



DEPARTMENT OF ONCOLOGY-PATHOLOGY

K7F5505, Clinical Oncology for Pre-clinical Doctoral Students, 1.5 credits (hec)

Klinisk onkologi för prekliniska doktorander, 1,5 högskolepoäng

Third-cycle level / Forskarnivå

Approval

This syllabus is approved by the The Committee for Doctoral Education on 2024-01-30, and is valid from autumn semester 2024.

Responsible department

Department of Oncology-Pathology, Faculty of Medicine

Prerequisite courses, or equivalent

The course is in English but understanding Swedish is recommended since the course is partly based at the clinic.

Purpose & Intended learning outcomes

Purpose

The aim of this course is to introduce preclinical PhD students, with no or little education in clinical oncology and who do research within the field of cancer, to clinical cancer care and modern concepts of cancer treatments in order to educate a new generation of pre-clinical cancer researchers and to give a broad overview of translational cancer research focusing on clinical oncology. In the future, these researchers will be the backbone of Cancer Tumor Boards and part of the clinical decision-making in cancer.

Intended learning outcomes

After completing the course, the participants should be able to:

- Understand clinical cancer management, personalized cancer medicine and outcome evaluation in cancer in order to make decisions based on scientific evidence.
- Understand the concept of modern cancer treatments in relation to basic cancer biology.
- Reflect on and discuss the concept of clinical trials, the role of translational research and the

challenges thereof.

- Reflect on and discuss the most important problems that need to be solved in cancer.
- Reflect on and discuss future goals in cancer prevention, diagnostics and therapy.

Course content

- Participation in the scheduled clinical work and multidisciplinary cancer conferences.
- Seminars and group discussions.
- A central concept of the course is clinically centered teaching where the student will follow a clinician specialized in the field of the student's area of research. The course deals with clinical oncology, new concepts in cancer management, clinical trials and how to apply translational cancer research in the clinic. Further the student will be encouraged to consider the practical importance of cancer research and what it means to have a clinical perspective in research. Different types of cancer will be represented.

Forms of teaching and learning

The course consists of group seminars, group discussions and participation in the clinical work including multidisciplinary conferences in the clinical field of the student's area of research. Full time for one week.

Language of instruction

The course is given alternately in Swedish and English

Grading scale

Pass (G) /Fail (U)

Compulsory components & forms of assessment

Compulsory components

The group seminars and clinical participation are compulsory. Single missed occasions can be compensated during the course after discussion with the course director.

Forms of assessment

Assessment is conducted through participation in the clinical work and the course seminars where the student is expected to demonstrate an ability to discuss on principles in personalized cancer management in relation to translational cancer research.

To pass the course, the participant is required to have achieved all intended learning outcomes of the course and completed all assignments as well as participated actively in group discussions during the course.

Course literature

Reference literature:

Handouts and articles for the group seminars.

Weinberg R.A. The Biology of Cancer (2013)

Nilbert M. Klinisk Onkologi (2013)

Lyman H. Oxford American Handbook of Oncology Ed.2 (2015)

<https://oxfordmedicine.com/view/10.1093/med/9780199689842.001.0001/med-9780199689842>

Web-based lectures.