



"LA SOCIÉTÉ MAROCAINE D'ENDOMÉTRIOSE ET DE MÉDECINE DE LA REPRODUCTION - MSERM"

Geneva Switzerland,
Wednesday, March 6, 2024

Educational Lines DERGA Diploma

In the context of a program Diploma of Clinical Embryology, Reproductive Genetics & Andrology (DERGA),

"Educational Lines" typically refer to the specific areas or disciplines within the field of reproductive medicine that are covered by the program. These educational lines outline the key subjects, topics, and skills that participants will study and develop throughout the course of the diploma.

The educational lines in the DERGA program may include:

1. *Clinical Embryology:*

- Study of gametogenesis, fertilization, embryonic development, and implantation.
- Laboratory techniques in embryology, including oocyte retrieval, sperm preparation, and embryo culture.
- Quality control and quality assurance in the embryology laboratory.

2. *Reproductive Genetics:*

- Understanding the genetic basis of infertility and reproductive disorders.
- Principles of preimplantation genetic testing (PGT) and genetic counseling for couples undergoing ART.
- Ethical considerations in reproductive genetics.

3. *Reproductive Andrology:*

- Male reproductive physiology and endocrinology.
- Semen analysis and interpretation, laboratory techniques in andrology.
- Management of male factor infertility.

4. *Advanced Assisted Reproductive Technologies (ART):*

- In-depth study of advanced ART techniques such as intracytoplasmic sperm injection (ICSI), blastocyst culture and transfer, and cryopreservation of gametes and embryos.
- Emerging technologies in ART, including time-lapse imaging and mitochondrial transfer.

5. *Laboratory Management:*

- Design and setup of an ART laboratory, equipment maintenance, and calibration.
- Staff training and competency assessment, regulatory compliance, and accreditation standards.

6. *Reproductive Endocrinology:*

- Understanding hormonal regulation of the reproductive system.
- Ovarian stimulation protocols in ART, management of ovarian hyperstimulation syndrome (OHSS), and endometrial receptivity.

7. *Ethical and Legal Issues in Reproductive Medicine:*

- Patient autonomy and informed consent in ART.
- Legal considerations in gamete and embryo donation, ethical dilemmas in reproductive medicine, and global perspectives on ART regulation and legislation.

These educational lines encompass a wide range of subjects and skills relevant to the practice of reproductive medicine and prepare participants for careers in clinical embryology, reproductive genetics, and andrology.



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