



DEPARTMENT OF CLINICAL SCIENCE AND EDUCATION, SÖDERSJUKHUSET

S1F3173, Clinical Trials in Cardiovascular Research, 1.5 credits (hec)

Kliniska prövningar inom kardiovaskulär forskning, 1,5 högskolepoäng

Third-cycle level / Forskarnivå

Approval

This syllabus was approved by The Committee for Doctoral Education on 2024-09-18, and was last revised on 2025-09-07. The revised course syllabus is valid from spring semester 2026.

Responsible department

Department of Clinical Science and Education, Södersjukhuset, Faculty of Medicine

Prerequisite courses, or equivalent

No prerequisite courses, or equivalent, demanded for this course.

Purpose & Intended learning outcomes

Purpose

To enable doctoral students to:

- Improve their knowledge and skills related to clinical trial planning and design as well as successful running of different types of clinical trials (observational studies, registries, randomized trials);
- Acquire an overview of some recent key trials in the cardiovascular arena.

Intended learning outcomes

After the course, the participants should be able to:

- write the protocol of a clinical trial while considering important methodological aspects
- interpret trial data
- critically review literature of clinical trials
- handle important statistical issues (e.g. different types of adjustments for confounders, biases, how to perform subgroupanalysis in trials, statistical methods for meta-analyses) related to different trial designs (e.g. observational studies, registries, randomized trials)

and meta-analyses).

Course content

Lectures/Workshops on the following topics:

- 1) Different designs of clinical trials,
- 2) How to write a protocol for a clinical trial,
- 3) Upcoming and ongoing cardiovascular clinical trials,
- 4) Statistical issues in clinical trials,
- 5) How to interpret clinical trials

Forms of teaching and learning

- Lectures/workshops, debates on important clinical trials (4 days)
- Preparation of the exam - group work (0.5 day)
- Presentation and discussion of your own protocol of a clinical trial (0.5 day)

Language of instruction

The course is given in English

Grading scale

Pass (G) /Fail (U)

Compulsory components & forms of assessment

Compulsory components

Participants should attend all the sessions and be involved in group work and presentation of the group assignment. The students who have missed course sessions will be assigned extra-reading and home work to compensate the absence.

Forms of assessment

Group assignment (design of the protocol of a clinical trial on a topic of students' choice) which will be presented/discussed on the examination date. Each individual will be assessed on the basis of the achievement of the intended learning outcomes of the course.

Course literature

Recommended reading materials will be provided well in advance of the course.