

VU Research Portal

Connecting heart and brain

Leeuwis, A.E.

2019

document version

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

citation for published version (APA)

Leeuwis, A. E. (2019). *Connecting heart and brain: vascular determinants of cognitive impairment and depressive symptoms*.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

E-mail address:

vuresearchportal.ub@vu.nl

CONTENTS

Part 1	Introduction	9
Chapter 1	General introduction and thesis outline	11
Chapter 2	The missing link in the pathophysiology of vascular cognitive impairment: design of the Heart-Brain Study	23
Chapter 3	Design of the ExCersion-VCI study: the effect of aerobic exercise on cerebral perfusion in patients with vascular cognitive impairment	47
Part 2:	Haemodynamic changes and cognition	67
Chapter 4	Lower cerebral blood flow is associated with impairment in multiple cognitive domains in Alzheimer's disease	69
Chapter 5	Lower cerebral blood flow is associated with faster cognitive decline in Alzheimer's disease	89
Chapter 6	Cerebral blood flow and cognitive functioning in a community-based, multi-ethnic cohort: the SABRE study	105
Chapter 7	Frequent cognitive impairment in patients with disorders along the heart-brain axis	121
Chapter 8	Cerebral blood flow and cognitive functioning in patients with disorders along the heart-brain axis	137
Part 3	Small vessel disease and depressive symptoms	155
Chapter 9	Microbleeds are associated with depressive symptoms in Alzheimer's disease	157
Chapter 10	Impact of white matter hyperintensity location on depressive symptoms in memory clinic patients: a lesion-symptom mapping study	173
Part 4	Discussion	195
Chapter 11	Summary and general discussion	197
Addendum	Nederlandse samenvatting	216
	List of affiliations	223
	List of publications	227
	List of theses Alzheimer Center - Hall of fame	230
	Portfolio	233
	Dankwoord	234
	About the author	238