

## INTEGRATED TEACHING SHEET Dermatology and Plastic Surgery

Master's Degree in Medicine and Surgery

Integrated teaching: Dermatology and Plastic Surgery  
SSD :MED/35, MED/19

Verbalizing teacher name: **Picardo Mauro** 3 CFU MED/35;

**Module :Dermatology**

**SSD :MED/35**

Number of CFU: **3**

Teacher name: **Mauro Picardo** [mauro.picardo@unicamillus.org](mailto:mauro.picardo@unicamillus.org)  
<https://www.unicamillus.org/it/personnel/picardo-mauro/>

**Module :Plastic Surgery**

**SSD :MED/19**

Number of CFU: **1**

Name of the teacher: **Barbara Cagli** [barbara.cagli@unicamillus.org](mailto:barbara.cagli@unicamillus.org)

Teacher Name : **Maurizio Valeriani** [maurizio.valeriani@unicamillus.org](mailto:maurizio.valeriani@unicamillus.org)  
<https://www.unicamillus.org/it/personnel/cagli-barbara/>  
<https://www.unicamillus.org/it/personnel/valeriani-maurizio/>

### PREREQUISITES

There are no prerequisites for the course. However, it is essential that the student has the basic notions of anatomy, histology, biology and immunology

**EDUCATIONAL OBJECTIVES:** The integrated course of Dermatology and Plastic Surgery aims to provide the student with the basic elements for the clinical approach to the patient with dermatological and venereological pathologies through the learning of the dermatological clinical methodology, which includes the execution of a correct anamnesis (general and dermatological) and the objective skin examination, and the evaluation of elementary skin lesions. Dermatological diseases with a higher prevalence in the population, and therefore commonly observed by the family doctor, and severe skin diseases linked to systemic diseases, will be treated (pathogenesis, clinic, diagnosis and principles of therapy). The

pathologies will be addressed starting from the pathophysiological mechanisms, so that a link is created with the notions on the biological mechanisms learned in the previous courses. In addition, a diagnostic-therapeutic approach to the patient that takes into account evidence-based dermatology will be illustrated. The student will also be provided with the basic indications for the diagnosis, prophylaxis and therapy of the main venereal diseases.

## EXPECTED LEARNING OUTCOMES

### **Knowledge and understanding:**

Knowledge of the anatomy and physiology of the skin and skin glands;  
Know the elementary lesions of the skin.

To know the clinical characteristics of the main dermatological diseases with an infectious-inflammatory and oncological nature.

Know the pathogenetic mechanisms of the main dermatological diseases.

Learning of the main methods of non-invasive instrumental diagnostics and of the main medical and surgical therapies of dermatological competence.

At the end of the course the student must be able to

- carry out a correct medical history and skin physical examination,
- have the ability to integrate all the information collected through the anamnesis, the physical examination and the clinical-instrumental investigations, for a plausible interpretation of the clinical picture and the formulation of a diagnostic hypothesis.
- evaluate and integrate the characteristics of the dermatological clinical picture with the general state of the patient through a multidisciplinary approach.
- know the basics of dermatological therapies.
- know the basics of surgical approaches to skin and adnexal tumors, possible reconstructions and possibilities for aesthetic improvement.
- independently set up a topical and/or systemic or surgical treatment

**Applying knowledge and understanding:** The general objective of the integrated course of dermatology and plastic surgery is to learn the procedure to arrive at a diagnosis of dermatological diseases and the choice of the possible therapeutic strategy. The course aims to induce a reasoning ability starting from the patient's

anamnesis, the examination of the morphological aspects of skin manifestations and the evaluation of the symptoms to make a correct diagnosis. At the end of the course the student will have acquired the tools to understand and explain the pathogenetic mechanisms that underlie the main dermatological diseases.

**Communication skills:** The student will be able to adequately describe the clinical manifestations of the main dermatological diseases, their possible pathogenesis and the medical and / or surgical treatments, demonstrating that he has learned an appropriate language for the purpose of correct and rigorous communication with colleagues and with the patient.

**Making judgments:** At the end of the course the student will have learned the fundamental knowledge on dermatological diseases and on the possible medical and surgical treatments. He/she will be able to independently develop the logical procedures and diagnostic strategies that allow the patient to be framed. He will have acquired the ability to synthesize and correlate the various symptoms and critically use the results of laboratory investigations carried out with non-invasive and histological methods.

**Learning skills:** The student will have acquired adequate learning skills and methods for the deepening and improvement of their skills in the field of dermatology and plastic surgery, also through the consultation of scientific literature.

**Exam Program:**

## **Dermatology:**

### **1. Fundamentals of Anatomy and Physiology:**

- Classification and function of different skin and epidermal layers.
- Characteristics and activities of cell populations in the epidermis and dermis.
- Biochemistry of skin properties such as lipogenesis, sebogenesis, and melanogenesis.

### **2. Methodology and Specialized Semeiotics:**

- Introduction to skin evaluation methodology.
- Description of elementary skin lesions associated with characteristic diseases.

