



COURSE SPECIFICATION of Advanced course in ART (assisted reproductive techniques)

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

(A) Administrative information

(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	3/4/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Advanced course in ART (assisted reproductive techniques)
(8) Course code:	DERM 515 ART
(9) Total teaching hours:	10
(10) Number of credit hours	1

(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	Lectures
1. Conventional IVF and related techniques	2
(GIFT, ZIFT, embryo transfer).	
2. types of sperm preparation (for IUI, IVF,	2
ICSI)	
3. ART for male infertility (indications,	2
assessment, and genetic counseling)	
4. Different methods of sperm collection	2
[surgical and nonsurgical].	
5. cryopreservation (sperms, tissue, embryo)	2
6. outcome and complications of ART	1
7. legal aspects of ART	1
8. artificial insemination	1
9. gamete micromanipulations (zona drilling,	2
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: Hand on training

- (5) Assessment methods:
 - 5.1: Written exams for assessment of knowledge and intellectual ILOs
 - **5.2** MCQ continuous assessment exams for assessment of knowledge and intellectual ILOs

Assessment schedule:

- MCQ Exam at the end of the semester
- Final Written exam after 36 months of admission to the job or 30 months after registration to MS degree

Marks of each Assessment:

- MCQ Exam 30 marks.
- Final Written exam 120 marks.
- (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. Samie Elhanbaly, MD

Head of the department:

Prof. Ibrahim Abu-Bakr Abdel Hamid, MD

Date:3/4/2016