



UNIVERSITÀ DEGLI STUDI DI PALERMO

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| DEPARTMENT | Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro" | | |
| ACADEMIC YEAR | 2022/2023 | | |
| BACHELOR'S DEGREE (BSC) | NURSING | | |
| INTEGRATED COURSE | INTERNAL MEDICINE, GASTROENTEROLOGY AND PHARMACOLOGY - INTEGRATED COURSE | | |
| CODE | 21846 | | |
| MODULES | Yes | | |
| NUMBER OF MODULES | 3 | | |
| SCIENTIFIC SECTOR(S) | MED/09, BIO/14, MED/12 | | |
| HEAD PROFESSOR(S) | DI RAIMONDO DOMENICO | Professore Associato | Univ. di PALERMO |
| OTHER PROFESSOR(S) | CASTELLI VALENTINA | Professore a contratto | Univ. di PALERMO |
| | CABIBBO GIUSEPPE | Ricercatore a tempo determinato | Univ. di PALERMO |
| | DI RAIMONDO DOMENICO | Professore Associato | Univ. di PALERMO |
| CREDITS | 9 | | |
| PROPAEDEUTICAL SUBJECTS | 91705 - HUMAN PHYSIOLOGY | | |
| MUTUALIZATION | | | |
| YEAR | 2 | | |
| TERM (SEMESTER) | 1° semester | | |
| ATTENDANCE | Mandatory | | |
| EVALUATION | Out of 30 | | |
| TEACHER OFFICE HOURS | <p>CABIBBO GIUSEPPE Monday 14:00 16:00 Sezione di Gastroenterologia, Clinica Medica I, Piazza delle Cliniche n.2.</p> <p>CASTELLI VALENTINA Monday 10:00 14:00 Farmacologia - Edificio 11, Ingresso 11d - Policlinico Universitario Paolo Giaccone</p> <p>DI RAIMONDO DOMENICO Friday 12:00 14:00</p> | | |

DOCENTE: Prof. DOMENICO DI RAIMONDO

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| PREREQUISITES | Attendance of the course of human anatomy and physiology |
| LEARNING OUTCOMES | <p>Knowledge and ability of comprehension Acquisition of basic concepts of internal medicine, gastroenterology and pharmacology.</p> <p>Ability to apply knowledge and comprehension Ability to build pathways of analysis between human pathologies and pharmacological approaches. Autonomy of judgment Knowledge of the theoretical and practical connections between the mechanisms of disease and the clinical manifestations of diseases and the pharmacological therapies.</p> <p>Ability of communication Synthesis and exposure skills related to the main topics of the course</p> <p>Ability of learning Ability to follow interdisciplinary pathways and correlation between etiology, pathogenesis and clinical presentation of acute and chronic diseases.</p> |
| ASSESSMENT METHODS | <p>The oral examination whose purpose is to verify due competences and the ability of personal synthesis concerning the program. The assessment is given in numbers (from 18 to 30). Students will have to answer orally at least three questions concerning the program and the texts suggested during lectures. Questions asked verify: a) acquired competences; b) ability of elaboration; c) the acquisition of adequate abilities of presentation; d) personal autonomy of judgment. Distribution of marks.</p> <p>30 – 30 cum laude: a) advanced knowledge concerning suggested topics and deep comprehension of the principles relative to the subjects studied b) advanced ability of application of acquired knowledge and full mastery of the most effective instruments to conceive a cultural analysis based on particular theoretical orientations c) correct use of the specific subjects relative to the discipline d) excellent ability to organize, in an autonomous and innovative way, topics relative to the discipline</p> <p>26 – 29: a) exhaustive and complete knowledge associated to a critical awareness b) good ability of application concerning acquired knowledge and good level of competence concerning the most effective instruments suited to make a cultural analysis on the basis of some theoretical orientations c) good competence of the specific orientations and disciplinary languages d) ability of organization due topics in an autonomous and innovative way</p> <p>22 – 25: a) knowledge of facts, principles and general concepts concerning the program b) more than basic ability of application concerning methods and instruments relative to the studied subjects c) more than basic competence of the specific orientations and disciplinary languages d) more than basic ability of organization relative to due topics</p> <p>18 – 21: a) sufficient knowledge of the main topics concerning the program to study b) sufficient capacity of application of the studied subjects c) sufficient competence of the general orientations and disciplinary languages d) sufficient ability of organization relative to due topics</p> |
| TEACHING METHODS | Frontal lectures and interactive discussion with the students |

