



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Biomedicina, Neuroscienze e Diagnostica avanzata		
<b>ACADEMIC YEAR</b>	2020/2021		
<b>MASTER'S DEGREE (MSC)</b>	MEDICINE AND SURGERY		
<b>INTEGRATED COURSE</b>	SYSTEMATIC PATHOLOGY II - INTEGRATED COURSE		
<b>CODE</b>	13248		
<b>MODULES</b>	Yes		
<b>NUMBER OF MODULES</b>	2		
<b>SCIENTIFIC SECTOR(S)</b>	MED/17, MED/35		
<b>HEAD PROFESSOR(S)</b>	BONGIORNO MARIA	Professore Ordinario	Univ. di PALERMO
	RITA		
	DI CARLO PAOLA	Professore Associato	Univ. di PALERMO
	CASCIO ANTONIO	Professore Ordinario	Univ. di PALERMO
<b>OTHER PROFESSOR(S)</b>	BONGIORNO MARIA	Professore Ordinario	Univ. di PALERMO
	RITA		
	CAPUTO VALENTINA	Ricercatore	Univ. di PALERMO
	PISTONE GIUSEPPE	Professore Associato	Univ. di PALERMO
	DI CARLO PAOLA	Professore Associato	Univ. di PALERMO
	CASCIO ANTONIO	Professore Ordinario	Univ. di PALERMO
<b>CREDITS</b>	6		
<b>PROPAEDEUTICAL SUBJECTS</b>	17453 - PATHOPHYSIOLOGY AND MEDICAL METHODOLOGY - INTEGRATED COURSE		
<b>MUTUALIZATION</b>			
<b>YEAR</b>	3		
<b>TERM (SEMESTER)</b>	2° semester		
<b>ATTENDANCE</b>	Mandatory		
<b>EVALUATION</b>	Out of 30		
<b>TEACHER OFFICE HOURS</b>	<p><b>BONGIORNO MARIA RITA</b> Monday 10:00 11:00 UOC di dermatologia</p> <p><b>CAPUTO VALENTINA</b> Tuesday 11:00 13:00 Clinica Dermatologica Via del Vespro 131 Palermo Thursday 11:00 13:00 Clinica Dermatologica Via del Vespro 131 Palermo</p> <p><b>CASCIO ANTONIO</b> Tuesday 13:00 14:00 Studio presso UOC di Malattie Infettive - AOU Policlinico "P. Giaccone" Thursday 13:00 14:00 Studio presso UOC di Malattie Infettive - AOU Policlinico "P. Giaccone"</p> <p><b>DI CARLO PAOLA</b> Tuesday 12:30 14:30 Day Hospital di Malattie Infettive, sito dietro aula Ascoli Thursday 9:00 12:00 U.O.C. di Malattie infettive</p> <p><b>PISTONE GIUSEPPE</b> Monday 13:00 14:00 UOC di Dermatologia e MTS</p>		

