

Epigenetic effects of IVF in placental tissue

Gepubliceerd: 25-04-2008 Laatste bijgewerkt: 18-08-2022

There are differences in epigenetic parameters between placental tissues from spontaneous pregnancies and from IVF pregnancies.

Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON24203

Bron

NTR

Verkorte titel

N/A

Aandoening

IVF pregnancies

Ondersteuning

Primaire sponsor: Academic hospital Maastricht, the Netherlands

Overige ondersteuning: Self-financing research

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The expression levels of several imprinted genes in placental tissue from spontaneous and IVF pregnancies

Toelichting onderzoek

Achtergrond van het onderzoek

In animal models it has been demonstrated that assisted reproductive technologies (ART), such as ovarian stimulation and in vitro culture of embryos, can lead to abnormal epigenetic regulation of certain genes that are important during early development resulting in grossly abnormal foetal growth. Also in the human, own observations as well as those in published reports seem to indicate epigenetic deregulation after IVF and/or ICSI, albeit that the effects are less dramatic as in animal models. As the placenta has been shown as one of the tissues in which epigenetic deregulation leads to clearly aberrant methylation patterns and expression of imprinted genes, we hypothesize that differences in these epigenetic parameters will exist between placental tissues from spontaneous pregnancies and those resulting from IVF pregnancies.

Doel van het onderzoek

There are differences in epigenetic parameters between placental tissues from spontaneous pregnancies and from IVF pregnancies.

Onderzoeksopzet

Placental tissue is collected after birth

Onderzoeksproduct en/of interventie

None. In both groups, placental tissue will be collected after birth and examined for several epigenetic markers

Contactpersonen

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Patients pregnant after IVF or ICSI
2. Control group: spontaneous pregnant patients

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Twin gestations
2. Delivery before 37 weeks of gestation
3. Pregnancies after fertility treatment other than IVF or ICSI

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Anders
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	01-05-2008
Aantal proefpersonen:	200
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	25-04-2008
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL1252
NTR-old	NTR1298
Ander register	METC Maastricht : 07-2-111
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Resultaten

Samenvatting resultaten

N/A