



Karolinska Institutet

*Postgraduate course:
Sex/Gender aspects in biomedical research (1.5 points)*

Karolinska Institutet,
Department for Clinical science, Intervention and Technology (CLINTEC),
Section for Obstetrics and Gynecology, Karolinska University hospital-
Huddinge campus, Stockholm, Sweden

Time: 2010-05-17 2010-05-21

Place: K-64 lecture room 1, Karolinska University Hospital -Huddinge
campus (6th floor)

Course leader:

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Endorsed by:

■ **Centrum för genusmedicin** at Karolinska Institutet,
CLINTEC, DECs and RGD networking, as well as EU life long learning
educational program EUGIM



Gender/sex aspects in biomedical research

Course leader(s): Karolina Kublickiene MD PhD; Department of Clinical Science, Intervention and Technology (CLINTEC), Div. Of Obstetrics and Gynecology, Karolinska University Hospital-Huddinge campus.

Administrator: Nadine Khammari (Nadine.khammarii.se)

(In collaboration with centre for Gender Medicine at KI)

The course **aims** to introduce Gender medicine as a new important scientific field focusing on differences between men and women in both health and disease.

Men and women differ significantly in every system of the body and experience health and disease differently. The exploitation of sex variable in scientific investigations will help us to front questions and consequences that are of fundamental importance for the prevention, detection and/or treatment of illness.

The course is for both preclinical and clinical researchers embarking upon the PhD career in medicine, and those who wish to “catch up” on recent expansion about the difference between men and women in both health and disease.

We shall discuss some basic methodologies, theories and cellular biology, which will be considered in the relation to clinically relevant topics important for gender medicine. Several diseases of public health concern have been already identified. Those include cardiovascular diseases, lung diseases, neuropsychiatric disorders, steroid metabolism disorders as well as inflammatory and autoimmune diseases.

Moreover pharmacological aspects as well as health economical issues need to be considered in each of those conditions. Finally, further exploration of experimental models that could help to broaden our understanding of the disease process pertinent to the defined sex needs be discussed.

One week course will included mainly lectures in the biomedical field, in which gender and sex aspects should be primarily considered. Discussion forums will be organized, as well as the project work will be introduced.

Duration: one week from (1.5 points)

We aim that after the course:

1. Students should be able to distinguish between the terms sex and gender
2. Students should be able to evaluate the suitability of the design and analysis of preclinical and clinical research studies (e.g. their PhD project) to identify and quantify potential of sex and gender differences.
3. Students should be able to illustrate the scientific basis of known sex and gender differences.
4. Students should be able to identify known sex and gender differences with regard to diseases, and differences in response to or effects of drugs and other medical interventions in the treatment and management of these conditions.