<b>PREREQUISITES</b>	To have basic knowledge of microbiology and laboratory medicine
<b>LEARNING OUTCOMES</b>	<p><b>INTENDED LEARNING OUTCOMES</b>                  Knowledge and understanding                  At the end of the course, students should demonstrate that they have a sound knowledge of the anatomy and physiology of the skin to keep the skin in a healthy state, and a good understanding of pathological changes; that they know the fundamental biological and pathological defence mechanisms of the immune system; that they have knowledge of dermatological pathologies from a nosographic, etiopathogenic, physiopathological and clinical perspective, in a unitary and global vision of human pathology; that they are able to critically evaluate and correlate clinical symptoms and physical signs, interpreting the mechanisms that produce them and analysing their clinical significance.                  Students should demonstrate knowledge of the dynamic relationship between microorganism and host during interaction between pathogen and the human organism, and of relevant defence mechanisms; moreover, they should have a sound knowledge of symptoms and clinical signs of both systemic and localized infectious disease, through careful evaluation of the continuous interaction between infectious agent and immune system, which is determined by the pathogenic characteristics of the individual microorganisms, taking into consideration epidemiological changes and infectious disease emergencies over the last few decades.</p> <p>Ability to apply knowledge and understanding                  At the end of the course, students should demonstrate clinical reasoning skills that enable them to analyse and resolve the most common and relevant clinical problems in the fields of dermatology and infectious diseases, in the light of diagnostic developments that consider and unite the sectors of molecular diagnostics and morphological characterization; they should have sound knowledge of the main and most recent laboratory diagnostic methods, and have the ability to propose the correct laboratory diagnostic procedure and evaluate costs and benefits, as well as be able to rationally interpret laboratory results.</p> <p>Autonomy of judgement                  Students should be able to independently adopt the appropriate clinical and laboratory method for good clinical-therapeutic management. They should know how to correctly interpret infectious disease surveillance and monitoring systems both in a hospital and in the community in order to manage outbreaks. Finally, they should have acquired knowledge of counselling delivery procedures in infectious diseases.</p> <p>Communication skills                  Students should know how to clearly communicate their conclusions and relevant knowledge to specialists and non-specialists.</p>
<b>ASSESSMENT METHODS</b>	<p>Oral exam. The candidate will have to answer at least four questions posed orally, at least two for each of the two modules, covering the different parts of the program, with reference to the recommended texts. Final assessment aims to evaluate whether the student has knowledge and understanding of the topics, has acquired the skills to interpret the notions and judge independently. The evaluation is expressed using a 30-point scale.</p> <p>ECTS grades: A – A+ Excellent (30-30 cum laude) - Grade descriptors : Excellent knowledge of teaching contents; students should show high analytical and synthetic capabilities and should be able to apply their knowledge to solve highly complex problems.</p> <p>ECTS grade : B Very good (27-29) - Grade descriptors: Good knowledge of the teaching contents and excellent language control; students should show analytical and synthetic skills and be able to apply their knowledge to solve problems of medium and, in some cases, even higher complexity.</p> <p>ECTS grade: C Good (24-26)- Grade descriptors: Good knowledge of teaching contents and good language control; the students should be able to apply their knowledge to solve problems of medium complexity</p> <p>ECTS grade: D Satisfactory (21-23)- Grade descriptors: Average knowledge of the teaching contents, in some cases limited to the main topic; acceptable ability to use the specific discipline language and independently apply the acquired knowledge.</p> <p>ECTS grade: E Sufficient (18-20) - Grade descriptors: Minimum teaching content knowledge, often limited to the main topic; modest ability to use the subject specific language and independently apply the acquired knowledge.</p> <p>ECTS grade: F Fail (1-17) - Grade descriptors: Lack of an acceptable knowledge of the main teaching content knowledge; very little or no ability to use the specific subject language and apply independently the acquired knowledge.</p> <p>Exam failed</p>
<b>TEACHING METHODS</b>	lessons

**DOCENTE:** Prof.ssa MARIA RITA BONGIORNO- Sede *CHIRONE*

<b>PREREQUISITES</b>	The student must be able to use their knowledge of anatomy, biology, physiology, and cutaneous immunology to understand the genesis and the functional and morphologic changes of the main infectious, inflammatory, and autoimmune dermatologic conditions. The student must learn the pathogenesis, physiopathology, the clinical signs, and the fundamental basics of therapy of the most common skin diseases and must be able to perform a correct clinical examination.
<b>LEARNING OUTCOMES</b>	<p>Knowledge and understanding - They must demonstrate that they have acquired knowledge of the anatomy and physiology of the skin for the purpose of maintaining the greeting and understanding of the pathological changes; knowledge of the basic biological defense mechanisms and pathological mechanisms of the immune system and knowledge of the relationship between microorganisms and hosts in infections, as well as the related defense mechanisms; specific systematic knowledge of the most relevant dermatological and infectious pathologies, from a nosographic, etiopathogenetic, pathophysiological and clinical profile, in the context of a unitary and global vision of human pathology and the ability to critically evaluate and correlate my clinical trials, the signs physicists interpreting the production mechanisms and deepening their clinical significance; the clinical reasoning ability is to identify and solve the most common and relevant clinical problems of both dermatological and infectious clinical interest; knowledge of the main and most up-to-date laboratory diagnostic methods as well as the ability to offer the various procedures correctly laboratory diagnostics, cost and benefit assessment and rational interpretation of laboratory data.</p> <p>The autonomy of judgment They must demonstrate the ability and sensitivity to insert the specialist problems of the integrated course into a broader vision of the person's general greeting status and its general causes of well-being and the ability to integrate into a global and unitary assessment of the state overall greeting of the individual the symptoms, signs, and alterations repaired and functioning by aggregating them from a preventive, diagnostic and therapeutic point of view; the ability to analyze and solve clinical dermato-venereological and infectious problems by evaluating the relationships between benefits, risks and costs in the light of the principles of evidence-based medicine and the appropriate therapeutic diagnostic cup. He must be able to correctly interpret the surveillance and monitoring systems of infectious diseases both in the hospital and community settings for the management of outbreaks.</p> <p>Communication skills They must demonstrate the ability to communicate clearly and humanity with the patient not only as regards the clinical aspects but also those related to problems, educational, social, and ethical involved in the prevention, diagnosis, and treatment of pathology; ability to expose results even to a non-expert audience.</p>
<b>ASSESSMENT METHODS</b>	Oral Test
<b>TEACHING METHODS</b>	Theoretical courses Clinical clerkship -Operative Units of Dermatology and Infectious Diseases, AOUP

