



# **COURSE SPECIFICATION of Advanced course in ART (assisted**

# reproductive techniques)

MSc Dermatology, Andrology and STDs Faculty of Medicine- Mansoura University

# (A) <u>Administrative information</u>

(1)Programme offering the course:	MSc Dermatology, Andrology and STDs
(2)Department offering the programme:	Dermatology, Andrology and STDs
(3)Department responsible for teaching the course:	Dermatology, Andrology and STDs
(4)Part of the programme:	second part
(5)Date of approval by the Department`s council	9/4/2023
(6)Date of last approval of programme specification by Faculty council	18/4/2023
(7)Course title:	Advanced course in ART (assisted reproductive techniques)
(8)Course code:	DERM 515 ART
(9)Total teaching hours:	30
(10)Number of credit hours	2

# (B) Professional information

#### (1) Course Aims:

The broad aims of the course are as follows:

1- Provides the student with advanced knowledge about ART (assisted reproductive techniques).

2- Be able to plan a standard diagnostic algorism for steps of usage of ART

### (2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

### A- Knowledge and Understanding

- A1 Outline conventional IVF and related techniques (GIFT, ZIFT, embryo transfer).
- A2- Explain different types of sperm preparation (for IUI, IVF, ICSI)
- A3 Discuss ART for male infertility (indications, assessment, and genetic counseling)
- A4 Recognize different methods of sperm collection [surgical and nonsurgical].

A5- Discuss the cryopreservation (sperms, tissue, embryo) A6-

Recognize the outcome and complications of ART

A7- Explain the legal aspects of ART A8-

Identify the artificial insemination

A9- Describe the gamete micromanipulations (zona drilling, post-zona drilling, sub zona sperm injection, ICSI, assisted hatching)

# **B- Intellectual ILOs**

- B1- Compare between different types of IVF
- B2- Differentiate between different types of gamete micromanipulations.

# (3) Course content:

Subjects	Lecture
1. Conventional IVF and related	4
techniques (GIFT, ZIFT, embryo	
transfer).	
2. types of sperm preparation (for	4
IUI, IVF, ICSI)	
3. ART for male infertility (indications,	4
assessment, and genetic	
counseling)	
4. Different methods of sperm	4
collection [surgical and nonsurgical].	
5. cryopreservation (sperms, tissue,	4
embryo)	
6. outcome and complications of	2
ART	
7. legal aspects of ART	2

8. artificial insemination	2
9. gamete micromanipulations (zona	4
drilling, post-zona drilling, sub zona sperm	
injection, ICSI, assisted	
hatching)	

# (4) **Teaching methods: 4.1:**

Lectures

4.2 : Journal clubs

4.3 : Workshops

4.4 : Grand meetings

4.5 : Case presentations

4.6 : Specialty conferences

# 4.7 4.7: Hand on training

(5) Assessment methods: Assessment methods.

5.1 MCQ & EMQ exam for assessment of intellectual and knowledge ILOs

**5.2 MEQs : Short essay questions for assessment of** ILOs number A1,A2.

**5.3: Log book for activities for assessment of**: mainly for assessment practical & transferrable skills, attendance of different conferences, thesis discussions, seminars, workshops, Attendance of scientific lectures.

**5.4: seminars:** the candidate should prepare and present at least one seminar in atopic related to the course and determined by the supervisors in front of the department staff .

Assessment Schedule (100 marks)

Assessment 1: MCQ & short questions examination by the end of 2<sup>nd</sup> semester for

assessment of knowledge and intellectual skills (80%)

Assessment 2: Logbook required activities to go through end semester examination.

(5) <u>Assessment 3</u>: the candidate should prepare and present at least one seminar in atopic related to the course and determined by the supervisors in front of the

department staff (20%).

#### (6) **References of the course:**

6.1 : Hand books: conferences and Department staff handouts

6.2 : Text books: Andrology: Male Reproductive Health and Dysfunction,

E. Nieschlag, H.M. Behre and S. Nieschlag (Editors) 2009, Springer; 3rd ed.

6.3: Journals: human andrology, fertility sterility

6.3 : Websites: www.iasstdaids.org, www.telemedicine.org/std ,and

ijsa.rsmjournals.com 6.4: Others: Andrology course of Cairo

University

(7) Facilities and resources mandatory for course completion: 1-Fully Equipped

Lecture halls

2-Department library 3-

**Faculty library** 

Course coordinator: Prof. Samir Elhanbaly, MD Head of the department: Prof. Ashraf Hassan, MD