Towards the responsible clinical implementation of stem cell-based fertility treatments

Hendriks, S.

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REFERENCES

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differentiate their attitudes on assisted reproduction technologies from those of the general population? *Hum Reprod.* 2007;22(7):2033-2039.
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References


References


APPENDICES

LIST OF CO-AUTHORS AND AFFILIATIONS
LIST OF PUBLICATIONS
PORTFOLIO
ACKNOWLEDGEMENTS
CURRICULUM VITAE
LIST OF CO-AUTHORS AND AFFILIATIONS

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**Mochtart MH**, Center for Reproductive Medicine, Department of Obstetrics and Gynaecology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands  
**Mol F**, Center for Reproductive Medicine, Department of Obstetrics and Gynaecology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands  
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**Repping S**, Center for Reproductive Medicine, Department of Obstetrics and Gynaecology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands  
**van der Veen F**, Center for Reproductive Medicine, Department of Obstetrics and Gynaecology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands  
**van Pelt AM**, Center for Reproductive Medicine, Department of Obstetrics and Gynaecology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands  
**van Wely M**, Center for Reproductive Medicine, Department of Obstetrics and Gynaecology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands  
**Vliegenthart R**, Amsterdam School of Communications Research, University of Amsterdam, Amsterdam, the Netherlands
LIST OF PUBLICATIONS

Publications in refereed journals

Publications under peer review in refereed journals

Publications in lay press
Hendriks S, Dancet EAF, Repping S. From assisted reproduction to artificial reproduction. Focus on Reproduction, September 2015, p24-26.
PORTFOLIO

1. PhD training

COURSES AND SEMINARS

General courses
The AMC World of Science  2014  0.7 ECTS
Entrepreneurship in Health and Life Sciences  2015  1.5 ECTS

Specific courses
Clinical Data Management  2014  0.3 ECTS
Qualitative Health Research  2014  1.9 ECTS
BROK (regulations and organisation for clinical investigators)  2016  1.0 ECTS

Seminars, workshops and master classes
Master class in vitro oogenesis, AMC.  2014  0.2 ECTS
Open access publishing, AMc/VUMc.  2015  0.2 ECTS
Ethical, Legal and Social Issues in ART, Geneva, Switzerland.  2015  1.3 ECTS
Valorisation, Innovation Exchange Amsterdam.  2015  0.2 ECTS
Putting your network to use, Innovation Exchange Amsterdam.  2015  0.2 ECTS
Professional performance and accountability, AMC.  2017  0.2 ECTS

PRESENTATIONS

Poster presentations of abstracts
Stem cell based therapies for non-obstructive azoospermia: key treatment characteristics according to infertile couples. European Society of Human Reproduction and Embryology, Munich, Germany.  2014  0.5 ECTS

Why couples with non-obstructive azoospermia (NOA) would use artificial gametes. MD-PhD conference, Groningen, the Netherlands. (prize)  2015  0.5 ECTS

The interest of gynaecologists in potential future fertility treatments involving artificial gametes for couples with ovarian failure. European Society of Human Reproduction and Embryology, Lisbon, Portugal.  2015  0.5 ECTS
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PORTFOLIO

1. PhD training

COURSES AND SEMINARS

General courses
- The AMC World of Science
- Entrepreneurship in Health and Life Sciences

Specific courses
- Clinical Data Management
- Qualitative Health Research
- BROK (regulations and organisation for clinical investigators)

Seminars, workshops and master classes
- Master class in vitro oogenesis, AMC.
- Open access publishing, AMC/VUMc.
- Ethical, Legal and Social Issues in ART, Geneva, Switzerland.
- Valorisation, Innovation Exchange Amsterdam.
- Putting your network to use, Innovation Exchange Amsterdam.
- Professional performance and accountability, AMC.

Year
- 2014
- 2015
- 2016
- 2017

Workload
- 0.7 ECTS
- 1.5 ECTS
- 0.3 ECTS
- 1.9 ECTS
- 1.0 ECTS
- 0.2 ECTS
- 0.2 ECTS
- 1.3 ECTS
- 0.2 ECTS
- 0.2 ECTS
- 0.2 ECTS

PRESENTATIONS

Poster presentations of abstracts
- Stem cell based therapies for non-obstructive azoospermia (NOA). European Society of Human Reproduction and Embryology, Munchen, Germany.
- Why couples with non-obstructive azoospermia (NOA) would use artificial gametes. MD -PhD conference, Groningen, the Netherlands. (prize)
- The interest of gynaecologists in potential future fertility treatments involving artificial gametes for couples with ovarian failure. European Society of Human Reproduction and Embryology, Lisbon, Portugal.
- The general public’s opinion on stem cell based fertility treatments: who should decide and on what? European Society of Human Reproduction and Embryology, Helsinki, Finland.

