# Follicle diameter study: timing of human chorionic gonadotropin administration according to predetermined criteria of follicular size

Submission date	Recruitment status  No longer recruiting	<ul><li>Prospectively registered</li></ul>		
08/02/2007		☐ Protocol		
Registration date 08/02/2007	Overall study status Completed	Statistical analysis plan		
		[X] Results		
<b>Last Edited</b> 15/08/2011	Condition category Pregnancy and Childbirth	[] Individual participant data		

## Plain English summary of protocol

Not provided at time of registration

#### Contact information

## Type(s)

Scientific

#### Contact name

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# Additional identifiers

**Protocol serial number** N/A

# Study information

Scientific Title

#### Study objectives

To assess whether delayed administration of human Chorionic Gonadotropin (hCG) for controlled ovarian hyperstimulation for In Vitro Fertilisation (IVF) and embryo transfer leads to an increased advanced stage of endometrium, and prolonged exposure to high levels of estradiol which may result in a lower pregnancy rate.

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Approval received from the Ethics Board of the Academical Medical Center, Amsterdam, on the 20th July 2005 (ref: MEC 05/161 #05.17.1237).

#### Study design

Randomised, active-controlled, parallel group, multicentre trial

#### Primary study design

Interventional

#### Study type(s)

Treatment

#### Health condition(s) or problem(s) studied

In Vitro Fertilisation (IVF), timing of human Chorionic Gonadotropin (hCG) administration, follicle size

#### **Interventions**

hCG administration for follicular maturation when the dominant follicle measures 18 mm compared to hCG administration for follicular maturation when the dominant follicle measures 22 mm.

#### Intervention Type

Drug

#### Phase

**Not Specified** 

#### Drug/device/biological/vaccine name(s)

Human Chorionic Gonadotropin (hCG)

#### Primary outcome(s)

Ongoing pregnancy rate, defined as a positive foetal heartbeat by ultrasound at ten weeks after oocyte retrieval.

#### Key secondary outcome(s))

- 1. Endometrium thickness, three-layer aspect
- 2. Total days of controlled hyper stimulation
- 3. Total amount of recombinant FSH (rFSH) used
- 4. Total number of retrieved oocytes

- 5. Number of score one oocytes (IVF only)
- 6. Number of metaphase two oocytes (ICSI only)
- 7. Fertilisation rate
- 8. Number and quality of embryos
- 9. Pronuclear morphology
- 10. Presence of early cleavage
- 11. Daily morphological quality of embryos until transfer
- 12. Number of embryos suited for cryo-preservation
- 13. Ovarian Hyper-Stimulation Syndrome (OHSS)/discontinuation due a high risk of OHSS
- 14. Biochemical and clinical pregnancy rates, defined as a increase in serum hCG or a positive pregnancy test and positive heartbeat by ultrasound at seven weeks after oocyte retrieval, respectively

#### Completion date

01/04/2008

# **Eligibility**

#### Key inclusion criteria

- 1. Age between 18 and 42 and 11 months
- 2. Valid indication for IVF or Intra-Cytoplasmic Sperm Injection (ICSI)
- 3. Undergoing their first or second IVF/ICSI attempt
- 4. Normal Follicle-Stimulating Hormone (FSH) levels (less than 15)
- 5. Antral follicle count more than five for women between 40 and 43

#### Participant type(s)

**Patient** 

#### Healthy volunteers allowed

No

#### Age group

Adult

#### Lower age limit

18 years

#### Sex

**Not Specified** 

#### Key exclusion criteria

- 1. Endocrinopathological disease as: Poly-Cystic Ovarian Syndrome (PCOS), cushing syndrome, adrenal hyperplasia, hyperprolactinaemia, acromegaly, hypothalamic amenorrhoea, hypothyroidy, diabetes mellitus type one
- 2. Premature ovarian failure defined as a FSH level on cycle-day three of more than or equal to 15 IU at the age of 40
- 3. Low responders defined as follicle growth of less than three follicles during controlled ovarian hyperstimulation (including the dominant follicle)

#### Date of first enrolment

# Date of final enrolment 01/04/2008

#### Locations

#### Countries of recruitment

Netherlands

Study participating centre Academic Medical Centre Amsterdam Netherlands 1100 DE

# Sponsor information

#### Organisation

Academic Medical Centre (AMC) (The Netherlands)

#### **ROR**

https://ror.org/03t4gr691

# Funder(s)

# Funder type

Industry

#### **Funder Name**

Organon (The Netherlands)

# **Results and Publications**

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration

# Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/05/2011		Yes	No
Study website	Study website	11/11/2025	11/11/2025	No	Yes