

# Postgraduate Diploma

Pharmacology and the Legal and Psychological Aspects in Nursing in the Assisted Reproduction Service





## Postgraduate Diploma Pharmacology and the Legal and Psychological Aspects in Nursing in the Assisted Reproduction Service

Course Modality: **Online**

Duration: **6 months**

Certificate: **TECH Technological University**

Official N° of Hours: **425 h.**

Website: [www.techtute.com/nursing/postgraduate-diploma/postgraduate-diploma-pharmacology-legal-psychological-aspects-nursing-assisted-reproduction-service](http://www.techtute.com/nursing/postgraduate-diploma/postgraduate-diploma-pharmacology-legal-psychological-aspects-nursing-assisted-reproduction-service)

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# 01

# Introduction

In the Assisted Reproduction Clinic, advances and novelties in all areas are produced at a rapid pace. Pharmacology used in the different areas of intervention is one of the areas in which this occurs with the greatest effects. However, in order to be able to perform a total quality praxis, the nursing staff needs to be at the forefront in terms of in-depth knowledge of the pharmaceutical products used and also in terms of the psychological impact that Assisted Reproduction intervention has on the patient.

During this program in Pharmacology and Legal and Psychological Aspects in Assisted Reproduction, TECH Nursing offers a multidisciplinary approach based on the experience of different areas of work in assisted reproduction that will allow you to grow in your profession in the most effective way in the teaching market.





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*A Postgraduate Diploma created to offer you the most up-to-date information on Pharmacology and Legal and Psychological Aspects in Assisted Reproduction Services for Nurses”*

The main objective of this Postgraduate Diploma is to familiarize the nursing staff of Assisted Reproduction Units with the different pharmacological treatments involved in the different treatments. The different types of drugs currently on the market and the various hormone treatments will be presented.

Secondly, this program will allow you to learn about the psychosocial, behavioral, cognitive and emotional aspects that patients with fertility problems may present. It will also provide the student with specific communication skills so that they are able to identify any psychological and/or emotional needs of patients who come to the reproduction unit, and can implement interventions to provide holistic and comprehensive care.

The final part of the Postgraduate Diploma will qualify students in the important legal field of assisted reproduction, which will provide students with the ability to resolve multiple legal issues, both in matters related to the legality, uses and limits of assisted reproduction techniques, as well as any doubts about the use and approach of informed consents.



*With this Postgraduate Diploma you will be able to combine high intensity learning with your professional and personal life, achieving your goals in a simple and real way"*

This **Postgraduate Diploma in Pharmacology and the Legal and Psychological Aspects in Nursing in the Assisted Reproduction Service** offers the characteristics of a high level scientific, teaching and technological course. These are some of its most notable features:

- ♦ The latest technology in online teaching software
- ♦ A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- ♦ Practical cases presented by practising experts
- ♦ State-of-the-art interactive video systems
- ♦ Teaching supported by telepractice
- ♦ Continuous updating and recycling systems
- ♦ Autonomous learning: full compatibility with other occupations
- ♦ Practical exercises for self-evaluation and learning verification
- ♦ Support groups and educational synergies: questions to the expert, debate and knowledge forums
- ♦ Communication with the teacher and individual reflection work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection
- ♦ Supplementary documentation databases are permanently available, even after the course

“ *Acquire the specific competencies of nursing in the field of Assisted Reproduction consultation and perform with the solvency of a high-level professional*”

Our teaching staff is made up of professionals from different fields related to this specialty. In this way, TECH makes sure to offer the training update objective it intends. A multidisciplinary team of professionals trained and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but above all, they will bring their practical knowledge from their own experience to the program: one of the differential qualities of this training.

This mastery of the subject matter is complemented by the effectiveness of the methodological design of this Postgraduate Diploma in Pharmacology and the Legal and Psychological Aspects in Nursing in the Assisted Reproduction Service. Developed by a multidisciplinary team of Postgraduate Diploma, it integrates the latest advances in educational technology. In this way, the student will be able to study with a range of comfortable and versatile multimedia tools that will give him the operability he needs in his training.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, TECH will use telepractice: with the help of an innovative interactive video system and *Learning from an Expert*, the student will be able to acquire the knowledge as if they were facing the scenario they are learning at that moment. A concept that allows students to integrate and memorize what they have learnt in a more realistic and permanent way.

