

***PROGRAM SPECIFICATIONS***

*Program Title:*

**MD Degree of Dermatology**

*Code:*

***SVSD***

## **Program Specification**

### **A- Basic Information**

1- Program Title: **MD Degree of Dermatology**

2- Program Type: **Single**  **Double**  **Multiple**

3- Department (s): **Dermatology, Venereology and Andrology Department**

4- Coordinator: **Prof. Amaal Hussein Ahmed Gomaa: Professor of Dermatology, Venereology, and /Andrology, Suez Canal University**

5- Last date of program specifications approval: **The bylaws of the MD program in Dermatology in the Faculty of Medicine, Suez Canal University were approved by 2/2016.**

6-Date of specification revision approval: **2019**

7- Number of credit points for this degree: 180 CPs

### **B- Professional Information**

#### **1 – Overall Aims of Course**

At the end of the program, the student should be able to:

1. Acquire advanced basic knowledge of different aspects of dermatological diseases, e.g. Ultrastructure, function, and genetic background.
2. Take a brief yet targeted history from different types of patients presenting to dermatology unit: either in outpatient, or emergency, or the inpatient ward.
3. Perform meticulous physical examination for different types of patients presenting to dermatology unit: either in outpatient, or emergency, or the inpatient ward and interpret unusual skin lesions.
4. Achieve advanced technical skills in performing different types of skin biopsies e.g. Punch, wedge-shaped, elliptical, incisional, and shave biopsy.
5. Perform therapeutic procedures with proficiency as cryotherapy, intra-lesional injection, electrocautery, phototherapy, KOH slides, dermoscopy, trichoscopy, and use of different LASER systems.
6. Show skillful patient communication especially in the management of difficult patients presenting to dermatology unit.
7. Develop advanced clinical knowledge, skills and experience in the diagnosis and management of patients of all ages with different venereal diseases.
8. Show the ability to pass his/her basic, clinical, and technical knowledge to other students, tutors, and physicians.
9. Acquire advanced skills in presentation, critical appraisal of research, and team leadership.
10. develop the ability to continue self-learning through books, new data published in papers, journals, and conferences.

#### **2 – Intended Learning Outcomes of Course (ILOs)**

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

*Upon completion of this program, the student should be able to:*

- a1. Describe the molecular structure of the skin and its appendages with special emphasis on the ultrastructure of desmosomes and the basement membrane zone

- a2. Explain in depth the different components of innate and cellular immunity, complement system and different types of immunoglobulin and recognize their role in autoimmune and inflammatory skin diseases.
- a3. Identify the role of immunological cells in the development of graft versus host diseases (GVHD).
- a4. Discuss classification of mycoses causing skin diseases and outline the plan of their diagnoses
- a5. Discuss correlations and regression analyses
- a6. Describe different types of epidemiological studies and their applications in researches
- a7. Describe the dermatological involvement in congenital immunodeficiency syndromes.
- a8. Describe the gene structure and function and patterns of single gene inheritance.
- a9. Define gene therapy and its possible applications in dermatology.
- a10. Discuss genetic counselling and prenatal diagnosis methods.
- a11. Outline clinical evaluation of a patient with pruritus, and put a possible differential diagnosis for this patient.
- a12. Outline the immunological abnormalities involved in atopic dermatitis.
- a13. Recognize the presentation, causes and potential complications of erythroderma.
- a14. Describe the principles of use, mechanism of action, doses and side effects of retinoids, antifungals, antibacterials, antivirals, corticosteroids, immunosuppressive therapy, and sunscreens.
- a15. Provide an outline of the principle and uses of cryosurgery and skin biopsy.
- a16. Identify the possible complications of phototherapy and photochemotherapy.
- a17. Briefly discuss the autoantibodies encountered in patients with autoimmune connective tissue diseases.
- a18. Describe the presentation, aetiopathogenesis, microscopic features, differential diagnosis and investigation of histiocytoses, and non-infectious granulomas.
- a19. Outline the different forms of porphyria.
- a20. Describe the presentation, aetiopathogenesis, microscopic features, differential diagnosis and investigations of mucinoses, and amyloidosis.
- a21. Describe the presentation, aetiopathogenesis, microscopic features, differential diagnosis and investigations of alopecias and nail diseases.
- a22. Describe the pathogenesis, and clinical types of urticaria and angioedema.
- a23. Identify drug reactions.
- a24. Describe the presentation, aetiopathogenesis, microscopic features, differential diagnosis and investigations of genodermatoses.
- a25. Detect gene disorders with multiple cancers, including skin cancer.
- a26. Describe different paraneoplastic syndromes affecting the skin.
- a27. Detect any signs of surgical thyroid disorders (thyroid dermopathy).
- a28. Describe different indications, requirements and methods of surgical treatment of vitiligo.
- a29. Describe the Syndromes complicating NGU (Reiter's Disease, Pelvic Inflammatory Disease, Fitz Hough Curtis Syndrome).
- a30. Outline acquired immunodeficiency syndrome (AIDS): Definition, etiology, groups at high risk of HIV infection, epidemiology (mode of transmission – incidence ), immunological markers and staging, indicators of the disease, pathogenesis, mode of transmission, clinical pictures of the disease, tests for HIV detection, prevention and management of the disease.
- a31. Identify differential diagnosis of genital ulcers, and urethral discharge.
- a32. Put a management plan for a patient presenting with venereal complaint.
- a33. Demonstrate advances knowledge of biostatistics
- a34. Critically appraise research designs relevant to healthcare.

