



MF9010E-Introductory Course to the medical PhD programme, Intro I 2014

	Monday Aud 3 Harald Schjelderups hus	Tuesday Aud 3 Harald Schjelderups	Wednesday Aud 4 Harald Schjelderups	Thursday Aud 2 Harald Schjelderups	Friday Aud 3 Harald Schjelderups
0900-0945	Welcome and introduction to the course Eivind Engebretsen/Line M. Grønning-Wang Group work I	Philosophy of Science II: Explanation and Causality Bjørn Hofmann	Epidemiology Per Nafstad	Biomedicine and Bioinformatics Robert Lyle	Statistics Jon Michael Gran
1000-1045	Group work I (cont)	Philosophy of Science II: (cont.)	Epidemiology (cont) Per Nafstad	A critical review of research methodology Nina K Vøllestad	Statistics (cont)
1100-1145	11-11.15: MedDocs/PhD forum 11.30-12.15: What is medical and life science? Ludvig Munthe	Group work 2 Bjørn Hofmann	Health research in context Øivind Larsen	Article workshop Eivind/Line	Statistics (cont)
1145-1230	HOT TOPICS Helsam	1145-1230 lunch	1145-1230 lunch	1145-1230 lunch	1145-1230 lunch
1230-1315	1255-1330 lunch	Philosophy of Science III: Understanding and Interpretation Per Nortvedt	Workshop 2 Molecular and Cellular Biology Harald Stenmark	Qualitative research Anne-Lise Middelthun	Research Ethics with examples from student texts. Helseforskningsloven. Jan Helge Solbakk
1330-1415	Philosophy of Science I: What is scientific knowledge? Bjørn Hofmann	Methods in Medical Research Magne Nylenna	Translational Research Ian Mills	Workshop 3 1. Psychiatric research Ole A. Andreassen 2. General Practice Elin Rosvold	Research ethics (cont.) Jan Helge Solbakk
1430-1515	Philosophy of Science I: What is scientific knowledge? Bjørn Hofmann	Methods in Medical Research incl. examples of student texts Magne Nylenna	Stem cells Jan Brinchmann	3. Nutrition Kjetil Retterstøl 4. Medical Research Kåre Birkeland	Group work 3 Jan Helge Solbakk
1530-1615	HOT TOPICS IKM	Workshop 1: 1. Minority Health (Anne Karen Jenum) 2. Psychological perspectives (Deborah Reas)	HOT TOPICS IMB	5. Surgical Research Jøran Hjeltnes 6. Health Economics Terje Hagen	Ethics of Science Jan Helge Solbakk

Aim of the course

The overall aim of the Intro I course is to introduce basic knowledge in the philosophy, history, ethics and methods of science with specific focus on convergence and interdisciplinary approaches.

Medical research has become interdisciplinary. Cross-disciplinary cooperation and integration of multiple research fields has allowed the development of new knowledge and enabled new applications. This development is often called convergence. In this course, we will exemplify convergence by showing how a multifaceted problem can be

addressed from different angles. We have chosen morbid obesity as our case; this thematic area will be employed in order to give participants concrete examples of general principals and approaches. It should, however be noted that the course is not a formalized introduction to obesity research – the case merely exemplifies modern research trends.

Multiple, integrated methods and tools can be applied to elucidate this thematic area including randomized controlled trials, R&D initiatives in primary health care, municipal initiatives, programs for increased physical activity and cooperation with NGOs are examples. In the social context, prevention requires increased awareness in schools and in the public, as well as enhanced knowledge of nutrition, public health initiatives, product innovation, dissemination of healthcare products and political decision making.

This course provides an introduction to a variety of scientific perspectives and skills that are required to address such a complex issue. The course includes research within ethics and philosophy of science, epidemiology and statistics. In addition, genetic studies, basic research studies, cell physiology and pathophysiology, and studies of laboratory animals are introduced. The students will work in groups to elucidate the issue from their own point of view.

About the course

This one week course consists of lectures, 3 «Hot Topics»-lectures, 3 workshops and 3 group works.

- Before the start of the course, participants must send in a description of themselves and own research project (<https://nettskjema.uio.no/answer/59306.html>). This description is actively used by the lecturers as examples (e.g. in the lecture “Methods in Medical Research”).

- 3 group works are linked to the previous lectures with discussion on thematic areas.

- **Hot Topics.** Short presentations by young researchers (PhD or postdoc) on cutting-edge research at the Medical Faculty, UiO (Klinmed, IMB and Helsam).

- **Workshops** with introduction to research in different medical disciplines with focus on research methodology.

- **Article workshop.** Before the Article workshop on Thursday, the participants must find a PubMed registered article within own research field with focus on obesity. The article is presented for your fellow group members in the Article workshop with specific focus on scientific methods and controls.