Year
- 2014
- 2015
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ECTS
- 0.5 ECTS
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Oral presentations of abstracts

Oral presentations as invited speaker
- Perspectives of infertile men on future stem cell treatments for non-obstructive azoospermia (NOA). Artificial Gametes Conference, Maastricht, the Netherlands.
- Why couples with non-obstructive azoospermia (NOA) would use artificial gametes. Dutch Society of Obstetrics and Gynecology, Gynaecongres, Apeldoorn, the Netherlands.
- Clinical implementation of stem cell based fertility treatments: biological progress and stakeholders’ perspectives. Brocher foundation, Geneva, Switzerland.
- Artificial gametes. Lucerne Fertility Symposium, Lucerne, Switzerland.
- Negotiating research methods for studying public perspectives on innovative technologies. Public participation in ethical, social and health policy issues of new genomic technologies, Geneva, Switzerland.
- Will artificial gametes restore fertility? Best of ASRM and ESHRE, Paris, France.
- Why (no) germline modification: perspective of the Dutch general public. IGO-Doelencongres. Rotterdam, the Netherlands.

Year
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### Appendices

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<td>Artificial gametes: stakeholders’ perspectives. Ethics and</td>
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<td>Regulation of In Vitro Gametogenesis, London, United Kingdom.</td>
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<td>Introduction of novel techniques into the practice: Lessons from the</td>
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<td>past, recommendations for tomorrow. World Congress on In Vitro</td>
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<td>Fertilization, Antalya, Turkey.</td>
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### (INTER)NATIONAL CONFERENCES

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<td>Nordic IVF Laboratory Society Meeting, Gothenburg, Sweden.</td>
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### STUDY PERIODS ABROAD

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<td>and developing a research agenda, Department of Reproductive Health</td>
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<td>Visiting scholar, Brocher Foundation (1mnt). Geneva, Switzerland.</td>
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2. TEACHING

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<td>Lecturing to residents of clinical genomics</td>
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<td>Reviewer Human Reproduction Update</td>
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3. PARAMETERS OF ESTEEM

**Grants**

- Project funding for interdisciplinary research, Young Academy, Royal Netherlands Academy of Arts and Sciences
- PhD grant, Parkes Foundation, Cambridge University
- Project funding for interdisciplinary research, Young Academy, Royal Netherlands Academy of Arts and Sciences

**Awards and Prizes**

- MD-PhD scholarship
- Best poster prize: MD-PhD conference, Groningen
- Visiting scholar at Brocher Foundation, Geneva

ECTS system: workload of 28 hours = 1 ECTS
ACKNOWLEDGEMENTS

To all participants, including the patients and gynaecologists who shared their private hopes and hurts during the interviews: I humbly thank you. It has been a true privilege.

My promotor, prof. Sjoerd Repping. Sjoerd, after our first meeting in 2011, you ‘befriended’ me on Facebook. After politely accepting your request, I, of course, secretly ‘unfriended’ you a couple of weeks later in a prudent boundary-setting-moment. You seemed rather indignant when I told you about it six years later, yet clearly, the joke is on me. Thank you for proving me wrong at times it mattered. And for the life-questions, laughter, bantering, and science in between. I would not be who I am today without either of them. There is more in this world for us to explore and fight for.

dr. Eline Dancet: my co-promotor and weekly inspiration. Your ceaseless and detailed comments invited me to develop. They also drove me nuts and I’ve frequently had to go for a run before being able tackle whatever difficulties had arisen. Undoubtedly, I did the same to you. Thank you, for standing up to me in private and standing up for me in company. For your companion- and mentorship, in being an ambitious young woman who refuses to hold back on all that life has to offer. For your warmth, your encouragement, and just plain hard work – but mostly, thank you for your trust. I hold our late-night walks close to my heart.

I wholeheartedly thank the members of the committee: prof. Annelien Bredenoord, prof. Mariëtte Goddijn, prof. Maas-Jan Heineman, prof. Jan Kremer, dr. Robin Lovell Badge, and prof. Peter-Paul Verbeek, for their critical analysis of the manuscript and for challenging me at the defence.


