

Press release

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Basic information

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Department of: Public Health

Main supervisor: Cecilia Høst Ramlau-Hansen

Title of dissertation: Early Life Exposures and Genital Anomalies in Boys. Nationwide Cohort Studies in Denmark and Sweden

Date for defence: 2018-04-20 at (time of day): 12.00 Place: Eduard Biermann Auditorium

Press release (Danish)

Mors sygdomme i graviditeten og misdannelser i drenges kønsorganer

De medfødte misdannelser i drenges kønsorganer, kryptorkisme og hypospadi, er blandt de hyppigste misdannelser hos nyfødte drenge. Misdannelserne kræver som regel kirurgisk behandling i barndommen og drengene har en øget risiko for testikelkræft og infertilitet senere i livet. Årsagerne til misdannelserne er fortsat stort set ukendte.

I et nyt ph.d.-projekt fra Aarhus Universitet, Health, har læge og ph.d.-studerende Linn Håkonsen Arendt udført landsdækkende register-baserede undersøgelser i Danmark og Sverige. Projektet har undersøgt hvorvidt moderens overvægt og sygdomme under graviditeten øger forekomsten af misdannelserne. Et særligt fokus har været på de fedme-relaterede sygdomme i graviditeten; sukkersyge, forhøjet blodtryk og svangerskabsforgiftning.

Resultaterne viste at overvægt og fedme i graviditeten var forbundet med en øget forekomst af kryptorkisme og hypospadi. Endvidere viste undersøgelserne, at de nævnte sygdomme var forbundet med en øget forekomst af misdannelserne. Kvinder med de sværeste tilfælde af sygdommene havde den højeste risiko.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 20/4 kl. 12.00 i Eduard Biermann Auditoriet, Søauditorierne, Aarhus Universitet, Bartholins Allé 3, 8000 Aarhus C. Titlen på projektet er "Early Life Exposures and Genital Anomalies in Boys. Nationwide Cohort Studies in Denmark and Sweden". Yderligere oplysninger: Ph.d.-studerende Linn Håkonsen Arendt, e-mail: lha@ph.au.dk, tlf.: +45 27210981

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Press release (English)

Maternal diseases in pregnancy and genital anomalies in boys

The two congenital malformations in the reproductive organs of boys, cryptorchidism and hypospadias, are among the most common malformations in new-born boys. The malformations often require corrective surgery during childhood and the boys carry a higher risk of testicular cancer and infertility later in life. Still, the aetiology remains largely unknown.

In a new PhD project from Aarhus University, Health, MD and PhD student Linn Håkonsen Arendt has performed nationwide register-based studies in Denmark and Sweden. The project has investigated whether maternal overweight and diseases in pregnancy increase the occurrence of the malformations. A special focus has been on the obesity-related diseases of pregnancy; diabetes, hypertension and preeclampsia.

The results showed an association between overweight and obesity in pregnancy and the occurrence of cryptorchidism and hypospadias. Furthermore, the studies showed that the diseases were associated with a higher occurrence of the malformations. Women with the most severe diseases had the highest risk.

The defence is public and takes place on 20th of April, 2018 in Eduard Biermann Auditorium, Aarhus University, building 1252, Bartholins Allé 3, 8000 Aarhus C. The title of the project is "Early Life Exposures and Genital Anomalies in Boys. Nationwide Cohort Studies in Denmark and Sweden." For more information, please contact PhD student Linn Håkonsen Arendt, e-mail: lha@ph.au.dk, Phone +45 27210981.

Assessment committee:

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