 2.14.3. Other Developments

Module 3. Exploratory Laparoscopy and Benign Adnexal Pathology

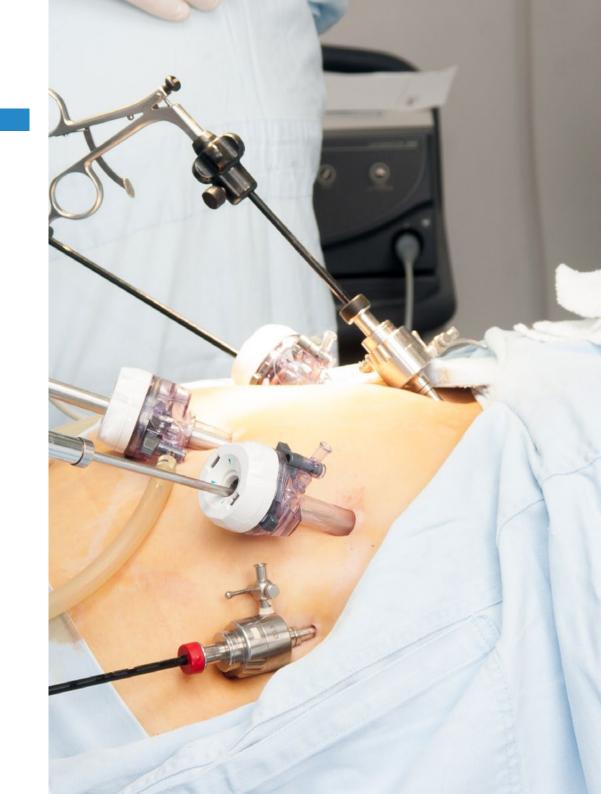
- 3.1. General Considerations in the Operating Room
- 3.2. Use of Veress vs. Hasson Trocar
- 3.3. Placement of Accessory Trocars
 - 3.3.1. Choosing the Right Trocar
 - 3.3.2. How to Avoid Complications?
 - 3.3.3. Use of Direct Vision Trocars
 - 4. Performing the Pneumoperitoneum
- 3.5. Systematic Exploration of the Cavity: Biopsies and Cytology
- 3.6. Simple Adnexectomy and Salpingectomy
- 3.7. Ovarian Cystectomy of Simple Cysts
- 3.8. Management of Complex Non-Endometriotic Cysts
 - 3.8.1. Ovarian Teratomas
 - 3.8.2. Large Cysts
 - 3.8.3. Adnexal Torsion
 - 3.8.4. Ectopic Pregnancy
 - 3.8.5. Pelvic Abscess and Inflammatory Disease
- 3.9. Remaining Ovary Syndrome

tech 44 | Structure and Content

Module 4. Benign Uterine Pathology and Dysgenesis

4.1. Laparoscopic Myomectom	Laparoscopic Myomecto	om	٧
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- 4.1.1. Medical Treatment of Myomas
- 4.1.2. Surgical Treatment. Indications
- 4.1.3. Prevention of Bleeding
 - 4.1.3.1. Injection of Vasoconstrictors
 - 4.1.3.2. Temporary Clipping of Uterine Arteries
- 4.1.4. Basic Surgical Techniques
 - 4.1.4.1. Choosing the Incision
 - 4.1.4.2. Myomatous Dissection and Removal
 - 4.1.4.3. Bed Suture
 - 4.1.4.4. Morcellation of the Part
 - 4.1.4.4.1. Risk of Uterine Sarcoma
 - 4.1.4.4.2. Sealed Morcellation Systems
- 4.1.5. Fertility after Myomectomy
 - 4.5.1.1. Obstetric Outcomes and Recommendations
 - 4.5.1.2. Non-Stick Systems
- 4.2. Laparoscopic Hysterectomy
 - 4.2.1. Use of Uterine Mobilizers
 - 4.2.1.1. Types of Mobilizers
 - 4.2.1.2. Fitting the Mobilizers
 - 4.2.1.3. Advantages of Mobilizers
 - 4.2.1.4. Automatic Uterine Mobilization Systems
 - 4.2.2. Basic Simple Hysterectomy Technique
 - 4.2.3. Technique in Complex Situations
 - 4.2.4. Vaginal Vault Suture and Dehiscence
- 4.3. Genital Malformation Syndromes
 - 4.3.1. Classification of Malformation Syndromes
 - 4.3.2. Laparoscopic Resolution of Malformation Syndromes
 - 4.3.3. Laparoscopic Neovagina



Module 5. Pelvic Floor Pathology and Use of Vaginal Meshes

- 5.1. Pathophysiology of Genital Prolapse
- 5.2. Etiopathogenesis of Chronic Pelvic Pain
- 5.3. Global Assessment of the Patient and Route of Approach
- 5.4. Prosthetic Materials and Mesh Types
 - 5.4.1. Types of Material
 - 5.4.2. Meshes for Genital Prolapses
 - 5.4.3. Urinary Incontinence Meshes
- 5.5. Laparoscopic Sacrocolpopexy
 - 5.5.1. Choosing the Right Mesh
 - 5.5.2. Surgical Technique
 - 5.5.2.1. When to Preserve the Uterus?
 - 5.5.3. Technique Complications
 - 5.5.4. A Learning Curve
- 5.6. Treatment of Urinary Incontinence
 - 5.6.1. Pre-Operative Study
 - 5.6.2. Endoscopic Treatment of Incontinence
 - 5.6.3. Vaginal Treatment of Incontinence
 - 5.6.4. Placement of Mini-Slings
 - 5.6.5. Placement of TVT TOT
 - 5.6.6. Other Procedures
- 5.7. Endoscopic Repair of Paravaginal Defects
- 5.8. Role of Cystoscopy in Gynecologic Surgery

Module 6. Laparoscopy in Endometriosis

- 6.1. Laparoscopy in the Treatment of Endometriosis
- 6.2. General Diagnosis of Endometriosis
 - 6.2.1. Clinical Examination
 - 6.2.2. Imaging Techniques
 - 6.2.3. The Role of Tumor Markers
- 6.3. Endometriosis Classification
 - 6.3.1. Classification Systems by Authors
 - 6.3.2. Clinical Utility of Classifications
- 6.4. Medical Treatment of Endometriosis
 - 6.4.1. Non-Hormonal Treatment
 - 6.4.2. Hormonal Treatment
 - 6.4.2.1. Contraceptives
 - 6.4.2.2. Progestogens
 - 6.4.2.3. Danazol
 - 6.4.2.4. Gestrinone
 - 6.4.2.5. Others
- 5.5. Treatment of Ovarian and Peritoneal Endometriosis
 - 6.5.1. Types of Peritoneal Disease
 - 6.5.2. Adhesion Formation and Release
 - 6.5.3. Ovarian Endometriosis
- 6.6. Management of Deep Endometriosis
 - 6.6.1. General concepts
 - 6.6.2. Endometriosis Rectum Vaginal Septum
 - 6.6.3. Lateral and Sciatic Compartment
 - 6.6.4. Intestinal Endometriosis
 - 6.6.5. Endometriosis in the Urinary Tract
- 6.7. Extrapelvic Endometriosis
- 6.8. Reproductive Effects of Laparoscopy and Endometriosis
- 6.9. New Developments in Endometriosis and Laparoscopy

