

**FORSKNINGS- OG UNDERVISNINGSAKTIVITETER 2010  
FERTILITETSKLINIKKEN, REGIONSHOSPITALET SKIVE**

a) **Forskningsansvarlig.**

Overlæge Peter Humaidan

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Side 1

b) **Ph.d.-studerende.**

(Navn og titel på ph.d.-projekt - igangværende pr.

31.12.2010. Indskrivningssted og samtlige vejledere med hovedvejleder nævnt først).

c) **Disputatser.**

d) Humaidan P

Controlled ovarian stimulation in women undergoing assisted reproduction – the role of LH during the follicular and luteal phases.

Faculty of Health Sciences, Aarhus University, Aarhus, Denmark

e) **Præsentation af afdelingens vigtigste forskningsaktivitet.**

(Prosatekst – ca. 15 linjer).

f) **Liste over alle igangværende forskningsprojekter.**

GnRH agonist and periovulatory hCG supplementation in IVF/ICSI cycles, in which ovulation was triggered with an GnRH agonist - a prospective randomised study.

Skive, Odense University Fertility Clinic, Holbæk Fertility Clinic, Brædstrup Fertility Clinic and Laboratory of Reproductive Biology, section 5712, Rigshospitalet.

LH receptor expression in human cumulus and mural granulosa cells according to stimulation regimen.

Skive, Laboratory of Reproductive Biology, section 5712, Rigshospitalet and the Microarray center Rigshospitalet

LH/hCG priming in stimulation protocols and possible endocrinological and clinical differences. Skive and Laboratory of Reproductive Biology, section 5712,

LH receptor expression in human cumulus and mural granulosa cells according to mode of inducing ovulation.

Skive, Laboratory of Reproductive Biology, section 5712, Rigshospitalet and the Microarray center Rigshospitalet

Investigation ID DK001

The effect of granulocyte-macrophage colony stimulating factor (GM-CSF) during in vitro culture of human embryos on subsequent implantation rates.

MediCult A/S

**g) Videnskabelige og populærvideenskabelige publikationer offentliggjort i 2010.**

1. Bungum M, Giwercman A, Bungum L, **Humaidan P**, Rastkhani H, Giwercman YL.  
Polymorphisms in the protein C inhibitor gene in in vitro fertilization failure.  
Fertil Steril 2010;93(1):277-9.
2. **Humaidan P**, Bredkjaer HE, Westergaard LG, Andersen CY.  
1,500 IU human chorionic gonadotropin administered at oocyte retrieval rescues the luteal phase when gonadotropin-releasing hormone agonist is used for ovulation induction: a prospective, randomized, controlled study.  
Fertil Steril 2010;93(3):847-54.
3. **Humaidan P**, Quartarolo J, Papanikolaou EG.  
Preventing ovarian hyperstimulation syndrome: guidance for the clinician.  
Fertil Steril 2010;94(2):389-400.
4. **Humaidan P**, Papanikolaou EG, Tarlatzis BC.  
Reply: GnRH $\alpha$  to trigger final oocyte maturation: a time to reconsider.  
Hum Reprod 2010;25(3):807-8.

5. **Humaidan P.**  
The role of endogenous and exogenous LH in ART.  
Reprod Biomed Online 2010;21:S8-S9
6. Kjotrod S, Carlsen SM, Rasmussen PE, Holst-Larsen T, Mellembakken J, Thurin-Kjellberg A, Kouru KH, Papunen LM, **Humaidan P**, Sunde A, von Durling V.  
Metformin treatment before and during IVF or ICSI in PCOS women with BMI < 28 kg/m?: a prospective, randomised, double-blind, multicenter study.  
Hum Reprod 2010;25(Suppl. 1):I286-I287
7. Kol S, **Humaidan P.**  
LH (as HCG) and FSH surges for final oocyte maturation: sometimes it takes two to tango?  
Reprod Biomed Online 2010;21(5):590-2.
8. Mikkelsen AT, Madsen SA, Ohrt L, Dessing L, **Humaidan P.**  
Psychological aspects of male infertility in a Scandinavian ICSI population - a prospective questionnaire study.  
Hum Reprod 2010;25(Suppl. 1):I50-I51
9. Papanikolaou E, Werpoest W, Fatemi H, Polyzos N, **Humaidan P**, Tarlatzis B, Devroey P, Tournaye F.  
Recombinant LH as luteal supplementation method after agonist triggering in IVF. A proof of concept study.  
Hum Reprod 2010;25(Suppl. 1):I167-I168
10. Papanikolaou EG, Fatemi H, Camus M, Kyrou D, Polyzos NP, **Humaidan P**, Tarlatzis B, Devroey P, Tournaye H.  
Higher birth rate after recombinant hCG triggering compared with urinary-derived hCG in single-blastocyst IVF antagonist cycles: a randomized controlled trial.  
Fertil Steril 2010;94(7):2902-4.
11. Papanikolaou EG, **Humaidan P**, Polyzos NP, Tarlatzis B.  
Identification of the High-Risk Patient for Ovarian Hyperstimulation Syndrome.  
Semin Reprod Med 2010;28(6):458-62.

h) **Undervisning.**  
**Postgraduate course: Peter Humaidan**

Critical assessment and interpretation of scientific papers  
*Fertility Forum, Nov, 2010, Nyborg Strand, Denmark*

i) **Videnskabelige kongresser.**

**Invited speaker – Peter Humaidan:**

Luteal phase rescue after GnRHa triggering  
ESHRE SIG CAMPUS  
*Madrid, Spain, 2010, December 3<sup>rd</sup>-4<sup>th</sup>*

