

UvA-DARE (Digital Academic Repository)

Sickle cell disease

Evaluation and management of disease burden

van Tuijn, C.F.J.

Publication date

2018

Document Version

Other version

License

Other

[Link to publication](#)

Citation for published version (APA):

van Tuijn, C. F. J. (2018). *Sickle cell disease: Evaluation and management of disease burden*. [Thesis, fully internal, Universiteit van Amsterdam].

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).

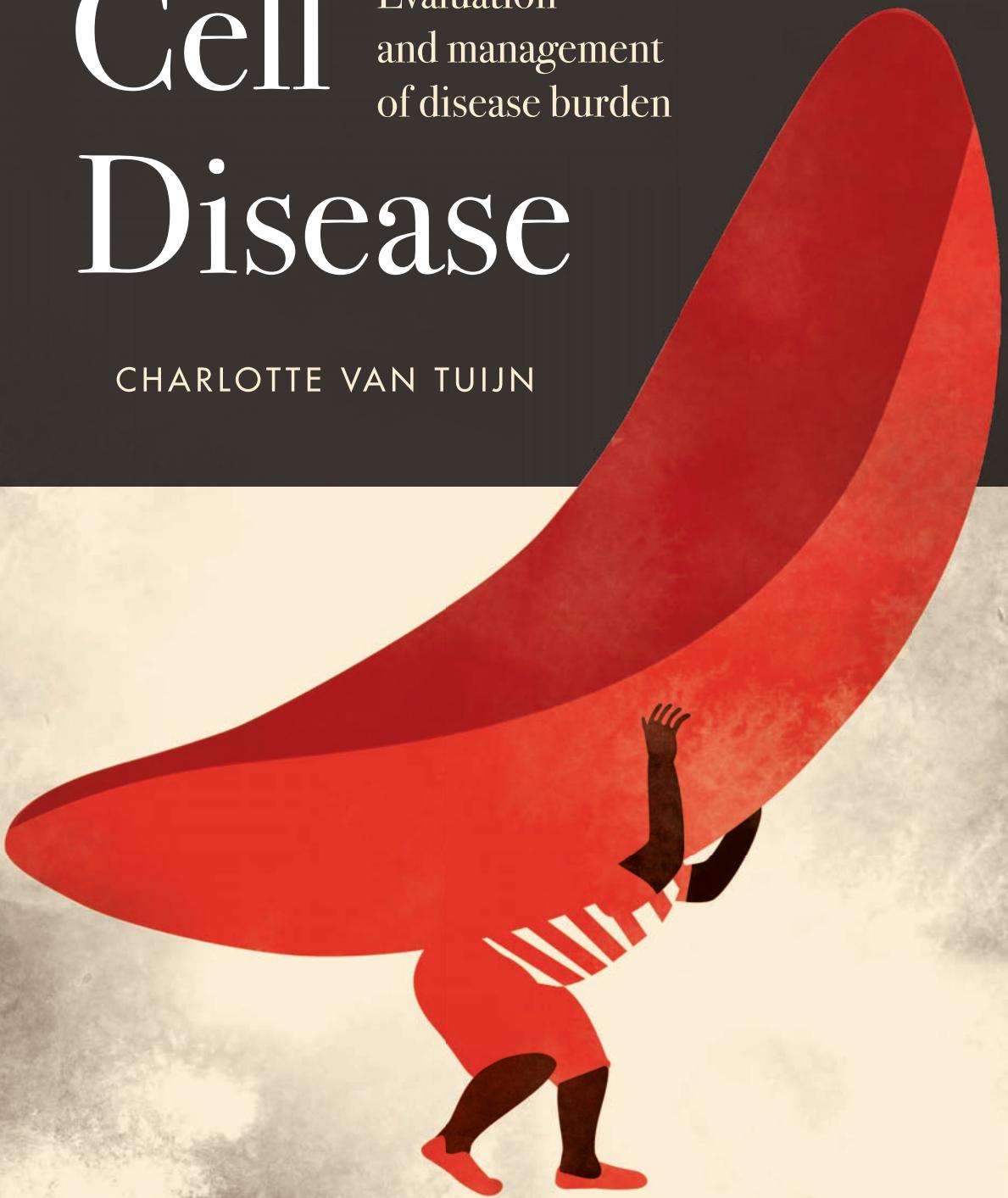
Disclaimer/Complaints regulations

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: <https://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.

Sickle Cell Disease

Evaluation
and management
of disease burden

CHARLOTTE VAN TUIJN



Sickle Cell Disease

Evaluation and management of disease burden

Charlotte van Tuijn

ISBN 978-94-6361-094-0

Layout: Optima Grafische Communicatie, Rotterdam, The Netherlands

Printed by: Optima Grafische Communicatie, Rotterdam, The Netherlands

Cover illustration: André da Loba

Copyright © 2018. Charlotte F.J. van Tuijn, Amsterdam, The Netherlands.

All rights reserved. No part of this thesis may be reproduced, stored or transmitted in any form or by any means, without prior written permission of the author.

Sickle Cell Disease

Evaluation and management of disease burden

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor
aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
prof. dr. ir. K.I.J. Maex

ten overstaan van een door het College voor Promoties ingestelde commissie,
in het openbaar te verdedigen in de Agnietenkapel
op vrijdag 29 juni 2018, te 12.00 uur

door

Charlotte Fiona Juliana van Tuijn

geboren te Utrecht

PROMOTIECOMMISSIE

Promotor	Prof. dr. M.H.J. van Oers	AMC-UvA
Copromotor	Dr. B.J. Biemond	AMC-UvA
Overige leden	Prof. dr. J.A. Romijn	AMC-UvA
	Dr. M. Peters	AMC-UvA
	Prof. dr. J.J. Zwaginga	Universiteit Leiden
	Prof. dr. D.P.M. Brandjes	AMC-UvA
	Prof. dr. F.J.P.M. Huygen	Erasmus Universiteit Rotterdam
	Prof. dr. M.J. Kersten	AMC-UvA

Faculteit der Geneeskunde

TABLE OF CONTENTS

Chapter 1	General introduction and scope of the thesis	7
Chapter 2	Patient-controlled analgesia versus continuous infusion of morphine during vaso-occlusive crisis in sickle cell disease, a randomized controlled trial.	21
Chapter 3	Daily pain in adults with sickle cell disease-a different perspective.	37
Chapter 4	Pain rate and social circumstances rather than cumulative organ damage determine the quality of life in adults with sickle cell disease.	59
Chapter 5	Incentive spirometry to prevent acute chest syndrome in adults with sickle cell disease.	71
Chapter 6	Sickle cell disease-related organ damage occurs irrespective of pain rate: implications for clinical practice.	87
Chapter 7	Prospective evaluation of chronic organ damage in adult sickle cell patients. A seven-year follow-up study.	97
Chapter 8	Summary and future perspectives.	113
Appendix	Nederlandse samenvatting	125
	Contributing authors	131
	List of publications	133
	PhD Portfolio	135
	Curriculum Vitae	137
	Dankwoord	139