**MODULE  
INFECTIOUS DISEASES**

*Prof. ANTONIO CASCIO - Sede CHIRONE, - Sede CHIRONE*

**SUGGESTED BIBLIOGRAPHY**

Malattie infettive di: Roberto Esposito, Mauro Moroni, Spinello Antinori Editore: Edra Masson Edizione: 8

<b>AMBIT</b>	50408-Medicina di comunità
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<b>INDIVIDUAL STUDY (Hrs)</b>	45
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<b>COURSE ACTIVITY (Hrs)</b>	30
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**EDUCATIONAL OBJECTIVES OF THE MODULE**

To acquire knowledge on the clinical and diagnostic features of infectious diseases in the immunocompetent and immunocompromised patient

**SYLLABUS**

Hrs	Frontal teaching
2	General information on infectious diseases epidemiology, clinical and laboratory diagnosis
3	sepsis and septic shock, endocarditis. Fever of unknown origin (FUO)
2	Airway infections: Epidemiology of respiratory tract infections (community and nosocomial infections), etiology of upper and lower respiratory tract infections, Viral and Bacterial Pneumonia, bacterial exacerbations of chronic bronchitis
2	Gastrointestinal infections
2	The genitourinary tract infections: Infections of the upper and lower urinary tract; syndromic approach and epidemiological the major sexually transmitted infections
3	AIDS, infectious mononucleosis
2	Infections of the central nervous system: meningitis, encephalitis, brain abscess; meningococcal disease
4	Brucellosis, leptospirosis, typhoid fever, tick borne diseases
2	The osteo-articular infections: Osteomyelitis, septic arthritis
2	malaria, tuberculosis
4	Acute and chronic viral hepatitis; Parasitic diseases; Nosocomial infections
2	Principles of anti-infective therapy; Isolation measures for infected patients

**MODULE  
INFECTIOUS DISEASES**

*Prof. ANTONIO CASCIO - Sede IPPOCRATE, - Sede IPPOCRATE*

**SUGGESTED BIBLIOGRAPHY**

Capitolo di Malattie Infettive in Harrison. Principi di Medicina Interna, McGraw Hill, MORONI e Coll. MALATTIE INFETTIVE Ed.Masson – 7° Ed

<b>AMBIT</b>	50408-Medicina di comunità
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

Objective of the module is the description of the epidemiology , etiology , pathogenesis, symptoms and prognosis of infectious diseases more' frequently observed in clinical practice . The course is completed by the description of some of the more common running laboratory diagnostic techniques in practice current infectious disease and by the basis of anti - infective therapy.

**SYLLABUS**

<b>Hrs</b>	<b>Frontal teaching</b>
3	HIV infection and opportunistic infection
3	viral hepatitis
3	Infections of the upper and lower respiratory tract. Pneumonia
3	tuberculosis . Natural History and diagnostic approach
4	Meningitis and meningococcal disease
6	The anthroozoonoses : Leishmaniasis , Rickettsioses , Brucellosis , Toxoplasmosis , Echinococcosis
4	exanthematous diseases : measles, rubella , chickenpox , scarlet fever
2	By importing diseases . Malaria
1	sepsis
1	enteritis.typhus

**MODULE  
CUTANEOUS AND VENEREAL DISEASES**

*Prof. GIUSEPPE PISTONE - Sede IPPOCRATE, - Sede IPPOCRATE*

**SUGGESTED BIBLIOGRAPHY**

<b>AMBIT</b>	50419-Clinica delle specialità medico-chirurgiche
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

**MODULE  
CUTANEOUS AND VENEREAL DISEASES**

*Prof.ssa MARIA RITA BONGIORNO - Sede CHIRONE, - Sede CHIRONE*

**SUGGESTED BIBLIOGRAPHY**

- Manuale di dermatologia medica e chirurgica di Tullio Cainelli, Alberto Giannetti, Alfredo Rebora
- Manuale di dermatologia medica di Paolo Fabbri, Carlo Gelmetti, Giorgio Leigheb

**AMBIT** 50419-Clinica delle specialità medico-chirurgiche

**INDIVIDUAL STUDY (Hrs)** 45

**COURSE ACTIVITY (Hrs)** 30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

The student must be able to use their knowledge of anatomy, biology, physiology, and cutaneous immunology to understand the genesis and the functional and morphologic changes of the main infectious, inflammatory and autoimmune dermatologic conditions. The student must learn the pathogenesis, physiopathology, the clinical signs and the fundamental basics of therapy of the most common skin diseases and must be able to perform a correct clinical examination

