

UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neurosci	enze e Diagnostica avanzata	
ACADEMIC YEAR	2016/2017		
MASTER'S DEGREE (MSC)	MEDICINE AND SURGERY		
INTEGRATED COURSE	INTERNAL MEDICINE - INTEGRATED COURSE		
CODE	05000		
MODULES	Yes		
NUMBER OF MODULES	3		
SCIENTIFIC SECTOR(S)	MED/09		
HEAD PROFESSOR(S)	RIZZO MANFREDI	Professore Ordinario Univ. di PALERMO	
	BARBAGALLO MARIO	Professore Ordinario Univ. di PALERMO	
OTHER PROFESSOR(S)	CARROCCIO ANTON	O Professore Ordinario Univ. di PALERMO	
	RIZZO MANFREDI	Professore Ordinario Univ. di PALERMO	
	BARBAGALLO MARIO	Professore Ordinario Univ. di PALERMO	
	VERONESE NICOLA	Professore Associato Univ. di PALERMO	
	TUTTOLOMONDO ANTONINO	Professore Ordinario Univ. di PALERMO	
	DI CHIARA TIZIANA	Ricercatore Univ. di PALERMO	
	NARDI EMILIO	Professore Associato Univ. di PALERMO	
CREDITS	12		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	6		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	BARBAGALLO MARIO		
	Tuesday 11:30 12:30	Direzione UOC Geriatria	
	CARROCCIO ANTONIO		
	Monday 17:30 19:30	Istituto di Medicina interna e Geriatria, I piano, corridoio "Direzione"	
	DI CHIARA TIZIANA		
	Tuesday 11:00 13:00	Divisione di Medicina Interna e Cardioangiologia	
	Thursday 11:00 13:00	Divisione di Medicina Interna e Cardioangiologia	
	NARDI EMILIO		
	Wednesday 12:00 14:00	Laboratorio di Ecocardiografia presso Medicina Interna (Prof.Averna)	
	RIZZO MANFREDI		
	Monday 12:00 13:00	presso la mia stanza sita nel Dipartimento DIBIMIS, previo conferma telefonica al numero 091.6552945	
	TUTTOLOMONDO ANTONINO		
	Friday 11:00 12:00	ex istituto di Clinica Medica, Piazza delle Cliniche n. 2, secondo piano(per informazioni rivolgersi al punto giallo in portineria)	
	VERONESE NICOLA		

DOCENTE: Prof. MANFREDI RIZZO- Sede HYPATIA

PREREQUISITES	The student must have acquired specific skills in the diagnosis of diseases that have been addressed in the course of Systematic Pathology I, II, III and IV.
	The student must have passed the exam of Pathology
LEARNING OUTCOMES	Knowledge and understanding To be able to collect a complete medical history (epidemiological, clinical and socio-environmental), to perform a complete physical examination, formulate diagnostic hypotheses and prescribe treatment. The history should be based primarily on knowledge from the medicine based
	The student must know the tools of evidence-based medicine that allow a rational approach to the patient. The student should know how to evaluate the accuracy of diagnostic tests, how to evaluate the course of the disease and the methodology of controlled trials.
	necessary for the diagnosis and what are the therapies that are currently listed, as well as learn about the etiology and natural history of acute and chronic diseases.
	Knowledge and ability to implement key interventions biochemical, pharmacological, surgical, psychological, social and otherwise, in acute and chronic illness, rehabilitation and type of terminal care. Knowing how to correctly perform a proper medical history, which also includes social aspects, much as occupational health.
	Being able to carry out an examination of the physical and mental state. Being able to perform the diagnostic procedures and basic techniques, learn to analyze and interpret the results, in order to correctly define the nature of a problem.
	Being able to properly perform the appropriate diagnostic and therapeutic strategies, in order to safeguard the life and knowing how to apply the principles of evidence-based medicine. Making judgments
	The student must be able to exercise the proper clinical judgment to establish diagnoses and therapies in individual patients. To be able to formulate personal judgments to solve analytical and critical problems ("problem solving") and be able to independently search for scientific information, without waiting for it to be supplied from outside. Communication skills and learning ability
	The student must be able to identify, formulate and solve patients' problems using the foundations of thought and scientific research and on the basis of information obtained and correlated from different sources. Being aware of the role that the complexity, uncertainty and probability in decisions taken during the medical practice and be able to independently search for scientific information, without waiting for it to be provided to them. Being able to formulate hypotheses, collect and critically evaluate data, to solve
	Listen carefully to understand and synthesize relevant information about all the problems, understanding their content. Being able to collect, organize and interpret correctly the health and biomedical information from different resources and databases available.
ASSESSMENT METHODS	Oral test 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 Ottimo 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

