

Novel paradigms in successful IVF treatment

Novel paradigms in successful IVF treatment

Heijnen, Esther Mathilde Eugène Wilhelmus

The work presented in this thesis was performed at the Department of Reproductive Medicine, University Medical Center, Utrecht, The Netherlands and at the Division of Reproductive Medicine, Erasmus University Medical Center, Rotterdam, The Netherlands.

The work presented in this thesis was funded by ZonMw (The Netherlands), program Doelmatigheidsonderzoek (grant no. 945-12-010)

ISBN-10 90-393-4320-9

ISBN-13 978-90-393-4320-3

Cover and chapter pages: Gian van Eekelen (www.gian.nl)

Layout: Optima Grafische Communicatie, Rotterdam

Printed: Optima Grafische Communicatie, Rotterdam

Copyright © Esther Mathilde Eugène Wilhelmus Heijnen, 2006

No part of this thesis may be reproduced in any form or by any means, by print, photocopy, microfilm or any other means without permission of the author.

Niets uit deze uitgave mag worden verveelvoudigd en/of openbaar worden gemaakt door middel van druk, fotokopie, microfilm of welke andere wijze dan ook zonder voorafgaande schriftelijke toestemming van de schrijver.

Chapter 2-5 of this thesis are based on manuscripts that have been published previously.

Published manuscripts have been reproduced with explicit permission from the publisher:

2. Heijnen EM, Macklon NS, Fauser BC. What is the most relevant standard of success in assisted reproduction? The next step to improving outcomes of IVF: consider the whole treatment. Hum Reprod. 2004 Sep;19(9):1936-8 - **3.** Heijnen EM, Eijkemans MJ, Hughes EG, Laven JS, Macklon NS, Fauser BC. A meta-analysis of outcomes of standard IVF in women with polycystic ovary syndrome. Hum Reprod Update. 2006 Jan-Feb;12(1):13-21- **4.** Heijnen EM, Klinkert ER, Schmoutziger AP, Eijkemans MJ, Te Velde ER, Broekmans FJ. Prevention of multiple pregnancies after IVF in women 38 and older: a randomised study. RBM Online, In Press - **5.** Eijkemans MJ, Heijnen EM, de Klerk C, Habbema JD, Fauser BC. Comparison of different treatment strategies in IVF with cumulative live birth over a given period of time as the primary end-point: methodological considerations on a randomised controlled non-inferiority trial. Hum Reprod. 2006 Feb;21(2):344-51

Organon Nederland BV, NV Organon, Ferring Geneesmiddelen BV, Abbott Nederland BV, Eseato Pie Medical, Memidis Pharma and Medical Dynamics are gratefully acknowledged for their financial support in the publication of this thesis.

Novel paradigms in successful IVF treatment

Nieuwe paradigma's voor een succesvolle IVF behandeling

(met een samenvatting in het Nederlands)

Proefschrift

ter verkrijging van de graad van doctor aan de Universiteit Utrecht
op gezag van de rector magnificus, prof.dr. W.H. Gispen,
ingevolge het besluit van het college voor promoties
in het openbaar te verdedigen
op woensdag 13 september 2006 des middags te 2.30 uur

door

Esther Mathilde Eugène Wilhelmus Heijnen

geboren op 28 april 1975 te Wouw

Promotoren:

Prof. dr. B.C.J.M. Fauser

Prof. dr. N.S. Macklon

Co-promotoren :

Dr. M.J.C. Eijkemans

Dr. F.J.M. Broekmans

Beoordelingscommissie:

Prof. dr. H.W. Bruinse

Prof. dr. P. Devroey

Prof. dr. Y. van der Graaf

Prof. dr. J.L.L. Kimpen

Prof. dr. J. Passchier

Voor mijn ouders en Olivier