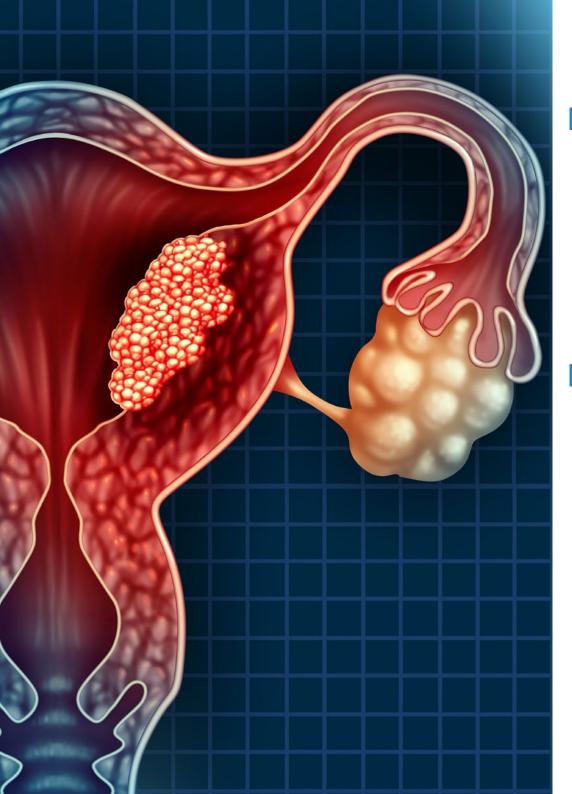
tech 46 | Structure and Content

Module 7. Minimally Invasive Surgery

- 7.1. General Introduction
- 7.2. History of Laparoscopy
- 7.3. Introduction to Hysteroscopic Surgery
- 7.4. Ergonomics in Laparoscopy
- 7.5. Asepsis and Antisepsis
 - 7.5.1. Hand Washing
 - 7.5.2. Preparing Instrumentation: Sterilization
 - 7.5.3. Preparing the Surgical Field
 - 7.5.3.1. Skin Cleansing
 - 7.5.3.2. Proper Cloth Placement
- 7.6. Laparoscopic Operating Room
 - 7.6.1. Conventional Operating Rooms
 - 7.6.2. Integrated Operating Rooms
 - 7.6.3. Future Perspectives
- 7.7. Preoperative Preparation for Laparoscopy
 - 7.7.1. Physical Preparation for Patients
 - 7.7.2. Preoperative Medication and Bowel Preparation
 - 7.7.3. Patient Position on the Operating Table
- 7.8. Fast-Track / ERAS Programs
- 7.9. Anesthetic Considerations in Endoscopic Surgery
 - 7.9.1. General Aspects
 - 7.9.2. Circulatory System Involvement
 - 7.9.3. Respiratory System Involvement
 - 7.9.4. Spinal Catheter Placement and Other Blockages
 - 7.9.5. Postoperative Recovery

Module 8. Instrumentation, Materials and Electrosurgery

- 8.1. Laparoscopy Tower and General Supplies
- 3.2. Specific Vision Systems
 - 8.2.1. Full HD Systems
 - 8.2.2. 3D Vision Systems
 - 8.2.3. 4K Vision Systems
- 8.3. Endoscopy
 - 8.3.1. Rigid Endoscopy
 - 8.3.2. Flexible and Angle Adjustable Endoscopes
 - 8.3.3. Small Bore Endoscopes
- 8.4. Insufflation Systems
 - 8.4.1. General Functioning
 - 8.4.2. Smoke Extraction Systems
- 8.5. Image Recording Modules
- 3.6. Access Instrumentation
 - 8.6.1. Veress Needle
 - 8.6.2. First Access Trocars
 - 8.6.3. Accessory Trocars
- 8.7. Grasping Instruments
 - 8.7.1. Types of Instruments
 - 8.7.2. Most Appropriate Uses for Each
- 8.8. Cutting Instruments
- 8.9. Electrosurgery
 - 8.9.1. Electrosurgery in Medicine
 - 8.9.2. Monopolar Energy
 - 8.9.3. Bipolar Energy
 - 8.9.4. Electrical Isolation of Instruments
 - 8.9.5. Precautions to Avoid Accidents
- 8.10. Endoscopic Tissue Sealants
- 8.11. Bags and Specimen Extraction
- 8.12. Endodontics and Instrumentation for General Surgery
- 8.13. Morcellators and Containment Systems
- 8.14. Other Instruments: Suction, Retractors, Organ Suspension Systems, Port Closure Systems, Tie Rods, etc.



Structure and Content | 47 tech

Module 9. General Training in Minimally Invasive Surgery

- 9.1. Introduction
- 9.2. Training Programs. Learning Pyramid
 - 9.2.1. Organ Bank and Artificial Phantoms
- 9.3. Ergonomics in CL
- 9.4. Devices for CL Training Simulators
 - 9.4.1. Justification
 - 9.4.2. Classification
 - 9.4.3. Requirements
- 9.5. Live Experimental Models in Gynecologic Endoscopy
 - 9.5.1. Animal Welfare
 - 9.5.2. Justification for Its Use
 - 9.5.3. Techniques Validated in Live Experimental Models

Module 10. Laparoscopic Suture Training

- 10.1. Introduction and Suture Use in Endoscopy
- 10.2. Types of Needles
- 10.3. Types of Sutures Used
 - 10.3.1. Conventional Sutures
 - 10.3.2. Vascular Suture
 - 10.3.3. Bearded Suture
 - 10.3.4. Automatic Suture Systems
- 10.4. Specific Instrumentation
 - 10.4.1. Types of Needle Holders
 - 10.4.2. Low Knots
 - 10.4.3. LapraTy Applicator
 - 10.4.4. Others

tech 48 | Structure and Content

- 10.5. Technical Aspects
 - 10.5.1. Introducing the Needle into the Cavity
 - 10.5.2. Needle Placement in Holder
 - 10.5.3. Types of Sutures
 - 10.5.4. Intracorporeal Knotting
 - 10.5.5. Extracorporeal Knotting
 - 10.5.6. Single-Port Knotting
 - 10.5.7. Sutures and Special Types of Knots (Vascular, Intestinal)
 - 10.5.8. Suture Removal

Module 11. Complications in Minimally Invasive Surgery

- 11.1. Access and Abdominal Wall Complications
 - 11.1.1. Arterial Wall Injury
 - 11.1.2. Vascular Lesions upon Entry
 - 11.1.3. Intestinal Lesions upon Entry
 - 11.1.4. Port-of-Entry Herniation
 - 11.1.5. Infections
 - 11.1.6. Others
- 11.2. Intraoperative Vascular Complications
 - 11.2.1. Prevalence and Etiology
 - 11.2.2. Resolution
 - 11.2.3. Postoperative Aftercare.
- 11.3. Intraoperative Intestinal Complications
 - 11.3.1. Prevalence and Etiology
 - 11.3.2. Resolution
 - 11.3.3. Postoperative Aftercare.

- 11.4. Urologic Complications
 - 11.4.1. Prevalence and Etiology
 - 11.4.2. Resolution
 - 11.4.3. Postoperative Monitoring
- 11.5. Nerve Complications
- 11.6. Inadvertent Complications
- 11.7. Complications Specific to Radical Hysterectomy
- 11.8. Complications Arising from the Meshes
- 11.9. Other Complications: Lymphoceles, Infections, Pulmonary Thromboembolism (PTE), etc.

