

University of Groningen

Sex and gender differences in diabetes care

Hendriks, Steven

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:
2017

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

Citation for published version (APA):

Hendriks, S. (2017). *Sex and gender differences in diabetes care*. [Thesis fully internal (DIV), University of Groningen]. 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.

Sex and gender differences in diabetes care

S.H. Hendriks

S.H. Hendriks
Sex and gender differences in diabetes care

ISBN 978-90-367-9521-0

ISBN Electronic version 978-90-367-9520-3



© 2017 S.H. Hendriks

All rights reserved. No part of this publication may be reported or transmitted, in any form or by any means, without prior permission by the author.

Lay-out: Gildeprint - Enschede

Printing: Gildeprint - Enschede

Printing of this thesis was financially supported by Zwolle Medical Research Fund Isala, University of Groningen, University Medical Center Groningen and Isala Diabetes Centre.



**rijksuniversiteit
 groningen**

Sex and gender differences in diabetes care

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 15 maart 2017 om 12:45 uur

door

Steven Hans Hendriks

geboren op 7 augustus 1988
te Zwolle

Promotores

Prof. dr. H.J.G. Bilo
Prof. dr. A.H.E.M. Maas

Copromotores

Dr. K.J.J. van Hateren
Dr. N. Kleefstra

Beoordelingscommissie

Prof. dr. L. van der Poll
Prof. dr. A.L.M. Lagro-Janssen
Prof. dr. M.Y. Berger

Paranimfen

Drs. E.A.H. Loeffen

Drs. K.B. Koekoek

Table of contents

Chapter 1	Introduction	9
------------------	--------------	---

Part one: Sex differences

Chapter 2	Sex differences in the quality of diabetes care in the Netherlands (ZODIAC-45).	23
Chapter 3	Sex differences in survival of patients with type 2 diabetes in primary care (ZODIAC-50).	51
Chapter 4	Increased cancer incidence around the time of type 2 diabetes diagnosis (ZODIAC-49).	67
Chapter 5	Body mass index and obesity-related cancer risk in men and women with type 2 diabetes (ZODIAC-56).	85

Part two: Gender differences

Chapter 6	Lifestyle and emotional well-being in men and women with type 2 diabetes (ZODIAC-48).	101
Chapter 7	Patient activation in type 2 diabetes; does it differ between men and women?	117
Chapter 8	Evaluation of care in men and women with type 2 diabetes (ZODIAC-52).	131
Chapter 9	Discussion	145
Chapter 10	Summary	163
Chapter 11	Nederlandse samenvatting	169
	CV	179
	Dankwoord	181
	Previous dissertations	185
	List of publications	187