	Discreto 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; yerv
	little or no ability to use the specific subject language and apply independently the acquired knowledge.
TEACHING METHODS	Lectures and exercises in classroom
DOCENTE: Prof. MARIO BARBAGALLO- Se	de IPPOCRATE
PREREQUISITES	The students must have at the beginning of the study course the basic knowledge of the epidemiology,natural history,diagnostic and therapeutic procedures of the most common diseases in the field of the internal medicine.
LEARNING OUTCOMES	At the end of the course the sudents should be able to know and use. a- the clinical reasoning b- the diagnostic procedures c- the communication skills (with patients, patient's families and colleagues)
ASSESSMENT METHODS	Q&A score : sufficient(18),average (24), good (28), very good (30),excellen (30 and laude)
TEACHING METHODS	The teaching methodology will consist of frontal lessons, real and simulated study cases, interactive discussions focused on problem solving of complex cases from the literature.

MODULE INTERNAL MEDICINE - MODULE I		
Prof. ANTONINO TUTTOLOMONDO	O - Sede CHIRONE, - Sede CHIRONE	
SUGGESTED BIBLIOGRAPHY		
 Claudio Rugarli. Manuale di Medicina Interna Sistematica. Masson Italia Harrison. Principi di Medicina Interna. McGraw-Hill . Principles of Geriatric Medicine. Hazzard WR et al, McGraw-Hill Principles and Practice of Geriatric Medicine. Eds. MSJohn Pathy, Alan Sinclair, John E. Morley Selezione di articoli della letteratura scientifica Appunti dalle lezioni 		
AMBIT	50421-Fisiopatologia, metodologia clinica, propedeutica clinica e sistematica medico-chirurgica	
INDIVIDUAL STUDY (Hrs)	75	
COURSE ACTIVITY (Hrs) 50		
EDUCATIONAL OBJECTIVES OF THE MODULE		
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SYLLABUS		

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Hrs	Frontal teaching	
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MODULE INTERNAL MEDICINE - MODULE I

Prof. ANTONIO CARROCCIO - Sede IPPOCRATE, - Sede IPPOCRATE

SUGGESTED BIBLIOGRAPHY

Claudio Rugarli. Manuale di Medicina Interna Sistematica. Masson Italia Harrison. Principi di Medicina Interna. McGraw-Hill Cecil's Textbook of Medicine. Saunders L. Pagliaro, M. Bobbio, A. Colli La Diagnosi in Medicina Raffaello Cortina Editore • Selezione di articoli della letteratura scientifica • Casi clinici ed immagini dal new england journal of medicine. Appunti dalle lezioni

AMBIT	50421-Fisiopatologia, metodologia clinica, propedeutica clinica e sistematica medico-chirurgica
INDIVIDUAL STUDY (Hrs)	75
COURSE ACTIVITY (Hrs)	50
EDUCATIONAL OBJECTIVES OF THE MODULE	

Educational aims- Clinical study cases will represent the teaching tool to allow the achievement of the principles of the clinical reasoning, the clinical diagnosis and the problem solving. The evidence based medicine will represent the context into build the specific knowledge of the internal medicine topics. Specific topics will be the following:

Introduction to internal medicine. Health and diseases. Fever of unknown origin. Acid base disorders. Primary and secondary Hypertension. Atherosclerotic cardiovascular diseases. Acute and chronic heart failure.Glucose and lipid related disorders. Haematological disorders.Vein diseases clinical assessment .Shock: clinical features and management. Endocrine diseases.Infectious diseases. Reumatological diseases.Lung diseases.EBM .Clinical reasoning. Problem solving.The complexity in internal medicine. Clinical presentation of Rare Diseases.Communicating with the patients and their families.Clinical study cases.

