

Press release

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Basic information

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Department of: Clinical Medicine

Main supervisor: Tine Brink Henriksen

Title of dissertation: Early-onset neonatal infection and neurodevelopmental impairment

Date for defence: 8th May at (time of day): 14:00 Place: Aarhus University Hospital, Auditorium J116-113

Press release (Danish)

Bakteriel infektion hos nyfødte og risikoen for neurologiske senfølger

Denne ph.d.-afhandling bygger på et omfattende datasæt fra de danske nationale registre og sundhedsadministrative kilder. Afhandlingen har til formål at belyse sammenhængen mellem invasive bakterielle infektioner i den første leveuge, herunder sepsis og meningitis, og risikoen for langvarige neurologiske senfølger.

Det første studie evaluerer validiteten af diagnoserne for tidligt indsettende infektioner i Landspatientregisteret, mens de efterfølgende tre kohortestudier analyserer sammenhængen mellem infektionerne og forskellige udfald i barndommen, herunder skolepræstation, udviklingsforstyrrelser og epilepsi.

Afhandlingen antyder, at nyfødte udsat for en invasiv bakteriel infektion har en øget risiko for neurologiske senfølger i barndommen. Disse resultater peger på behovet for forbedret forebyggelse og behandling af bakterielle infektioner tidligt i livet.

Projektet er gennemført af Mads Andersen, der forsvare det d. 08/06

Forsvaret af ph.d.-projektet er offentligt og finder sted den 08/05 kl. 14:00 i Auditorium J116-113, Aarhus Universitetshospital, Palle Juul-Jensens Blvd. 99, Aarhus. Titlen på projektet er "Bakteriel infektion hos nyfødte og risikoen for neurologiske senfølger". Yderligere oplysninger: Ph.d.-studerende Mads Andersen, e-mail: mads.andersen@clin.au.dk, tlf. +45 3150 7977.

Bedømmelsesudvalg: Christian Morberg Wejse, Professor, Institut for Klinisk Medicin, Aarhus Universitet, Aarhus, Danmark. Siri Eldevik Håberg, Professor, Center for Fertilitet og Sundhed, Institut for Folkesundhedsvidenskab, Oslo, Norge. Eric Giannoni, Klinisk Lektor, Klinik for Neonatologi, Institut for Mor-Kvinde-Barn, Lausanne Universitetshospital, Lausanne, Schweiz.

Press release (English)

Early-onset neonatal infection and neurodevelopmental impairment

This PhD dissertation draws on a comprehensive dataset from the Danish national registries and health administrative data. It examines the association between invasive bacterial infections during the first week of life, including sepsis and meningitis, and the risk of long-term neurodevelopmental impairments. The first study evaluates the validity of early-onset neonatal infection diagnoses in the Danish National Patient Registry, while the following three cohort studies investigate the association between these infections and childhood outcomes, including school performance, neurodevelopmental disorders, and epilepsy.

The dissertation implies that children exposed to an early-onset neonatal infection are at an increased risk of long-term neurodevelopmental impairment. These findings highlight the need for improved prevention and treatment of infections in early life.

The project was carried out by Mads Andersen, who is defending his dissertation on 08/05.

The defence is public and takes place on 08/05 at 14:00 in Auditorium J116-113, Aarhus University Hospital, Palle Juul-Jensens Blvd. 99, Aarhus. The title of the project is "Early-onset neonatal infection and neurodevelopmental impairment". For more information, please contact PhD student Mads Andersen, email: mads.andersen@clin.au.dk, Phone +45 3150 7977.

Assessment committee: Christian Morberg Wejse, Professor, Department of Clinical Medicine, Aarhus University, Aarhus, Denmark. Siri Eldevik Håberg, Professor, Center for Fertility and Health, Institut of Public Health, Oslo, Norway. Eric Giannoni, Associate Professor, Clinic of Neonatology, Department of Mother-Woman-Child, Lausanne University Hospital, Lausanne, Switzerland.

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