MODULE INTERNAL MEDICINE

Prof. DOMENICO DI RAIMONDO

SUGGESTED BIBLIOGRAPHY

Incalzi RA. Medicina Interna per Scienze Infermieristiche (II Ed). dicembre 2021 Piccin (ISBN: 978-88-299-3039-5)
Massini et al., Medicina Interna (VI ed.), 2019, McGraw-Hill Education (ISBN 978-8838694660)
Claudio Rugarli; Medicina Interna sistematica, Editrice Masson (Ed 8). 2021. ISBN 9788821450952

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| AMBIT | 10313-Interdisciplinari e cliniche |
| INDIVIDUAL STUDY (Hrs) | 45 |
| COURSE ACTIVITY (Hrs) | 30 |

EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge and understanding: The aim of the module is the student's knowledge of taxonomy, epidemiology, etiopathogenesis, natural history, differential diagnosis, clinical phenomenology and therapeutic management of the most frequent acute and chronic pathologies of Internal Medicine.

The Student must acquire the clinical diagnostic and prognostic significance of some laboratory and instrumental investigations of specific performance in the management of some clinical internistic entities (EGA, Spirometry, diagnostic and therapeutic paracentesis, thoracentesis, coagulation tests, radiological diagnostics, etc.).

Ability to apply knowledge and understanding: the Student, at the end of the course, thanks to the above acquisitions, will have to be able to correctly apply the information for a correct differential diagnosis between diseases with common signs and symptoms, to indicate to reach diagnosis a conscious choice of the various diagnostic methods and to apply the right therapeutic choices for a correct management of the patient.

Ability to apply knowledge and understanding: the Student, at the end of the course, thanks to the above acquisitions, must be able to properly apply the information for a diagnosis of the major properly complications in Internal Medicine and their management. The verification will be carried out with a final oral exam.

SYLLABUS

| Hrs | Frontal teaching |
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| 4 | Respiratory apparatus -dyspnoea and cyanosis: pathophysiology and clinical - acute and chronic, partial and global respiratory failure -pneumonia, bronchial asthma, chronic bronchitis and its sequelae; |
| 4 | Cardiovascular apparatus pathophysiology of the heart; primary and secondary arterial hypertension; heart failure; pulmonary embolism |
| 4 | Endocrine-metabolic apparatus -diabetes mellitus and its complications, thyroid diseases, surrenal diseases -obesity and its complications, the metabolic syndrome |
| 4 | Nephrology -Glomerulo-nephritis, Acute and chronic renal failure, Urinary tract infections |
| 2 | Electrolyte disorders. disorders of Acid-Base Balance |
| 4 | Hematology - Anemias, leukemias and lymphomas |
| 2 | Autoimmune pathology Autoimmune concepts; LES, rheumatoid arthritis |
| 4 | Fever of unknown origin (FUO). Low-grade fever. Infectious diseases: Brucellosis, Salmonellosis, Rickettiosis, Mononucleosis, leishmaniasis, |
| 2 | Various - Drug induced reactions, excessive and incorrect use of drugs. |

MODULE DIGESTIVE SYSTEM DISEASES AND NUTRITION PATHOLOGIES

Prof. GIUSEPPE CABIBBO

SUGGESTED BIBLIOGRAPHY

Malattie dell'Apparato Digerente - Unigastro Edizione 2019-2022. Editrice Gastroenterologica Italiana. ISBN 978-88-214-5046-4

Ricerche bibliografiche consigliate dal Docente

Appunti e materiale di lezione

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| AMBIT | 10727-Attività formative affini o integrative |
| INDIVIDUAL STUDY (Hrs) | 45 |
| COURSE ACTIVITY (Hrs) | 30 |

EDUCATIONAL OBJECTIVES OF THE MODULE

The course aims to provide students with:

- knowledge of the main gastroenterological diseases,
- the correlation between nutrition, food behaviors and gastroenterological diseases;
- knowledge to establish a good relationship with patients suffering from gastroenterological diseases;
- the ability to interact with other professional figures (physicians, nurses, pharmacists) participating in the management of patient health.