Hrs	Frontal teaching
2	Introduction to internal medicine Health and diseases Fever of unknown origin
2	Acid base disorders
6	Primary and secondary Hypertension Atherosclerotic cardiovascular diseases
4	Acute and chronic heart failure
6	Glucose and lipid related disorders
4	Haematological disorders
4	Vein diseases clinical assessment Shock: clinical features and management
2	Endocrine diseases
2	Infectious diseases
2	Reumatological diseases
2	Lung diseases
2	The complexity in internal medicine
3	Clinical presentation of Rare Diseases
Hrs	Practice
4	EBM Clinical reasoning Problem solving
2	Communicating with the patients and their families
3	Clinical study cases

MODULE GERIATRICS

Prof. EMILIO NARDI - Sede CHIRONE, - Sede CHIRONE		
SUGGESTED BIBLIOGRAPHY		
- Senin U. Paziente Anziano e Paziente Geriatrico. - Vergani C. Note pratiche di diagnosi e terapia per l'anziano. - Harrison. Principi di Medicina Interna. Casa editrice ambrosiana.		
AMBIT	50421-Fisiopatologia, metodologia clinica, propedeutica clinica e sistematica medico-chirurgica	
INDIVIDUAL STUDY (Hrs)	45	
COURSE ACTIVITY (Hrs)	30	
EDUCATIONAL OBJECTIVES OF THE MODULE		
The aim of the course is to train the student in such a way to acquire the ability to consider the following elements that characterize specific aspects of Geriatrics and Gerontology within the Internal Medicine discipline: the role of geriatric medicine in the practice of internal medicine; the geriatric approach methodology and its instruments; the risk of iatrogenic damage that limit therapeutic margin and requires continuous monitoring and frequent adjustments; the peculiarities' presentation of major diseases according to age.		

SYLLABUS		
Hrs	Frontal teaching	
30	1. Demography; 2. The process of aging; 3. Fragility; 4. The aging of the main systems; 5. The elderly cardiovascular diseases; 6. Cognitive decline; 7. Nutrition; 8. Osteoporosis; 9. Falls and syncope; 10. Pharmacotherapy in the elderly; 11. End of Life; 12. The network of services.	

MODULE **INTERNAL MEDICINE - MODULE II**

Prof. MANEREDI RIZZO - Sede HYPATIA. - Sede HYPATIA

SUGGESTED BIBLIOGRAPHY		
Rugarli Medicina Interna Sistematica Edizioni Edra - Sesta edi: Harrison - Principi di Medicina Interna 18° ed Mc Graw Hill Appunti delle lezioni Selezione di articoli della letteratura scientifica	zione	
AMBIT	50404-Medicina delle attività motorie e del benessere	
INDIVIDUAL STUDY (Hrs)	60	
COURSE ACTIVITY (Hrs)	40	
EDUCATIONAL OBJECTIVES OF THE MODULE		
The course aims to make the student able to integrate the know pathophysiology courses, methodology, pharmacology and inte- medical history survey, collection of objective data, the propose In addition, students will become aware of the clinical complex clinical practice. At the end of the teaching activities, students must be able to: - Identify the nation's problems (personal, environmental, soci	wledge acquired in previous years, particularly in the medical ernal medicine I, in order to be able to properly carry out the al of a diagnostic and therapeutic pathways. ty resulting from comorbidities, generally present in current	
with medical scientific point of view to understand its meaning from the pathony science (ying and of view and categorize		

al-scientific point of view, to understand its meaning from the pathophysiological point of view and categorize them according to the severity and urgency

- Make one or more diagnostic hypotheses, having acquired clinical reasoning skills with the help of the presentation in each lesson of real clinical cases

- To prioritize diagnostic hypotheses, depending on the severity and urgency of the patient's problems

- Learn about the diagnostic tests related to various organ systems and their sensitivity and specificity characteristics

- Make a therapeutic decision based on the best evidence of effectiveness provided by the literature (Evidence Based Medicine) and applied to a specific patient.

- Learn about the adverse effects of drugs and their interactions, particularly in elderly patients with polypathology.

- Be able to verify the effectiveness of the therapy and the cost-benefit ratio

- Know the prognosis of major diseases and their natural history

- Know the concepts of risk factors and risk markers

- Establish adequate communication with the patient and with the family, considering the personal, family, social and environmental.

