



INSTITUTE OF MEDICINE

SM00099 Systematic reviews and meta-analysis, 3 credits

Systematiska översikter och metaanalyser, 3 högskolepoäng

Third-cycle level / Forskarnivå

Confirmation

This syllabus was confirmed by the Council for PhD Education at Sahlgrenska Academy on 2019-01-31, and is valid from Spring semester 2019.

Responsible Department

Institute of Medicine, Sahlgrenska Academy

Entry requirements

Admitted to PhD studies.

Learning outcomes

Knowledge and understanding

After completing the course, the students will understand the motivation of systematic reviews and meta-analysis in medicine and healthcare and will grasp the rudiments of systematic reviews and meta-analysis.

Skills and ability

Students will be able to plan and carry out their own systematic reviews and meta-analysis.

Judgement and approach

Students will develop hands-on skills in reading and critiquing evidence synthesis papers in medicine and healthcare.

Course content

- Formulating a research question
- Defining inclusion and exclusion criteria
- Developing a search strategy and locating primary studies

- Selecting studies and assessing their quality
- Performing fixed-effect and random-effects meta-analyses
- Exploring heterogeneity across studies
- Assessing publications bias
- Performing meta-regression analyses
- Performing subgroup and sensitivity analyses

Types of instruction

- Lectures
- Computerbased laboratory sessions
- Group discussions

Language of instruction

The course is given in English.

Grades

The grade Pass (G) or Fail (U) is given in this course.

Types of assessment

Group work: each group will be assigned a topic to undertake a systematic review and metaanalysis, which will be presented to the class on the last day of class. Each student in each group will thereafter write a report of the group work and submit at latest 2 weeks after the course.

A doctoral student has the right to request a change of examiner if failed twice on the same exam, if this is practically possible. Such a request should be put forward in writing and addressed to the institute.

Course evaluation

Students will be given a questionnaire to grade different aspects of the course.

Other information

This syllabus was confirmed by the Council for PhD Education at Sahlgrenska Academy on 28-08-2018, and is valid from the spring semester 2019 (reg.nr.: U 2018/457). It was entered into FUBAS on 31-01-2019.