UE 12 PHARMACOLOGICAL SCIENCES: Pharmacokinetics

5 ECTS

Content

**Classes**

Pharmacokinetics
- Definitions
- Mathematical principles of pharmacokinetic analysis
- Pharmacokinetic profiles

Study of the oral pathway, definitions
- Physiology, absorption mechanisms, influencing factors, first passage effect, enterohepatic cycle, bioavailability, bioequivalence

**Distribution**
- Fixation to plasma and tissue proteins
- Apparent volumes of distribution

**Xenobiotic metabolism**
Definition of the drug metabolism
- Phase 1 enzymes
- Genetic polymorphism associated with metabolism

**Routes of drug elimination**
- Data processing in pharmacokinetics / modeling
- Pharmacokinetics and administration rules
- Applications from the pharmacokinetics to the clinical
- Nonlinear pharmacokinetics

Tutorials

Pharmacokinetics

* Classes (all students in amphitheater), Tutorials (small groups of students)

Assessment

Final exam about classes and tutorials.

Contacts

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