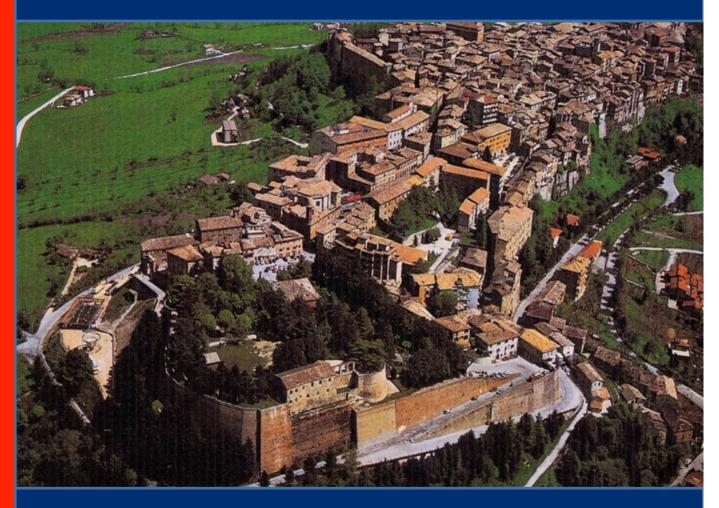


School of
Specialization
in
Hospital
Pharmacy in
Italy

Prof. Carlo Polidori

## **University of Camerino**



**Hospital pharmacy courses** 







## Hospital pharmacy school building and main class



#### 1st Year

#### Nutrition I

General concepts in nutrition.

#### **General Pathology**

Immunotherapy and target therapy in cancers and transplantation.

#### Biopharmaceutics

Biopharmaceutic factors affecting dissolution, absorption and/or bioavailability of drug in dosage forms.

#### Budget Management in the hospital pharmacy

Italian health sistem organization. Health tecnology assessment. Hospital financial assessment.

#### Hosptital training

#### 2<sup>nd</sup> Year

#### Nutrition II

Nutrients, formulations and their chemical stability in hospital enteral/parenteral nutrition formulations. Pediatric nutrition formulations.

#### Microbiology in hospital settings

Infections and risk prevention (physical, chemical, and biological) in hospital environment.

#### Methods in plasma drug determination

Methods for drugs determination into the blood (HPLC-MS).

#### **Pharmacokinetics**

Methods for calculating and adjusting plasma drug concentrations. Bioequivalence studies.

#### Hospital training

#### 3<sup>rd</sup> Year

#### **Bioetics**

Bioetics and CRO organizations.

#### Oncological therapies and radioparmacy

Infusion bags preparations for anticancer drugs. Apotheca robot management experience.

#### Antibiotic, antiviral and heart disease drugs

Chemistry of novel drugs and their therapeutical use.

#### Clinical Therapeutic Management

Clinical management of cardiovascular drugs.

#### Hospital training

### 4th year

# Hospital «orange book», medical devices and galenic preparations

Signing contract for buying drugs and medical devices.

#### Hospital drug monitoring

Monitoring of drug usage and expenses in the hospital.

#### Off label and right prescriptions

Recording of drugs used as off label and in labels.

#### Surveillance in Urban Drug prescriptions

Monitoring of drug use and expenses in the urban pharmacies.

#### Hospital training