Module 12. Ultra-Minimally Invasive Surgery

- 12.1. Introduction to Ultra Minimally Invasive Surgery
- 12.2. Single-Port Surgery
 - 12.2.1. Evidence in Gynecology for Its Use
 - 12.2.2. Specific Instruments.
 - 12.2.3. Surgical Technique by Procedures
 - 12.2.4. Single-Glove
- 12.3. Mini-Laparoscopic Surgery
 - 12.3.1. Evidence in Gynecology for Its Use
 - 12.3.2. Specific Instruments.
 - 12.3.3. Surgical Technique by Procedures
- 12.4. Surgery without Ports of Entry
 - 12.4.1. Evidence in Gynecology for Its Use
 - 12.4.2. Specific Instruments.
 - 12.4.3. Surgical Technique by Procedures
- 12.5. Other Ultra-Mini-Invasion Breakthroughs
- 12.6. Comparison between the Different Techniques

Module 13. Robotic Surgery in Gynecology

- 13.1. Introduction and Advantages of Robotic Surgery
- 13.2. Different Types of Robotic Systems
 - 13.2.1. Da Vinci System
 - 13.2.2. Zeus System
 - 13.2.3. Amadeus-Titan System
 - 13.2.4. Others
- 13.3. Instrumentation in Robotic Surgery
- 13.4. Docking and Setting Surgical Robots
- 13.5. Comparison between the Robotic Pathway and Other Pathways
- 13.6. Financial Factors and Robotic Efficiency
- 13.7. Complications in Robotic Surgery
- 13.8. Single-Port in Robotics
- 13.9. New Developments in Robotics

Module 14. Biological Basis of Cancer

- 14.1. Cell Growth Regulation
- 14.2. Carcinogenesis and Carcinogens
- 14.3. Genetics of Cancer
- 14.4. Mechanisms of Apoptosis and Programmed Cell Death
- 14.5. Molecular Mechanisms of Cancer Production and Metastasis
- 14.6. Origin of Genetic Alterations
- 14.7. Epigenetic Changes and Oncogenes
- 14.8. Angiogenesis

Module 15. Basis of Chemotherapy Treatment, Adverse Effects and New Therapies

- 15.1. Introduction
- 15.2. Justification for the Use of Chemotherapy
- 15.3. Development of Cancer and the Influence of Chemotherapy
 - 15.3.1. Tumor Growth
 - 15.3.2. Cellular Cycle
 - 15.3.3. Specific Drugs for each of the Cellular Phases
- 15.4. Factors that Influence Treatment
 - 15.4.1. Tumor Characteristics
 - 15.4.2. Patient Tolerance
 - 15.4.3. Treatment Objectives
 - 15.4.4. Pharmacological Factors and Administration Routes
- 15.5. Principles of Resistance to Drugs
- 15.6. Combined Therapies
- 15.7. Treatment or Dose Adjustments
- 15.8. Drug Toxicity
- 15.9. General Management of Secondary Effects and Complications of Chemotherapy
- 15.10. Antineoplastic Agents in Gynecology
 - 15.10.1. Alkylating Agents
 - 15.10.2. Antibiotics
 - 15.10.3. Antimetabolites
 - 15.10.4. Plant Alkaloids
 - 15.10.5. Topoisomerase 1 Inhibitors
 - 15.10.6. Anti-Angiogenic Drugs
 - 15.10.7. PARP Inhibitors
 - 15.10.8. Tyrosine Kinase Inhibitors
 - 15.10.9. Other Drugs
- 15.11. Future Indications

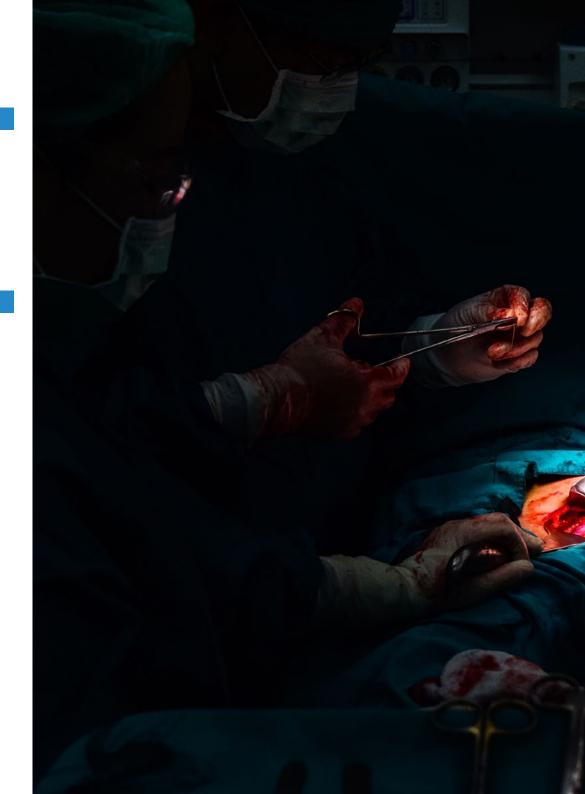
tech 50 | Structure and Content

Module 16. Endometrial Cancer I

- 16.1. Epidemiology and Etiopathogenesis
- 16.2. Precancerous Lesions.
- 16.3. Hereditary Carcinoma
- 16.4. Pathological Anatomy and Different Types of Tumors
- 16.5. Diagnostic Process
- 16.6. Imaging Tests, Tumor Markers and Possible Screening
- 16.7. Molecular Diagnostic Tests
- 16.8. FIGO Classification and Others

Module 17. Endometrial Cancer II

- 17.1. Introduction
- 17.2. General Aspects of Surgical Treatment
- 17.3. Low Risk Tumors (Stage I, Grade 1)
- 17.4. High Risk Tumors (Grade 2-3, Serous or Clear Cells)
- 17.5. Laparotomy vs. Laparoscopy
- 17.6. Introduction of Robotic Surgery
- 17.7. Surgical Technique for High-Risk Tumors
- 17.8. Adjuvant Treatment
 - 17.8.1. Observation without Additional Treatment
 - 17.8.1.1. Low Risk, Early Stage, Low Grade
 - 17.8.2. Adjuvant Radiotherapy
 - 17.8.2.1. Early Stage, Intermediate and High Risk
 - 17.8.2.2. Advanced Stages
 - 17.8.3. Adjuvant Chemotherapy
 - 17.8.4. Peculiarities of Serous Tumors and Clear Cells
- 17.9. Hormonal Treatment
- 17.10. Recurrent Endometrial Cancer
 - 17.10.1. Surgical Management
 - 17.10.2. Radiotherapy
 - 17.10.3. Chemotherapy
- 17.11. Follow-up Treatment of Endometrial Cancer
- 17.12. Prognosis





Structure and Content | 51 tech

Module 18. Cervical Cancer I

- 18.1. Epidemiology and Etiopathogenesis of the Disease
- 18.2. Precancerous Lesions and the Evolutionary Process
- 18.3. Risk Factors for Contracting the Disease
- 18.4. Notions about Cervical Pathology and HPV
- 18.5. Normal Colposcopy and Vulvoscopy
- 18.6. Abnormal Colposcopy and Vulvoscopy
- 18.7. Cervical Cancer Screening
- 18.8. Hereditary Carcinoma
- 18.9. Forms of Presentation in Anatomic Pathology
- 18.10. Diagnostic Process: Imaging Tests and Tumor Markers
- 18.11. Role of New Technologies such as PET-CT
- 18.12. FIGO and TNM Classification in Cervical Carcinoma

