

PHAR 500: Principles of Clinical Pharmacology

In partnership with NIH Clinical Center This course delivered by the NIH Clinical Center is an online lecture series covering the fundamentals of clinical pharmacology as a translational scientific discipline focused on rational drug development and utilization in therapeutics. The course focuses on the following core principles of pharmacology: pharmacokinetics; drug metabolism and transport; drug therapy in special populations; assessment of drug effects; drug discovery and development; pharmacogenomics and pharmacotherapy. This course will be of interest to graduate students, postdoctoral Fellows, medical and pharmacy students, scientists, and health professionals interested in expanding their pharmacology knowledge base.

Learning Objectives

- Provide an in-depth look at drug absorption, distribution, metabolism, and excretion
- Describe the impact of age, pregnancy, and disease on pharmacokinetics
- Describe the basic principles in the assessment of drug effects
- Describe the process of drug discovery and development
- Provide an overview of clinical pharmacotherapy, including pharmacogenomics and medication safety
- For questions regarding course content, please email cc-od_clinp@mail.cc.nih.gov.

Credits: 4

Class Type: Graduate Course

Program: Biochemistry, Chemistry, Pharmacology, and Toxicology

Availability Fall 2021