



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Biomedicina, Neuroscienze e Diagnostica avanzata		
<b>ACADEMIC YEAR</b>	2022/2023		
<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		
	PISTONE GIUSEPPE	Professore Associato	Univ. di PALERMO
	DI CARLO PAOLA	Professore Associato	Univ. di PALERMO
<b>OTHER PROFESSOR(S)</b>	BONGIORNO MARIA	Professore Ordinario	Univ. di PALERMO
	RITA		
	CAPUTO VALENTINA	Ricercatore	Univ. di PALERMO
	COLOMBA CLAUDIA	Professore Ordinario	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</b>  <b>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>COLOMBA CLAUDIA</b>  Monday 09:00 11:00 UOC Malattie infettive</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>		

**DOCENTE:** Prof. GIUSEPPE PISTONE- Sede IPPOCRATE

<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>	Knowledge and capacity of comprehension Students are expected to demonstrate 1) knowledge of anatomy and physiology of the skin in healthy and pathological conditions; 2) knowledge of basic physiological and pathological immunologic mechanisms and the relationship between microorganisms and the human immunologic system; 3) knowledge of the principal dermatological and infectious diseases and their nosographic, etiopathogenetic, physiopathologic, and clinical aspects; 4) ability to critically elucidate the underlying mechanism of symptoms and understand their clinical relevance; 5) ability to demonstrate clinical thinking which includes application of knowledge and judgment to various infective and dermatologic clinical scenarios; 6) ability to know how to choose appropriate laboratory techniques and interpret their results. Autonomy in clinical judgment. Students are expected 1) to consider specialistic clinical conditions in the context of a comprehensive vision of human well-being, and to integrate preventive, diagnostic, and therapeutic strategies; 2) to demonstrate the ability to approach dermato-venereology and infective diseases based on scientific evidence and diagnostic therapeutic adequacy; 3) to interpret monitoring systems of infectious diseases in dealing with outbreak in hospital settings as well as in the community. Communicative skills. Students are expected to communicate clearly and humanely with patients and their relatives, providing empathy and respect, during the preventive, diagnostic, and therapeutic phases of clinical care. Importantly, students are expected to demonstrate the ability to use lay language when appropriate. Learning skills. Students are expected to demonstrate the ability to learn topics presented in the course and to use online and offline resources to perform bibliographic research. Students are expected to gain a basic understanding of critically appraising the literature
<b>ASSESSMENT METHODS</b>	Oral exam
<b>TEACHING METHODS</b>	Theoretical courses Clinical clerkship -Operative Units of Dermatology and Infectious Diseases, AOUP

**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>	Knowledge and capacity of comprehension Students are expected to demonstrate 1) knowledge of anatomy and physiology of the skin in healthy and pathological conditions; 2) knowledge of basic physiological and pathological immunologic mechanisms and the relationship between microorganisms and the human immunologic system; 3) knowledge of the principal dermatological and infectious diseases and their nosographic, etiopathogenetic, physiopathologic, and clinical aspects; 4) ability to critically elucidate the underlying mechanism of symptoms and understand their clinical relevance; 5) ability to demonstrate clinical thinking which includes application of knowledge and judgment to various infective and dermatologic clinical scenarios; 6) ability to know how to choose appropriate laboratory techniques and interpret their results. Autonomy in clinical judgment. Students are expected 1) to consider specialistic clinical conditions in the context of a comprehensive vision of human well-being, and to integrate preventive, diagnostic, and therapeutic strategies; 2) to demonstrate the ability to approach dermatovenereology and infective diseases based on scientific evidence and diagnostic therapeutic adequacy; 3) to interpret monitoring systems of infectious diseases in dealing with outbreak in hospital settings as well as in the community. Communicative skills. Students are expected to communicate clearly and humanely with patients and their relatives, providing empathy and respect, during the preventive, diagnostic, and therapeutic phases of clinical care. Importantly, students are expected to demonstrate the ability to use lay language when appropriate. Learning skills. Students are expected to demonstrate the ability to learn topics presented in the course and to use online and offline resources to perform bibliographic research. Students are expected to gain a basic understanding of critically appraising the literature
<b>ASSESSMENT METHODS</b>	Oral test
<b>TEACHING METHODS</b>	Theoretical courses Clinical clerkship -Operative Units of Dermatology and Infectious Diseases, AOUP