## **B- Intellectual Skills:**

*Upon completion of the program, the student should be able to:*

- b1. Develop a probable differential diagnosis for any patient presenting to the dermatology department units (outpatient, inpatient, emergency ward, and phototherapy units).
- b2. Put a plan of management of different presentations of patients.
- b3. Develop a list of needed investigations for a patient, and interpret their possible results.
- b4. Describe the dermatopathological features of different skin disorders.
- b5. Analyse skin biopsy report and interpret the prognosis of patients.
- b6. Consider different populations presenting with STDs (e.g. pregnant, children, and mentally incapacitated patients), and how to manage them.
- b7. Criticize papers and scientific research.
- b8. Demonstrate insight into research and scientific method through:
  - critical appreciation of methodology;
  - formulating research questions that are pertinent to medicine;
  - choice and application of appropriate quantitative and qualitative methodologies;
  - collecting, analyzing and interpreting data;
  - Analyzing and using numerical data (Use simple statistical methods)
- b9. Apply rules of evidence-based medicine in management of patients.

## **C- Professional and Practical Skills**

*Upon completion of this program, the student should be able to:*

- c.1 Take a full detailed, yet targeted, dermatological history.
- c.2 Examine skin, hair, nails and mucous membranes systematically showing respect to the patient.
- c.3 Describe cutaneous signs in skin, hair, nails and mucosa.
- c.4 Perform dermatological procedures e.g. Skin biopsy, cryosurgery, KOH direct microscopy.
- c.5 Put a plan for follow-up of patients undergoing light therapy.
- c.6 Counsel a patient with a genodermatoses, and apply concepts of prenatal diagnosis.
- c.7 Perform curative and diagnostic procedures e.g. Skin and genital biopsy, urethral, vaginal and cervical swabs, chemical or electrical cautery for genital lesions (e.g., warts), wet preparation examination for prostatic discharge, vaginal discharge, gram staining and interpretation of stained film for urethral discharge, dark ground examination.
- c.8 Develop a plan for infection control at his work setting, and criticize on-going measures.
- c.9 Develop a research proposal.
- c.10 Apply basic statistical tests.

## **D- General and Transferable Skills**

*Upon completion of this program, the student should be able to:*

- d1. Present information clearly in written, electronic and oral forms.
- d2. Communicate ideas and arguments effectively.
- d3. Manage time and resources and set priorities.
- d4. Apply the principles of scientific research.
- d5. Deal with uncertainty and work within a changing environment;
- d6. Provide written/oral reports to fellow health professionals and the public
- d7. Be an effective investigation/research team member
- d8. Work effectively within a team.
- d9. Communicate effectively with individuals regardless of their social, cultural or ethnic backgrounds, or their disabilities.

d10. Use computers efficiently.

