



Andrology &STDs COURSE SPECIFICATION MSc Dermatology, Andrology &STDs Faculty of Medicine- Mansoura University (A) Administrative information

(1) Programme offering the course:	MSc Dermatology, Andrology &	
	STDs	
(2) Department offering the programme:	Dermatology, Andrology &S T D	
	S	
(3) Department responsible for teaching the	Dermatology, Andrology & S T D	
course:	S	
(4) Part of the prog ram m e:	Third semester	
(5) Date of approval by the Department's	9/4/2023	
council		
(6) D ate of last approval of programme	18/4/2023	
specification by		
F aculty council		
(7) C ourse title:	Andrology part II	
(8) C ourse code:	DERM 515 AN II	
(9) N umber of credit hours	3	
(10) T otal teaching hours:	45	

B) Professional information

(1) Course Aims: (B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1- The M S c student will acquire detailed knowledge about most cases of erectile dysfunction (E D), male infertility and S T D s.

- 2- Provides M S c students with detailed Androlog y clinical skills such as obtaining a patient's full history and full clinical examination of male urethra and g enital system. 3- T rains the candidate how to classify the different causes of E D male infertility and S T D s and make an appropriate differential diag nosis.
- 4- T rains the candidate how to Perform certain diag nostic tests like microscopic examination of semen and prostatic fluid, taking expressed prostatic secretions, urethral swabs, two g lasses testing, looking for pus cells in urine and semen, testicular biopsy, intracavernosal injection (IC I), R ig iscan monitoring of penile erections, and D oppler exam for varicocele
- 5- T rains the candidate how to do certain therapeutic procedures like: correction of priapism, testicular sperm extraction (TESE) and percutaneous sperm aspiration (PESA)
- 6- Trains the candidate how to plan a standard diagnostic algorism for cases of urethral discharge
- 7- T rains the candidate how to propose treatment strateg ies for most cases E D male infertility and S T D s.
- 8- T rains the candidate to acquire an ethical attitude in g eneral and towards patients, relatives, seniors, tutors and colleagues.
- 9- T rains the candidate how to consider the importance of scientific research and community service

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1- R ecog nize Physiolog y of T esticular F unction, S perm M aturation and F ertilization.

- A2- Outline the C lassification of Androlog ical D isorders A3- E xplain techniques, results and indications of different diag nostic methods:
 - 1. Imaging Diagnostics
 - 2. Endocrine Laboratory Diagnosis.
 - 3. Cytogenetic and Molecular Genetic Investig ations.
 - 4. Semen Analysis.
 - 5. Sperm Quality and Function Tests
 - 6. Testicular Biopsy and Histology.
- A4- D escribe N ormal and Abnormal pubertal development. A5- E xplain the etiolog y, pathog enesis, diag nosis, differential diag nosis and manag ement of D iseases of the H ypothalamus and the Pituitary G land.
- A6- D iscuss etiolog y, pathog enesis, diag nosis, differential diagnosis and management of Disorders affecting male fertility at the T esticular L evel.
- A 7- E xplain etiolog y, pathog enesis, diag nosis, differential diagnosis and management of Disorders affecting male fertility at the level of Androg en T arg et Org ans. A8- Outline etiolog y, pathog enesis, diag nosis, differential diag nosis and manag ement of the D iseases of the S eminal D ucts.
- A 9- D escribe T esticular D ysfunction in S ystemic D iseases and latrog enic factors and effect of S T D s on male infertility.
- A10–D escribe different types of treatment of male infertility A11-Identify M ale contribution to contraception. A12- R ecog nize etiology, pathog enesis, diag nosis, differential diagnosis and management of Andrological emerg encies.
- A13- E xplain the Psycholog y and physiolog y of sexual desire, arousal and response reg arding the following subjects:
 - a. Central nervous mechanisms
 - b. Role of hormones
 - c. Genital responses
 - d. Orgasm, emission and ejaculation
- A14- D escribe Ag eing and S exuality reg arding:

- a. The effect of physiological, psychological and social factors throug hout life
- b. Changes in sexuality throughout life A15- R ecog nize S exual D ysfunctions in men and women reg arding:
 - 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. A16- Identify the etiolog y, pathog enesis, diag nosis, differential diag nosis and manag ement of deviant sexual behaviour.
- A17- Outline different G ender Identity D isorders. A 18- R ecog nize the clinical manag ement 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
- Methods
- i. Establishing a sexual medicine clinic ii.
 Counselling, Sex therapy, Psychotherapy iii.
 Pharmacological iv. Physical and surgical-

Intellectual skills

- B 1-Interpret clinical data on approaching different andrology cases.
- B 2- S ummarize the appropriate tests to diag nose a case with androlog ic problem.
- B 3- Analyze data obtained from history, clinical examination and laboratory reports to approach andrology cases management.
- B 4- Prioritize the different patient's problem and S et up an appropriate algorism for these problems management. B 5- Plan a safe treatment strategy after discussion with the patient or a relative.