Module 19. Cervical Cancer II

- 19.1. Treatment of Cervical Intraepithelial Neoplasia (CIN)
 - 19.1.1. CIN Surgery
 - 19.1.2. CIN Immunotherapy
- 19.2. Invasive Treatment of Cervical Cancer
 - 19.2.1. Radical Hysterectomy with Nerve Preservation
 - 19.2.2. Less Radical Hysterectomy
 - 19.2.3. Radical Endoscopic Hysterectomy
 - 19.2.4. Selective Sentinel Node Biopsy
 - 19.2.5. Para-aortic Advanced Stage Lymphadenectomy Staging
- 19.3. Radiotherapy and Chemotherapy
 - 19.3.1. Concurrent Chemoradiotherapy
 - 19.3.2. Enhanced Radiation Therapy Treatment Modalities
 - 19.3.3. Chemotherapy Modalities in Concurrent Treatment
 - 19.3.4. Preoperative Chemoradiotherapy
 - 19.3.5. Adjuvant Therapy after a Radical Hysterectomy
 - 19.3.6. Neoadjuvant Chemotherapy
 - 19.3.7. Adjuvant Therapy after Neoadjuvant and Previous Surgery

tech 52 | Structure and Content

- 19.4. Treatment of Metastasis, Recurrent or Persistent Disease
 - 19.4.1. Surgical Management
 - 19.4.2. Chemotherapy
- 19.5. Management of Cervical Adenocarcinoma
 - 19.5.1. Adenocarcinoma in Situ (AIS)
 - 19.5.2. Comparison Between Squamous Cell Carcinomas and Adenocarcinomas
 - 19.5.3. Surgery vs. Radiotherapy in Invasive Adenocarcinoma
 - 19.5.4. Chemotherapy
- 19.6. Monitoring

Module 20. Ovarian Cancer I

- 20.1. Epidemiology of Ovarian and Fallopian Tube Cancer
- 20.2. Etiopathogenesis and tubal origin, new trends
- 20.3. Precancerous Lesions in the Fallopian Tubes
- 20.4. Ovarian Cancer Screening
- 20.5. Hereditary Carcinoma and How to Evaluate It
- 20.6. Histological Forms and Pathological Anatomy
- 20.7. Diagnostic Process
 - 20.7.1. Clinical Symptoms
 - 20.7.2. Ultrasound
 - 20.7.3. Computerized Tomography
 - 20.7.4. Magnetic Resonance
 - 20.7.5. Positron Emission Tomography
- 20.8. Serum Tumor Markers
 - 20.8.1. CA125
 - 20.8.2. HE4
 - 20.8.3. CA19.9
 - 20.8.4. CEA
 - 20.8.5. Other Markers
- 20.9. FIGO Classification of the Disease



Module 21. Ovarian Cancer II

- 21.1. General Surgical Treatment
- 21.2. Complete Cytoreduction and Primary Debulking
- 21.3. Neoadjuvant Treatment and When to Choose It
- 21.4. Interval and Second Look Treatments
- 21.5. Adjuvant Therapy: Carboplatin-Taxol and Other Options
- 21.6. Radiotherapy: What Role Does it Play?
- 21.7. Hormonal Therapy Possibilities in Ovarian Cancer
- 21.8. Prognosis and Disease-Free Interval
- 21.9. Monitoring and Treatment of Relapses
- 21.10. Controversies in the Management of Ovarian Cancer
- 21.11. Peritoneal Carcinomas Hyperthermic Therapy
- 21.12. Intraperitoneal Chemotherapy, Indications and Results

Module 22. Vulvar Cancer I

- 22.1. Epidemiology and Relationship with HPV
- 22.2. Etiopathogenesis and Precancerous Lesions
- 22.3. VIN I. II. III VAIN and Other Lesions
- 22.4. Vulvar Cancer Screening
- 22.5. Hereditary Carcinoma
- 22.6. Pathological Anatomy, Histological Types
- 22.7. Imaging Tests and Extension Study
- 22.8. Tumor Markers: SCC

Module 23. Vulvar Cancer II

- 23.1. Introduction
- 23.2. Vulvar Paget's Disease
 - 23.2.1. General Aspects
 - 23.2.2. Paget's Disease Type 1
 - 23.2.2.1. Prevalence
 - 23.2.2.2. Clinical Characteristics
 - 23.2.2.3. Diagnosis
 - 23.2.2.4. Treatment
 - 23.2.3. Paget's Disease Type 2 and 3
- 23.3. Invasive Paget's Disease
 - 23.3.1. General Aspects
 - 23.3.2. Prognosis
- 23.4. Invasive Vulva Carcinoma
 - 23.4.1. Squamous Cell Carcinoma
 - 23.4.2. Clinical Characteristics
 - 23.4.3. Diagnosis
 - 23.4.4. Dissemination Pathways
 - 23.4.5. Staging
 - 23.4.6. Treatment
 - 23.4.6.1. Primary Lesion Management
 - 23.4.6.2. Local Control after Primary Surgical Treatment
 - 23.4.6.3. Management of Ganglionic Chains
 - 23.4.6.4. Post-Operative Care
 - 23.4.6.4.1. Early postoperative complications
 - 23.4.6.4.2. Late Postoperative Complications

tech 54 | Structure and Content

23.4.6.5. Use of Sentinel Lymph Node

	23.4.6.5.1. Advanced Disease			
	23.4.6.5.2. General Aspects			
	23.4.6.5.3. Management of Ganglionic Chains 23.4.6.5.4. Management of Primary Tumor			
	23.4.6.5.4.1. Surgery			
	23.4.6.5.4.2. Radiotherapy			
	23.4.6.5.4.3. Chemotherapy			
	23.4.6.6. Role of radiotherapy in vulvar cancer.			
23.4.7.	Recurrent Vulvar Cancer			
23.4.8.	Prognosis			
	Monitoring			
Vulva M	lelanoma			
23.5.1.	Introduction			
23.5.2.	Clinical Characteristics			
23.5.3.	Pathologic Anatomy			
23.5.4.	Staging			
23.5.5.	Treatment			
	23.5.5.1. Primary Lesion Management			
	23.5.5.2. Management of Ganglionic Chains			
23.5.6.	Prognosis			
Carcino	ma of Bartholin's Gland			
23.6.1.	General Aspects			
23.6.2.	Treatment			
23.6.3.	Prognosis			
Basal Cell Carcinoma				
Verrucous Carcinoma				
Vulva Sarcoma				
23.9.1.	Introduction			
23.9.2.	Leiomyosarcoma			
23.9.3.	Epithelioid Sarcoma			
	Rhabdomyosarcoma			
23.9.5.	Merkel Cells Carcinoma			
	23.4.8. 23.4.9. Vulva M 23.5.1. 23.5.2. 23.5.3. 23.5.4. 23.5.5. 23.6.6. Carcino 23.6.1. 23.6.2. 23.6.3. Basal C Verruco Vulva S 23.9.1. 23.9.2. 23.9.3. 23.9.4.			

