

# In vitro culture of human embryos : effects on fetal development and the role of the placenta

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**In vitro culture of human embryos**  
**Effects on fetal development and the role of the placenta**

1. De oorzaak van de slechtere perinatale uitkomst na IVF is nog altijd onvolledig bekend. Onderzoek naar de veiligheid van IVF verdient meer aandacht. *(dit proefschrift)*
2. *In vitro* kweek van embryo's gedurende 2-3 dagen in 2 verschillende media resulteert, na correctie voor confounders, in een significant verschil in geboortegewicht na 9 maanden. *(dit proefschrift)*
3. De embryonale omgeving beïnvloedt de foetale ontwikkeling. De oorspronkelijke Barker hypothese dient in dit kader te worden bijgesteld. *(dit proefschrift)*
4. Adequate epigenetische regulatie van de placenta is belangrijk voor de foetale groei en ontwikkeling. *(dit proefschrift)*
5. In placenta's van IVF zwangerschappen zijn epigenetische veranderingen aanwezig. *(dit proefschrift)*
6. IVF kweekmedium fabrikanten dienen de exacte samenstelling van hun media openbaar te maken. *(dit proefschrift)*
7. Zonder vrouw is iedere man onvruchtbaar.
8. In Nederland wordt dyspareunie bijna altijd verkeerd uitgesproken.
9. Het begin van kennis is de ontdekking van iets wat nog onbekend is.
10. 's Nachts worden de beste ideeën geboren.
11. Life is not measured by the number of breaths you take, but by the times life takes your breath away. *(Vicki Corona)*

Ewka Nelissen  
Februari 2015