Clinical, economic and methodological studies in elderly patients with dementia and their informal caregivers
MacNeil Vroomen, Janet

Citation for published version (APA):
MacNeil Vroomen, J. L. (2015). Clinical, economic and methodological studies in elderly patients with dementia and their informal caregivers

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: http://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.
List of Co-Authors
LIST OF CO-AUTHORS

Judith E. Bosmans  Department of Health Sciences and the EMGO Institute for Health and Care Research, Faculty of Earth and Life Sciences, VU University Amsterdam, Amsterdam, Netherlands

Bianca M. Buurman  Department of Internal Medicine, Section of Geriatric Medicine, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands

Marcel D. Dijksgraaf  Clinical Research Unit, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands

Rosemarie M. Dröes  Department of General Practice and Elderly Care Medicine and the EMGO Institute for Health and Care Research, VU University Medical Center, Amsterdam, Netherlands and Department of Psychiatry and the EMGO Institute for Health and Care Research, Alzheimer Center, VU University Medical Center, Amsterdam, Netherlands

Pim van den Dungen  Department of General Practice and Elderly Care Medicine and the EMGO Institute for Health and Care Research, VU University Medical Center, Amsterdam, Netherlands

Iris Eekhout  Department of Epidemiology, and Biostatistics, VU University Medical Center, Amsterdam, Netherlands

Martijn W. Heymans  Department of Epidemiology, and Biostatistics, VU University Medical Center, Amsterdam, Netherlands

Rebecca R. Holman  Department of Medical Informatics, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands

Henriette van der Horst  Department of General Practice and Elderly Care Medicine and the EMGO Institute for Health and Care Research, VU University Medical Center, Amsterdam, Netherlands

Karlijn J. Joling  Department of General Practice and Elderly Care Medicine and the EMGO Institute for Health and Care Research, VU University Medical Center, Amsterdam, Netherlands

Franka J. Meiland  Department of General Practice and Elderly Care Medicine and the EMGO Institute for Health and Care Research, VU University Medical Center, Amsterdam, Netherlands and Department of Psychiatry and the EMGO Institute for Health and Care Research, Alzheimer Center, VU University Medical Center, Amsterdam, Netherlands
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa D. van Mierlo</td>
<td>Department of General Practice and Elderly Care Medicine and the EMGO Institute for Health and Care Research, VU University Medical Center, Amsterdam, Netherlands and Department of Psychiatry and the EMGO Institute for Health and Care Research, Alzheimer Center, VU University Medical Center, Amsterdam, Netherlands</td>
</tr>
<tr>
<td>Eric P. Moll van Charante</td>
<td>Department of General Practice, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands</td>
</tr>
<tr>
<td>Marjon van Rijn</td>
<td>Department of Internal Medicine, Section of Geriatric Medicine, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands</td>
</tr>
<tr>
<td>Sophia E.J.A. de Rooij</td>
<td>University Center of Geriatric Medicine, University Medical Center Groningen, Groningen, The Netherlands and Department of Internal Medicine, Section of Geriatric Medicine, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands</td>
</tr>
<tr>
<td>Peter M. van de Ven</td>
<td>Department of Epidemiology, and Biostatistics, VU University Medical Center, Amsterdam, Netherlands</td>
</tr>
</tbody>
</table>
**PHD PORTFOLIO/ LIST OF PUBLICATIONS**

**AMC Graduate School for Medical Sciences**

PhD Portfolio

Summary of PhD training, teaching and parameters of esteem

Name PhD student: Janet MacNeil Vroomen

PhD period: August 2010 – Mar 2015

Supervisor: Prof. dr. S.E.J.A de Rooij

PhD Project: ZONMw-subsidized project “COMPAS”

**PhD Portfolio: Training**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Year</th>
<th>Workload (Hours/ECTS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical Biostatistics</td>
<td>2013</td>
<td>1.14</td>
</tr>
<tr>
<td>AMC Graduate School</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced Statistical Methods for Clinical Trials</td>
<td>2012</td>
<td>1.4</td>
</tr>
<tr>
<td><em>The University of Toronto</em> <em>(audited), Canada</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Practical Use of Multiple Imputation to Handle Missing Data</td>
<td>2012</td>
<td>0.6</td>
</tr>
<tr>
<td>MRC Biostatistics Unit, Cambridge, United Kingdom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Systematic reviews</td>
<td>2011</td>
<td>0.71</td>
</tr>
<tr>
<td>AMC Graduate School</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced statistics</td>
<td>2011</td>
<td>1.8</td>
</tr>
<tr>
<td><em>Vu University</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced biostatistics</td>
<td>2011</td>
<td>0.82</td>
</tr>
<tr>
<td>AMC Graduate School</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistical computing in R</td>
<td>2011</td>
<td>0.42</td>
</tr>
<tr>
<td>AMC Graduate School</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced topics in clinical epidemiology</td>
<td>2011</td>
<td>0.7</td>
</tr>
<tr>
<td>AMC Graduate School</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regression methods for health economic evaluation course</td>
<td>2011</td>
<td>1.14</td>
</tr>
</tbody>
</table>
The University of York, Centre for Health Economics, United Kingdom
Winbugs in health economic evaluations 2011 0.86

