

Oncology



Objectives of the module

Participants

- have an overview on sex differences in oncology and the scientific, clinical and societal implications of sex differences for prevention, diagnosis and treatment of cancer.
- are familiar with the combined impact of sexual hormones and sex chromosomes on cancer susceptibility with a focus on intrinsic control of cancer initiating cell populations, tumor microenvironment and systemic determinants of cancer development.

Content of the module

- Rationale for considering gender in cancer prevention and treatment
 - Sex differences in epidemiology of various cancers
 - Sex and gender differences in carcinogen exposition
- Sex chromosomes and their impact on cancer susceptibility
- Impact of sex on systemic determinants of cancer development: immunity, tumor microenvironment, cancer initiating cells, metabolism, microbiome
- Clinical implications of sex and gender differences in cancer
 - Sex differences in response and toxicity of anticancer therapies
 - Sex differences in oncological surgery and radiotherapy outcomes
 - Implications for clinical trial design and reporting of results
 - Sex-specific drug dosing strategies?
 - Sex-specific cancer prevention efforts?

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. Paolo Dotto (Chair)
Dr. med. Berna Özdemir
PD Dr. med. Anna Wagner

Date

28 – 29 June 2021

Place

University of Bern, Mittelstrasse 43, 3012 Bern

Language

English

Course fee

CHF 960.–

Deadline

20 May 2021

Registration

www.gender-medicine.ch