

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/32719> holds various files of this Leiden University dissertation

Author: Schrier, Lenneke

Title: Non-invasive monitoring of pharmacokinetics and pharmacodynamics for pharmacological drug profiling in children and adolescents

Issue Date: 2015-04-15

CURRICULUM VITAE

Lenneke Schrier was born on August 9, 1979 in Den Helder (The Netherlands). Between 1999 and 2004, during her study Medicine, she was a member of the International Federation of Medical Students' Associations-The Netherlands, an organization that aims to improve Global Health and the personal development of future health care professionals. During this period, she initiated several projects within the field of health and human rights. In 2001 and 2002 she presided over the national board, and from 2002 until 2004, she was a member of the Supervisory Board of the national board. In 2004 and 2005, she worked as a pre-doctoral visiting research fellow at the lab of Dr. Jeffrey Baron at the National Institute of Child Health and Human Development (NICHD, NIH, Bethesda, United States). The Section headed by Dr. Baron investigates the cellular and molecular mechanisms governing childhood growth and development. During this period, she studied the depletion of resting zone chondrocytes during growth plate senescence in an animal model, which led to a publication in an international journal. Between 2005 and 2007, she worked (temporarily) as a pharmacovigilance assessor at the Dutch Medicines Evaluation Board (The Hague, The Netherlands). During this work, she noticed the lack of data on efficacy and safety of drugs in children, and this observation made her want to contribute to knowledge in this area through scientific research and education. In 2007, she was involved in the World Health Organization (WHO) Project 'Make Medicines Child Size', which aims to lead to increased access to effective, safe and affordable medicines for children. Within this project, she assisted in the development of the Essential Medicines List for Neonates (WHO Department Policy and Standards). For this work, the Leiden University Fund awarded her with the Janneke Fruin-Helb Beurs, an award aimed at the encouragement of excellent students that have received a Leiden University International Fund grant for research internships abroad. This award enabled her to participate in the European Course on Evaluation of Medicinal Products in Children in 2008. The extracurricular activities described above were done whilst studying Medicine. After obtaining

her medical degree (*with honours*) in 2008, she started working as a pediatric resident at the Reinier de Graaf Ziekenhuis in Delft (The Netherlands). Early 2009, she started her PhD program at the Centre for Human Drug Research (CHDR) – in collaboration with the Willem-Alexander Children's Hospital (WAKZ) – in Leiden (The Netherlands), under supervision of Prof. dr. Adam Cohen and Prof. dr. Joop van Gerven (CHDR), and Dr. Rám Sukhai (WAKZ), a position she held until 2012. During this period, monthly input was provided by the Pediatric Pharmacology Network, consisting of several pediatricians, including Prof. dr. Jan Maarten Wit (WAKZ), Alfred van Meurs (Juliana Children's Hospital, The Hague, The Netherlands) and Rob Pereira (Pediatric Department Maasstad Ziekenhuis, Rotterdam, The Netherlands). Most of the research described in this thesis was performed within this period. Whilst working at the CHDR, she was trained as a clinical pharmacologist; she obtained her certification in 2014. Her interest in non-invasive monitoring of drug (side) effects on the central nervous system in children and adolescents led to a 1-year training in Radiology at the Erasmus Medical Center (Rotterdam, The Netherlands) under supervision of Dr. Winnifred van Lankeren in 2013. Since June 2014, she is in training as a pediatric resident under supervision of Dr. Wouter Kollen at the WAKZ.

LIST OF PUBLICATIONS

- J Burggraaf, I Kamerling, P Gordon, L Schier, ML de Kam, A Kales, R Bendiksen, A Langers, G Torheim, M Warren, H Morreau, G Dalsgaard, A Healy, J Hardwick. Detection of colonic neoplasia in vivo in humans using an intravenously administered fluorescent peptide targeted against c-Met and fluorescent colonoscopy. *Nature Methods (In Press)*
- L Schrier, ML de Kam, R McKinnon, A Che Bakri, W Oostdijk, TC Sas, LA Menke, BJ Otten, SM de Muinck Keizer- Schrama, B Kristrom, C Ankarberg-Lindgren, J Burggraaf, K Albertsson-Wikland, JM Wit. Comparison of Body Surface Area versus Weight-Based Growth Hormone dosing for girls with Turner Syndrome. *Horm Res Paediatr.* 2014;81:319-30.
- A Secilir, L Schrier, Y Bijleveld, J Toersche, S Jorjani, J Burggraaf, J van Gerven, R Mathot. Determination of methylphenidate in plasma and saliva by liquid chromatography/tandem mass spectroscopy. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2013;923-924:22-8.
- M Moerland, AJ Kales, L Schrier, MG van Dongen, D Bradnock, J Burggraaf. Evaluation of the EndoPAT as a tool to assess endothelial function. *Int J Vasc Med.* 2012;2012:904141.
- R Marino, A Hegde, KM Barnes, L Schrier, JA Emons, O Nilsson, J Baron. Catch-up growth after hypothyroidism is caused by delayed growth plate senescence. *Endocrinology* 2008;149(4):1820-8.
- L Schrier, SP Ferns, KM Barnes, JA Emons, EI Newman, O Nilsson, J Baron. Depletion of resting zone chondrocytes during growth plate senescence. *J Endocrinol.* 2006;189(1):27-36.
- O Nilsson, RD Mitchum Jr, L Schrier, SP Ferns, KM Barnes, JF Troedle, J Baron. Growth plate senescence is associated with loss of DNA methylation. *J Endocrinol.* 2005;186(1):241-9.