#### **4- Curriculum Structure and Contents**

**4a- Program duration:** the program lasts for a minimum of 3 academic years and maximum 7 years, as specified in the internal bylaws for postgraduate studies based on credit points system in the Faculty of Medicine, Suez Canal University approved on February 7<sup>th</sup>, 2016.

**4b- Program structure:**

**MD Program Credit points (CP) structure:**

**Total needed credit points for getting master degree 180 CP**

The program consists of **First part 30 CP, Thesis 50 CP, and Second part 100 CP**

1. The first part of the program: 30 CP, its duration (15 weeks) for one academic semester. It includes
  - a. A course in Research Methodology planned and held in the Community Medicine Department of the Faculty of Medicine, Suez Canal University. This part includes 8 CPs.
  - b. Two elective courses, the students should select two electives among six courses. This part includes 2+2= 4 CPs.
  - c. A course in pathology in pathology department of the Faculty of Medicine, Suez Canal University. This part includes 4 CP.
  - d. A course in microbiology, and immunology in microbiology department of the Faculty of Medicine, Suez Canal University. This part includes 4 CP.
  - e. A course in medical genetics in histology department of the Faculty of Medicine, Suez Canal University. This part includes 4 CP.
  - f. A course in internal medicine in internal medicine department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.
  - g. A course in general surgery in surgery department of the Faculty of Medicine, Suez Canal University. This part includes 3 CP.
2. MD thesis: 50 CP, not included in the total marks for MD degree, the candidate has the right to register the thesis protocol after 6 months from the degree registration. The thesis defense is allowed after 2 years from the date of the faculty council approval on the thesis protocol and passing the first part exam.
3. The second part of the program: 100 CP ( including 10 CPs of scientific activities that not awarded any marks), its duration (60 weeks) for 4 consecutive academic semesters. The second part comprises the specialized courses in dermatology and venereology, planned and held in the Dermatology, Venereology, and Andrology Department. This part lasts for a minimum of 2 years ending by written and practical exams.

**4bi- No. of credit Points:** the MD program is awarded 180 Credit Points. Every credit point equal 20 marks. (except for thesis, and scientific activities are awarded CPs but not marks).

**4bii- No. of hours per week:** Every credit point include 25 working hour (30% = 7 hours for face to face learning activities, and 70% =18 hours for self-learning activities).

\*42 working hours /week, (30%= 13 hours for face to face learning activities, and 70% =29 hours for self-learning activities)

## **5-Program Courses**

### **5.1- Level of Program: 1<sup>st</sup> part MD**

#### **a. Compulsory:**

Course	Code	Credit points	Assessment (in marks)		
			Written	Oral	Clinical
Research Methodology	RB	8	160		
Pathology	SVSD53	4	60	20	
Microbiology, and immunology	SVSD51	4	60	20	
Medical Genetics	SVSD52	4	60	20	
Internal medicine	SVSD54	3	25	10	25
General surgery	SVSD55	3	25	10	25

#### **b. Elective:**

**Student should select two courses of the following as elective courses:**

One elective course has 2 CP. The students should select two elective courses in first part of the MD degree

E01	Evidence Based medicine	(Community Department)
E02	Scientific Writing	(Medical Education Department)
E03	Quality in Medical Education	(Medical Education Department)
E04	Infection Control	(Microbiology Department)
E05	Critical Appraisal	(Community Department)
E06	Communication Skills	(Medical Education Department)

### **5.2 Thesis:**

A faculty senior & junior supervisor from the staff members are nominated by the department council to prepare a proposal of the thesis protocol after the selection of a subject that is complementary to the research plans of the department. Data collection, methodologies, study question, time table, ethical considerations and budget are formulated by the candidate under guidance of his supervisors into a research project. The research protocol is discussed then openly in one of the department councils to be approved and diverted to the Faculty research committee where it is subjected to a critical appraisal to meet the research basic standards set by the committee. The final approvals of the research protocol are then issued by the committee of postgraduate studies, the Faculty and University Council to be registered. The candidate has the right to register his/her thesis protocol after 6 months from the degree registration. The first time for thesis defense after 2 years from the date of the faculty council approval on the thesis protocol and passing the first part exam.

