



UNIVERSITÀ
degli STUDI
di CATANIA

DEPARTMENT OF GENERAL SURGERY AND MEDICAL-
SURGICAL SPECIALTIES
Bachelor's Degree in Cardiocirculatory and Cardiovascular
Perfusion techniques
Academic Year 2016/2017 - 2° Year

PHARMACOLOGY AND INTERNAL MEDICINE

4 CFU - 1° Semester

Teaching Staff

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LEARNING OBJECTIVES

▪ Pharmacology

To acquire basic elements of mechanisms of drug action, of clinical indications and of pharmacokinetics, as well as basic notions of cardiovascular pharmacology.

▪ INTERNAL MEDICINE

Purpose of the course:

- Importance of the relationship in the doctor-patient communication
- Collection of family, physiological, pathological, remote and proximate anamnesis
- Correct execution of the general and district objective examination
- Correct interpretation of static and dynamic laboratory investigations

DETAILED COURSE CONTENT

▪ Pharmacology

Basic principles of General Pharmacology, Pharmacodynamics, Pharmacokinetics.

Basic Principles of Cardiovascular Pharmacology (antihypertensive drugs, diuretics, beta-blockers, calcium antagonists, inhibitors of the renin-angiotensin system, inotropic agents, antiarrhythmic drugs, antidyslipidemic drugs) and of drugs acting on blood (anticoagulants, antiplatelet drugs,

thrombolytic drugs).

▪ **INTERNAL MEDICINE**

Family and physiological history

Genetic pathogenic factors, Infectious conditions, Living and feeding habits, Birth, Breastfeeding, First physiological acts, Schooling, Puberty, Pregnancy, Childbirth, Childbirth and lactation, Physical and intellectual activities, Appetite and diet, Thirst and introduction of liquids, Use of alcohol and smoking habits, Sleep-waking rhythm, Alvo, Diuresis, Sexual activity.

Objective Examination

General physical examination (Psyche and sensory, decubitus, Facies, Skin color, Elementary skin lesions, Body temperature, Nutrition and hydration state, Superficial lymph nodes, Muscular apparatus)

Diseases of the respiratory system

The upper and conduction airways, pulmonary circulation, obstructive and restrictive pathologies, respiratory failure, bronchial asthma, dyspnea, cough.

Diseases of the cardiovascular system

Chest pain (infarct and angina pectoris), arrhythmias, arterial hypertension, heart failure, pericarditis and endocarditis.

Diabetes Mellitus

Classification, epidemiology, etiopathogenesis, acute and chronic complications. Therapy, physical activity guidelines

Digestive system diseases

Hiatal hernia, gastroduodenal ulcer, colon disease, liver disease

Kidney diseases

Acute and chronic glomerulonephritis, nephrosis

Blood diseases

Anemias, myelo and lymphoproliferative syndromes

TEXTBOOK INFORMATION

▪ **Pharmacology**

1. Farmacologia per le professioni sanitarie

Autore : Rossi Francesco; Cuomo Vincenzo; Riccardi Carlo, Editore: Minerva Medica, 2014.

2. Compendio di farmacologia generale e speciale

Autore : Matilde Amico Roxas, Achille P. Caputi, Mario Del Tacca, UTET, Torino, 2006.

▪ **INTERNAL MEDICINE**

Compendium of Internal Medicine (Cecil)