Module 24. Uterine Sarcoma I

- 24.1. Introduction
- 24.2. Epidemiology
 - 24.2.1. Tumors
 - 24.2.2. Age
 - 24.2.3. Histological Distribution
 - 24.2.4. Racial Distribution
- 24.3. Risk Factors
 - 24.3.1. Heritage
 - 24.3.2. Hormone Therapy
 - 24.3.3. Radiation Exposure
- 24.4. Pathologic Anatomy
 - 24.4.1. Leiomyosarcoma
 - 24.4.2. STUMP
 - 24.4.3. Benign Metastasizing Leiomyoma
 - 24.4.4. Carcinosarcoma
 - 24.4.5. Endometrial Stromal Neoplasms
 - 24.4.6. Stromal Nodule
 - 24.4.7. Endometrial Stromal Sarcoma
 - 24.4.8. Mullerian Adenosarcoma
- 24.5. Clinical Manifestations
- 24.6. Imaging Tests
 - 24.6.1. Magnetic Resonance
 - 24.6.2. Tumor Markers
- 24.7. FIGO Staging
- 24.8. Conclusions

Module 25. Uterine Sarcoma II

- 25.1. Introduction
- 25.2. Uterine Leiomyosarcoma
 - 25.2.1. Early Stages
 - 25.2.1.1. Surgery
 - 25.2.1.2. Adjuvant Radiotherapy
 - 25.2.1.3. Chemotherapy
 - 25.2.2. Recurrent or Metastatic Disease
 - 25.2.2.1. Surgery
 - 25.2.2.2. Chemotherapy
 - 25.2.2.3. Hormone Therapy
 - 25.2.3. Prognostic Factors
- 25.3. Endometrial Stromal Sarcoma
 - 25.3.1. Early Stages
 - 25.3.1.1. Surgery
 - 25.3.1.2. Pelvic Radiotherapy
 - 25.3.1.3. Hormone Therapy
 - 25.3.2. Recurrent or Metastatic Disease
 - 25.3.2.1. Surgery
 - 25.3.2.2. Chemotherapy or Radiotherapy
 - 25.3.3. Prognostic Factors
- 25.4. Undifferentiated Endometrial Sarcoma
 - 25.4.1. Early Stages
 - 25.4.1.1. Surgery
 - 25.4.1.2. Adjuvant Radiotherapy
 - 25.4.1.3. Chemotherapy
 - 25.4.2. Recurrent or Metastatic Disease
 - 25.4.2.1. Surgery
 - 25.4.2.2. Chemotherapy or Radiotherapy
 - 25.4.3. Prognostic Factors
- 25.5. Conclusions

Module 26. Rare Gynecologic Tumors

- 26.1. Vagina Cancer
 - 26.1.1. Introduction
 - 26.1.2. Clinical Manifestations
 - 26.1.3. Diagnosis
 - 26.1.4. Pathologic Anatomy
 - 26.1.4.1. Squamous Carcinoma
 - 26.1.4.2. Adenocarcinoma
 - 26.1.4.3. Sarcoma
 - 26.1.4.4. Melanoma
 - 26.1.5. Tumor Staging
 - 26.1.6. Treatment of Disease
 - 26.1.6.1. Surgery
 - 26.1.6.2. Radiotherapy
 - 26.1.6.3. Treatment Complications
 - 26.1.7. Monitoring
 - 26.1.8. Prognosis
- 26.2. Gestational Trophoblastic Disease
 - 26.2.1. Introduction and Epidemiology
 - 26.2.2. Clinical Forms
 - 26.2.2.1. Hydatidiform Mole
 - 26.2.2.1.1. Complete Hydatidiform Mole
 - 26.2.2.1.2. Partial Hydatidiform Mole
 - 26.2.2.2. Gestational Trophoblastic Neoplasm
 - 26.2.2.1. After Molar Pregnancy
 - 26.2.2.2.1.1. Persistent Gestational Trophoblastic Neoplasm
 - 26.2.2.2. After Non-Molar Pregnancy
 - 26.2.2.2.1. Choriocarcinoma
 - 26.2.2.2.2. Placental Site Trophoblastic Tumor

tech 56 | Structure and Content

26.2.3.	Diagnosis		26.2.7. Post-Treatment Monitoring
	26.2.3.1. Human Chorionic Gonadotropin		26.2.7.1. Follow-Up after Molar Evacuation
	26.2.3.2. Ultrasound Study		
	26.2.3.2.1. Complete Mole		26.2.7.2. Monitoring after Gestational Neoplasm Treatmer
	26.2.3.2.2. Partial Mole		26.2.8. Prognosis
	26.2.3.2.3. Invasive Mole	26.3.	. Metastatic Tumor in the Genital Tract
	26.2.3.2.4. Choriocarcinoma and Placental Site Tumor		26.3.1. Introduction
	26.2.3.3. Other Imaging Techniques		26.3.2. Clinical Manifestations
26.2.4.	Pathologic Anatomy		26.3.2.1. Secondary Tumors in the Uterine Body or Cervix
	26.2.4.1. Hydatidiform Mole		26.3.2.1.1. From Genital or Pelvic Organs
	26.2.4.1.1. Complete Mole		26.3.2.1.2. From Extragenital or Pelvic Organs
	26.2.4.1.2. Partial Mole		26.3.2.2. Secondary Tumors in the Vagina
	26.2.4.2. Invasive Mole		26.3.2.3. Secondary Tumors on the Vulva
	26.2.4.3. Choriocarcinoma		26.3.2.4. Secondary Tumors in the Ovaries
	26.2.4.4. Placental Site Trophoblastic Tumor		26.3.3. Diagnosis
	26.2.4.5. Epithelioid Trophoblastic Tumor		26.3.4. Pathologic Anatomy
26.2.5.	Staging		26.3.4.1. Gastrointestinal Tumors
26.2.6.	Treatment		26.3.4.1.1. Metastasis of Intestinal Cancer
	26.2.6.1. Chemotherapy		26.3.4.1.2. Krukenberg Tumor
	26.2.6.1.1. Low-Risk Disease		26.3.4.2. Ovarian Lymphona
	26.2.6.1.2. High-Risk Disease and Metastasis		26.3.5. Treatment and Prognosis
	26.2.6.1.3. Chemoresistant Disease	26.4.	. Neuroendocrine Tumors
	26.2.6.2. Surgery		26.4.1. Introduction
	26.2.6.2.1. Molar Evacuation		26.4.2. Pathologic Anatomy
	26.2.6.2.2. Hysterectomy		26.4.2.1. Well-Differentiated Tumors
	26.2.6.2.3. Myometrial Resection		26.4.2.2. Poorly Differentiated Tumors
	26.2.6.2.4. Pulmonary Resection		26.4.3. Clinical Manifestations and Diagnosis
	26.2.6.2.5. Craniotomy		26.4.3.1. Small Cell Tumor in the Vulva and Vagina
	26.2.6.2.6. Other Surgical Procedures		26.4.3.2. Small Cell Tumor in the Uterus
	26.2.6.2.7. Selective Arterial Embolization		26.4.3.3. Neuroendocrine Tumors in the Cervix
			26.4.3.3.1. Small Cell Neuroendocrine Carcinoma

26.4.3.3.2. Large Cell Neuroendocrine Carcinoma
26.4.3.4. Ovarian, Fallopian Tube and Wide Ligament Tumor
26.4.3.4.1. Ovarian Carcinoid
26.4.3.4.1.1. Insular Carcinoid