B 6- D ifferentiate between diseases categ orized tog ether e.g. uretheral discharg es, g enital ulcers.

B - Professional/practical skills:

- C1- Make clinical decisions based on evidence & obtained finding s.
- C 2- S elect appropriate investig ations.
- C3- Interpret results obtained from history, clinical examination & diag nostic testing .
- C4- Plan a safe management after discussion with the patient himself or a relative.
- C5- Fully document the patient's history & examination findings and present information clearly in different, written, oral or electronic forms.
- C6- Take care sexually transmitted infections using universal precautions.
- C 7-R ecord a detailed and structured androlog y & S T D s history
- C 8- Perform a standard male g enital examination. C 9- Perform certain diag nostic tests important in the field of Androlog y like microscopic examination of semen (conventional and computer assisted semen analysis (CASA) and prostatic fluid, testicular biopsy, intracavernosal injection (IC I), monitoring of nocturnal penile erections (using the R ig iscan) and look for varicocele using the D oppler U S and some diag nostic tests for S T D s like urethral swabs, prostate examination and expressed prostatic fluid microscopic exam and two g lasses test..
 - C 10- Practice certain therapeutic procedures like: semen processing, correction of priapism, testicular sperm extraction (TESE) and percutaneous sperm aspiration (PE S A)

D - C om m unication &T ransferable skills

- D 1- Work effectively within the team of colleagues and tutors.
- D 2- M anag es time, services and resources effectively.
- D 3- S ets priorities, skills and needs for lifelong learning.
- D 4- D eal professionally with scientific org anizations, journals, and associations.
- D 5- Explain to the patients and/or relatives the nature of the disease.
- D 6- Presents information clearly in different, written, oral or electronic forms.

- D 7- Interact effectively with dermatolog y patients, their families and the public respecting their socioeconomic and cultural backg rounds.
- D 8- Value the patient's concerns and worries.
- D 9- R espect patients' privacy and autonomy.
- D 10- Interact effectively with team work, other physicians & other health care providers.

The broad aims of the course are as follows:

- 1- Provides the M S c student with detailed knowledge about most of skin diseases probably seen by a skin specialist. 2- Provides M S c students with detailed dermatology clinical skills
 - 3- T rains the M S candidate how to differentiate between similar skin diseases after making an appropriate differential diag nosis.
 - 4- T rains the M S candidate how to perform certain diag nostic and therapeutic procedures for cases of skin diseases like skin biopsy, woods light examination, dermoscopy cases.
 - 5- T rains the M S candidate how to plan a standard diagnostic algorism for skin diseases
 - 6- T rains the M S candidate how to propose treatment strateg ies for most cases of skin diseases
 - 7- T rains the M S candidate how to acquire an ethical attitude in g eneral and towards patients, relatives, seniors, tutors and colleagues.
 - 8- T rains the M S candidate how to Perform certain treatment procedures for the skin like lig ht therapy, dermabrasion, cry and electro cautery, excision of some skin lesions chemical peel, and laser therapy.
 - 9- T rains the M S candidate how to carry out scientific research and community service

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

- A1- R ecog nize the etiolog y, pathog enesis, clinical features, investig ations, differential diag nosis, complications and treatment of different skin diseases.
- A2- Outline the relations between the systemic diseases & the skin

- A 3- Explain the different diag nostic tests to be used in identification of most skin diseases.
 - A4- D iscuss the lines of treatment of skin diseases including topical and systemic therapy, phototherapy, and basics of dermatolog ical surg ery & L aser therapy.

B - Intellectual skills

- M S c D eg ree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:
- B-1- Assimilate scientific data and bring it into his clinical dermatolog y practice
- B 2-Interpret clinical data on approaching cases.
- B 3- S ummarize the appropriate tests to diag nose a dermatology case
- B 4- Analyze data obtained from history, clinical examination and laboratory reports to approach cases.
- B 5- Prioritize the different patient's problems and S et up an appropriate algorism for proper problems management.
- B 6- Propose g ood and interesting points for clinical studies in the field.
- B 7- Plan a safe treatment strategy after discussion with the patient or a relative.
- B 8- C ompare between different skin diseases categorized together e.g. immunobullous diseases according to levels of cleavage.

