The effect of pH on human embryo development

Published: 02-05-2017
Last updated: 17-04-2024

To study the in vitro development of embryos in a pH that better resembles the pH of the uterus.

Ethical review	Approved WMO
Status	Pending
Health condition type	Sexual function and fertility disorders
Study type	Observational non invasive

Summary

ID

NL-OMON44249

Source
ToetsingOnline

Brief title
Embryo pH

Condition

- Sexual function and fertility disorders

Synonym
subfertility

Research involving
(Surplus) Embryos

Sponsors and support

Primary sponsor: Academisch Medisch Centrum
Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: embryology, IVF, pH, preimplantation embryo

Outcome measures

Primary outcome

Blastocyst formation rate of human preimplantation embryos in each culture condition.

Secondary outcome

Number of cells per blastocyst and embryo gene expression patterns for each culture condition.

Study description

Background summary

Recent research showed the pH of the uterus to be different from the pH that is being used for the culture of embryos in the laboratory in a IVF treatment.

Study objective

To study the in vitro development of embryos in a pH that better resembles the pH of the uterus.

Study design

Left-over embryos will be randomly allocated to two different culture conditions.

Study burden and risks

Only left over, cryopreserved embryos are used for this study. These embryos would be otherwise discarded. The couples that donated these embryos have already finished their treatment. The couples have already given written consent for the use of their left over and cryopreserved embryos for research purposes. No additional involvement is required for the couples therefore no burden, risk or benefit is associated with this study.

Contacts

Public
Academisch Medisch Centrum

Meibergdreef 9
Amsterdam 1105 AZ
NL
Scientific
Academisch Medisch Centrum

Meibergdreef 9
Amsterdam 1105 AZ
NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Inclusion criteria

Left over, cryopreserved embryos that were donated with written consent from patients that underwent an IVF/ICSI treatment at the Center for Reproductive Medicine in the Academic Medical Center in Amsterdam, The Netherlands.

Exclusion criteria

NA

Study design

Design

Study type:	Observational non invasive
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Single blinded (masking used)
Control:	Active
Primary purpose:	Treatment

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	01-04-2016
Enrollment:	111
Type:	Anticipated

Ethics review

Approved WMO

Date:	02-05-2017
Application type:	First submission
Review commission:	CCMO: Centrale Commissie Mensgebonden Onderzoek (Den Haag)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
CCMO	NL56661.000.16