**SYLLABUS**

Hrs	Frontal teaching
2	The function and structure of the skin – Diagnosis of skin disorders – Cutaneous immunology
2	Urticaria
2	Genodermatoses (Ehlers- Danlos syndrome, Urbach-Wiethe syndrome, Anderson-Fabry syndrome, Tuberous Sclerosis, Neurofibromatosis)
2	Disorders of keratinization (Psoriasis, Ichthyosis, Exfoliative dermatitis)
2	Dermatitis and Eczema (Allergic contact eczema, Irritant contact eczema, Atopic eczema)
2	Bullous diseases (Pemphigus, Pemphigoid, Epidermolysis Bullosa, Dermatitis Herpetiformis)
2	Sexually transmitted diseases (Gonorrhea, Syphilis, Chlamydia infections)
1	Acne, Rosacea, hidradenitis suppurativa
1	Diseases caused by viruses (Herpesvirus, Papillomavirus; Poxvirus; Coxsackievirus)
2	Dermatomycoses
2	Diseases caused by bacteria
1	Defluvium
2	Epizoonoses (Pediculosis, Scabies)
2	Drug eruption (Scarlatiniform, Morbilliform or Rubeoliform drug eruption, Erythema multiforme, Stevens-Johnson syndrome, Lyell's syndrome)
2	Diseases of connective tissue (Sclerodermas, Lupus Erythematosus, Dermatomyositis)
1	Skin reactions to UV radiation
2	Malignant Epithelial Tumors Benign Melanocytic Tumors Malignant Melanoma Kaposi's Sarcoma

## MODULE INFECTIOUS DISEASES

*Prof.ssa PAOLA DI CARLO - Sede HYPATIA, - Sede HYPATIA*

### SUGGESTED BIBLIOGRAPHY

#### PRACTICAL WORK

Clinical cases

**RECOMMENDED READING**The lecturer will provide all the course material through the unipa website, Mauro Moroni, Manual of INFECTIOUS DISEASES, latest edition.

<b>AMBIT</b>	50408-Medicina di comunità
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

### EDUCATIONAL OBJECTIVES OF THE MODULE

#### INTENDED LEARNING OUTCOMES

##### Knowledge and understanding

At the end of the course, students should demonstrate that they have a sound knowledge of the anatomy and physiology of the skin to keep the skin in a healthy state, and a good understanding of pathological changes; that they know the fundamental biological and pathological defence mechanisms of the immune system; that they have knowledge of dermatological pathologies from a nosographic, etiopathogenic, physiopathological and clinical perspective, in a unitary and global vision of human pathology; that they are able to critically evaluate and correlate clinical symptoms and physical signs, interpreting the mechanisms that produce them and analysing their clinical significance.

Students should demonstrate knowledge of the dynamic relationship between microorganism and host during interaction between pathogen and the human organism, and of relevant defence mechanisms; moreover, they should have a sound knowledge of symptoms and clinical signs of both systemic and localized infectious disease, through careful evaluation of the continuous interaction between infectious agent and immune system, which is determined by the pathogenic characteristics of the individual microorganisms, taking into consideration epidemiological changes and infectious disease emergencies over the last few decades.

##### Ability to apply knowledge and understanding

At the end of the course, students should demonstrate clinical reasoning skills that enable them to analyse and resolve the most common and relevant clinical problems in the fields of dermatology and infectious diseases, in the light of diagnostic developments that consider and unite the sectors of molecular diagnostics and morphological characterization; they should have sound knowledge of the main and most recent laboratory diagnostic methods, and have the ability to propose the correct laboratory diagnostic procedure and evaluate costs and benefits, as well as be able to rationally interpret laboratory results.

##### Autonomy of judgement

Students should be able to independently adopt the appropriate clinical and laboratory method for good clinical-therapeutic management. They should know how to correctly interpret infectious disease surveillance and monitoring systems both in a hospital and in the community in order to manage outbreaks. Finally, they should have acquired knowledge of counselling delivery procedures in infectious diseases.

##### Communication skills

Students should know how to clearly communicate their conclusions and relevant knowledge to specialists and non-specialists.

#### ECTS gradetalian GradeGrade descriptors

A – A+ Excellent30-30 cum laude EccellenteExcellent knowledge of teaching contents; students should show high analytical and synthetic capabilities and should be able to apply their knowledge to solve highly complex problems.