*A training created and directed by professional experts in Assisted Reproduction that turn this Postgraduate Diploma into a unique opportunity for professional growth.*

*The learning of this Postgraduate Diploma is supported by the best didactic means and the best online resources to guarantee that your efforts will have the best possible results.*



# 02 Objectives

The objective of this training is to provide nursing professionals with the necessary knowledge and skills to perform their activity in the area of Assisted Reproduction. Through a work approach that is totally adaptable to the student, this Postgraduate Diploma will progressively lead him or her to acquire the skills that will propel him or her to a much higher professional level.







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*Become one of the most sought-after professionals of the moment, with this Postgraduate Diploma in Pharmacology and the Legal and Psychological Aspects in Nursing in the Assisted Reproduction Service"*



## General Objectives

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- ♦ Broaden specific knowledge of each of the areas of work in assisted reproduction
- ♦ Enable students to be interdependent and problem solvers
- ♦ Facilitate good performance of nursing professionals in order to provide the best care throughout the process



*A boost to your CV that will give you the competitiveness of the best prepared professionals in the labor market"*



## Specific Objectives

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### Module 1

- ♦ Develop which are the main folliculogenesis inducers, what are the advantages and disadvantages of each of them and which are the most widely used at present
- ♦ Acquire knowledge about the types of gonadotropins that exist and how treatment results
- ♦ Develop knowledge on the management of ovulation inducers.
- ♦ Acquire a broad knowledge of the hormonal treatments that exist, which are the most commonly used and which are the most effective
- ♦ Conduct good health education to teach self-administration of drugs at home
- ♦ Know and develop the consequences of ovarian stimulation, and explain what ovarian hyperstimulation syndrome is
- ♦ Study the handling and routes of administration of drugs used in Assisted Reproduction
- ♦ Promote the participation of nursing personnel during Assisted Reproduction treatments
- ♦ Explain what clomiphene citrate is, in what situations it is used and how it is administered
- ♦ Develop what is an aromatase inhibitor and discern its advantages and disadvantages
- ♦ Study when gonadotropin analogues are used and in which cases they are used
- ♦ Pain management and control after puncture

**Module 2**

- ♦ Understand the psychological, social, cognitive and behavioral aspects of infertility
- ♦ Detect psychological or emotional alterations derived from infertility diagnoses and/or derived from reproduction treatment
- ♦ Provide emotional support to the patient throughout the process of Assisted Reproduction
- ♦ Develop communication skills to enable a comprehensive approach to infertility counseling and treatment
- ♦ Take into consideration special health situations of the beneficiaries of reproductive treatments, which entails the acquisition of different knowledge and therapeutic skills by nursing professionals
- ♦ Bereavement Management and Support
- ♦ Nutritional advice and follow-up in Assisted Reproduction consultation

