



METODOLOGIA CLINICA APPLICATA AGLI STUDI DI RICERCA

8 CFU - 1° Semester

Teaching Staff

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TEACHER NOT YET ALLOCATED - Module PATOLOGIA GENERALE APPLICATA AI TRIALS - MED/04 - 2 CFU

LEARNING OBJECTIVES

▪ **Pharmacology: safety in therapy management**

Students will acquire knowledge about basic principles in Pharmacology, such as pharmacokinetics and pharmacodynamics, drugs mechanisms, signal transduction pathways, adverse drug reactions. Furthermore, an overview of major drug classes mainly used in hospital will be presented, to promote the correct use of drugs and to avoid eventual life-threatening adverse reactions or drug interactions.

▪ **CLINICAL METHODOLOGY APPLIED TO RESEARCH STUDIES**

Provide learners with knowledge to understand the implementation, interpretation and application of clinical trials in diseases of Internal Medicine. Analyze the various types of clinical studies. The following topics will be studied in detail: evidence-based medicine (Evidence-Based Medicine, EBM), levels of evidence, degree of recommendations, consensus conferences, guidelines, recommendations based on studies available in Internal Medicine and diagnostic-therapeutic

protocols in Internal Medicine. Clinical trials will be illustrated and analyzed in the management of the most frequent internal diseases (cardiocirculatory, metabolic, gastroenterological, pulmonary, neoplastic).

DETAILED COURSE CONTENT

▪ **Pharmacology: safety in therapy management**

General Pharmacology

- Pharmacokinetics and pharmacodynamics;
- Dose-response relationships;
- The Drug Development Process;
- Factors affecting response to drugs;
- Risks and precautions for a proper drug therapy;
- Adverse drug reactions;
- Drug therapy during pregnancy and across the life span.

Drug classes

- Drugs affecting autonomic nervous system;
- Drug therapy for depressions and anxiety disorders;
- Drugs affecting the cardiovascular system;
- Drugs affecting the digestive system;
- Anti-inflammatory and anti-allergy drugs;
- Drugs used for diabetes mellitus;
- Basic principles in antimicrobial and antitumor chemotherapy.

▪ **CLINICAL METHODOLOGY APPLIED TO RESEARCH STUDIES**

Knowledge of the main pathologies of international interest of the gastrointestinal system, of the liver, of the cardio-circulatory system, of the respiratory system, of the kidney, of lipid metabolism and of glucose metabolism. Knowledge of biostatistics elements.

TEXTBOOK INFORMATION

▪ **Pharmacology: safety in therapy management**

1. ROSSI F., CUOMO V., RICCARDI C., Farmacologia per le professioni sanitarie, Ed. Minerva Medica
2. Hitner, Nagle, Principi di Farmacologia, Zanichelli
3. Rang, Dale, Farmacologia, Ed. Elsevier Masson

▪ **CLINICAL METHODOLOGY APPLIED TO RESEARCH STUDIES**

- **Medicina Interna** Autore: Massini Renato; Izzi Donatello; Marchetti Patrizia; Passeretti Francesca; Recine Umberto, Editore: McGraw-Hill Italia
- **Medicina Interna per Scienze Infermieristiche** Autore: Antonelli Incalzi Raffaele, Editore: PICCIN EDITORE
- **HARRISON** - Principi di Medicina Interna - Il manuale- McGraw-Hill
