



**SEXUAL MEDICINE COURSE SPECIFICATION**  
**MD Andrology and Sexually transmitted infections**  
**Faculty of Medicine– Mansoura University**

**(A) Administrative information**

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| <b>(1) Programme offering the course:</b>                                      | <b>MD Andrology and Sexually transmitted infections</b> |
| <b>(2) Department offering the programme:</b>                                  | <b>Dermatology, Andrology and STDs</b>                  |
| <b>(3) Department responsible for teaching the course:</b>                     | <b>Dermatology, Andrology and STDs</b>                  |
| <b>(4) Part of the programme:</b>  | <b>second part</b>                                      |
| <b>(5) Date of approval by the Department`s council</b>                        | <b>3/4/2016</b>   |
| <b>(6) Date of last approval of programme specification by Faculty council</b> | <b>9/8/2016</b>   |
| <b>(7) Course title:</b>   | <b>SEXUAL MEDICINE</b>                                  |
| <b>(8) Course code:</b>  | <b>ANDRO 615 SM</b>                                     |
| <b>(9) Total teaching hours:</b>   | <b>90 lectures<br/>120 clinical</b>                     |
| <b>(10) Number of credit hours</b>   | <b>6 lectures<br/>4 clinical</b>                        |

## **(B) Professional information**

### **(1) Course Aims:**

The broad aims of the course are as follows:

- 1- Provides MD students with advanced and detailed knowledge about erectile dysfunction (ED)
- 2- Provides MD students with detailed andrologic clinical skills.
- 3- Teaches the MD student how to classify the different causes of ED and make an appropriate differential diagnosis.
- 4- Teaches the MD student how to diagnosis ED.
- 5- Teaches the MD student how to carry out certain therapeutic procedures.
- 6- Teaches the MD student how to propose treatment strategies for most cases ED.
- 7- Provides MD student with an ethical attitude in general and towards patients, relatives, seniors, tutors and colleagues.

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

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

#### **A- Knowledge and Understanding**

- A 1- Recognize the following aspects of Sexual development:
- a. Sexual differentiation and development, including abnormalities, of male and female genital and reproductive systems
  - b. Social, cultural, physical and psychological factors.
  - c. Psychosexual development including gender identity and sexual orientation
  - d. Incorporating sexuality into relationships
  - e. Patterns of sexual behaviour

A 2- Explain the Psychology and physiology of sexual desire, arousal and response regarding the following subjects:

- a. Central nervous mechanisms
- b. Role of hormones
- c. Genital responses
- d. Orgasm, emission and ejaculation

A 3- Discuss the Impact of gender and Similarities and differences between men and women in:

- a. Psychophysiological mechanisms and how they are experienced
- b. Patterns of sexual behaviour throughout life
- c. Sexual attitudes
- d. Sexual orientation

A 4- Describe Ageing and Sexuality regarding:

- a. The effect of physiological, psychological and social factors throughout life
- b. Changes in sexuality throughout life

A5- Recognize Sexual Dysfunctions in men and women regarding:

- a. Definitions and classification
- b. Epidemiology, pathophysiology and risk factors
- c. Differentiation between sexual dysfunction and short term, or transient, alterations of sexual function.
- d. Diagnosis and treatment of sexual dysfunctions
  - i. Desire disorders
  - ii. Arousal disorders including erectile dysfunction and priapism.
  - iii. Orgasmic disorders
  - iv. Ejaculatory disorders

- v. Genital pain and pelvic floor disorders
- vi. Structural / anatomical abnormalities including congenital and acquired penile deformities
- vii. Priapism

A 6- Identify the following deviant sexual behaviour:

- a. Paraphilias (exhibitionism, voyeurism, paedophilia, sadomasochism, fetishism etc.)
- b. Sexual offences (abuse, assault and rape)
- c. High risk, compulsive and / or addictive sexual behavior
- d. Homosexuality.

A 7- Outline different Gender Identity Disorders.

A8- Discuss the Impact of the following conditions on sexuality:

- a. Somatic and psychic diseases and / or their treatment
- b. Sexually transmitted infections
- c. Sexual problems related to reproduction.
- d. Drugs.
- e. Sexual violence, abuse and ritual injuries..

A 9- Explain the clinical management of sexual disorders regarding:

1. Principles
  - i. Evidence based medicine
  - ii. Combination of psychosomatic and somato-medical approach
  - iii. Interdisciplinarity
  - iv. Patient and couple centered
2. Methods
  - i. Establishing a sexual medicine clinic
  - ii. Counselling, Sex therapy, Psychotherapy
  - iii. Pharmacological

iv. Physical and surgical

A10- Identify the Ethical and Legal aspects of Sexual Medicine

**B- Intellectual skills**

B1- Analyzes information obtained from patients regarding history, clinical examination & investigations in a stepwise manner.