B Very good27-29, Very good knowledge of the teaching contents and excellent language control; students should show analytical and synthetic skills and be able to apply their knowledge to solve problems of medium and, in some cases, even higher complexity.

C Good24- 26, BuonoGood knowledge of teaching contents and good language control; the students should be able to apply their knowledge to solve problems of medium complexity

D Satisfactory21-23 Average knowledge of the teaching contents, in some cases limited to the main topic; acceptable ability to use the specific discipline language and independently apply the acquired knowledge.

E Sufficient18-20 SufficienteMinimum teaching content knowledge, often limited to the main topic; modest ability to use the subject specific language and independently apply the acquired knowledge.

F FailInsufficienteLack of an acceptable knowledge of the main teaching content knowledge; very little or no ability to use the specific subject language and apply independently the acquired knowledge.

## SYLLABUS

Hrs	Frontal teaching
3	Principles of pathogenesis, diagnostic and clinical approach to some infectious diseases which impact on workplacement and risk groups, Principles of infectious disease transmission
3	The natural history of HIV infection, changes in risk factors and epidemiological trend, diagnostic instruments, clinical presentations (including the main opportunistic infections), therapeutic and preventive skills.
1	Sexual trans-mitted disease: trend, diagnosis and prevention by age

1	counselling of infectious disease by age and disease, Privacy police in infectious diseases by age and cultural habits
2	respiratory infection Disease epidemiology, etiology and pathogenesis, in acute and chronic phase, different clinical presentations, and therapeutic approach with particular reference to community- and hospital-acquired pneumonia in a multidisciplinary management contex
2	Skin rashes Infectious Disease and the healthcare environment in childhood by age and mother - child health care
2	Infectious Diseases and the Liver: old and emerging disorders
3	meningitis and meningococcal disease
3	sepsis 2019 guidelines
2	Infective Endocarditis (Guidelines on Prevention, Diagnosis and management)
2	nosocomial infections
2	Cytomegalocirus, Toxoplasmosis and Epstein Barr virus infection: trand, risk groups, clinica features and complications
2	thropical disease
2	infectious diseases from animals to humans through direct contact or though food, water, and the environment, are commonly referred to as "zoonoses.": old and emerging disease SARS COVID 2 infection

## MODULE CUTANEOUS AND VENEREAL DISEASES

*Prof.ssa VALENTINA CAPUTO - Sede HYPATIA, - Sede HYPATIA*

### SUGGESTED BIBLIOGRAPHY

Cainelli, Giannetti, Rebora. Manuale di Dermatologia Medica e Chirurgica, Mcgraw-Hill  
Pippione, Amerio, Bernengo Dermatologia e Venereologia. Edizioni Minerva medica

<b>AMBIT</b>	50419-Clinica delle specialità medico-chirurgiche
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

### EDUCATIONAL OBJECTIVES OF THE MODULE

Students should know structure, biology, physiology and immunology of the skin to understand the genesis, the morphological and functional alterations of major infectious, inflammatory, autoimmune cutaneous diseases. Students must learn the pathogenesis, the pathophysiology, the clinical findings and the therapy of the main cutaneous and venereal diseases, and they be able to demonstrate a correct clinical examination using peculiar semeiotics essays.

## SYLLABUS

Hrs	Frontal teaching
2	Structure and physiology of the skin
2	Scabies, pediculosis, leishmaniasis
2	Epidemiology, pathogenesis, clinical findings and diagnosis of viral, bacterial, fungal diseases
2	Epidemiology, pathogenesis, clinical findings and diagnosis of contact dermatitis and atopic dermatitis.
2	Epidemiology, pathogenesis, clinical findings and diagnosis of psoriasis
2	Epidemiology, pathogenesis, clinical findings and diagnosis of acne vulgaris and rosacea
2	Epidemiology, pathogenesis, clinical findings and diagnosis of urticaria and angioedema
2	Epidemiology, pathogenesis, clinical findings and diagnosis of bullous disorders
2	Epidemiology,pathogenesis, clinical findings and diagnosis of dermal connective tissue
2	Epidemiology, pathogenesis, clinical findings and diagnosis of the cutaneous reactions to drugs
2	Epithelial precancerous lesions
2	Epidemiology, pathogenesis, clinical findings and diagnosis of lichen planus
2	Epidemiology, pathogenesis, clinical findings and diagnosis of melanocytic nevi and cutaneous melanoma
2	Epidemiology, pathogenesis, clinical findings and diagnosis of benign and malignant epithelial tumors
2	Epidemiology, pathogenesis, clinical findings and diagnosis of sexually transmitted diseases.