MRC Biostatistics Unit, Cambridge, United Kingdom

Seminars, workshops and master classes
Weekly Geriatric meetings 2010-2015 4
AMC, Amsterdam
Monthly Geriatric research meetings 2010-2015 4
AMC, Amsterdam

International conferences
Symposium presented: 2014 1
Dementia care: from diagnosis to institutionalized care at International Association of Gerontology and Geriatrics, Seoul, South Korea,

Oral Presentations
Oral presentation: Comparing Dutch Case management care models for people with dementia and their caregivers: The design of the COMPAS study. Alzheimer Disease International. London, United Kingdom 1

Other presentations
Staff presentations at different at the EMGO and AMC, Amsterdam 2010-2015 1
Regional presentations on the COMPAS baseline results 2010-2015 1
PhD Portfolio: Teaching

<table>
<thead>
<tr>
<th>Tutoring, Mentoring master's students</th>
<th>Year</th>
<th>Workload (Hours/ECTS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guido Verasdonck, cost-effectiveness of a nurse-led transitional care program after hospital discharge, Department of Internal Medicine, AMC</td>
<td>2013</td>
<td>1</td>
</tr>
<tr>
<td>Jessica van der Laan, Societal costs of dementia: a comparison of three dementia care models</td>
<td>2014</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department of Internal Medicine, AMC</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Other</th>
<th>Year</th>
<th>Workload (Hours/ECTS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guest lecture at vu on missing data in economic evaluations</td>
<td>2013</td>
<td>0.01</td>
</tr>
</tbody>
</table>

Publication in refereed journals

1. **MacNeil Vroomen J**, Bosmans JE, Holman R, van Rijn M, Buurman BM, van Hout, HPJ, de Rooij, SE. Dutch patients with dementia don’t die in hospitals. *JAGS (accepted)*

2. Parlevliet JL, **MacNeil Vroomen J**, Bosmans JE, de Rooij SE, Buurman BM. Determinants of health related quality of life after acute hospitalisation in elderly patients. *Netherlands Journal of Medicine*


to prevent depression and anxiety in family caregivers of patients with dementia: a randomized trial. Trials. 2013 Sep 22;14:305. doi: 10.1186/1745-6215-14-305.


Under Review


Curriculum Vitae

Addendum
ABOUT THE AUTHOR

Janet MacNeil Vroomen was born March 20, 1979 in North York, Canada. She started studying at the University of Toronto in 1999 after completing her secondary school at Dunbarton High School in Pickering, Canada. She graduated in 2003 with a Bachelor’s of Science (Honours) with majors in Life Sciences and Psychology as well as a minor in Social Cultural Anthropology. After graduating, she worked for nearly two years as a research assistant in neuropsychopharmacology at Sunnybrook Hospital in Toronto. She moved to Switzerland and worked briefly as a researcher at the Sozialökonomischen Instituts, University of Zurich where she wrote her first article in health economics. In 2010, she obtained a Master’s in Management, Policy Analysis and Entrepreneurship in Health and Life Sciences (cum laude) at the VU University in Amsterdam. The same year she started working towards her PhD in a collaboration between the AMC and the EMGO+ Institute.

She is married to Gérard Vroomen and has a daughter, Amelia who was born in January 2014.
Acknowledgements
ACKNOWLEDGEMENTS

The last five years working at the AMC and collaborating with the people at the EMGO institute at the VUmc, has been a life-changing experience. There are many people that I have to thank and I want to apologize in advance if I have missed someone.

