



SCIENZE MEDICHE

11 CFU - 2° Semester

Teaching Staff

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LEARNING OBJECTIVES

▪ FARMACOLOGIA

Understanding of the principles of pharmacology (origin of drugs, pharmacodynamics, pharmacokinetics) and pharmacotherapy, the factors that influence therapeutic outcome, the role of gene-environment interactions in pharmacological response, drug development and pharmacovigilance, knowledge of mechanisms, therapeutic effects, short and long-term effects of drugs, the concept of habit and dependence, doping, side effects and toxic effects, allergic responses to drugs, abnormal drug responses, properties, mechanism of action and side effects of some classes of drugs, inflammation non-steroidal anti-inflammatory drugs (NSAIDs), pain control with analgesic drugs, neurotransmission and drugs of abuse, doping drugs, the nicotinic acetylcholinergic receptor and the neuromuscular junction, central, peripheral and muscle relaxant drugs direct, dopaminergic system and motor system, dopaminergic neurotransmission control, control of dopaminergic synapse, etiopathogenesis Parkinson's disease and anti-parkinson drugs.

▪ Medical Sciences

Provide elements of basic knowledge of the major diseases of internal medicine and clinical aspects that threaten survival.

The topics will be treated by placing special emphasis on the symptoms of major diseases by defining the elements useful for the prevention and for healthy lifestyles through the maintenance

of optimal physical and mental condition.

- **ENDOCRINOLOGIA**

This is a comprehensive study of the endocrine system which will allow the student to integrate and better understand the functions of the other system of the body. The pathological conditions and the diagnostic procedures to assess the endocrine illness are discussed.

COURSE STRUCTURE

- **FARMACOLOGIA**

Frontal lessons.

- **Medical Sciences**

Lessons with presentation of clinical cases

DETAILED COURSE CONTENT

- **FARMACOLOGIA**

1. General principles of Pharmacology (origin and types of drugs, classification of drugs).

2. Principles of Pharmacokinetics (ADME, bioavailability, plasma half-life, drug clearance)

3. Principles of pharmacodynamics:

4. Pharmacological Classes

- **Medical Sciences**

Basic knowledge of Anatomy and Physiology

TEXTBOOK INFORMATION

- **Medical Sciences**

Compendium of Internal Medicine (Cecil)

Slides