26.4.3.4.1.2. Trabecular Carcinoid 26.4.3.4.1.3. Mucinous Carcinoid 26.4.3.4.1.4. Strumal Carcinoid

26.4.3.4.2. Small Cell Lung Type

26.4.3.4.3. Undifferentiated Non-Small Cell Carcinoma

26.4.4. Treatment

26.4.5. Monitoring

26.4.6. Prognosis

26.5. Tumors of the Recto-Vaginal Septum

Module 27. Fertility Preservation in Gynecologic Oncology

- 27.1. Introduction
 - 27.1.1. Symptomology Associated with Gynecologic Tumors
- 27.2. Pain
- 27.3. Gastrointestinal Symptoms
 - 27.3.1. Diarrhea
 - 27.3.2. Constipation
 - 27.3.3. Malignant Intestinal Obstruction 27.3.3.1. Conservative Treatment 27.3.3.2. Surgical Management
- 27.4. Ascites
- 27.5. Respiratory Symptoms
 - 27.5.1. Pleural Effusion
- 27.6. Edema
- 27.7. Anorexia and Weight Loss
- 27.8. Deep Vein Thrombosis
- 27.9. Pelvic Disease Progression
 - 27.9.1. Vaginal Bleeding

27.9.2. Fistulas.

27.10. Palliative Pelvic Exenteration

27.11. Metastasis of Other Organs

27.11.1. Liver

27.11.2. Brain

27.11.3. Bone

27.11.3.1. Hypercalcemia

27.12. Anxiety and Depression

27.13. Dying Patient Care

Module 28. Endoscopic Surgery in Gynecologic Oncology

- 28.1. Oncologic Laparoscopy
 - 28.1.1. Effect of Pneumoperitoneum and Dissemination
 - 28.1.2. Port-Site Metastasis
 - 28.1.3. Uterine Manipulator and Dissemination
- 28.2. Tumor Dissemination Routes
 - 28.2.1. Peritoneal Dissemination
 - 28.2.2. Lymphatic dissemination:
 - 28.2.3. Hematogenous Dissemination
- 28.3. Nodal Selective Study
 - 28.3.1. Sentinel Lymph Node in Ovarian Cancer
 - 28.3.2. Sentinel Lymph Node in Cervical Cancer
 - 28.3.3. Sentinel Lymph Node in Endometrial Cancer
 - 28.3.4. Types of Tracers
 - 28.3.5. Sentinel Lymph Node Detection and Dissection Technique
- 28.4. Laparoscopy and Ovarian Cancer
 - 28.4.1. Exploratory Laparoscopy in Ovarian Cancer
 - 28.4.1.1. Suspicious Adnexal Masses
 - 28.4.1.2. Advanced Ovarian Cancer: Laparoscopic Scores
 - 28.4.2. Borderline Tumor Management
 - 28.4.2.1. Laparoscopic Staging

tech 58 | Structure and Content

		28.4.2.2. Surgical Re-Staging
	28.4.3.	Staging Procedures
		28.4.3.1. Abdominal Peritonectomy
		28.4.3.2. Pelvic Lymphadenectomy
		28.4.3.3. Para-Aortic Lymphadenectomy
		28.4.3.3.1. Extraperitoneal
		28.4.3.3.2. Transperitoneal
		28.4.3.4. Laparoscopic Omentectomy
		28.4.3.5. Other Procedures
	28.4.4.	Laparoscopy in Ovarian Cancer Recurrences
	28.4.5.	Laparoscopy in Interval Surgery
28.5.	Laparos	scopy in Cervical Cancer
	28.5.1.	Laparoscopy Indications
	28.5.2.	Laparoscopic Radical Hysterectomy
		28.5.2.1. Radical Hysterectomy Classification
		28.5.2.2. Nerve Preservation
		28.5.2.3. Radicality Modulation
		28.5.2.4. Detailed Surgical Technique
	28.5.3.	Special Characteristics of Radical Trachelectomy
		28.5.3.1. Indications
		28.5.3.2. Uterine Artery Preservation
		28.5.3.3. Cervical Cerclage
		28.5.3.4. Ovarian Oophoropexy
	28.5.4.	Laparoscopic Parametrectomy
		Laparoscopic Treatment of Recurrences
		28.5.5.1. Single Recurrences
		28.5.5.2. Laparoscopic Exenteration
28.6.	Laparos	scopy in Endometrial Cancer
	28.6.1.	Laparoscopy and Staging in Endometrial Cancer
	28.6.2.	Laparoscopic Lymph Nodal Debulking
		Other Particularities
28.7.	Laparos	scopic Inquinal Lymphadenectomy

Module 29. Stress and Its Impact on Fertility

- 29.1. Utility of Laparoscopy in Reproduction
- 29.2. Restoration of Fertility
 - 29.2.1. Essure Device Removal by Laparoscopy
 - 29.2.2. Tubal Recanalization
- 29.3. Adhesive Syndrome and Laparoscopy
- 29.4. Chromopertubation Use
- 29.5. Laparoscopic Surgery and Pregnancy
- 29.6. Laparoscopic Inguinal Lymphadenectomy

Module 30. Introduction Anatomy Physiology Cellular Cycle

- 30.1. Introduction to the Concepts of Assisted Reproduction Epidemiology Reproductive Problems
- 30.2. Concepts of Reproductive Medicine
- 30.3. Epidemiology
- 30.4. Female Anatomy and Physiology
- 30.5. Ovogenesis
- 30.6. Ovarian Cycle Follicular Recruitment Waves
- 30.7. Male Anatomy and Physiology
- 30.8. Spermatogenesis
- 30.9. Gametogenesis Meiotic Cycle
- 30.10. Ovogenesis Ovogenesis-Foliculogenesis Relationship
- 30.11. Oocyte Quality Markers
- 30.12. Factors Affecting Oocyte Quality
- 30.13. Spermatogenesis and Sperm Production
- 30.14. Semen Quality Markers
- 30.15. Factors which Affect Seminal Quality

Module 31. Gamete Interaction Fertilization Embryonic Development

- 31.1. Interaction of Gametes in the Female Tract
- 31.2. Acrosomal Reaction and Hyperactivation
- 31.3. Sperm-Oocyte Interaction
- 31.4. Sperm-Oocyte Fusion Oocyte Activation
- 31.5. Embryonic Development
- 31.6. Main Features in Pre-implantational Development
- 31.7. Implantation. Embryo-Endometrium Interaction
- 31.8. Pathology of Fertilization and Embryo Classification
- 31.9. Embryo Culture In Vitro Embryo Culture Systems Culture Media, Environmental Conditions and Supplements. One Step and Sequential Cultures Renewal of Culture Media and Needs of the Embryo
- 31.10. Evaluation of Embryonic Development in Vitro: Morphology and Morphokinetics Classical Embryonic Morphology *Time-Lapse* **Systems** Embryonic Morphokinetics Embryonic Classification

Module 32. Study of the Female Factor Role of Surgery in Reproduction

- 32.1. Ovary Reserve Study
- 32.2. AMH
- 32.3. RFA
- 32.4. Tubal Permeability Assessment Techniques
- 32.5. Hysterosalpingography
- 32.6. Hysterosalpingosonography
- 32.7. Endometrial Assessment
- 32.8. The Role of Hysteroscopy
- 32.9. EndometrialScratching
- 32.10. Endometrial Culture Microbiota
- 32.11. Window of Implantation Study
- 32.12. Immunological Factor Study
- 32.13. PCOS Ovary Drilling
- 32.14. Endometriosis and Adenomyosis
- 32.15. Uterine Myomas and Fertility

- 32.16. Hydrosalpinx Tubal Surgery in Tubal Reconstruction Techniques and Fertility Restoration
- 32.17. Uterine Alterations Metroplasties Septoplasties
- 32.18. Uterine Transplant
- 32.19. Repeated Miscarriages Implantation Failure