B2- Differentiate between diseases categorized together e.g. causes of erectile dysfunction.

B3- Uses of cognitive strategies for diagnosis, differential diagnosis & treatment.

B4- Puts a therapeutic plan taking into consideration risk benefits ratio & cost effective to the patients.

B5- Set up an algorithm for diagnosis of certain conditions e.g. different types of deviant sexual behavior.

**C- Professional/practical skills:**

C 1- Obtaining a patient's full history and full clinical examination in case of:

1. Sexual Dysfunctions in men
2. sexual dysfunctions in women
3. Deviant sexual behavior
4. Gender Identity Disorders
5. Sexual development disorders
6. other conditions affecting sexuality

C 2- Perform different diagnostic tests like intracavernosal injection (ICI), Rigiscan monitoring of penile erections, Doppler exam, and assessment of penile nerves.

C 3- Manage different sexual disorders like:

1. Sexual Dysfunctions in men

2. sexual dysfunctions in women
3. Deviant sexual behavior
4. Gender Identity Disorders
5. Sexual development disorders
6. other conditions affecting sexuality

#### **D- Transferable skills & Communication**

D1- Work effectively within the team of colleagues and tutors.

D2- Manage time, services and resources effectively.

D3- Set priorities, skills and needs for lifelong learning.

D4- Deal professionally with scientific organizations, journals, and associations.

D5- Respect the patient's privacy & autonomy.

D6- Respond to patients needs superseding self-interest.

D7- Justify appropriate attitude, clinical ethics & legal responsibilities.

D8- Present information clearly in different, written, oral or electronic forms.

D9- Communicate effectively with patients, families & the public across their broad range of socioeconomic & cultural backgrounds.

D10- Alleviate patient's anxiety & establish trust

D11- Interact effectively with team work, other physicians & other health care providers.

D12- Explain to the patients and/or relatives the nature of the disease, diagnostic & therapeutic options & recommend life style modifications in ethical way.

D13- Advocate for quality and optimal patient care.

#### **(3) Course content:**

| Lectures  | Teaching hours |
|---|----------------|
| <b>1. Sexual development:</b>   |                |
| a. Sexual differentiation and development, including abnormalities, of male and female genital and reproductive systems | 2              |
| b. Social, cultural, physical and psychological factors.  | 2              |
| c. Psychosexual development including gender identity and sexual orientation  | 2              |
| d. Incorporating sexuality into relationships   | 2              |
| e. Patterns of sexual behaviour   | 2              |
| <b>2. Psychology and physiology of sexual desire, arousal and response</b>  |                |
| a) Central nervous mechanisms   | 2              |
| b) Role of hormones   | 2              |
| c) Genital responses  | 2              |
| d) Orgasm, emission and ejaculation   | 2              |
| <b>3. Impact of gender and Similarities and differences between men and women in:</b>                                   |                |
| a. Psychophysiological mechanisms and how they are experienced  | 2              |
| b. Patterns of sexual behaviour throughout life   | 2              |
| c. Sexual attitudes   | 2              |
| d. Sexual orientation   | 2              |
| <b>4. Ageing and Sexuality</b>  |                |
| a) The effect of physiological, psychological and social factors throughout life  | 2              |
| b) Changes in sexuality throughout life   | 2              |
| <b>5. Sexual Dysfunctions in men and women</b>  |                |
| a) Definitions and classification   | 2              |
| b) Epidemiology, pathophysiology and risk factors   | 2              |
| c) Differentiation between sexual dysfunction and short term, or transient,   | 2              |

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| alterations of sexual function.  |    |
| d) Diagnosis and treatment of sexual dysfunctions:<br>i. Desire disorders<br>ii. Arousal disorders including erectile dysfunction and priapism.<br>iii. Orgasmic disorders<br>iv. Ejaculatory disorders<br>v. Genital pain and pelvic floor disorders<br>vi. Structural / anatomical abnormalities including congenital and acquired penile deformities<br>vii. Priapism | 12 |
| <b>6. Deviant sexual behavior:</b><br><br>a. Paraphilias (exhibitionism, voyeurism, pedophilia, sadomasochism, fetishism etc.)<br>b. Sexual offences (abuse, assault and rape)<br>c. High risk, compulsive and / or addictive sexual behavior<br>d. Homosexuality.   | 8  |
| <b>7. Gender Identity Disorders</b>  | 5  |
| <b>8. Impact of the following conditions on Sexuality:</b>   |    |
| a. Somatic and psychic diseases and / or their treatment   | 2  |
| b. Sexually transmitted infections   | 2  |
| c. Sexual problems related to reproduction.  | 2  |
| d. Drugs.  | 2  |
| e. Sexual violence, abuse and ritual injuries..  | 2  |
| <b>9. Clinical Management of sexual disorders</b>  |    |
| a. Principles<br><br>i. Evidence based medicine<br>ii. Combination of psychosomatic and somato-medical approach<br>iii. Interdisciplinarity<br>iv. Patient and couple centered   | 8  |
| b. Methods<br>i. Establishing a sexual medicine clinic<br>ii. Counseling, Sex therapy, Psychotherapy<br>iii. Pharmacological<br>iv. Physical and surgical  | 8  |