**Module 3**

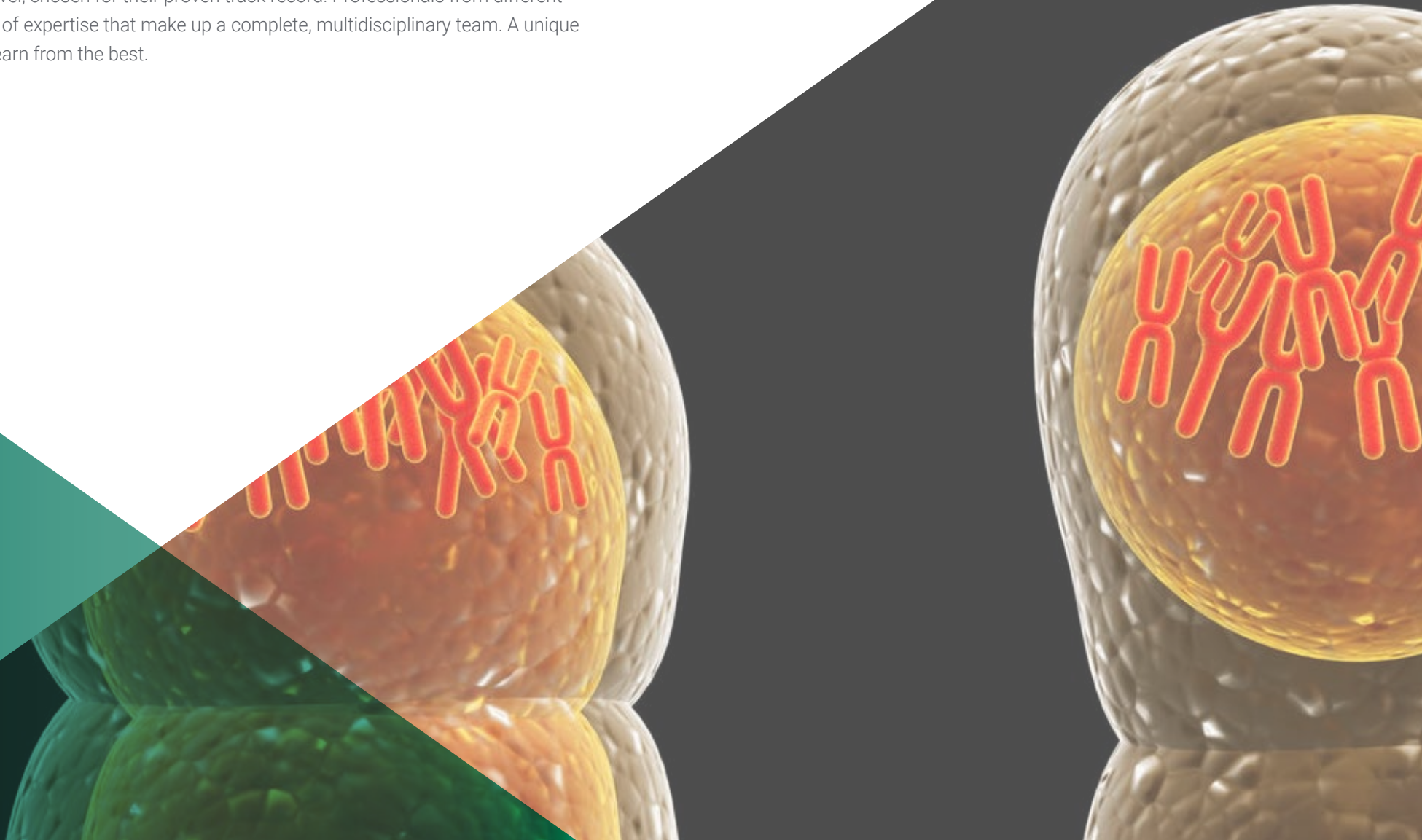
- ♦ Know the current legislation on Assisted Reproduction in Spain, being our main objective to know how to transfer all this knowledge to practice and be able to solve legal issues in clinical practice
- ♦ Detail in the portfolio of common services provided by the national health system on Assisted Reproduction issues
- ♦ Know how to interpret and use correctly each of the consents used in Assisted Reproduction: Who will deliver them? How should they be explained? What should they contain? Using many practical examples to do so

- ♦ Explain the rights of users undergoing Assisted Reproduction techniques, including gamete donors
- ♦ Study the ethical principles in order to apply them later to multiple situations that may arise in the field of Assisted Reproduction
- ♦ Address and discuss from an ethical and scientific point of view current issues such as surrogacy, post-mortem maternity, advanced maternal age and the influence that religious or cultural beliefs may have on users of Assisted Reproduction techniques
- ♦ Generate a debate on access to Assisted Reproduction treatments in private centers: Commercialization of a right?

03

# Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.



The background of the slide features a diagonal split. The top-left and bottom-right sections are dark teal. The bottom-left and top-right sections are white. On the left side, there are several 3D-rendered cells. One cell in the foreground shows a nucleus with red, X-shaped chromosomes. Other cells in the background are shown in various stages of division or with different internal structures, including yellow and orange cytoplasm and green outer membranes.

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*An impressive teaching staff, made up of active professionals, will be in charge of accompanying you throughout the program: a unique occasion not to be missed"*

## Management



### Ms. Agra Bao, Vanesa

- Operating room supervisor at EVA FERTILITY-DORSIA
- Degree in Nursing University of La Coruña
- Postgraduate Diploma in Legal Nursing. UNED.
- Official Master's Degree in Occupational Risk Prevention. USP-CEU
- Master's Degree in Physical Activity and Health. Miguel de Cervantes University
- Instructor of Basic Life Support and DESA. SEMICYUC
- Postgraduate Diploma in Surgical Anesthesiology for Nursing. CEU Cardenal Herrera University
- Biosafety and Occupational Risk Prevention in Microbiology Laboratories. SEM
- The male in Assisted Reproduction EVA FERTILITY CLINICS
- Biosafety Laboratories and Research Animal Facilities with Biocontainment Level 3. SEGLA
- Nursing action in traumatic emergencies, poisoning and other urgent situations. DAE