Hrs	Frontal teaching
6	Arterial Hypertension - Cardiovascular risk (clinical cases)
6	Chronic renal diseases (clinical cases)
6	Heart failure (casi clinici)
6	Stroke and atrial fibrillation (clinical cases)
6	Arthritis - Pneumonia (clinical cases)
6	Alterations of fluid and electrolyte balance and of acid-base (clinical cases)
6	Vasculitides - SLE and antiphospholipid syndrome and main autoimmune diseases (clinical cases)
6	Diabetes mellitus and metabolic syndrome (clinical cases)
6	Anemias - Cirrhosis (Clinical cases)

MODULE INTERNAL MEDICINE - MODULE II

Prof. MARIO BARBAGALLO - Sede CHIRONE, - Sede CHIRONE

SUGGESTED BIBLIOGRAPHY		
 •Claudio Rugarli. Manuale di Medicina Interna Sistematica. Masson Italia •Harrison. Principi di Medicina Interna. McGraw-Hill . •Principles of Geriatric Medicine. Hazzard WR et al, McGraw-Hill •Principles and Practice of Geriatric Medicine. Eds. MSJohn Pathy, Alan Sinclair, John E. Morley •Selezione di articoli della letteratura scientifica •Appunti dalle lezioni 		
AMBIT	50404-Medicina delle attività motorie e del benessere	
INDIVIDUAL STUDY (Hrs)	60	
COURSE ACTIVITY (Hrs) 40		
EDUCATIONAL OBJECTIVES OF THE MODULE		
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Hrs	Frontal teaching
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MODULE INTERNAL MEDICINE - MODULE II

Prof. MARIO BARBAGALLO - Sede IPPOCRATE, - Sede IPPOCRATE

SUGGESTED BIBLIOGRAPHY

Claudio Rugarli. Manuale di Medicina Interna Sistematica. Masson Italia Harrison. Principi di Medicina Interna. McGraw-Hill Cecil's Textbook of Medicine. Saunders L. Pagliaro, M. Bobbio, A. Colli La Diagnosi in Medicina Raffaello Cortina Editore • Selezione di articoli della letteratura scientifica • Casi clinici ed immagini dal new england journal of medicine. Appunti dalle lezioni

AMBIT	50404-Medicina delle attività motorie e del benessere
INDIVIDUAL STUDY (Hrs)	60
COURSE ACTIVITY (Hrs)	40

EDUCATIONAL OBJECTIVES OF THE MODULE

Educational aims- Clinical study cases will represent the teaching tool to allow the achievement of the principles of the clinical reasoning, the clinical diagnosis and the problem solving. The evidence based medicine will represent the context into build the specific knowledge of the internal medicine topics. Specific topics will be the following:

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Hrs	Frontal teaching
2	Introduction to internal medicine Health and diseases Fever of unknown origin
2	Acid base disorders
6	Primary and secondary Hypertension Atherosclerotic cardiovascular diseases
4	Acute and chronic heart failure
6	Glucose and lipid related disorders
4	Haematological disorders
4	Vein diseases clinical assessment Shock: clinical features and management
2	Endocrine diseases
2	Infectious diseases
2	Reumatological diseases
2	Lung diseases
2	The complexity in internal medicine
3	Clinical presentation of Rare Diseases
Hrs	Practice
4	EBM Clinical reasoning Problem solving
2	Communicating with the patients and their families
3	Clinical study cases

MODULE GERIATRICS

Prof. NICOLA VERONESE - Sede HYPATIA, - Sede HYPATIA

SUGGESTED BIBLIOGRAPHY

- Senin U. Paziente Anziano e Paziente Geriatrico

- Vergani C. Note pratiche di diagnosi e terapia per l'anziano

- Principles and Practice of Geriatric Medicine. Eds. MSJohn Pathy, Alan Sinclair, John E. Morley

Appunti delle lezioni

- Selezione di articoli della letteratura scientifica

AMBIT	50421-Fisiopatologia, metodologia clinica, propedeutica clinica e sistematica medico-chirurgica
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30
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EDUCATIONAL OBJECTIVES OF THE MODULE

The aim of the module is to make sure that the student acquires the knowledge of diseases which are frequently developed while aging and achieves the cultural background necessary to differentiate the disease state from the physiological senescence involution. To accomplish this aim, the student must learn the fundamentals of the Multidimensional Geriatric Assessment and the tests and rating scales referring to it, in order to formulate a correct clinical diagnosis of comorbid conditions typical of advanced age, as well as the recognition of the states of age-dependent frailty and disability.

