

Contents

Chapter 1	I	Introduction
Chapter 2	7	Cytochrome P450 3A. Ontogeny and drug disposition <i>S.N. de Wildt, G.L. Kearns, J.S. Leeder, J.N. van den Anker,</i> <i>Clin Pharmacokinet 1999; 37 (6): 485-505</i>
Chapter 3	37	Glucuronidation in humans: Pharmacogenetic and developmental aspects <i>S.N. de Wildt, G.L. Kearns, J.S. Leeder, J.N. van den Anker</i> <i>Clin Pharmacokinet 1999;36(6):439-452</i>
Chapter 4	57	Pharmacokinetics and metabolism of intravenous midazolam in preterm infants <i>S.N. de Wildt, G.L. Kearns, W.C.J. Hop, D.J. Murry, S.M. Abdel-Rahman,</i> <i>J.N. van den Anker</i> <i>Submitted</i>
Chapter 5	69	Pharmacokinetics and metabolism of oral midazolam in preterm infants <i>S.N. de Wildt, G.L. Kearns, D.J.Murry, S.M. Abdel-Rahman, J.N. van den Anker</i> <i>Submitted</i>
Chapter 6	81	Population pharmacokinetics and metabolism of midazolam in pediatric intensive care patients <i>S.N. de Wildt, M. de Hoog, A.A. Vinks, E. van der Giesen, J.N. van den Anker</i> <i>Submitted</i>
Chapter 7	95	CYP3A4-V polymorphism detection by PCR-RFLP and its allelic frequency among 199 Dutch Caucasians <i>R.H.N. van Schaik, S.N. de Wildt, N.M. van Iperen, A.G. Uitterlinden,</i> <i>J.N. van den Anker, J. Lindemans</i> <i>Clin Chem 2000; 46 (11) 1834-1835</i>
Chapter 8	103	The CYP3A4*3 allele: is it really rare? <i>R.H.N. van Schaik, S.N. de Wildt, R.Brosens, M. van Fessem,</i> <i>J. N. van den Anker, J. Lindemans</i> <i>Clin Chem 2001; 47 (6): 1104-1106</i>
Chapter 9	109	Midazolam pharmacokinetics in preterm infants: lack of an association with the CYP3A4*1B genetic polymorphism <i>S.N. de Wildt, R.H.N. van Schaik, G.L. Kearns, N.M. van Iperen, W.C.J.Hop,</i> <i>D.J.Murry, J.N. van den Anker</i> <i>Submitted</i>

Chapter 10	119	Pharmacodynamics of intravenous and oral midazolam in preterm infants <i>S.N. de Wildt, G.L. Kearns, S.D. Sie, W.C.J.Hop, J.N. van den Anker</i> <i>Submitted</i>
Chapter 11	133	Pharmacodynamics of midazolam in pediatric intensive care patients <i>S.N. de Wildt, M. de Hoog, A.A. Vinks, K.F.M. Joosten, J.N. van den Anker</i> <i>Submitted</i>
Chapter 12	147	Summary, discussion and future directions
	157	Samenvatting
	164	Dankwoord
	167	Curriculum vitae
	168	List of publications