Focus on flow: Imaging the human microcirculation in perioperative and intensive care medicine
Elbers, P.W.G.

Citation for published version (APA):
Elbers, P. W. G. (2010). Focus on flow: imaging the human microcirculation in perioperative and intensive care medicine
Focus On Flow

Imaging the Human Microcirculation
in Perioperative and Intensive Care Medicine
Focus on Flow
Imaging the Human Microcirculation in Perioperative and Intensive Care Medicine

Thesis, University of Amsterdam, The Netherlands, with summary in Dutch

ISBN 978-94-90371-38-8
NUR 876

Printed by Off Page, Amsterdam, The Netherlands
Cover image: “Blood cells cruising down a vein on white,” © iStockPhoto.com/Henrik Jonsson

Copyright © 2010 by Paul WG Elbers, Amsterdam, The Netherlands
Some rights reserved. This work is licenced under the Creative Commons Attribution-Non-Commercial-Share Alike 3.0 Netherlands Licence, except where copyright of the individual chapters has remained with the original publisher. To view a copy of this licence, visit http://creativecommons.org/licences/by-nc-sa/3.0/nl or send a letter to Creative Commons, 171 Second Street, Suite 300, San Francisco, California 94105, USA.

All studies described in this thesis were conducted at
Department of Anesthesiology, Intensive Care and Pain Management,
St. Antonius Ziekenhuis, Nieuwegein, The Netherlands

Publication of this thesis was financially supported by
Partnership Anesthesiology, St. Antonius Hospital, Nieuwegein, The Netherlands,
Department of Intensive Care, Medical Center Leeuwarden, The Netherlands,
Department of Translational Physiology, Academic Medical Center, Amsterdam, The Netherlands,
Board of Directors, St. Antonius Hospital, Nieuwegein, The Netherlands,
Faculty of Medicine, Academic Medical Center/University of Amsterdam, The Netherlands.
Focus On Flow
Imaging the Human Microcirculation in Perioperative and Intensive Care Medicine

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus prof. dr. D.C. van den Boom
ten overstaan van een door het college voor promoties ingestelde commissie,
in het openbaar te verdedigen in de Agnietenkapel
op dinsdag 23 november 2010, te 12:00 uur

door
Paul Willem Gerhard Elbers
geboren te IJsselstein
Promotiecommissie

Promotor Prof. dr. ir. C. Ince
Copromotor Dr. H.P.A. van Dongen
Overige leden Prof. dr. D. De Backer
     Dr. R.M. Pearse
     Prof. dr. D.F. Zandstra
     Prof. dr. mr. dr. B.A.J.M. de Mol
     Prof. dr. S.G. de Hert
     Prof. dr. ir. J.A.E. Spaan

Faculteit der Geneeskunde
Bloed moet stromen, niet botsen
Prof. dr. Durk Zandstra

Voor mijn vader en moeder
Voor Josephine