N.B. Thesis represents 50 credit points not included in the total mark for MD degree.

### 5.3- Level of Programme: 2<sup>nd</sup> part MD

Courses			Assessment					
Code No.	Course Title	No. of Credit points	Written Exam			Oral	Clinical	Continues assessment *(Portfolio)
			Papers No	Duration	Marks			
SVSD56	Advanced Course in dermatology, and venereology	30	3	3 hrs/ 3 hrs/ 1.5 hr ( case)	225/ 225/ 90 (case) =(total 540)	180	540	540
	Practical specialized training in dermatology, and venereology	60						
	***Scientific activities (not included in the total marks)	10						
<b>Total (2<sup>nd</sup> part MD degree)</b>		<b>100 CPs**</b>	<b>1800 marks</b>					
<b>Total (MD degree)</b>		<b>180 CPs</b>	<b>2400 marks</b>					

**\*Portfolio scores distributed in the different parts of the portfolio and its total score is included among the total mark of the second part**

**\*\*Every credit point equal 20 marks**

**\*\*\*Scientific activities are not included in the total marks**

#### **6-Program Admission Requirements**

- Registration for the program opens 2 times/year, according to the internal bylaws for postgraduate studies of the Faculty of Medicine, Suez Canal University.
- The program accepts candidates who:
  1. Have acquired bachelor degree in Medicine and Surgery.
  2. Have acquired MSc degree in the same speciality, with minimum grade good, any Egyptian governmental university, or any equivalent degree from any other university/institute accredited by the Supreme Council of Universities.
  3. provide an accredited written approval from the employer for program admission.
  4. fulfill the dermatology and andrology department's requirements for program admission.

#### **7- Student Assessment Methods**

- |                            |   |
|----------------------------|---|
| <b>7.1 Written (MEQ)</b>   | to assess the cognitive domain.                                 |
| <b>7.2 MCQs</b>            | to assess the cognitive domain                                  |
| <b>7.3 Oral Viva Cards</b> | to assess higher cognitive and attitude domains.                |
| <b>7.3 Observations</b>    | to assess practical and presentation skills.                    |
| <b>7.4 Portfolio</b>       | to assess the cognitive, psychomotor and the affective domains. |

#### **8- Weighting of Assessments**

**Type of exam****First part (30 credit points= 600 mark)**

- Written exam 470
- Oral and practical exam 130
- **Total** 600

**Second part (100 credit points including 10credit points not included in the total marks =1800 marks)**

- Oral exam 180
- Practical exam 540
- Written exam 540
- Portfolio 540
- **Total** 1800

**Total of the MD degree 2400****9- Regulations for Progression and Program Completion**

The regulations for program completion follow the regulations of MD degree of Dermatology in the Faculty of Medicine, Suez Canal University approved by the Supreme Council of Universities.

- **First part (40%)**

Passing level 60% of total marks of the exam

At least 50% passing level of the total written exam marks

- **Second part (60%)**

Passing level 60% of total written exam marks

Passing level 60% of total oral, and clinical/practical exam marks

- **Thesis/Assay**

Passing thesis defense is prerequisite for getting MD Degree

**10-Evaluation of Program Intended Learning Outcomes (ILOs)**

Evaluator	Tool	Sample
1- Postgraduate students	Needs assessment questionnaires	Random sample of participants
2- Alumni	Self-administered questionnaires	Comprehensive sample
3- Stakeholders	Self-administered questionnaires	Random sample
4-External Evaluator(s) (External Examiner(s))	External audit of the program specifications	
5- Other		

*Head of Dermatology, Venereology, and Andrology department  
Prof. Mona A. Atwa*

*Date: / 12/2019*