



Universiteit
Leiden
The Netherlands

Does one size fit all? The case for ethnic specific standards to assess growth in South Asian children

Wilde, J.A. de

Citation

Wilde, J. A. de. (2015, February 18). *Does one size fit all? The case for ethnic specific standards to assess growth in South Asian children*. Retrieved from <https://hdl.handle.net/1887/32009>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/32009>

Note: To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/32009> holds various files of this Leiden University dissertation.

Author: Wilde, Jeroen Alexander de

Title: Does one size fit all? The case for ethnic specific standards to assess growth in South Asian children

Issue Date: 2015-02-18

Does one size fit all?

**The case for ethnic specific
standards to assess growth in
South Asian children**

Jeroen de Wilde

ISBN 978 94 6259 524 8

Layout and cover design by: José Noé & Jeroen de Wilde

Printed by: Ipskamp drukkers

Photos by: Jeroen de Wilde

© 2015 J.A. de Wilde, Leiden

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 the prior permission of the author or the copyright owning journals for previously published papers

© 2015 J.A. de Wilde, Leiden

Alle rechten voorbehouden. Niets uit deze uitgave mag worden verveelvoudigd, opgeslagen in een geautomatiseerd gegevensbestand, of openbaar gemaakt, in enige vorm of op enige wijze, hetzij elektronisch, mechanisch, door fotokopieën, opnamen, of op enig andere manier, zonder voorafgaande schriftelijke toestemming van de rechthebbende.

Does one size fit all?

The case for ethnic specific standards to assess growth in South Asian children

Proefschrift

ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van Rector Magnificus prof.mr. C.J.J.M. Stolker,
volgens besluit van het College voor Promoties
te verdedigen op woensdag 18 februari 2015
klokke 15:00 uur

door

Jeroen Alexander de Wilde

geboren te Wageningen
in 1970

Promotiecommissie

Promotores

Prof. Dr. B.J.C. Middelkoop

Prof. Dr. S. van Buuren (Universiteit Utrecht)

Overige leden

Prof. Dr. H. Raat (ErasmusMC, Rotterdam)

Prof. Dr. J.M. Wit

Dr. P.H. Verkerk (TNO, Leiden)

Prof. Dr. R.A. Hirasing (VUmc, Amsterdam)

Prof. Dr. R. Reis

Prof. Dr. S.E. Buitendijk

Financial support by the Dutch Heart Foundation and the department of Youth Health Care of the Community Health Service (GGD) Haaglanden for the publication of this thesis is gratefully acknowledged.

TABLE OF CONTENTS

1	General introduction	9
PART 1 - EPIDEMIOLOGY		
2	Trends in birth weight and the prevalence of low birth weight and small-for-gestational-age in Surinamese South Asian babies since 1974: cross-sectional study of three birth cohorts <i>BMC Public Health, 2013;13:931</i>	25
3	Trends in Body Mass Index distribution and prevalence of thinness, overweight, and obesity in two cohorts of Surinamese South Asian children in the Netherlands <i>Archives of Disease in Childhood, 2013;98:280</i>	37
4	Trends in overweight and obesity prevalence in Dutch, Turkish, Moroccan and Surinamese South Asian children in the Netherlands <i>Archives of Disease in Childhood, 2009;95:795</i>	51
5	Declining and stabilising trends in prevalence of overweight and obesity in Dutch, Turkish, Moroccan and South Asian children 3-16 years of age between 1999 and 2011 in the Netherlands <i>Archives of Disease in Childhood, 2014;99:46</i>	63
PART 2 - GROWTH REFERENCES		
6	Height of South Asian children in the Netherlands aged 0-20 years: secular changes and comparisons with current Asian Indian, Dutch and WHO references <i>Annals of Human Biology, 2014;early online; DOI: 10.3109/03014460.2014.926988</i>	77
7	Appropriate body mass index cut-offs to determine thinness, overweight and obesity in South Asian children in the Netherlands <i>PLoS One, 2013;8:e82822</i>	91
PART 3 - MAIN FINDINGS		
8	Summary, general discussion, conclusions, and directions for future research	111
	Nederlandse samenvatting	125
	List of peer-reviewed publications	137
	Dankwoord	138
	Curriculum vitae	140

LIST OF ABBREVIATIONS

BMI	Body Mass Index
CI	Confidence Interval
GA	Gestational Age
IOTF	International Obesity Taskforce
LBW	Low Birth Weight
NA	Not available
NCHS	National Center for Health Statistics
OR	Odds Ratio
SD	Standard deviation
SDS	Standard Deviation Score
SES	Socioeconomic Status
SGA	Small-For-Gestational-Age
SPSS	Statistical Package for Social Sciences
WHO	World Health Organization