UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Pharmacology

2223-2-I0202D123-I0202D042M

Aims

The course aims at developing the students' knowledge of the basics of pharmacology

Contents

PHARMACOLOGY: Pharmacokinetics : Pharmacodynamics: basics of neurotransmission and Pharmacological therapy.

Detailed program

PHARMACOLOGY

- Stages of drug development

- Pharmacokinetics: Principles of diffusion of drugs across cellular barriers. Absorption, distribution, biotransformation and excretion. Pharmacokinetics in children.

- Pharmacodynamics: receptor theory and targets for drug action. Agonists and antagonists. Quantitative response to drugs. Structural / functional classification of receptors for endogenous agonists; signal transduction mechanisms and their pharmacological modulation, variations in receptor response

- Neurotransmission: basics of general aspects. Principal systems of neurotransmission: acetylcholine, catecholamines, GABA, glutamate

- Outline of pharmacological therapy on epilepsy, anxiety, depression, attention disorders

Prerequisites

Objectives of the first year courses. Objectives of the course: Neurology and Child Neuropsychiatry

Teaching form

Lectures

Textbook and teaching resource

Suggested text books: Cella, Di Giulio, Gorio, Scaglione, Farmacologia generale e speciale per le lauree sanitarie triennali, Ed. Piccin.

The Teacher will provide educational material (slides of the lessons)

Semester

Second year, second semester

Assessment method

The written test will consist of 33 multiple choice questions (5 answers each, only one is correct). For some multiple choise questions, a brief analysis could be required (like open question). The oral test will focus on in-depth study of the written paper. For the evaluation of the written and oral test, the following criteria will be taken into account:

- correct answers

- answer relevance and

- completeness to the questions

Office hours

By appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING