



## Microbiology & immunology related to dermatology & andrology

### COURSE SPECIFICATION

#### MD Dermatology, Andrology and STDs

#### Faculty of Medicine- Mansoura University

#### (A) Administrative information

(1) Programme offering the course:	MD 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:	first 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:	Microbiology & immunology related to dermatology & andrology
(8) Course code:	DERM 615 MI
(9) Total teaching hours:	15
(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 detailed and advanced knowledge about Microbiology & immunology related to dermatology & andrology

**(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**

- A 1- Recognize the Micro flora of skin and the male genital tract.
- A 2- Discuss Bacterial, Viral, Fungal, Protozoal and Parasitic skin and sexually transmitted infections and their Immunology.
- A 3- Identify the Innate immunity & adaptive immunity: Soluble factors, Cells of innate immunity, T & B lymphocytes.
- A 4- Recognize the Immunological functions of the skin: Keratinocytes, Langerhans's cell, Epidermal T cells, Antimicrobial peptides, Toll-like receptors
- A 5- Describe Cytokines & cell adhesion molecules in Dermatology
- A 6- Explain the Allergy (hypersensitivity) and its immunotherapy, Immunodeficiency and Autoimmunity.
- A 7- Discuss Immunology of skin tumors, Photo-immunology and Immunotherapy (Immunomodulatory drugs & Biologic therapy).
- A8- Identify the Spermatozoa related Immunological aspects.

**B-Intellectual skills:**

B-1- Plan standard diagnostic algorithms for microbiological diagnosis of Bacterial, Viral, Fungal, Protozoal and Parasitic skin and sexually transmitted infections.

B2- Compare between Innate immunity & adaptive immunity

**(3) Course content:**

<b>Subjects</b>	<b>Total Teaching Hours</b>
1. Micro flora of skin and the male genital tract	<b>1</b>
2. Bacterial skin and sexually transmitted infections.	<b>1</b>
3. Viral skin and sexually transmitted infections.	<b>1</b>
4. Fungal skin and sexually transmitted infections.	<b>1</b>
5. Protozoal and parasitic skin and sexually transmitted infections.	<b>1</b>
6. Innate immunity & adaptive immunity: Soluble factors, Cells of innate immunity, T & B lymphocytes.	<b>1</b>

7. Immunological functions of the skin: Keratinocytes, Langerhans's cell, Epidermal T cells, Antimicrobial peptides, Toll-like receptors.	1
8. Allergy (hypersensitivity)	1
9. Immunodeficiency and Autoimmunity	1
10. Spermatozoa related Immunological aspects	1
11. Cytokines in dermatology & cell adhesion molecules	1
12. Immunology of skin tumors	1
13. Immunology of skin infections: Bacterial. Fungal. Viral. Protozoal. Parasitic.	1

14.Immunotherapy: Immunomodulatory drugs, Allergy immunotherapy, Biologic therapy.	<b>1</b>
15.Photo-immunology	<b>1</b>
Total	<b>15</b>

**(4) Teaching methods:**

**4.1: Lectures**

**(5) Assessment methods:**

**5.1: Written exams for assessment of knowledge and intellectual ILOs.**

**Assessment schedule:**

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

**Final Written exam Assessment one semester after registration of MD degree**

**Percentage of each Assessment to the total mark:**

**MCQ Exam 20 % = 20 marks.**

**Final Written exam 80% = 80 marks.**

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

**6.1: Hand books:** conferences and Department staff handouts

**6.2: Text books:** Rook's text book of Dermatology Blackwell USA, 2010, Andrew's Disease of the skin 2006, Habif clinical dermatology, electronic text book of dermatology

**6.3: Journals:** British Journal of dermatology, Journal of the American Academy of Dermatology, Archives of Dermatology International Journal of Dermatology, Journal of skin surgery,

**6.1: Websites:** [WWW.eblue.org](http://WWW.eblue.org), [archderm.ama.org](http://archderm.ama.org), [www.wiley.com](http://www.wiley.com), [www.telemedicine.org](http://www.telemedicine.org), [www.amazon.com](http://www.amazon.com)

**6.1: Others:** MD Dermatology 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:**

**Head of the department:**

**Prof. Ibraheem Abu-Bakr Abdel Hamid, MD**

**Date: 3/4/2016**