### Ms. Boyano Rodríguez, Beatriz

- Embryologist at Clínicas EVA, Madrid
- Postgraduate Diploma in Clinical Genetics, Universidad de Alcalá de Henares, Madrid.
- Master's Degree in Assisted Human Reproduction Biotechnology, IVI and University of Valencia
- Postgraduate in Medical Genetics, University of Valencia, Spain
- Degree in Biology, Universidad de Salamanca
- Member of the Association for the Study of Reproductive Biology
- Member of the Spanish Association of Human Genetics.



## Professors

### Ms. Fernández Rubio, Marta

- ◆ Diploma in Nursing. San Pablo CEU University
- ◆ Professional Master's Degree in Emergency and Intrahospital Critical Care. San Pablo CEU University
- ◆ More than 30 FUNDEN Postgraduate Certificate courses in nursing care
- ◆ Postgraduate Certificate in chronic wounds. Madrid Hospital
- ◆ Postgraduate Certificate in Umbilical Cord Stem Cells and Regenerative Medicine. Madrid Hospital

### Ms. Fernández, Sara

- ◆ ICU, Hospitalization and Dialysis Ward. General surgery, specialties, internal medicine, oncology and Medical Surgical Day Hospital. HM Norte Sanchinarro
- ◆ Degree in Nursing. San Pablo CEU University
- ◆ Expert in the care of adult patients in life-threatening situations. CODEM
- ◆ Postgraduate Certificate in chronic wounds. Madrid Hospital
- ◆ Nursing guidance for emergency use of intravenous pharmaceutical products. LOGGOS
- ◆ More than twenty FUNDEN Postgraduate Certificate courses in nursing care

### Ms. Serrano, Erika

- ◆ Outpatient nurse, gynecology, dermatology, neurology, rheumatology, endocrinology. José Marvá Specialty Center
- ◆ Diploma in Nursing. Alcalá de Henares University
- ◆ University Specialist in Outpatient Emergency Nursing. Juan Carlos University. Madrid
- ◆ Complementary Therapies in Health Sciences. UAH. Faculty of Medicine
- ◆ Update on Intravenous Therapy IDER TRAINING

04

# Structure and Content

The contents of this Postgraduate Diploma have been developed by the different experts involved in the program, with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field.

A complete and well-structured program will take you to the highest standards of quality and success.







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*A comprehensive teaching program, structured in well-developed teaching units, oriented towards learning that is compatible with your personal and professional life"*

