# 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

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### 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

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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
Туре:	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): 1426-1427I.