

University of Groningen

## Etiology and prognosis of chronic kidney disease in children: Roma ethnicity and other risk factors

Kolvek, Gabriel

**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:*

2014

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

*Citation for published version (APA):*

Kolvek, G. (2014). *Etiology and prognosis of chronic kidney disease in children: Roma ethnicity and other risk factors*. [Thesis fully internal (DIV), University of Groningen]. [S.n.].

### 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.*

**Etiology and prognosis of chronic kidney disease in children:  
Roma ethnicity and other risk factors**

**Gabriel Kolvek**

Copyright:  
© Gabriel Kolvek

Thesis for the University of Groningen, the Netherlands – with summary  
in Dutch and Slovak.

All rights reserved. No part of this publication may be reproduced, stored  
in a retrieval system or transmitted in any form or by any means electronic,  
mechanical, photocopying, recording or otherwise, without prior written  
permission of the author.

Correspondence:  
Gabriel Kolvek  
gabriel.kolvek@gmail.com

This work was supported by the Slovak Research and Development Agency  
under contract APVV-0220-10 (80%). Furthermore, this work was partially  
supported by the Agency of the Slovak Ministry of the Education, Science,  
Research and Sport of the Slovak Republic for the Structural Funds of the  
EU under project no. ITMS: 26220120058 (20%).

The printing of this thesis was supported by the Graduate School for Health  
Research (SHARE), the Graduate School Kosice Institute for Society and  
Health (KISH), University Medical Center Groningen (UMCG) and the  
University of Groningen (RUG).

Design and layout: Monika Hruskova  
Book cover: Klaudia Jutkova  
Language proof: David L McLean  
Press: EQUILIBRIA, s.r.o.  
Printed in the Slovak Republic

ISBN: 978-90-367-7469-7  
ISBN: (electronic version) 978-90-367-7468-0



university of  
 groningen

Etiology and prognosis of chronic kidney  
 disease in children:  
 Roma ethnicity and other risk factors

**PhD thesis**

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  
 maandag 8 december 2014 om 14:30 uur

door

**Gabriel Kolvek**

geboren op 1 Januari 1981  
 te Kosice, Slowakije

*Promotores*

Prof. dr. S.A. Reijneveld  
Prof. dr. L. Podracka

*Copromotores*

Dr. J.P. van Dijk  
Dr. J. Rosenberger

*Beoordelingscommissie*

Prof. dr. W.L.J.M. Deville  
Prof. dr. J.W. Groothoff  
Prof. dr. L. Kovacs  
Prof. dr. W.J. van Son

# Contents

<b>Chapter 1</b>	
Introduction	7
<b>Chapter 2</b>	
Data sources, measures and statistical analyses	17
<b>Chapter 3</b>	
End-stage renal disease in Slovak children: epidemiology from a European perspective	21
<b>Chapter 4</b>	
End-stage renal disease among Roma and non-Roma: Roma are at risk	35
<b>Chapter 5</b>	
Kidney diseases in Roma and non-Roma children from eastern Slovakia: are Roma children at risk?	43
<b>Chapter 6</b>	
Solitary functioning kidney in children – a follow-up study	51
<b>Chapter 7</b>	
Left ventricular hypertrophy in children and adolescents before and after kidney transplantation	63
<b>Chapter 8</b>	
Discussion	77
Summary	91
Samenvatting	93
Zhrnutie	95
Acknowledgements	97
About the author	99
Graduate School Kosice Institute of for Society and Health and previous dissertations	101
Groningen Graduate School of Medical Sciences – Research Institute SHARE and previous dissertations	105