## Module 1. Pharmacology

- 1.1. Folliculogenesis Inducer: Clomiphene Citrate
  - 1.1.1. Introduction
  - 1.1.2. Definition
  - 1.1.3. Mechanism of Action
  - 1.1.4. Administration and Use
  - 1.1.5. Side effects:
  - 1.1.6. Advantages and Disadvantages
  - 1.1.7. Results
- 1.2. Induction of Folliculogenesis with Gonadotropins
  - 1.2.1. Introduction and Indications
  - 1.2.2. Types
    - 1.2.2.1. Follicle Stimulants
    - 1.2.2.2. Corpus Luteum Stimulants
  - 1.2.3. Stimulation with Increasing or Decreasing Doses
  - 1.2.4. Treatment Results
  - 1.2.5. Complications
  - 1.2.6. Instruction in Self-Administration
- 1.3. Ovulation Inducers
  - 1.3.1. Human Chorionic Gonadotropin (hCG) and Recombinant Chorionic Gonadotropin
  - 1.3.2. Human Menopausal Gonadotropin (hMG)
  - 1.3.3. Recombinant Follicle Stimulating Hormone (FSH)
  - 1.3.4. Recombinant Luteinizing Hormone (LH)
  - 1.3.5. GnRH Agonists
- 1.4. Other Hormonal Treatments
  - 1.4.1. Hypothalamic Gonadotropin-Releasing Hormone (GnRH)
    - 1.4.1.1. Introduction
    - 1.4.1.2. Mechanism of Action
    - 1.4.1.3. Administration GuidelinePauta de administración
    - 1.4.1.4. Complications
  - 1.4.2. Aromatase Inhibitors
    - 1.4.2.1. Definition and What It Is Used For
    - 1.4.2.2. Mechanism of Action and Mode of Use
    - 1.4.2.3. Administration GuidelinePauta de administración
    - 1.4.2.4. Types
    - 1.4.2.5. Advantages and Disadvantages.
- 1.5. Use of Gonadotropin Analogues in Assisted Reproduction
  - 1.5.1. Agonists
    - 1.5.1.1. Introduction and Main Agonists
    - 1.5.1.2. Origin, Chemical Structure and Pharmacodynamic Properties
    - 1.5.1.3. Pharmacokinetics and Method of Administration
    - 1.5.1.4. Effectiveness
  - 1.5.2. Antagonists
    - 1.5.2.1. Types and Mechanism of Action
    - 1.5.2.2. Form of Administration
    - 1.5.2.3. Pharmacokinetics and Pharmacodynamics
- 1.6. Other Coadjuvant Pharmaceutical Products Used in Assisted Reproduction
  - 1.6.1. Insulin-Sensitizing Drugs: Metformin
  - 1.6.2. Corticoids
  - 1.6.3. Folic Acid
  - 1.6.4. Estrogens and Progesterone
  - 1.6.5. Oral Contraceptives
- 1.7. Pharmacological Support of the Luteal Phase in In Vitro Fertilization
  - 1.7.1. Introduction
  - 1.7.2. Ways to Treat Luteal Phase Deficit
    - 1.7.2.1. Luteal Support with hCG
    - 1.7.2.2. Luteal Phase Supplementation with Progesterone
    - 1.7.2.3. Luteal Phase Supplementation with Estrogens
    - 1.7.2.4. Luteal Phase Maintenance with GnRH Agonists

- 1.7.3. Controversies
- 1.7.4. Conclusions
- 1.8. Complications of Ovarian Stimulation: Ovarian Hyperstimulation Syndrome (OHSS).
  - 1.8.1. Introduction
  - 1.8.2. Pathophysiology.
  - 1.8.3. Symptomatology and Classification
  - 1.8.4. Prevention
  - 1.8.5. Treatment
- 1.9. Commercial Presentations in Fertility Treatments
  - 1.9.1. Ovitrelle®, Elenva®, Ovaleap®, Porgoveris®, Bemfola®, Monopur®, Gonal®, Puregon®, Fostipur®, HMG-Lepori®, Decapeptyl®, Cetrecide®, Orgaluntan®
- 1.10. Anesthetic Management in Assisted Reproduction
  - 1.10.1. Introduction
  - 1.10.2. Local Anesthesia
  - 1.10.3. Opioids
  - 1.10.4. Benzodiazepines
  - 1.10.5. Inhalation and Intravenous General Anesthesia: Nitrous Oxide, Halogenated and Propofol
  - 1.10.6. Regional Anesthesia
  - 1.10.7. Conclusions

## Module 2. Psychological Support and Special Situations in Assisted Reproduction

- 2.1. Psychology of Human Reproduction
  - 2.1.1. Reproductive Physiology
  - 2.1.2. Human Sexuality: Functional and Dysfunctional
  - 2.1.3. Definition of Sterility/Infertility
  - 2.1.4. Infertile Couple Support
  - 2.1.5. Annex ISES (Scale)
- 2.2. Assisted Human Reproduction Psychology
  - 2.2.1. Beliefs about Assisted Reproduction
  - 2.2.2. Psychological, Emotional, Behavioral, Cognitive and Emotional Aspects of Assisted Reproduction