Module 33. Andrology Laboratory

- 33.1. Basic Analysis of Semen WHO 2010 Criteria
- 33.2. Sperm Mobility and Morphometry Analysis Using Automated Systems (CASA/CASMA)
- 33.3. Analysis of Sperm DNA: TUNEL, SCD, COMET, SCSA Relationship with Fertility
- 33.4. Oxidative Damage Assessment Determination of Antioxidants, Free Radicals and Evaluation of Lipid Peroxidation
- 33.5. Sperm Function by Molecular Markers: Apoptosis (AnnexinV, Caspases, Mb Permeability), Ubiquitination, Protein Phosphorylation
- 33.6. Epigenetic Alterations in Spermatozoa
- 33.7. Selection and Control of Semen Donors
- 33.8. Managing a Sperm Bank
- 33.9. Cleaning the Semen in Patients with HIV or Hepatitis
- 33.10. Semen Preparation for Artificial Insemination

Module 34. Reproductive Treatments Medication. Stimulation Protocols

- 34.1. Evolution of Reproductive Treatments Throughout History
- 34.2. Drugs Involved in Ovarian Stimulation Ovulation Induction
- 34.3. Artificial Insemination Techniques Results
- 34.4. Fertilization In Vitro Ovarian Stimulation Protocols in High, Normal and Low Responders Luteal Phase Stimulation
- 34.5. Adjuvant Treatments Used in Low Ovarian Reserve
- 34.6. Fertilization In Vitro Cycle Tracking Ovarian Puncture Embryo Transfer
- 34.7. Embryo Cryotransfer Endometrial Preparation in Substituted Cycles
- 34.8. Egg Donation Embryoreception Surrogacy
- 34.9. Complications in Assisted Reproduction Treatments
- 34.10. Multiple Pregnancy Reduction Policy

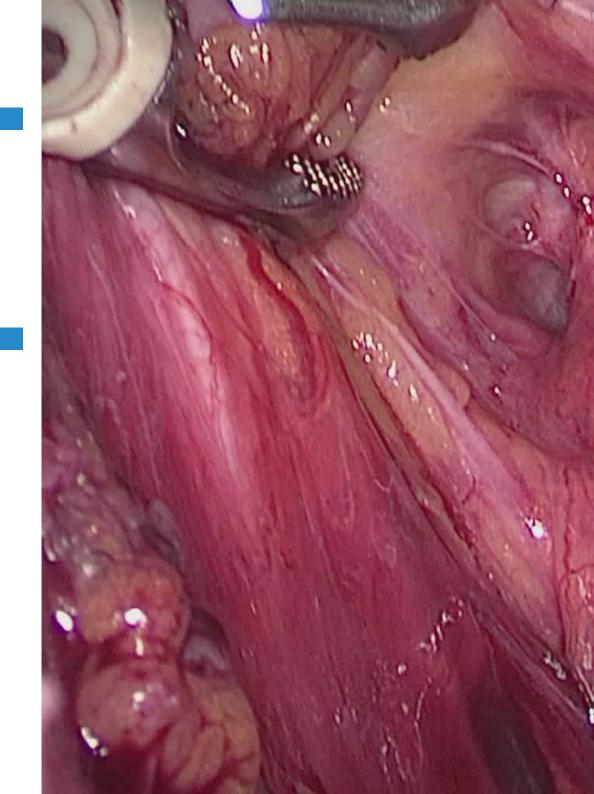
tech 60 | Structure and Content

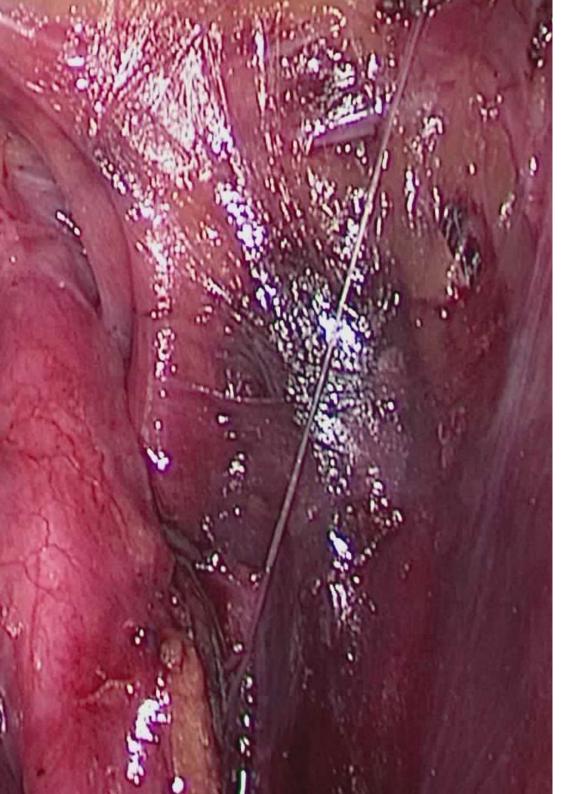
Module 35. Micromanipulation Techniques

- 35.1. IVF-ICSI
- 35.2. Use of Polarized Light Microscopy in Oocytes
- 35.3. Embryo Biopsy Types of Biopsy Corpuscule, Blastomere, Trophoectoderm
- 35.4. Collapse, Hatching,, Aspiration of Fragments
- 35.5. Improve the Embryo Quality Transfer of Nucleus and Cytoplasm
- 35.6. Cloning in Mammals Background Basic Principles of Cloning Applications in Medicine
- 35.7. Problems with Cloning Epigenesis Reprogramming
- 35.8. Genetic Modification CRISPR
- 35.9. Improve the Cytoplasmic Quality of the Oocyte
- 35.10. In Vitro Gamete Production

Module 36. Gamete and Embryo Cryopreservation

- 36.1. Cryobiology Cryobiological Principles and Cryoprotective Agents Cryopreservation Systems Factors Affecting the Freezing Process Additives Application of Cryobiology
- 36.2. The Sperm Cell Structure and Functionality Physicochemical Processes that Induce Freezing in the Spermatozoon Factors Determining Sperm Fertilization and Viability after Thawing
- 36.3. Cryopreservation of Semen Features. Regulations
- 36.4. The Oocyte Characteristics and Conditioning Factors in Cryopreservation Importance and Method of Selection Ethical and Legal Aspects
- 36.5. Cryopreservation in Human Embryos Importance and Method of Selection Ethical and Legal Aspects
- 36.6. Cryopreservation of Ovarian Tissue Laboratory Technique
- 36.7. Factors Affecting Performance in a Cryopreservation Program
- 36.8. How to Manage and Organize a Biobank and its Safety





Structure and Content | 61 tech

Module 37. Fertility Preservation

- 37.1. Fertility Preservation Cancer Epidemiology Age and Reproduction
- 37.2. Fertility Preservation for Non-Medical Reasons
- 37.3. Fertility Preservation for Oncologic Reasons
- 37.4. Fertility Preservation for Non-Oncologic Medical Reasons
- 37.5. Oocyte Vitrification Technique and Results
- 37.6. Ovarian Cortex Cryopreservation
- 37.7. Cryopreservation of Semen
- 37.8. Vitro Maturation of Oocytes
- 37.9. Other Methods of Fertility Preservation: Conservation Surgery in Gynecologic Cancer Ovarian Transposition
- 37.10. Treatment with GnRH Analogues Prior to Gonadotoxic Treatments

