



Universiteit
Leiden
The Netherlands

Blood pressure and neuropsychiatric symptoms in old age

Moonen, J.E.F.

Citation

Moonen, J. E. F. (2017, April 11). *Blood pressure and neuropsychiatric symptoms in old age*. Retrieved from <https://hdl.handle.net/1887/48285>

Version: Not Applicable (or Unknown)

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/48285>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/48285> holds various files of this Leiden University dissertation

Author: Moonen, J.E.F.

Title: Blood pressure and neuropsychiatric symptoms in old age

Issue Date: 2017-04-11

**Blood pressure
and neuropsychiatric symptoms
in old age**

Justine Emilie Frederiek Moonen

Blood pressure and neuropsychiatric symptoms in old age

Justine E.F. Moonen

Thesis, Leiden University Medical Center, the Netherlands, 2017

Cover: Sculpture 'A different look inside the head' by Hanne de Charro, sculptor

Photography by Jan van Rijthoven

Lay out: Iliana Boshoven-Gkini | AgileColor.com

Printed by: GVO drukkers & vormgevers B.V. | GVO.nl

ISBN: 978-94-6332-122-8

The research project presented in this thesis was funded by a grant from Program Priority Medicines for the Elderly, the Netherlands Organization for Health Research and Development (ZonMW), project number: 113101003.

Printing of this thesis was financially supported by Alzheimer Nederland and Chipsoft.

© J.E.F. Moonen 2017

No part of this thesis may be reproduced or distributed in any form or by any means without prior permission of the author or, when appropriate, the copyright owning journals.

Blood pressure and neuropsychiatric symptoms in old age

Proefschrift

ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van Rector Magnificus Prof.mr. C.J.J.M. Stolker,
volgens besluit van het College voor Promoties
te verdedigen op dinsdag 11 april 2017
klokke 15.00 uur

door

Justine Emilie Frederiek Moonen

geboren te Leiden
in 1983

Promotor

Prof. dr. R.C. van der Mast

Co-promotores

Dr. W. de Ruijter en Dr. A.J.M. de Craen[†]

Promotiecommissie

Prof. dr. W.P. Achterberg

Dr. M. Muller, Vrije Universiteit Medisch Centrum (VUmc)

Prof. dr. M.L. Stek, Vumc

Prof. dr. W.A. van Gool, Amsterdam Medisch Centrum (AMC)

Financial support by the Dutch Heart Foundation for the publication of this thesis is gratefully acknowledged

To my father

Table of contents

Chapter 1	General introduction	9
Chapter 2	In depressed older persons higher blood pressure is associated with symptoms of apathy. The NESDO Study <i>International Psychogeriatrics</i> 2015;27(9):1485-93	23
Chapter 3	Lower blood pressure and apathy coincide in older persons with poorer functional ability. The DANTE Study Leiden <i>Journal of the American Geriatrics Society</i> 2015;63(1):112-7	39
Chapter 4	Validity of the three apathy items of the geriatric depression scale (GDS-3A) in measuring apathy in older persons <i>International Journal of Geriatric Psychiatry</i> 2016 [E-publication ahead of print]	55
Chapter 5	Effect of Discontinuation of ANTIhypertensive Treatment in Elderly people on cognitive functioning- the DANTE Study Leiden: a randomized clinical trial <i>JAMA Internal Medicine</i> 2015;175(10):1622-30	69
Chapter 6	Effect of discontinuation of antihypertensive medication on orthostatic hypotension in older persons with mild cognitive impairment. The DANTE Study Leiden <i>Age Ageing</i> 2016;45(2):249-55	93
Chapter 7	Lower blood pressure and grey matter integrity loss in older persons <i>Journal of Clinical Hypertension (Greenwich)</i> 2015;17(8):630-7	111
Chapter 8	Influence of small vessel disease and microstructural integrity on neurocognitive functioning in older persons. The DANTE Study Leiden <i>American Journal of Neuroradiology</i> 2016 [E-publication ahead of print]	127
Chapter 9	Summary of the main findings	145
Chapter 10	General discussion	151
Addendum	Nederlandse samenvatting	165
	List of publications	169
	Curriculum Vitae	171
	Acknowledgements/Dankwoord	173

