



University of Groningen

## Development of patient centered management of asthma and COPD in primary care

Metting, Esther

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):* Metting, E. I. (2018). Development of patient centered management of asthma and COPD in primary care [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).

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.

# Development of patient centered management of asthma and COPD in primary care

Esther Immanuela Metting

Cover photo: "GPs and pulmonologists in the North of the Netherlands collaborated and implemented the Asthma/COPD-service in 2007 as support service for GPs." Development of patient centered management of asthma and COPD in primary care

Thesis, University of Groningen, the Netherlands

 ISBN
 978-94-034-0658-9 (printed version)

 ISBN
 978-94-034-0657-2 (digital version)

Author	E.I. Metting
Cover photo	Mark Baan
Chapter photo's	Mark Baan
Layout	Douwe Oppewal
Printed by	Netzodruk Groningen

Copyright © E.I.Metting, Groningen 2018

All rights reserved. No part of this thesis may be reproduced or transmitted in any form by any means, without permission of the copyright owner.

The studies presented in this thesis were funded by the University Medical Center of Groningen and partly funded by the Stichting Asthma Bestrijding

The author gratefully acklowledges the financial support from: SHARE UMCG CERTE



# DEVELOPMENT OF PATIENT CENTERED MANAGEMENT OF ASTHMA AND COPD IN PRIMARY CARE

PhD thesis

to obtain the degree of PhD at the University of Groningen on the authority of the Rector Magnificus Prof. E. Sterken and in accordance with the decision by the College of Deans.

This thesis will be defended in public on

Monday 4 June 2018 at 14.30 hours

by

## **Esther Immanuela Metting**

born on 19 May 1977 in Joao Pessoa, Brazil

### Supervisors

Prof. T. van der Molen Prof. R. Sanderman

### **Co-supervisor**

Dr. J.W.H. Kocks

#### **Assessment Committee**

Prof. H.M. Boezen Prof. M. Miravitlles Prof. N.H. Chavannes

# CONTENTS

PART 1: HOW TO PROVIDE PATIENT CENTERED DISEASE	
MANAGEMENT IN PRIMARY CARE RESPIRATORY PATIENTS?	23
Chapter 2	25
Feasibility and effectiveness of an Asthma/COPD-service for primary care: a cross-sectional baseline description and longitudinal results	
Supplement chapter 2	4
Een Astma/COPD-dienst voor de huisartsenpraktijk: onderzoek naar haalbaarheid en effectiviteit	
Chapter 3	59
Development of a diagnostic decision tree for obstructive oulmonary diseases based on real-life data	
Supplement to chapter 3	7
Predicting diagnosis in primary care patients suspected of	
obstructive respiratory disease: IPCRG Desktop helper	
Chapter 4	8
Associations between chronic comorbidity and exacerbation risk in orimary care patients with COPD	
PART 2: HOW TO INVOLVE PATIENTS?	10
Chapter 5	109
Chapter 5	
Chapter 5 Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study	
Needs and perspectives of patients with Asthma and Chronic	
Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study <b>Chapter 6</b> The forgotten social implications of asthma and Chronic	
Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study <b>Chapter 6</b>	
Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study <b>Chapter 6</b> The forgotten social implications of asthma and Chronic	
Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study <b>Chapter 6</b> The forgotten social implications of asthma and Chronic Obstructive Pulmonary Disease: a focus group study	13
Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study Chapter 6 The forgotten social implications of asthma and Chronic Obstructive Pulmonary Disease: a focus group study Chapter 7 General discussion Lay summary	13 14
Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study <b>Chapter 6</b> The forgotten social implications of asthma and Chronic Obstructive Pulmonary Disease: a focus group study <b>Chapter 7</b> General discussion Lay summary Nederlandse samenvatting	13 14 15 15
Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study Chapter 6 The forgotten social implications of asthma and Chronic Obstructive Pulmonary Disease: a focus group study Chapter 7 General discussion Lay summary Nederlandse samenvatting Leken samenvatting	13 14. 15 15 16
Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study <b>Chapter 6</b> The forgotten social implications of asthma and Chronic Obstructive Pulmonary Disease: a focus group study <b>Chapter 7</b> General discussion Lay summary Nederlandse samenvatting Leken samenvatting Dankwoord	13 14: 15: 16: 16:
Needs and perspectives of patients with Asthma and Chronic Obstructive Pulmonary Disease on patient web portals: a focus group study Chapter 6 The forgotten social implications of asthma and Chronic Obstructive Pulmonary Disease: a focus group study Chapter 7 General discussion Lay summary Nederlandse samenvatting Leken samenvatting	13 14 15 15 16 16 17 2 17