

Press release

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Basic information

Name: Lise Haaber Thomsen Email: lise.thomsen@post.rm.dk Phone: +45 26641559

Department of: Clinical Medicine

Main supervisor: Peter Humaidan, Professor, Dr Med

Title of dissertation: The impact of luteal serum progesterone levels on reproductive outcomes following IVF treatment and fresh embryo transfer.

Date for defence: 14-08-2018 at (time of day): 14:00 Place: Festsalen, Regionshospitalet Skive, Resenvej 25, 7800 Skive.

Press release (Danish)

"Betydningen af hormonniveauer for opnåelse af graviditet efter IVF behandling"

I Danmark fødes ca. 8-10% af hver fødselsårgang efter fertilitetsbehandling. En fertilitetsbehandling er både tidsmæssigt og emotionelt krævende og kan være et hårdt og stressende forløb for parret. Derfor er der konstant fokus på at forbedre behandlingen og dermed nedbringe tiden fra behandlingsopstart til fødsel af et barn.

Formålet med dette phd-projekt var at opnå en mere detaljeret viden om betydningen af hormon-niveauet hos kvinden i perioden efter, at det befrugtede æg er lagt tilbage i livmoderen. Man ved, at tilstedeværelsen af hormon (progesteron) er afgørende for, om det befrugtede æg kan sætte sig fast i slimhinden og udvikle sig til et levende foster. Imidlertid er det ikke tidligere belyst, hvor højt eller hvor lavt hormonniveauet ideelt set skal være efter en fertilitetsbehandling for, at chancen for graviditet er størst. I øjeblikket måles hormonniveauet ikke rutinemæssigt hos kvinden efter, at det befrugtede æg er lagt tilbage. I alt deltog 614 kvinder fra offentlige fertilitetsklinikker i Skive, Horsens, Odense og Herlev i studiet. Resultatet af phd-studiet viser, at både et meget lavt og et meget højt hormonniveau nedsætter chancen for at opnå graviditet og fødsel – således faldt chancen for fødsel af et levende barn fra 54% ved optimale hormonniveauer til 38%, hvis hormonniveauet var for højt.

Med denne nye viden åbnes op for en mere individualiseret fertilitetsbehandling til gavn for fremtidens patienter. Resultaterne fra phd-projektet er offentliggjort i internationale tidsskrifter og netop præsenteret på den årlige europæiske konference for fertilitet (ESHRE 2018).

Studiet er et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Læge Lise Haaber Thomsen.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 14. august 2018 kl. 14:00 i Festsalen, Regionshospitalet Skive, Resenvej 25, 7800 Skive.

Titlen på projektet er "Betydningen af hormonniveauer for opnåelse af graviditet efter IVF behandling". Yderligere oplysninger: Læge Lise Haaber Thomsen, lise.thomsen@post.rm.dk, tlf. 26641559

Bedømmelsesudvalg:

Professor Axel Forman - chairman

Gynækologisk-Obstetrisk afdeling Y. Skejby Sygehus. Institut for Klinisk Medicin, Aarhus Universitet

Professor John Yovich

PIVET Medical centre, Perth, Western Australia, Australia. School of Biomedical Science, Curtin Health Innovation Research Institute, Biosciences, Curtin University, Perth.

Professor Nicholas Stephen Macklon,

Fertilitets- og Endokrinologisk klinik, Gynækologisk/Obstetrisk Afdeling
Sjællands Universitetshospital, Roskilde, Københavns Universitet.

Press release (English)

The impact of serum progesterone levels on reproductive outcomes following IVF treatment.

The aim of the present Phd thesis was to explore the impact of serum hormone levels on the chance of achieving a live birth following IVF treatment. The study included 614 patients undergoing IVF treatment at four public Danish fertility centers. The results of the present study suggest that very low as well as very high hormone levels following transfer of an embryo reduce the chance of live birth. Thus, the chance of a live birth was reduced from 54% with optimal hormone levels to 38% with very high hormone levels.

With this thesis, we hope to draw attention to the possibility of improving the chance of pregnancy following IVF treatment by monitoring hormone levels and thereby move towards a more individualized IVF treatment in the future.

The project was carried out by MD Lise Haaber Thomsen, who is defending her dissertation on August 14, 2018.

The defence is public and takes place on August 14, 2018 at 2 pm in Festsalen, Skive Region Hospital, Resenvej 25, 7800 Skive, Denmark. The title of the project is "The impact of serum progesterone levels on reproductive outcomes following IVF treatment".

For more information, please contact PhD student Lise Haaber Thomsen,
email: lise.thomsen@post.rm.dk, Phone +45 2664 1559.

Assessment committee:

Professor Axel Forman - chairman of the committee and moderator of the defence

Department of Obstetrics and Gynaecology Aarhus University Hospital Skejby Department of Clinical Medicin, Aarhus University

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