

Program

Advanced online course in Assisted Reproduction

MODULE 1. ENDOCRINE AND PHYSIOLOGICAL REPRODUCTIVE BASES

- 1.1 Anatomy of the female reproductive organs.
- 1.2 Folliculogenesis, ovulation and function of the corpus luteum.
- 1.3 Endocrinology of the testicle.
- 1.4 Prognostic factors: life habits.
- 1.5 Effect of age on the reproductive system of women and men.

MODULE 2. FEMALE STERILITY

- 2.1 Epidemiology of infertility
- 2.2 Study of the sterile woman
- 2.3 Ultrasound in reproductive medicine
- 2.4 Polycystic ovary syndrome
- 2.5 Endometriosis
- 2.6 Uterine fibroids
- 2.7 Müllerian malformations
- 2.8 Hydrosalpinx
- 2.9 Poor response

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MODULE 3. MALE STERILITY

- 4.1 The testis and spermatogenesis
- 4.2 Valuation of semen
- 4.3 Andrological assessment
- 4.4 Varicocele
- 4.5 Infection of the seminal tract
- 4.6 Sperm freezing

MODULE 4. ASSISTED REPRODUCTION TECHNIQUES

- 4.1 Scheduled intercourse
- 4.2 Artificial insemination
- 4.3 In vitro fertilization (IVF) and ICSI
- 4.4 Oocytes donation
- 4.5 Preimplantation Genetic Testing
- 4.6 Oocyte and embryo vitrification
- 4.7 Ovarian stimulation drugs
- 4.8 Complications related to ARTs: ectopic pregnancy, torsion, infection and bleeding
- 4.9 High response and OHS

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4.10 Legislation on assisted human reproduction techniques

MODULE 5. SPECIAL SITUATIONS IN ASSISTED REPRODUCTION

5.1 Recurrent miscarriage

5.2 Implantation failure

5.3 Chronic viral infections and reproduction

5.4 Reproductive approach in oncological patients