All colleagues at the Center of Reproductive Medicine, including the andrologists, counsellors, embryologists, facilitative staff, fertility doctors, gynaecologists, laboratory professionals, nurses, physician assistants, researchers, residents, and secretaries, for guiding me throughout these years, and for sharing your daily hurdles, passion for the field, and the occasional gintonic. Beatrix, special thanks to you, for all of your support.
I thank the **Academic Medical Center Amsterdam**, the **Leuven University Hospital**, the **Gates Foundation** and the **Young Academy** for funding this research and the **Brocher foundation** for hosting me and other visiting scholars. I warmly thank dr. **Sheryl van der Poel** for giving me the opportunity to appreciate the broader field at the World Health Organization.

I would like to thank my colleagues at the **Academic Medical Center** for supporting this joined MD-PhD program and prof. **Maas-Jan Heineman** for enthusiastically guiding this. I gratefully acknowledge my former teachers at **Amsterdam University College**, for teaching us to ask questions, and specifically prof. **Marijk van der Wende**, for creating this place for us.

My **friends** out there (especially **Donna, Emma, Gabbe, Janneke, Maryse, Matthias, Roos, Tereza**). Thank you for your laughter and safety. For forming a tribunal to (over)analyse any of my hiccups. For being passionate and courageous and kindly daring me to do the same. It would all mean little without you. **Michiel**, who has been sharing his blueberries, living room and friendship. Thank you for quietly sitting with me on darker days and for revelling in our shared zest for live.

**Tycho, Peter, Karin, Yuri** and **Pepijn** for taking me in as one of your own, then and still. Being part of your family means the world.

**Luuk** and **Boris**: When I was little, the two of you decided to call me “zus” (big sister) instead of “zusje” (little sister) despite our ten-year age difference. You used to say the latter wrongly implied my thoughts or ideas were worth less than yours. At the age of five, I remember my chest puffing up and standing just a little bit taller. Please know how proud I am to be your zusje. I hope that I too, can make others stand just a little taller every now and then. **Lea**, for the warmth and laughter you have brought into all of our lives, and for that look on my brother’s face. **Little one**: we all cannot wait to meet you.

**Odette**, for sharing a tenderness with my father and cherishing the home you build to celebrate that. You encourage us to grow. **Dad**. I used to write you love letters. Feeling sentimental, I decided to look them up. I was in for quite a surprise. Next to declaring my unwavering affection, they’d contain suggestions on smoking and getting fit. After being appalled for a moment, I realized that I, even so young, had been practicing what you had preached. You taught me to question my inner and outside world, without this impinging on my enchantment with it. Only now, I do my writing in journals, and we exchange our questions face-to-face. The rest is in between the lines.

**Mom**. My love is with you, always.
CURRICULUM VITAE

Saskia Hendriks was born on the 18th of November, 1991 in Amsterdam, the Netherlands. She is the only child of Jan Hendriks and Nanneke Lammers and has two half-brothers: Luuk and Boris Tjen. Saskia grew up in the centre of Amsterdam and obtained her high school diploma at the Montessori Lyceum Amsterdam in 2009.

Saskia attended Amsterdam University College, where she followed a Liberal Arts and Sciences curriculum with a major in biomedical sciences and a minor in Health and International Relations. In 2012, her thesis “future treatment options for non-obstructive azoospermia” was awarded with distinction and she obtained her Bachelor of Science summa cum laude.

Saskia enrolled in medical school at the University of Amsterdam, where she completed the undergraduate requirements in one year, to start her Master of Science in medicine in 2013. Saskia did a senior doctor clerkship in reproductive medicine and obtained her Medical Degree in 2017.

In 2011, Saskia started a research internship with prof. dr. Sjoerd Repping at the Center for Reproductive Medicine at the Academic Medical Center of the University of Amsterdam. In 2012, she was granted the opportunity to set up a PhD-project together with prof. dr. Sjoerd Repping and dr. Eline Dancet. Aiming to contribute to the responsible clinical implementation of stem cell-based fertility treatments, the interdisciplinary nature of the project allowed for collaborations with experts in biology, communication sciences, ethics, law, medicine, psychology, and sociology.

Saskia completed her PhD whilst working on her medical degree as part of the university’s MD-PhD scholarship program. In 2015, she was invited for a six-week professional volunteership to assist in the development of fertility care guidelines and a global research agenda at the World Health Organization (WHO) in Geneva, Switzerland. In 2016, she was awarded a one-month visiting scholarship at Brocher foundation, Geneva. Over the course of her PhD, Saskia’s work has been valorised by publications in top journals in the field of reproduction, thirteen invited lectures at international conferences and three research grants.

Saskia aims for a career in evidence-based policy-making in healthcare. In September 2017, she started a new position as postdoctoral researcher at the Department of Bioethics at the National Institutes of Health (NIH), Washington DC.