Analysis of gene-environmental factors before and early in pregnancy for predicting pregnancy complications

Published: 18-12-2013 Last updated: 08-03-2024

This research aims to determine factors involved in subfertility and serious pregnancy complications that arise early in pregnancy. Due to increased insight into the pathogenesis of these conditions, primary prevention should ultimately be possible.

Ethical review Positive opinion

Status Other

Health condition type Foetal complications **Study type** Observational invasive

Summary

ID

NL-OMON25560

Source

Nationaal Trial Register

Brief title PREDICT

Condition

Foetal complications

Synonym

Pregnancy, puerperium and perinatal conditions

Research involving

Human

Sponsors and support

Primary sponsor: Erasmus MC

Source(s) of monetary or material Support: SSWO

Intervention

Other intervention

Explanation

Outcome measures

Primary outcome

Fertility parameters, embryonic, fetal and placental growth parameters

Secondary outcome

Maternal and paternal health and diseases, epigenetic profiles in parents and child

Study description

Background summary

This study will lead to a better understanding of the pathogenesis of these diseases, an improved (already preconception) risk selection and possibly ultimately result in primary and secondary preventive strategies with regard to subfertility, pregnancy complications, and cardiovascular diseases later in life.

Study objective

This research aims to determine factors involved in subfertility and serious pregnancy complications that arise early in pregnancy. Due to increased insight into the pathogenesis of these conditions, primary prevention should ultimately be possible.

Study design

It is an observational cohort study that uses the data collected in the context of regular care as much as possible. Women can be included before pregnancy (preconception) and until 10 weeks of pregnancy.

Intervention

Not applicable

Study burden and risks

Venipuncture are part of the study and have minimal risks. There are ultrasound examinations and questionnaires which take time.

Contacts

Public

Erasmus MC, Erasmus University Medical Center Rotterdam R.P.M. Steegers-Theunissen

The Netherlands

Scientific

Erasmus MC, Erasmus University Medical Center Rotterdam R.P.M. Steegers-Theunissen

The Netherlands

Eligibility criteria

Age

Adults (18-64 years) Adults (18-64 years)

Inclusion criteria

- You have a child wish
- You are less than 10 weeks pregnant
- You are 18 years or older
- You are pregnant with a singleton
- You are being monitored by the Department of Obstetrics & Gynecology of Erasmus MC or you

have been monitored by the Department Reproductive Medicine of Erasmus MC

Exclusion criteria

- Oocyte donation
- You are not the biological father of the (unborn) child

Study design

Design

Study phase: N/A

Study type: Observational invasive

Intervention model: Other

Allocation: Non controlled trial

Masking: Open (masking not used)

Control: N/A, unknown

Primary purpose: Health services research

Recruitment

NL

Recruitment status: Other

Start date (anticipated): 14-01-2009

Enrollment: 0

Type: Actual

IPD sharing statement

Plan to share IPD: No

Ethics review

Approved WMO

Date: 12-10-2009
Application type: Amendment

Review commission: METC Erasmus MC, Universitair Medisch Centrum Rotterdam

(Rotterdam)

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

NTR-new NL4115 NTR-old NTR4356

Other METC-nummer: 2004-227 : TRC-nummer: R32

Study results

Summary results

- Steegers-Theunissen RP, Verheijden-Paulissen JJ, van Uitert EM. et al. Cohort Profile: The Rotterdam Periconceptional Cohort (Predict Study). Int J. Epidemiol. 2016; 45;374-81
- Melek Rousian, Sam Schoenmakers, Alex J Eggink, Dionne V Gootjes, Anton HJ Koning, Maria PH Koster, Annemarie GMGJ Mulders, Esther B Baart, Irwin KM Reiss, Joop SE Laven, Eric AP Steegers, and Régine PM Steegers-Theunissen Cohort Profile Update: the Rotterdam Periconceptional Cohort and embryonic and fetal measurements using 3 D ultrasound and virtual reality techniques. Int J. Epidemiol. 2021 Oct; 50(5): 1426-14271.