<p><b>PREREQUISITES</b></p>	<p>The student must be able to use the knowledge of skin anatomy, biology, physiology and immunology to understand the genesis, morphological and functional alterations of the main dermatological diseases of an infectious, inflammatory and autoimmune nature. Furthermore, the student must learn the pathogenesis, the physiopathology, the clinic and the fundamental elements therapy of the main skin and venereal diseases and be able to perform a correct clinical examination through the use of peculiar semeiologici essays</p>
<p><b>LEARNING OUTCOMES</b></p>	<p><b>INTENDED LEARNING OUTCOMES</b>  <b>Knowledge and understanding</b>                  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 can critically evaluate and correlate clinical symptoms and physical signs, interpreting the mechanisms that produce them and analyzing 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.  <b>Ability to apply knowledge and understanding</b>                  At the end of the course, students should demonstrate clinical reasoning skills that enable them to analyze 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. <b>Autonomy of judgement:</b> 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 hospital setting than in the community to manage outbreaks. Finally, they should have acquired knowledge of counselling delivery procedures in infectious diseases.  <b>Communication skills:</b> students must develop those autonomous learning skills that allow them to deal with the study of subsequent disciplines.</p>
<p><b>ASSESSMENT METHODS</b></p>	<p>ECTS grade Italian Grade Grade descriptors                  A – A+ Excellent 30-30 cum laude Eccellente 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.                  B Very good 27-29, 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 Good 24- 26, Buono Good knowledge of teaching contents and good language control; the students should be able to apply their knowledge to solve problems of medium complexity                  D Satisfactory 21-23 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 Sufficient 18-20 Sufficiente Minimum teaching content knowledge, often limited to the main topic; modest ability to use the subject specific language and independently apply the acquired knowledge.                  F Fail Insufficiente 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><b>TEACHING METHODS</b></p>	<p>Traditional lectures, supported by images and video, accompanied by interactive teaching in clinical setting</p>

**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
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**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. Exanthematous diseases

**MODULE  
CUTANEOUS AND VENEREAL DISEASES**

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

**SUGGESTED BIBLIOGRAPHY**

- Manuale di dermatologia medica e chirurgica di Tullio Cainelli, Alberto Giannetti, Alfredo Rebora  
ISBN-13 978-8838615344  
- Manuale di dermatologia medica di Paolo Fabbri, Carlo Gelmetti, Giorgio Leigheb  
ISBN-13 978-8821437533

<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**

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**

<b>Hrs</b>	<b>Frontal teaching</b>
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 CLAUDIA COLOMBA - 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**

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

**SYLLABUS**

Hrs	Frontal teaching
3	General information on infectious diseases epidemiology, clinical and laboratory diagnosis
3	sepsis and septic shock, endocarditis. Fever of unknown origin (FUO)
3	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
4	exanthematous diseases : measles, rubella , chickenpox , scarlet fever
3	tuberculosis, Malaria
3	Infections of the central nervous system: meningitis, encephalitis, brain abscess; meningococcal disease
3	Brucellosis, leptospirosis, typhoid fever, tick borne diseases
1	TORCH

**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  
ISBN-13 978-8838615344
- Manuale di dermatologia medica di Paolo Fabbri, Carlo Gelmetti, Giorgio Leigh
- ISBN-13 978-8821437533

<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**

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 (Gonorrhoea, 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**

Malattie infettive di: Roberto Esposito, Mauro Moroni, Spinello Antinori Editore: Edra Masson Edizione: 8; ISBN: 882143690X

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

**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. Exanthematous diseases

**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
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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**

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. Dermatological semeiotics.
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.