Treatment strategies for poor responder patients  
The aging ovary in assisted reproduction  
*Copenhagen, Denmark, 2010, November 11-12<sup>th</sup>*

New options for triggering of ovulation  
SHAPE Conference  
*Skive, Denmark, 2010, November 4-5<sup>th</sup>*

Does LH play a role? – back to science  
SHAPE Conference  
*Skive, Denmark, 2010, November 4-5<sup>th</sup>*

OHSS prevention  
IVF preceptorship: Current practise in the 21<sup>st</sup> century  
*Madrid, Spain, 2010, 7<sup>th</sup>-8<sup>th</sup> October*

GnRH antagonists in the prevention of OHSS and the use of GnRHa  
trigger  
International Fertility Expert Input forum  
*Naples, Italy, 2010, 29<sup>th</sup>-30<sup>th</sup> September*

Final follicle maturation trigger with GnRH agonists  
6<sup>th</sup> World Congress on Ovulation Induction  
*Naples, Italy, 2010, 30<sup>th</sup> September – 2<sup>nd</sup> October*

Customized COS to patients needs  
The future of controlled ovarian stimulation  
*Naples, Italy, 2010, 2<sup>nd</sup> October*

LH supplementation in ART – does it make a difference  
Tailored approach to ART  
*Rio, Brazil, 2010, September 24<sup>th</sup>-25<sup>th</sup>*

New aspects of GnRHa triggering in ART  
Tailored approach to ART  
*Rio, Brazil, 2010, September 24<sup>th</sup>-25<sup>th</sup>*

The role of LH during the luteal phase  
Tailored approach to ART  
*Rio, Brazil, 2010, September 24<sup>th</sup>-25<sup>th</sup>*

Treatment strategies for poor responder patients  
Advanced Course in Human Reproduction and Embryology  
*Rome, Italy, 2010, June 26<sup>th</sup>*  
GnRHa triggering of ovulation – time for a paradigm shift?  
Lebanese University annual meeting 2010  
*Beirut, Lebanon, 2010, June 11<sup>th</sup>-12<sup>th</sup>*

GnRH antagonists in ART

Lebanese University annual meeting 2010

*Beirut, Lebanon, 2010, June 11<sup>th</sup>-12<sup>th</sup>*

Triggering of ovulation with GnRHa

Regulation of follicle development and its clinical implications

*Beaune, France, 2010, May 28<sup>th</sup>-29<sup>th</sup>*

Can we reduce/prevent the occurrence of OHSS

Elonva Launch Symposium

*Copenhagen, Denmark, 2010, May 10<sup>th</sup>*

Poor and low responders and the use of LH supplementation

Personalized approaches to improve outcomes

Serono Symposia international

*Panama City, Panama, 2010, March 25<sup>th</sup>-27<sup>th</sup>*

Prediction of ovarian response in ART

Personalized approaches to improve outcomes

Serono Symposia international

*Panama City, Panama, 2010, March 25<sup>th</sup>-27<sup>th</sup>*

GnRH antagonists in ART

First Congress of Perinatal Medicine and Belgrade Days of  
Reproduction

*Belgrade, Serbia, 2010, March 12<sup>th</sup>-13<sup>th</sup>*

Role of LH in ART-back to science

*Beirut, Lebanon, 2010 February 11<sup>th</sup>.*

Role of LH in ART-back to science

*Amman, Jordan 2010 February 10<sup>th</sup>.*

Role of LH in ART-back to science

*Dammam, Saudi Arabia, 2010 February 9<sup>th</sup>.*

Role of LH in ART-back to science

*Riyadh, Saudi Arabia, 2010 February 8<sup>th</sup>.*

Role of LH in ART-back to science

*Tabuk Military Hospital, Saudi Arabia, 2010 February 7<sup>th</sup>.*

Role of LH in ART-back to science

*Abha, Saudi Arabia, 2010 February 6<sup>th</sup>.*

Role of LH in ART-back to science

Recent Advances in Assisted Reproductive Technology,  
Maternity and Children Hospital, Ministry of Health

*Jeddah, Saudi Arabia, 2010 February 6<sup>th</sup>.*

Role of LH in ART-back to science  
3<sup>rd</sup> International Symposium of IVF and Andrology  
*Jeddah, Saudi Arabia, 2010 February 4- 5<sup>th</sup>.*

**Oral presentation**

**Mikkelsen AT**, Madsen SA, Ohrt L, Dessing L, **Humaidan P**  
Psychological aspects of male infertility in a Scandinavian ICSI  
population – a prospective questionnaire study.  
ESHRE, Rome, 2010, June 27<sup>th</sup> – 30<sup>th</sup>

**Chairman-Peter Humaidan**

The aging ovary in assisted reproduction  
*Copenhagen, Denmark 2010, November 11-12<sup>th</sup>*

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regionmidtjylland

Side 6

j) **Udvalgsarbejde og anden virksomhed/medlem af faglige og videnskabelige udvalg.**

k) **Videnskabelig bedømmer- Peter Humaidan**

Human Reproduction

Fertility and Sterility

Reproductive Biomedicine Online

Acta Obstetrica et Gynecologica Scandinavica

Archives in Gynecology and Obstetrics

Gynecological Endocrinology

Womens Health

Asian Journal of Andrology

l) **Priser, legater og fondsdonationer.**  
(Projekt, forsøgsansvarlig, fond, donation).