C - Professional/practical skills:

- C1- C onstruct and record a detailed and structured dermatolog y history sheet.
- C 2-U tilize most of the information obtained from history, clinical examination, and laboratory investig ations.
- C 3- C onduct a standard skin, hair, and nail examination.
- C 4- Practice some therapeutic modalities for skin problems, like intralesional injections electro, cryotherapy, U V therapy, dermabrasion and L AS E R treatments, chemical peeling, fillers and B otox injections
- C 5- Advocate for quality and optimal patient care.
- C 6- Apply data from literature into the specialty.

D -C om m unication & T ransferable skills:

- D 1- Work effectively within the team of colleagues and tutors.
- D 2- Manag es time, services and resources effectively.
- D 3- Sets priorities, skills and needs for lifelong learning.

- D 4- Deal professionally with scientific org anizations, journals, and associations.
- D 5- Explain to the patients and/or relatives the nature of the disease.
- D 6- Presents information clearly in different, written, oral or electronic forms.
- D 7- Interact effectively with dermatolog y patients, their families and the public respecting their socioeconomic and cultural backgrounds.
- D 8- Value the patient's concerns and worries.
- D 9- R espect patients' privacy and autonomy.
- D 10- Interact effectively with team work, other physicians & other health care providers.

(3) C ourse content

3 credit hours

Andrology module No. 2 (Sexual medicine)

Teaching hours
6
rs 4

b.	Changes in sexuality throughout life	
3. Sexual Dysfunctions in men and women		5
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:	11
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.	S tructural / anatomical abnormalities including cong enital and acquired penile deformities	
vii.	Priapism	
4. De	viant sexual behavior:	5
a.	Paraphilias (exhibitionism, voyeurism, pedophilia, sadomasochism, fetishism etc.)	
b	S exual offences (abuse, assault and rape)	
c.	H ig h risk, compulsive and / or addictive sexual behavior	
d	. H omosexuality.	
5. Ge	nder Identity Disorders	3
6. Cli	nical Management of sexual disorders	5
	a. Principles	
i.	Evidence based medicine	
ii.	Combination of psychosomatic and somato-medical approach iii.	
	Interdisciplinarity iv. Patient and couple centered	
	b. Methods	6
i	. Establishing a sexual medicine clinic	
i	i. Counseling, Sex therapy, Psychotherapy	
i	ii. Pharmacological	
i	v. Physical and surgical	
	T otal	45

(5) Teaching methods:

5.1: L ectures

- 5.2: Workshops
- 5.3: G rand meeting s
- 5.4: C ase presentations
- 5.5: specialty conferences
- 5.6: H and on training

(6)Assessment methods:

- 6.1 MCQ & EMQ exam for assessment of intellectual and knowledge ILOs
- **6.2 MEQs: Short essay questions for assessment of ILOs number A1,A2.**
- **6.3:** 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.
- **6.4: seminars:** the candidate should prepare and present at least one seminar in a topic 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 1 st semester for assessment of knowledge and intellectual skills (80%)
- Assessment 2: Logbook required activities to go through end semester examination.
- Assessment 3: the candidate should prepare and present at least one seminar in a topic related to the course and determined by the supervisors in front of the department staff (20%).

References of the course:

- 7.1: H and books: Andrology Department staff handouts
- 7.2: Text books: Andrology (3 rd Edition, Springer, 2010),

Advances in sexual medicine (Research Signpost, 2009), textbook of STDs ad AIDS by CN Sowmini, WHO handbook of STDs

7.3: Journals: International Journal of Impotence

Research, Journal of sexual Medicine, Journal of

Andrology, Andrology, International journal of Andrology, Andrology Archives, F ertility& sterility Journal.AID S patient care and STDs, Journal ---International journal of

STD&AIDS

7.4: Websites: www.IJIR ..org, www.telem edicine.org, www.asrm .org, www.aua.org, www.andrologysociety.com , www.andrology.com , www.asiaandro.com

- (7) Facilities and resources mandatory for course completion:
 - 1- Daily Andrology Outpatient clinic
 - 2- Fully Equipped Lecture halls
 - 3-D epartm ent library
 - 4-F aculty library
 - 5-An equipped Clinical Andrology unit
 - **6- Andrology laboratory**

Course Course coordinator:

Samir E Ihanbly, M D

H ead of the department:

Prof. Ashraf Hassan, MD