The student must acquire knowledge about:

- etiopathogenetic mechanisms that determine acute and chronic digestive diseases and their natural history;
- interpretation of the patient's symptoms and the ability to discuss with other health figures;
- diagnostic processes and therapies of major gastrointestinal diseases.
- Relationship with the patient in order to evaluate the difficulties of eating in chronic gastrointestinal diseases, and to be able to recommend correct and useful food regimens for acute and chronic diseases.
- planning and management of parenteral and / or enteral diet for patients with digestive disorders with severe clinical onset or end stage diseases

SYLLABUS

| Hrs | Frontal teaching |
|-----|--|
| 2 | Esophageal disease; Reflux and achalasia |
| 2 | Peptic ulcer disease and Helicobacter Pylori |
| 3 | Celiac disease and malabsorption |
| 3 | Inflammatory bowel diseases; Crohn's disease; Ulcerative colitis |
| 3 | Neoplasms of the esophagus, stomach and colon |
| 3 | Acute and chronic viral hepatitis |
| 2 | Steatosis, steatohepatitis , alcohol related disease |
| 4 | Liver cirrhosis and hepatocellular carcinoma |
| 3 | Clinical approach to jaundice, cholestasis and biliary obstructive disorders |
| 3 | Acute and chronic pancreatitis |
| 2 | Indications for enteral and parenteral nutrition, and for re-start to oral nutrition |

MODULE PHARMACOLOGY

Prof.ssa VALENTINA CASTELLI

SUGGESTED BIBLIOGRAPHY

Karen Whalen, Le basi della farmacologia - Zanichelli (terza edizione italiana; 2020) ISBN: 9788808320292
The Manual of the Pharmacological Basis of THERAPEUTICS. Goodman & Gilman's. Ed. Mc Graw Hill
Fumagalli, Clementi Farmacologia Generale e Molecolare, UTET (2018) ISBN 978-8821444364

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| AMBIT | 10305-Primo soccorso |
| INDIVIDUAL STUDY (Hrs) | 45 |
| COURSE ACTIVITY (Hrs) | 30 |

EDUCATIONAL OBJECTIVES OF THE MODULE

The course aims at stimulating the interest in Pharmacology and the study of the mechanisms of action, therapeutic indications, adverse drug reactions and interaction of the diverse classes of prescription drugs, with active participation and a critical approach.

SYLLABUS

| Hrs | Frontal teaching |
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| 4 | Introduction to general pharmacology. Cellular bases of pharmacokinetics. Absorption and routes of drug administration. Distribution and elimination of drugs. Drug metabolism. Control of plasma drug concentration. Drug interactions. Pharmacogenetics. |
| 4 | Pharmacodynamics. Drug-receptor interactions and quantitative drug response. Receptors and modulation of receptor responses. Mechanisms of tolerance and drug dependence. Channel receptors. G protein-coupled receptors. Regulation of intracellular calcium homeostasis. Receptors for growth factors. Cytokines: receptors and functions. Intracellular receptors. Ionic channels (sodium, calcium and potassium channels). Pumps and carriers. The neurotransmission. |
| 6 | Drugs active on the Central Nervous System. Sedative Hypnotics and Alcohols (Benzodiazepines, Barbiturates, Ethanol). Opioid analgesics. General anesthetics. Local anesthetics. |
| 6 | Active drugs on the cardiovascular system: Antianginal (Nitro-derivates, Beta-Blockers, Calcium-Antagonists); Antiarrhythmics (Sodium Channel Blockers, Beta-Blockers, Calcium Channel Blockers); Treatment of Heart Failure (Digitalis Glucosides, Dopaminergic and Beta-Adrenergic Agonists, Phosphodiesterase Inhibitors) Antihypertensive Drugs (ACE inhibitors, Angiotensin II Antagonists, Nitroderivatives, Vasodilators, Loop Diuretics, Beta-blockers Calcium Antagonists, Sartans). Pharmacology of haemostatic disorders. |
| 6 | Autocoids and mediators of inflammation. Non-Steroidal Anti-inflammatory Drugs (NSAIDs) and glucocorticoids. Metabolism active drugs: Antidiabetic, Statins, therapy of obesity and eating disorders. Bone Metabolism. Drugs acting on the digestive tract: Treatment of peptic ulcer and gastroesophageal reflux. Antidiarrheals. Antiemetic with central and peripheral activity. |
| 4 | Chemoantibiotic therapy: Beta-lactam antibiotics. Glycopeptides. Macrolide antibiotics. Aminoglycosides, Chloramphenicol and Tetracycline. Sulfonamides, Diaminopyrimidine and Quinolones. Antimycobacterial drugs, Antivirals, Antifungals. |