- 2.2.3. Psychological Aspects of Genetic Studies
- 2.2.4. Psychological and Emotional Repercussions of Reproductive Treatments
- 2.2.5. Awaiting Results
- 2.2.6. Families Resulting from Assisted Reproduction
  - 2.2.6.1. Family Types and Emotional Nursing Support
- 2.3. Recurrent Gestational Loss
  - 2.3.1. Causes
    - 2.3.1.1. Stress.
  - 2.3.2. Social, Cultural and Religious Beliefs
  - 2.3.3. Possible Reactions to Repeat Abortion
  - 2.3.4. Psychological, Cognitive-Behavioral Repercussions of Abortion
  - 2.3.5. Psychosomatic Repeat Miscarriage
  - 2.3.6. Intervention in Repeat Abortions
  - 2.3.7. Indication for Psychotherapy: Nursing Support in Psychotherapy
- 2.4. Psychosocial Approach in Gamete Donation
  - 2.4.1. Interviewing Gamete Donor Candidates
    - 2.4.1.1. Qualitative Assessment
    - 2.4.1.2. Quantitative Valuation
    - 2.4.1.3. Behavioral Assessment
    - 2.4.1.4. Psycho-Technical Evaluation
  - 2.4.2. Gamete Donation Candidate Evaluation Report
    - 2.4.2.1. Re-evaluation
  - 2.4.3. Gamete Recipient Families
    - 2.4.3.1. Myths and Beliefs about Gamete Donation
    - 2.4.3.2. Frequently Asked Questions
    - 2.4.3.3. Disclosure of Origins According to Family Models
- 2.5. Assisted Reproduction Nursing Consultation: Psychosocial Approach
  - 2.5.1. Holistic Counseling and Treatment in Assisted Reproduction Nursing
  - 2.5.2. Primary Health Care Role of the Infertile Couple
    - 2.5.2.1. Target Population Recruitment
    - 2.5.2.2. Initial Interview: Reception, Information, Orientation, Referral to Other Professionals.
  - 2.5.3. Management of Communication with Assisted Reproductive Technologies Patients.

- 2.5.3.1. Communicative Skills.
- 2.5.3.2. Nurse-Patient Interpersonal Relationship
- 2.5.3.3. Emotional Patient Care in Assisted Reproduction
  - 2.5.3.3.1. Detection of Emotional Problems in the Interview with the Patient
  - 2.5.3.3.2. Intervention and Prevention Strategies
  - 2.5.3.3.3. Support Groups
- 2.5.4. Principal Nursing Diagnoses (NANDA), Interventions (NIC) and Outcomes (NOC) in the Emotional Process of Assisted Reproduction.
- 2.6. Special Situations
  - 2.6.1. Reproductive Approach in the Oncology Patient
    - 2.6.1.1. How Does Cancer Treatment Affect Fertility?
    - 2.6.1.2. When is it Necessary to Preserve Fertility?
    - 2.6.1.3. Limits Fertility Preservation
  - 2.6.2. Fertility Preservation in Oncology Patients
    - 2.6.2.1. Ovarian Stimulation for Fertility Preservation in Oncology Patient
    - 2.6.2.2. Preservation Methods:
      - 2.6.2.2.1. Cryopreservation: Oocytes, Embryos and Ovarian Tissue
      - 2.6.2.2.2. Hormone Therapy
      - 2.6.2.2.3. Ovarian Transposition
  - 2.6.3. Fertility Preservation in Oncology Patients
    - 2.6.3.1. Preservation Methods:
      - 2.6.3.1.1. Cryopreservation of Semen
      - 2.6.3.1.2. Cryopreservation of Testicular Tissue
      - 2.6.3.1.3. Hormone Therapy
  - 2.6.4. Reproductive Approach and Preservation in Patients with Sex Change.
- 2.7. Nutritional Advice in Assisted Reproduction
  - 2.7.1. Nutrition and Infertility. Lifestyle
    - 2.7.1.1. Obesity
    - 2.7.1.2. Hormonal Problems
      - 2.7.1.2.1. Hypothyroidism/Hyperthyroidism
      - 2.7.1.2.2. Diabetes Mellitus





- 2.7.1.2.3. SOP
      - 2.7.1.2.4. Endometriosis
    - 2.7.2. Foods Recommended/disadvised Before and During Assisted Reproduction Treatment
      - 2.7.2.1. Role of Vitamins
      - 2.7.2.2. Role of Minerals
    - 2.7.3. Myths and Truths About Feeding in Assisted Reproduction
    - 2.7.4. Examples of Diet
  - 2.8. Grief in Assisted Reproduction
    - 2.8.1. Concept of Grief
    - 2.8.2. Types of Grief in Assisted Reproduction:
      - 2.8.2.1. Infertility Bereavement
      - 2.8.2.2. Mourning the Loss of the Invisible
      - 2.8.2.3. Gestational Bereavement
      - 2.8.2.4. Duel for Unsuccessful Implementations
      - 2.8.2.5. Perinatal Bereavement
    - 2.8.3. Therapeutic Advice for Overcoming Grief
    - 2.8.4. Care Plan in the Bereavement Process
  - 2.9. Assisted Reproduction Failure: New Alternatives
    - 2.9.1. Adoptions
    - 2.9.2. Childless Family.

