

Pharmacology, Anesthesia and Intensive Care



Objectives of the module

Participants

- understand how sex differences in pharmacokinetics and pharmacodynamics modulate drug effectiveness and adverse effects.
- know the central aspects of pharmaceutical therapy in pregnancy and during breastfeeding.
- are familiar with the gender-specific management of patients in anesthesia and intensive care.

Content of the module

- Students learn how sex differences in pharmacokinetics influence the metabolism and the distribution of drugs and how interactions with sex hormones affect drug metabolism.
- In pharmacogenetics sex-specific differences are complemented with an overview over the impact of genetic variability in drug metabolism, transport and mechanism of action on drug effectiveness and the risk of adverse drug reactions.
- In perinatal pharmacology, pharmacotherapy in pregnancy and during breastfeeding are presented.
- We discuss advantages and disadvantages of the inclusion of both sexes in all phases of drug development.
- In anesthesia we focus on sex specific effects and dosing of important drugs.
- In intensive care we discuss sex differences in specific medication-based treatments and technological support through devices.

Methods

The course consists of lectures, discussions and group work.

Proof of performance

Group work during the course.

Preparation and follow-up

Ten hours preparation (reading), no follow-up

Credits

1 ECTS-Point and CME-Points

Target group

Health care professionals and biomedical researchers, specialists from related fields; a university degree at Master's level is required.

Lecturers

Prof. Dr. med. Dr. h.c. Vera Regitz-Zagrosek (Chair)
PD Dr. phil. nat. Ursula Amstutz
Dr. med. Giovanna Brandi
PD Dr. med. Martin Schläpfer
Prof. Dr. pharm. Ursula von Mandach

Date

28 – 29 October 2021

Place

Centre for Continuing Education, University of Zurich

Language

English

Course fee

CHF 960.–

Deadline

15 September 2021

Registration

www.gender-medicine.ch