### 3. **Disease Categories:**

- Bacterial, fungal, viral diseases.
- Sexually transmitted diseases.
- Ectoparasitosis, acne, rosacea, alopecia, vitiligo.
- Eczematous diseases, urticaria, angioedema.
- Psoriasis, autoimmune bullous diseases, connective tissue diseases.
- Drug reactions, skin ulcers, benign proliferative lesions.
- Epithelial neoplasms, sarcoma di Kaposi, skin lymphomas.
- Nevus and melanoma.

Venereology:

#### 1. **Epidemiology and Prophylaxis:**

- Sexually transmitted diseases.
- Syphilis, gonorrhoea, non-gonococcal urethritis.
- HPV infections, genital herpes.

These objectives and exam programs provide a comprehensive overview of what students are expected to earn and achieve in the dermatology and venereology course.

## **Plastic, Reconstructive and Aesthetic Surgery:**

### SKIN TUMOUR

1. Melanoma skin cancer: epidemiology, classification, surgical and non surgical treatment.
2. Non-Melanoma skin cancer: epidemiology, classification, surgical and non surgical treatment.
3. Sarcoma: epidemiology, classification, surgical and non surgical treatment.

## BURNS

1. Definition
2. Epidemiology
3. Classification
4. Surgical, non surgical treatment and systemic therapy.

## SKIN GRAFT

1. Definition
2. Epidemiology
3. Classification
4. Surgical technique and clinical application.

## ETEROLOGOUS BREAST RECONSTRUCTION

1. Breast Tissue Expander, definitive implant, and permanent expandable implant.
2. Immediate and delay breast reconstruction: two- stage reconstruction and direct to implant (DTI) reconstruction.
3. Surgical technique: prepectoral vs retromuscular reconstruction.
4. Capsular contracture and radiation therapy.

## AUTOLOGOUS BREAST RECONSTRUCTION

1. Free flaps.
2. Pedicled Flaps.
3. Surgical technique: TRAM flap, DIEP flap, LATISSIMUS DORSII flap.

## AESTHETIC SURGERY

1. Aesthetic Surgery Body, face, breast
2. Selecting Patients for Aesthetic Surgery
3. Sedation for Aesthetic Surgery
4. Augmentation Mammoplasty and Breast Reduction
5. Mastopexy



UNICAMILLUS

6. Abdominoplasty
7. Facelift and Blepharoplasty
8. Rhinoplasty
9. Injections
10. Regenerative surgery
11. Scarring
12. Laser surgery indications and limits

### **TEACHING METHODS**

The course is divided into lectures, 30 hours of Dermatology and 10 hours of Plastic Surgery. Teachers use teaching tools such as presentations organized in PowerPoint files with explanatory diagrams, illustrations and images to describe the various dermatological pathologies. Films and animations will be used for integration of surgical processes. Discussions of simulated cases are planned. Attendance is mandatory.

### **HOW TO TEST LEARNING**

The exam consists of two parts: a written test and an oral test. The written test consists of multiple choice questions, with only one correct answer, on topics covered in class. The student answers 30 questions of Dermatology (each correct answer is given a score of 1) and 15 questions of Plastic Surgery (each correct answer is given a score of 2).

To access the oral exam the student must have achieved at least 18/30 in both subjects. The written exam is a barrier or selection test; It is in the oral exam that the student is given the opportunity to demonstrate his preparation by discussing the topics of the course, to reason on aspects of skin physiology and problems related to the pathogenesis, diagnosis and therapy of the main dermatological pathologies demonstrating that he has acquired the ability to express himself with an adequate scientific medical language. The final evaluation will be based mainly on the outcome of the oral exam.

In particular, the exam will be evaluated according to the following criteria:

Failed: important deficiencies and / or inaccuracies in knowledge and understanding of the topics;

limited capacity for analysis and synthesis, frequent generalizations.

18-20: knowledge and understanding of the subjects quite sufficient with possible imperfections;

ability to analyze, synthesis and sufficient judgment autonomy.

21-23: Knowledge and understanding of routine topics; Correct analysis and synthesis skills with

coherent logical argumentation.

24-26: Fair knowledge and understanding of the topics; good analysis and synthesis skills with

rigorously expressed arguments.

27-29: Knowledge and understanding of the subjects complete; remarkable analytical skills,

synthesis. Good independence of judgment.

30-30L: Excellent level of knowledge and understanding of the topics. Considerable analytical and

synthesis skills and autonomy of judgment. Arguments expressed in an original way.

## **RECOMMENDED TEXTS AND BIBLIOGRAPHY**

**Rook's Dermatology Handbook** Ingram. John R. , Ph.D. Simpson, Rosalind C.

Wile Blackwell eds 2022

**Essential Dermatology.** Bologna eds 2022

**Fitzpatrick's Dermatology in General Medicine** 9<sup>th</sup> Edition 2019 McGraw-Hill Education

## **PLASTIC SURGERY :**

**Handbook of Plastic, Reconstructive and Aesthetic Surgery**

Scuderi - Rubino - Edition 2014 Piccin

**Plastic, Reconstructive and Aesthetic Surgery**

Faga - Edizione III 2008 Elsevier – Masson

**Surgery, Reconstructive and Aesthetic Plastic**

V.Cervelli –B. Longo – 2021 Edition Pacini Legal

**Plastic and Aesthetic Regenerative Surgery and Fat Grafting**

Amin Klaaji - Volume I Edition 2022 Springer

Meeting with the teachers following appointment asked by email