### Module 3: Legal and Ethical Aspects in Assisted Reproduction

- 3.1. Assisted Reproduction Before the Law
  - 3.1.1. Introduction and Key Concepts to be Defined
  - 3.1.2. Law 14/2006 on Assisted Human Reproduction Techniques in Spain: Key Points to Highlight.
  - 3.1.3. Rights and Duties of Users Undergoing Assisted Reproductive Technology
    - 3.1.3.1. Women's Rights
    - 3.1.3.2. Right of the Partner or Husband
    - 3.1.3.3. Donor Rights and Obligations
    - 3.1.3.4. Female Couple
    - 3.1.3.5. Filiation of Children Born Through Assisted Reproductive Techniques
    - 3.1.3.6. Transsexuality and Fertility Preservation
- 3.2. Informed Consents, Law 41/2002 Respect for Patient Autonomy
  - 3.2.1. What Should a Consent Form Look Like, When and Who Should Give It, What Are Its Limits, and How Long Should We Keep It?
  - 3.2.2. Examples of Consents Used in Assisted Reproduction
  - 3.2.3. Presentation of Case Studies on the Utility and Use of Informed Consents
- 3.3. Portfolio of Services Offered by Our National Social Security System in Assisted Reproduction
  - 3.3.1. Types of Treatments Offered
  - 3.3.2. General Access Criteria and Exclusion Criteria
  - 3.3.3. Specific Access Criteria for Each of the Offered Techniques
- 3.4. Ethical and Legal Approach to Surrogacy
  - 3.4.1. Definition and Current situation in Spain
  - 3.4.2. Ethical Debate For or Against. Breakdown of Points
- 3.5. Ethical Issues and Approaches
  - 3.5.1. What are the Ethical Aspects to be Taken into Account in the Daily Practice of Infertility Treatments?





- 3.5.2. Ethical Limits to Treatment
- 3.5.3. Advanced Maternal Age Under Debate
- 3.5.4. Religious and Cultural Tendencies of Users as Influencing Factors in Undergoing Assisted Reproductive Techniques
- 3.5.5. Embryo Donation and Destruction: Ethical and Legal Issues
- 3.5.6. Growth of Assisted Reproduction as a Private Business - Access for All?
- 3.6. Assisted Reproduction Research
  - 3.6.1. Biomedical Research Law 14/2007, Application and General Principles.
  - 3.6.2. Donation and Use of Human Gametes and Preembryos
    - 3.6.2.1. Procurement of Cells of Embryonic Origin
    - 3.6.2.2. Donation of Human Embryos and Fetuses
    - 3.6.2.3. Donation Requirements
  - 3.6.3. Genetic Analysis and Biological Samples
  - 3.6.4. Biobanks
- 3.7. Legislation on Assisted Reproduction in Other Countries of the European Union. Why Do So Many Foreigners Come to Our Country?
- 3.8. Mandatory European Guidelines



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

05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.







“

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

## At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the real conditions in professional nursing 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. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



*The nurse will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*

At the forefront of world teaching, the 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 we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is really specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All 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 them as many times as you want.



### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





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

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.  
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



# 06 Certificate

The Postgraduate Diploma in Pharmacology and the Legal and Psychological Aspects in Nursing in the Assisted Reproduction Service guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Diploma issued by TECH Technological University.







“

*Successfully complete this training program and receive your university certificate without travel or laborious paperwork”*

This **Postgraduate Diploma in Pharmacology and the Legal and Psychological Aspects in Nursing in the Assisted Reproduction Service** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional from career evaluation committees.

Title: **Postgraduate Diploma in Pharmacology and the Legal and Psychological Aspects in Nursing in the Assisted Reproduction Service**

Official N° of Hours: **425 h.**



\*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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development languages  
virtual classroom



## Postgraduate Diploma

Pharmacology and the  
Legal and Psychological  
Aspects in Nursing in the  
Assisted Reproduction  
Service

Course Modality: **Online**

Duration: **6 months**

Certificate: **TECH Technological University**

Official N° of Hours: **425 h.**

# Postgraduate Diploma

Pharmacology and the Legal and Psychological Aspects in Nursing in the Assisted Reproduction Service.