

University of Groningen

Clinical and genetic factors associated with disease course in inflammatory bowel disease

Spekhorst, Lieke Maaïke

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version

Publisher's PDF, also known as Version of record

Publication date:
2018

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Spekhorst, L. M. (2018). *Clinical and genetic factors associated with disease course in inflammatory bowel disease*. Rijksuniversiteit Groningen.

Copyright

Other than for strictly personal use, 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), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

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.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

Clinical and genetic factors associated with disease course in inflammatory bowel disease

Lieke Maaïke Spekhorst

L.M. Spekhorst

Clinical and genetic factors associated with disease course in inflammatory bowel disease

ISBN: 978-94-034-1106-4 (book)

978-94-034-1105-7 (ebook)

Cover design: Erwin Timmerman, Optima Grafische Communicatie

Layout: Anna Bruijning, persoonlijkproefschrift.nl

Printed by: Ipskamp Printing, proefschriften.net

This thesis was financially supported by University Medical Center of Groningen, Graduate School of Medical Sciences, the University of Groningen, Nederlandse vereniging voor Gastro-enterologie (NVGE), Takeda Nederland, Ferring B.V., Dr. Falk Pharma Benelux B.V., Mylan Healthcare B.V., Teva Netherlands B.V., Norgine B.V., Tramedico B.V. en Pfizer.

Copyright© 2018 L.M. Spekhorst

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



**rijksuniversiteit
 groningen**

Clinical and genetic factors associated with disease course in inflammatory bowel disease

Proefschrift

ter verkrijging van de graad van doctor aan de
Rijksuniversiteit Groningen
op gezag van de
rector magnificus prof. dr. E. Sterken
en volgens besluit van het College voor Promoties.

De openbare verdediging zal plaatsvinden op
woensdag 14 november 2018 om 14.30 uur

door

Lieke Maaïke Spekhorst

geboren op 24 augustus 1988
te Hengelo

Promotores

Prof. dr. R.K. Weersma

Prof. dr. G. Dijkstra

Copromotor

Dr. E.A.M. Festen

Beoordelingscommissie

Prof. dr. H.W. Verspaget

Prof. dr. H. Snieder

Prof. dr. G.R.A.M. D'Haens

Paranimfen

M.S. Spekhorst

L.S. Spekhorst

Table of contents

Chapter 1	Introduction and outline of this thesis	9
Part I.	The epidemiology of IBD disease course: Identifying clinical factors that explain phenotypic differences in IBD patients	
Chapter 2	Performance of the Montreal classification for inflammatory bowel diseases. <i>World J Gastroenterol 2014 Nov 7;20(41):15374-15381</i>	19
Chapter 3	Cohort profile: Design and first results of the Dutch IBD Biobank: a prospective, nationwide biobank of patients with inflammatory bowel disease. <i>BMJ Open 2017 Nov 8;7(11)</i>	33
Chapter 4	Prevalence of- and risk factors for work disability in Dutch patients with inflammatory bowel disease. <i>World J Gastroenterol 2017 Dec 14;23(46):8182-8192</i>	59
Chapter 5	The impact of ethnicity and country of birth on inflammatory bowel disease phenotype: a prospective cohort study. <i>J Crohns Colitis 2017 Dec 4;11(12):1463-1470</i>	79
Chapter 6	Sex-related differences in patients with inflammatory bowel disease; results of two prospective cohort studies. <i>Inflamm Bowel Dis 2018 May 18;24(6):1298-1306</i>	99

Part II. The genetics of IBD disease course: Identifying genetic risk loci that are associated with IBD disease behaviour

Chapter 7	Down the line from genome-wide association studies in inflammatory bowel disease: the resulting clinical benefits and the outlook for the future. <i>Expert Rev Clin Immunol 2015 Jan;11(1):33-44</i>	115
Chapter 8	Identification of clinical and genetic parameters associated with hidradenitis suppurativa in inflammatory bowel disease. <i>Inflamm Bowel Dis 2016 Jan;22(1):106-13</i>	139
Chapter 9	Genomic and expression analyses identify a disease modifying variant for fibrostenotic Crohn's disease. <i>J Crohns Colitis 2018 Apr 27;12(5):582-588</i>	157
Chapter 10	Immunogenicity to anti-TNF α : a non-HLA association. <i>Manuscript in preparation</i>	173
Chapter 11	Conclusions, Discussion and Future Perspectives	187
Appendix	Samenvatting	200
	Dankwoord	205
	Curriculum vitae	209
	List of publications	210

