

# MOTHER-CHILD HEALTH

Monday 6 August 2018 – Friday 10 August 2018  
Faculty of Health Science, Aarhus University  
Aarhus, Denmark

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## Objective

During this course you will be introduced to how factors in the parents' health and during pregnancy can influence the development and health of the fetus and the child up to the age of puberty. The course is multidisciplinary and brings together teachers from many different areas of expertise.

Sample topics:

- Lifestyle and medical factors that influence fecundity
- Maternal lifestyle during pregnancy and reproductive health in sons and daughters
- Lifestyle habits in Danish pregnant women
- Preterm delivery and long-term follow-up
- Fertility and pregnancy in the Arctic
- Genetic and prenatal environmental factors in ASD, ADHD, and schizophrenia
- Diabetes/obesity and mother-child health
- Medication exposure and its importance to pregnancy/fetus
- Environmental exposures during pregnancy, molecular mechanisms and hormone disruption
- Preconceptional and prenatal occupational exposures and allergic disease in the offspring
- Cost-benefit analyzes of early efforts for children's well-being and learning

The course include presentations of data from different birth cohorts including Danish National Birth Cohort (DNBC), Aarhus Birth Cohort, ACCEPT from Greenland, MISA from Norway, and Shanghai Cohort from China.

## Course leader

Professor Eva Cecilie Bonefeld-Jørgensen, Professor in Human Environmental Toxicology and Director of Center for Arctic Health & Molecular Epidemiology, Department of Public Health, Aarhus University

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Victor Albeck Building, Vennelyst Boulevard 4, 8000 Aarhus C

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The parents' health and other factors during pregnancy can influence fetus growth and development, neonatal and child cognitive development and health, preschool and school health and performance, and puberty development.

Focus in this course will be on how lifestyle, diet and environmental exposures during pregnancy can affect fecundity, fetal and infant growth, and CNS development - including ASD, ADHD, schizophrenia and Cerebral Palsy. The course will also address health risk by genetic susceptibility assessed by genetic polymorphisms and epigenetic analyses that might elucidate the environmental exposures and risk for poor neurodevelopmental outcome.

Teaching typically includes 1-2 hours of lectures followed by a discussion of related literature. For each lecture, a designated team prepares a presentation for the class and designated opponents prepare questions for the team. Expect classroom teaching from 9am to 2pm followed by homework and group assignments (2.5 ECTS).

The exam is a group exercise. At the beginning of the course, teams of 3-4 participants receive a relevant topic for group work. At the end of the course, the team submits a report of max 5 pages to be presented and discussed in plenum.

## General information

Price: free

Level: Master's level

Max. no. of participants: 30 (15 places are reserved participants of the Research Honours Programme)

Eligibility: min. 3 years of relevant Bachelor's studies – if more applicants than places we will prioritize students from partner universities, and applicants' prior experience and grades will be taken into account

Registration: please mail [tanja.hansen@au.dk](mailto:tanja.hansen@au.dk) to request registration form, program and info on practicalities

Application deadline: June 11 2018

Venue: the former maternity clinic of Aarhus University Hospital (illustrated below)