Supervisors and Co-supervisors

I have been fortunate to have such a diverse and helpful team working with me over the last five years. Thank you all for allowing me to take courses when I needed to and guiding me in this complex process. Thank you for proof-reading this thesis on your evenings, weekends and vacations. To Sophia, thank you for your fast responses, hard work, support and help understanding the clinical and societal perspective of this research. You have definitely been a major role model for me over the last couple of years based on your endurance, professionalism, diplomacy and your capacity to care. To Hein, thank you for helping me understand what was happening on the ground in case management and your help with the CBS paper. Thank you for hiring me and then later Ans to assist. To Judith, I think you had the most difficult job of all as you had to deal with me all the time asking all sorts of questions from statistics to daycare options. These lines cannot cover my gratitude for your help with the thesis and personal support. Thank you for having the confidence in me to do a PhD. I have always been impressed with your ability to multitask and have such a focussed mind for details. Thank you for your patience, hard work, accepting my stubbornness and being a friend.

Doctoral Committee

I would like to extend my thanks to the members of the reading committee: Prof. dr. A.H. Zwinderman, Prof. dr. J. Gussekloo, Prof. dr. I. van Shaick, Prof. dr. P. Eikelenboom, Prof. dr. R. Huisman, and Prof. dr. M.J.F.J. Vernooij-Dassen. Prof. dr. Zwinderman thank you for the crash course in propensity scores and your time extracting the propensity weights out of R.

The COMPAS group

Thank you Franka and Eric for your support, time and hiring me. It has been quite the ride. It was a privilege to work with you both.

Dear Ans, I have no idea how to thank you enough. You encouraged my Dutch language skills. I bet you still have the seven digit identification numbers of our research participant memorized along with their names and phone numbers. Lisa and I felt that we could do anything with you at our side. We were such an amazing team and I cherish these memories. When you came onto the project you gave us so much positive energy and hope. In a year you had recruited 500 people. In my eyes, you were nothing short of a miracle worker. You were on call seven days a week and you dealt with our interviewers, the informal caregivers and the persons with dementia. To this day Lisa and I think now what would Ans do in this situation?. Thank you for being my paranymph.
To the newly appointed Dr. Lisa: we were definitely attached at the hip for the last five years and it was a lot of fun. It has been quite an adventure and it appears to have a happy ending. I am very lucky to have acquired such a great friend and a voice of calm. I was proud to be beside you when you defended. Thank you and Marije for all of your help with finishing off this thesis. I hope you and Marije have an excellent time in Toronto.

Dear Karlijn. Thank you for your support, sense of humour and helping me with the future. I admire the way you can write a coherent story line in your articles. I wish you the very best and I hope we can continue to work together. You were a huge help in the COMPAS data cleaning and I am glad that you were able to make use of the data. Thank you for explaining things such as CANE scores. It was nice getting to know you at the IAGG conference in South Korea.

I would like to thank Jessica van Der Laan and Veerle Smaardijk for the COMPAS data cleaning and preparation.

I would like to thank the interviewers of the COMPAS project: Marianne Pruis, Lucinda Kuik, Ellen Barry, Ingrid Zilstra, Roos Waaijer, Yvonne Hoekstra, Sybe Dijkstra and Anita van Breemen for staying with the study to the end. I am sorry we haven’t had a party yet to thank you guys but it will happen shortly. Thank you for your help over the years, as well as being great listeners and showing respect to the people that participated in this study.

I would also like to thank the 521 COMPAS participants in this study. I wish you and your loved ones all the best.

Further, I want to thank all the case management organizations and non-case management areas that supplied their files for recruitment. I would like to thank Mariette for letting me drive around with her to understand what she does as a case manager.

Dear Pim thank you for your help at the beginning of this project. It was fun seeing you again at IAGG in South Korea.

Kees thank you for making a solid access database and for answering all of our technical questions.

Peter thank you for being an invaluable, patient reference. You answered my statistical questions and spotting errors in my syntax. The statistics associated with the COMPAS study has been challenging, complex and insightful. Thank you for reading the McCaffrey paper. You were intellectually inspirational and I hope that there be someone like you to help me in the future.

Co-authors
Rose-Marie Dröes, Henriette van der Horst, thank you for your help with the design paper and general support.

Dear Iris, I had so much fun on the MI paper we wrote together. Two coffees, one computer and off we went. I absolutely love your kick butt attitude to research. Martijn
thanks for your help in the MI paper. Marcel Dijskgraaf thank you for providing us a great dataset and your support.

Dear Rebecca Holman I learned a heck of a lot in the CBS paper and it was a total pleasure working with you. Thank you for your experience, time, kindness, eye for detail and patience.