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| <b>10. Ethical and Legal aspects of Sexual Medicine</b> | <b>3</b>  |
| Total   | <b>90</b> |

**(4) Clinical training:**

| Subjects  | Training hours |
|---|----------------|
| 1. Detailed History taking in Sexual medicine.  | 10             |
| 2. General Physical Examination of patient with sexual dysfunctions.  | 10             |
| 3. Local genital Examination of patient with sexual dysfunctions.   | 10             |
| 4. Local vascular Examination of patient with sexual dysfunctions.  | 5              |
| 5. How to select proper investigations for better case evaluation   | 5              |
| 6. Intracorporal injection of vasoactive agents e.g. PGE1   | 10             |
| 7. Psychological testing for measurement of psychosexual functioning.   | 5              |
| 8. Monitoring of nocturnal erections that occur during rapid eye movement sleep to differentiate organic from psychogenic impotence. This is done by Rigiscan device examination.   | 10             |
| 9. Penile-brachial pressure index.  | 5              |
| 10. Performance of penile Duplex US studies: Evaluation of the blood vessels by Doppler ultrasound examination to determine the blood flow, blood pressure and imaging the defects in penile blood vessels. This is done before and after intracavernosal injection of vasoactive agents. | 10             |
| 11. Cavernosometry & cavernosography to study the venous drainage system of the penis (the veno-occlusive mechanism of the corpus cavernosum).  | 10             |
| 12. Neurologic evaluation of afferent and efferent pathways of erection: electromyography, nerve conduction studies, thermal or vibratory threshold & bulbocavernosus latency.  | 10             |

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| 13. Reading and interpretation of different Imaging Diagnostics, Endocrine Laboratory Diagnosis, and other Investigations. | 5   |
| 14. Detection of Normal and Abnormal Sexual development sequences and manifestations.                                      | 5   |
| 15. Types of Therapy for Clinical Management of sexual disorders.  | 5   |
| 16. Ethical Aspects of sexual Medicine   | 5   |
| Total  | 120 |

**(5) Teaching methods:**

**5.1: Seminars, Lectures**

**5.2: Workshops**

**5.3: Grand meetings**

**5.4: Case presentations**

**5.5: Specialty conferences**

**5.6: Hand on training**

**5.7: Travelling fellowships**

**(6) Assessment methods:**

6.1. Written exam for assessment of knowledge and intellectual ILOs

6.2. Structured Oral exam for assessment of knowledge, intellectual and transferable ILOs

6.3. OSCE Clinical exam for assessment of knowledge, intellectual and transferable and practical ILOs

6.4 continuous assessment exams for assessment of knowledge and intellectual ILOs

**Assessment schedule:**

**MCQ Exam at the end of the semester**

**Final Assessment after 6 semesters**

**Marks of each Assessment:**

**MCQ Exam = 25 marks.**

**Final Written exam = 100 marks**

**Final Clinical OSCE exam = 50 marks**

**Final structured Oral exam= 50 marks**

**(7) References of the course:**

**7.1: Hand books:** Andrology Department staff handouts

**7.2: Text books:** Andrology (3<sup>rd</sup> Edition, Springer, 2010), infertility in practice Advances in sexual medicine (Research Signpost, 2009)

**7.3: Journals:.,:** International Journal of Impotence Research, Journal of sexual Medicine, Journal of Andrology, Andrologia, International journal of Andrology, Andrology Archives, Fertility & sterility Journal.

**7.1: Websites:** [www.IJIR.org](http://www.IJIR.org), [www.telemedicine.org](http://www.telemedicine.org), [www.asrm.org](http://www.asrm.org), [www.aua.org](http://www.aua.org), [www.andrologysociety.com](http://www.andrologysociety.com) , [www.andrology.com](http://www.andrology.com) , [www.asiaandro.com](http://www.asiaandro.com), [www.eshre.org](http://www.eshre.org)

**(8) Facilities and resources mandatory for course completion:**

**1- Daily andrology Outpatient clinic**

**2- Fully Equipped Lecture halls**

**3- Department library**

**4- Faculty library**

**5- An equipped Clinical andrology unit**

**6- Andrology laboratory**

**Course coordinator:**

**Prof. Samir Elhanbaly, MD**

**Chairman of the department:**

**Prof. Ibrahim A. Abdel-Hamid, MD**

**Date: 3/4/2016**