

Degree in Medicine and Surgery

Integrated teaching: Dermatology and Plastic Surgery

SSD: **MED/35, MED/19**

Total Number of CFU: 5

Coordinator: [Simone Garcovich](#)

Module: Dermatology

SSD: **MED/35**

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(1 CFU)

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CFU: **3**

Module: Plastic Surgery

SSD: **MED/19**

Professor: [Maurizio Valeriani](#)

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Professor: [Roberto Valeriani](#)

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Number of CFU: **2**

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

Dermatology Program

LEARNING OBJECTIVES

The course aims to provide students with the basic elements for a clinical approach to the patient with dermatological and venereological conditions. It focuses on mastering the clinical methodology of dermatology, including accurate history taking (general and dermatological), objective examination of skin, mucosa and its appendages (hairs, nails), and assessment of elementary skin lesions. The curriculum covers pathogenesis, clinical features, diagnosis, and therapeutic principles—particularly for high-prevalence dermatoses commonly encountered by family physicians, as well as severe skin diseases associated with systemic conditions.

Skin disease will be discussed from a pathophysiological perspective to establish rational links with underlying biology, studied in previous courses. Additionally, a scientifically grounded diagnostic and therapeutic approach is illustrated to support evidence-based patient management. The student will also be provided with the basic indications for the diagnosis, prophylaxis and therapy of the main sexual-transmitted conditions.

LEARNING OUTCOMES

Upon completion of the course, students must be able to:

- Conduct a correct clinical anamnesis and perform an objective skin examination with proficiency.
- Integrate information from the anamnesis, clinical examination, and instrumental investigations to formulate a plausible clinical interpretation and diagnostic hypothesis.
- Independently develop appropriate treatment plans based on clinical findings.

- Evaluate and correlate dermatological manifestations with the overall systemic health of the patient using a multidisciplinary approach.

KNOWLEDGE AND UNDERSTANDING

DERMATOLOGY

- Fundamentals of anatomy and physiology of the skin, annexes and visible mucous membranes
- Methodology and specialized semeiotics, elementary skin lesion
- Eczematous diseases (atopic dermatitis, contact dermatitis, seborrheic dermatitis)
- Urticaria and angioedema
- Psoriasis
- Acne, rosacea and hidradenitis suppurativa
- Alopecia and hair-loss
- Vitiligo and pigmentation disorders
- Autoimmune bullous diseases (pemphigus, pemphigoids, dermatitis herpetiformis)
- Connective tissue diseases (Lupus erythematosus, scleroderma, dermatomyositis)
- Cutaneous adverse drug reactions (exanthemas, fixed erythema PEAG, Stevens-Johnson syndrome, Lyell syndrome)
- Benign skin tumors and proliferative lesions
- Keratinocyte cancer (actinic keratosis, cutaneous squamous cell carcinoma, basal cell carcinoma) and other non-melanoma skin cancer (primary cutaneous lymphomas, kaposi sarcoma)
- Melanocytic naevi
- Melanoma
- Bacterial diseases (erysipelas, cellulitis, furuncle, impetigo, folliculitis, Gram-intertrigo, scarlet fever)
- Fungal diseases (dermatophytosis, pityriasis versicolor, candidiasis)
- Viral diseases (herpes simplex, shingles, chickenpox, measles, HPV disease, molluscum contagiosum, hand-foot-mouth disease)
- Ectoparasitosis: scabies, pediculosis, insect bites

VENEREOLGY

- Epidemiology and prophylaxis of sexually transmitted diseases
- Syphilis: clinic, serology and therapy
- Gonorrhea and non-gonococcal urethritis
- Sexually transmitted HPV infections
- Genital herpes
- Cutaneous manifestations of HIV-infection

A comprehensive educational objective for the integrated course of Dermatology and Plastic Surgery. It effectively outlines the foundational skills and knowledge that students will gain, focusing on:

1. **Clinical Methodology:** Emphasizing the importance of thorough anamnesis and objective skin examination to identify dermatological conditions.
2. **Prevalent Diseases:** Covering common dermatological and venereological pathologies that future family doctors are likely to encounter, alongside more severe skin conditions related to systemic diseases.

3. **Pathophysiological Mechanisms:** Connecting clinical symptoms with underlying biological mechanisms, reinforcing the integration of knowledge from previous courses.
4. **Evidence-Based Approach:** Teaching students how to approach diagnosis and treatment based on current evidence, promoting effective clinical practice.
5. **Venereal Diseases:** Providing essential knowledge on the diagnosis, prevention, and treatment of major venereal diseases.

This integrated approach not only prepares students for clinical practice but also fosters a deeper understanding of the interplay between dermatology and systemic health.

Plastic, Reconstructive Surgery (Prof. Roberto Valeriani):

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 (Prof. Maurizio Valeriani):

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

5. Mastopexy
6. Abdominoplasty
7. Facelift and Blepharoplasty
8. Rhinoplasty
9. Injections
10. Regenerative surgery

Scarring Laser surgery indications and limits

COURSE STRUCTURE

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. The course includes an interdisciplinary seminar on skin cancer, integrating pathogenesis, medical and surgical management of skin cancer, with a dynamic interaction between specialists in dermatology and plastic surgery.

COURSE GRADE DETERMINATION

The exam consists of a written test. The written test includes multiple-choice questions, each with only one correct answer, with no penalties for incorrect answers. The exam will be passed only in the case of a minimum score of correct answers for both dermatology and plastic surgery. An additional, optional oral examination will be proposed to modify the overall score. During the oral exam, the student will have the opportunity to demonstrate their knowledge by discussing the topics of the course, reasoning about issues related to the subjects covered, and showing the ability to express themselves using appropriate scientific language. The optional oral examination may modify the final vote in a range of ± 5 points.

RECOMMENDED TEXTS AND BIBLIOGRAPHY

Rook's Dermatology Handbook Ingram. John R. , Ph.D. Simpson, Rosalind C. Wiley Blackwell eds 2022

Essential Dermatology. Bologna eds 2022

Fitzpatrick's Dermatology in General Medicine 9th 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 online appointment is possible for both online and live tutoring, according to the university rules.