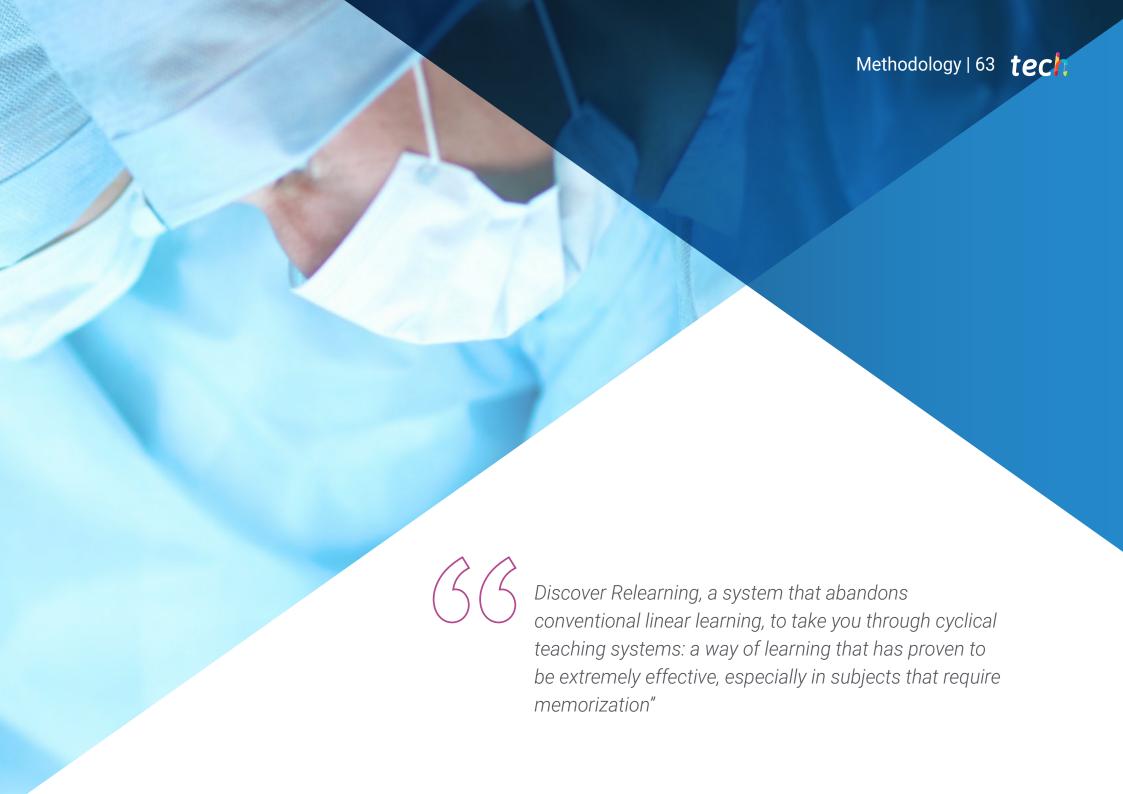
Module 38. Genetics in Reproduction

- 38.1. Important Concepts in the Genetics of Reproduction
- 38.2. Epigenetics. Influence on Reproduction
- 38.3. Genetic Diagnostic Techniques
- 38.4. Genetic Anomalies Related to Male and Female Sterility
- 38.5. Indications for Genetic Studies in Assisted Reproduction
- 38.6. Screening for Recessive Diseases Genetic Matching
- 38.7. Pre-implantational Genetic Diagnosis in Monogenic Diseases
- 38.8. Pre-implantational Genetic Screening in Assisted Reproduction Techniques
- 38.9. Mosaicisms
- 38.10. Genetic Counseling and Advice

Module 39. Legislation. Quality Research and Future Techniques

- 39.1. Ethical and Legal Aspects of Assisted Reproduction Treatments Law 14/2006
- 39.2. Treatment Legislation for Gametes from Donors Assisted Human Reproduction Information System (SIRHA) Platform
- 39.3. Quality Indicators in the Reproduction Laboratory Quality Control
- 39.4. Importance of Traceability in the Laboratory Electronic Traceability Systems
- 39.5. Research in Assisted Reproduction
- 39.6. Future of Reproduction Automation
- 39.7. Non-Invasive Preimplantational Genetic Diagnosis
- 39.8. Artificial Intelligence
- 39.9. Ovarian Rejuvenation





tech 64 | 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 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.



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 assess 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.



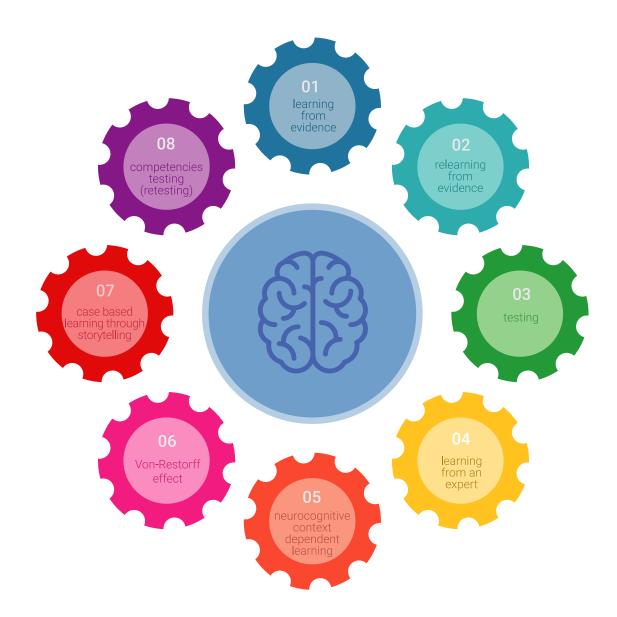


Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-theart software to facilitate immersive learning.



Methodology | 67 tech

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 prepared with unprecedented success in all clinical specialties regardless of surgical load. Our educational 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.

tech 68 | 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 adapted in 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

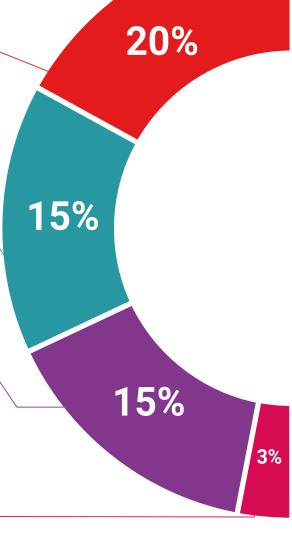
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many 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 assess and re-assess 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.

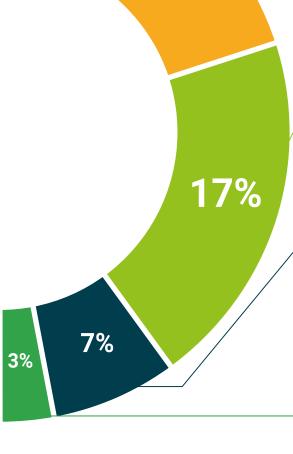
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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.









tech 72 | Certificate

This Advanced Master's Degree in Gynecologic Pathology and Assisted Reproduction 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 Advanced Master's Degree diploma issued by TECH Technological University via tracked delivery.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Advanced Master's Degree, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Advanced Master's Degree in Gynecologic Pathology and Assisted Reproduction Official N° of Hours: 3,000 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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Advanced Master's Degree Gynecologic Pathology and

Assisted Reproduction

- » Modality: online
- » Duration: 2 years
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

