
COURSE: PHARMACOLOGY AND PHARMACOTHERAPY

ACADEMIC YEAR: 2018-2019

TYPE OF EDUCATIONAL ACTIVITY: : Characterizing

TEACHER: Dott. Luigi Milella

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website:

phone: **0971205525**mobile (optional):

Language: **ITALIAN**

ECTS: **10 (9 lessons and
1 tutorials/practice)**n. of hours: **84 (72 lessons
and 12 tutorials/practice)**Campus: **Potenza**
Dept./School: **Department of
Sciences**
Program: **Pharmacy (LM-13)**Semester: **I**
(from 1 october 2018
to 20 december 2018
-20 January 2019)

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

You will learn about drugs, starting from pharmacokinetic and pharmacodynamic and related Science. Classification, information about the effects and the correct use of drugs. An outline of the development of new therapeutic strategies

PRE-REQUIREMENTSBiochemistry and Fisiology .

SYLLABUS

Definitions of pharmacology, drug, medicine, poison or toxic. Branches of pharmacology. Drug pharmacodynamics and pharmacokinetic. Origin and nature of the drugs. Pharmaceutical forms. The practical significance of delayed absorption. First pass effects. Bioavailability. Kinetics of the first order (linear) and the zero-order (non-linear). Influence of dose schedule on the state of the system. Drug distribution. Drug binds serum proteins. Blood-brain barrier. Volume of distribution. Elimination of drugs: the routes of elimination (renal, biliary, lung, etc. Clearance. Half-life. The pharmacological action of drugs in relation to the association. Variations in sensitivity of the organism to drugs: habit, drug allergy, abnormal responses to drugs. Pharmacogenetics.

Direct cholinergic agonists, cholinergic agonists indirect (anticholinesterase), muscarinic antagonists, adrenergic agonists, adrenergic antagonists, alpha and beta blockers, neuromuscular blocking agents. Drugs acting on the central nervous system: general anesthetics, anxiolytics, sedatives, hypnotics, anticonvulsants, antiparkinson, opioid analgesics and their antagonists, antipsychotics (neuroleptics), antidepressants, , stimulants of the central nervous system.

General and local anesthetics.

Autacoids, Cardiovascular Drugs, Diuretics, Drugs acting on blood and blood-forming organs, Drugs acting on the gastrointestinal system, Drugs acting on the respiratory system, Lipid metabolism, Antinflammatory drugs Drugs uterus: oxytocic and tocolytic.

TEACHING METHODSTheoretical lessons, Classroom tutorials, Laboratory tutorials, Project works, Technical visits.

EVALUATION METHODSIntermediate verifications: Written examination, Practical test, Oral examination

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIALo B.G. Katzung "Farmacologia generale e clinica" Piccin VII last edition

o Goodman & Gilman "Le basi farmacologiche della terapia" McGraw-Hill last edition

INTERACTION WITH STUDENTS

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EXAMINATION SESSIONS (FORECAST)¹

06/02/2019

07/03/2019

16/05/2019

06/06/2019

04/07/2019

12/09/2019

03/10/2019

04/12/2019

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION

¹Subject to possible changes: check the web site of the Teacher or the Department/School for updates.