Hrs	Frontal teaching
30	- Demographic aspects of aging.
	- Defining the needs of the older person.
	- Implications and consequences of medicalization in the older person: protecting the values of older people.
	- Multidimensional geriatric assessment. Concepts, methods, and tools. Geriatric assessment unit
	- Autonomy and self-sufficiency. Normality in the elderly
	- Internated network of generatic assistance (neriatric unit for acute care, long-stay care, home
	care, nursing homes, day care centers).
	 WHO Guidelines for prescription of drugs in older persons. Clinical implications of the peculiar characteristics of pharmacokinetics and pharmacodynamics in older age.
	- The older person and the mental and physical decline, death, dying, useless overtreatment,
	physical restrain.
	- Principles of healthy aging.
	- Overview of the older person's care: social aspects and integration between health care and
	social care. Interaction with the general practitioner.
	- Chronic diseases, polypathology, comorbidity and disability: the concept of active life
	expectancy (DALY).
	 The frail elderly: physical, social, and economic aspects. Poverty, isolation, neglect, and disorders of affective deficiency.
	- The major geriatric syndromes and cascade of failures in the older patient.
	- Cognitive decline, Alzheimer's disease and other dementia.
	- Delirium (confusional state).
	- Depression – sleeping disorders.
	- Sensory deficits and their consequences in clinical practice.
	- Falls and syncope.
	- Osteoporosis and fragility fractures: disabling consequences.
	- Nutritional problems in geriatrics – diabetes in older age.
	- Immobilization syndrome.
	- Pressure ulcers.
	- Urinary and fecal incontinence.

MODULE INTERNAL MEDICINE - MODULE I

Prof.ssa TIZIANA DI CHIARA - Sede HYPATIA, - Sede HYPATIA

SUGGESTED BIBLIOGRAPHY		
Harrison Cecil Sackett	Textbook di medicina ultima edizione Textbook di Medicina Interna Edizione italiana (ridotta) Epidemiologia clinica	
AMBIT		50421-Fisiopatologia, metodologia clinica, propedeutica clinica e sistematica medico-chirurgica
INDIVIDUAL STUDY (Hrs)		75
COURSE ACTIVITY (Hrs)		50
EDUCATIONAL OBJECTIVES OF THE MODULE		

Main objective of the course is to train students, through the presentation of clinical cases during the lectures, the application of the methodological basis of clinical reasoning, addressing key issues in internal medicine are complex, using the acquisitions of Biophysical Medica to guide the student the understanding of the pathophysiological fundamentals of clinical signs and symptoms for realizing the differential diagnosis of various disease entities of clinical medicine.

SYLLABUS	
Hrs	Frontal teaching
8	Cardiology: Chest pain Heart attack ischemic Heart disease Hypertension. Heart failure. Myocarditis Pericarditis Endocarditis Arrhythmias. Congenital and acquired valvular defects. TIA and stroke
8	Gastroenterology:Acute and chronic viral hepatitisCirrhosisHCCGenetic diseases of the liver.Jaundice.Acute and chronic pancreatitis.Gallstones.Causes of ascites.Tumors of the pancreas and biliary tract.Esophageit and erniajatale.Esophageal motor disorders.Esophageal cancerDyspepsia and peptic duodenal and gastric.Gastric cancerAcute and chronic abdominal pain.Malabsorption.Celiac diseaseCrohr's disease and ulcerative colitis.Cancer of the colon.Diverticular disease
6	Hematology: Anemias Acute and chronic leukemia Lymphomas Multiple myeloma. Thrombocytosis and thrombocytopenia. Coagulation disorders
4	Nephrology: Acute and chronic renal failure. Glomerulonephritis. Nephrotic syndrome

4	Rheumatologic diseases: Lupus erythematosus Rheumatoid arthritis Scleroderma Dermatomyositis Polymyositis. Vasculitis. Spondylitis seronegative
4	Respiratory diseases Dyspnea Pneumonia Bronchial asthma Acute and chronic respiratory failure. Interstitial pneumonia Pulmonary embolism Lung cancer
3	Infectious diseases Viral hepatitis. Brucellosis Typhus Ricketiosi Mononucleosis. Leishmaniasis. AIDS Tuberculosis. Fungal diseases Infectious diseases of immunosuppressed. Cytomegalovirus infection. Giardiasis. Amebiasis
2	Acid-base balance disorders
2	Endocrinology: Goiter Hyperthyroidism Hypothyroidism Hypo and hypoadrenalism Diabetes mellitus Pituitary diseases
5	Allergy and Clinical Immunology: Rhinitis and asthma Urticaria Dermatitis and eczema Reactions to Medications Contrast media reactions Hymenoptera venom allergy Food allergy Anaphylaxis and anaphylactic shock Specific immunotherapy
4	Approach Evidence Based Medicine in Internal Medicine: The diagnosis The prognosis The therapy