Dear Bianca, you were the first person I met at the AMC. Your easy going manner and experience was a wonderful introduction. I really wish you all the best with your research endeavours. Dear Marjon thank you for teaching me some SPSS tricks of the trade and it was nice to work with you. Dear Juliette, be it education, clinical practice or research you inspire people along the way with your hard work and kindness. Working with you has been a total pleasure. Dear Özgül, I miss being able to harass you while waiting in line by Sophia’s old room. I wish you all the best. Dear Kim, I enjoyed working with you and Bianca on the meta-analysis. Thank you for showing me the way after I came back from maternity leave. Dear Jacqueline, I have thoroughly enjoyed our coffee talks usually talking about research and bouncing off things which I felt shaky about. I will miss those talks.

Colleagues and friends

I have been very fortunate to have had wonderful roommates. Dear Sofie, we have had some pretty unforgettable memories. In my mind’s eye I see you picking up that gigantic cardboard box for Sophia’s oratie with your bike and heels 😊. You are so warm and talented. I wish you all the best with everything. I clearly remember in the beginning me explaining my research and you saying “You must be used to people not listening to your research as I don’t have a clue what you were saying”. I have been working on my research sales pitch ever since 😊. To my current roommates: Ruth, Rikie, Sara, Annemarie, Lucienne and Rosanne thank you for your support, sense of humour, putting up with me and sharing F4-105. Rikie thank you for taking over the research meetings and being a voice of calm (Gerben thank you also for helping us with these research meetings). You guys all work so hard and I really wish you all the very best with everything. To my VU roommates Hannah, Mark, Erwin and Joan thank you so much for all the lovely memories and making me feel at home.

To the geriatrics team at the AMC: thank you all for including me in events and always making me feel welcome. I will always look fondly at my time at the AMC. Dear Marlien, thank you so much for all of your help and kindness. It was fun doing the dementia cookbook. Being a secretary is such a tough job and you do it with a lot of grace! Thanks for the coaching! Dear Nathalie thank you for making me always feel welcome. I wish you all the best in leading the geriatrics group. To past member of geriatrics, thank you for the nice memories.

To Krista Lancôt, Nathan Herrmann, Peter Zweifel, Jos Twisk, Andy Willan and Nan van Geloven thank you for your guidance. I would also like the people at the AMR for helping me with my visas and administration.
Acknowledgements

To Trynke Hoekstra, Karen van Leeuwen and Babette, thank you for your support along the way.

Lucas thanks for being my Dutch teacher. Dear Parvin and Yuka, I am incredibly lucky that we met each other early on in our PhD trajectories through Dutch courses. I am so proud and impressed by all of your incredible accomplishments. Parvin, I was so proud to be by your side the day of your defence. It was such an amazing day that I will never forget. I wish you all the best and wish you much strength and love for the next coming months. Thank you for being my paranymp. Dear Hadi thank you for your incredible kindness and the wise words regarding life after the PhD. Thank you both so much for being there in our good times and crisis times. We love you guys and Liana very much. Yuka we have done many fun things together be it our Saturday morning running club or going to art exhibits. I wish you much luck and love over the next year with everything that you plan to do. I am very lucky to have you as a friend. There is no doubt in my mind that you all are phenomenal people. You all work hard and strive for excellence in everything that you touch and I really admire that ability.

Dear Sharon and Laurel thank you for reading the crisis paper. I know it was a challenge. Sharon we have had such great fun especially now that you live in London! I am so glad that we have been able to stay in contact. Laurel you are never far from my thoughts even if you are an ocean away. I wish you, Paul and Ben all the very best.

Dear Stephanie, Allison, Nynke, Lien, Xiaofei, Anna and Boris thank you for your friendship and your support. You are all amazing!

Family

To my parents, Norma and Brian thank you so much for your support and wisdom. There are simply not enough words or ways to say it; I am truly grateful. To my brother, Blair, thank you for touring us around Seoul. I wish you all the best wherever in the world that may be. I would also like to thank my late great Aunt Grace and Aunt Joyce for ‘taking the road not taken’ and their support.

To the Vroomen family: Josephine, the late Jan Vroomen, Hubert, Helga, Charlotte, Max and Sofie thank you for your support and making me feel like part of the gang.

Dear Amelia, you are my greatest challenge and delight. Dear Gerard, you have been amazingly supportive of me and I am lucky I met you in French class all those years ago. We are on quite the adventure and I appreciate your free spirit. You are brilliant and funny even when you are sleep-deprived which came in handy this year! I am profoundly grateful for everything.