

# Elke H J Krekels

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,461  
citations

304743

22  
h-index

330143

37  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1627  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of population PK&PD modelling in paediatric clinical research. <i>European Journal of Clinical Pharmacology</i> , 2011, 67, 5-16.	1.9	175
2	Morphine Glucuronidation in Preterm Neonates, Infants and Children Younger than 3 Years. <i>Clinical Pharmacokinetics</i> , 2009, 48, 371-385.	3.5	129
3	Allometric Scaling of Clearance in Paediatric Patients: When Does the Magic of 0.75 Fade?. <i>Clinical Pharmacokinetics</i> , 2017, 56, 273-285.	3.5	86
4	Pharmacokinetics and Pharmacodynamics of Posaconazole. <i>Drugs</i> , 2020, 80, 671-695.	10.9	80
5	Evidence-Based Morphine Dosing for Postoperative Neonates and Infants. <i>Clinical Pharmacokinetics</i> , 2014, 53, 553-563.	3.5	70
6	Pharmacokinetic Modeling of Paracetamol Uptake and Clearance in Zebrafish Larvae: Expanding the Allometric Scale in Vertebrates with Five Orders of Magnitude. <i>Zebrafish</i> , 2016, 13, 504-510.	1.1	66
7	Integration of pharmacometabolomics with pharmacokinetics and pharmacodynamics: towards personalized drug therapy. <i>Metabolomics</i> , 2017, 13, 9.	3.0	64
8	Systematic Evaluation of the Descriptive and Predictive Performance of Paediatric Morphine Population Models. <i>Pharmaceutical Research</i> , 2011, 28, 797-811.	3.5	56
9	Predictive Performance of a Recently Developed Population Pharmacokinetic Model for Morphine and its Metabolites in New Datasets of (Preterm) Neonates, Infants and Children. <i>Clinical Pharmacokinetics</i> , 2011, 50, 51-63.	3.5	51
10	Advances in paediatric pharmacokinetics. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2011, 7, 1-8.	3.3	39
11	Pain and distress caused by endotracheal suctioning in neonates is better quantified by behavioural than physiological items: a comparison based on item response theory modelling. <i>Pain</i> , 2016, 157, 1611-1617.	4.2	38
12	Evidence-based drug treatment for special patient populations through model-based approaches. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 109, S22-S26.	4.0	37
13	Systems pharmacology of hepatic metabolism in zebrafish larvae. <i>Drug Discovery Today: Disease Models</i> , 2016, 22, 27-34.	1.2	31
14	Developmental changes rather than repeated administration drive paracetamol glucuronidation in neonates and infants. <i>European Journal of Clinical Pharmacology</i> , 2015, 71, 1075-1082.	1.9	30
15	Population Pharmacokinetics of Edoxaban in Patients with Non-Valvular Atrial Fibrillation in the ENGAGE AF-TIMI 48 Study, a Phase III Clinical Trial. <i>Clinical Pharmacokinetics</i> , 2016, 55, 1079-1090.	3.5	27
16	Amikacin Pharmacokinetics To Optimize Dosing in Neonates with Perinatal Asphyxia Treated with Hypothermia. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	26
17	Predicting CYP3A-mediated midazolam metabolism in critically ill neonates, infants, children and adults with inflammation and organ failure. <i>British Journal of Clinical Pharmacology</i> , 2018, 84, 358-368.	2.4	25
18	Beyond the Randomized Clinical Trial: Innovative Data Science to Close the Pediatric Evidence Gap. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 786-795.	4.7	25

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19	Characterization of Intestinal and Hepatic CYP3A-Mediated Metabolism of Midazolam in Children Using a Physiological Population Pharmacokinetic Modelling Approach. <i>Pharmaceutical Research</i> , 2018, 35, 182.	3.5	24
20	Mechanistic and Quantitative Understanding of Pharmacokinetics in Zebrafish Larvae through Nanoscale Blood Sampling and Metabolite Modeling of Paracetamol. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 371, 15-24.	2.5	24
21	Children in clinical trials: towards evidence-based pediatric pharmacotherapy using pharmacokinetic-pharmacodynamic modeling. <i>Expert Review of Clinical Pharmacology</i> , 2016, 9, 1235-1244.	3.1	23
22	Firstâ€Pass CYP3Aâ€Mediated Metabolism of Midazolam in the Gut Wall and Liver in Preterm Neonates. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2018, 7, 374-383.	2.5	23
23	Impact of post-hatching maturation on the pharmacokinetics of paracetamol in zebrafish larvae. <i>Scientific Reports</i> , 2019, 9, 2149.	3.3	22
24	Omegaâ€6 and omegaâ€3 oxylipins as potential markers of cardiometabolic risk in young adults. <i>Obesity</i> , 2022, 30, 50-61.	3.0	21
25	Item Response Theory to Quantify Longitudinal Placebo and Paliperidone Effects on PANSS Scores in Schizophrenia. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2017, 6, 543-551.	2.5	19
26	Drugs Being Eliminated via the Same Pathway Will Not Always Require Similar Pediatric Dose Adjustments. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2018, 7, 175-185.	2.5	19
27	Population pharmacokinetics of edoxaban in patients with symptomatic deepâ€vein thrombosis and/or pulmonary embolismâ€”the Hokusaia€VTE phase 3 study. <i>British Journal of Clinical Pharmacology</i> , 2015, 80, 1374-1387.	2.4	18
28	Children Are Not Small Adults, but Can We Treat Them Asâ€Such?. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2019, 8, 34-38.	2.5	16
29	Doseâ€linearity of the pharmacokinetics of an intravenous [ <sup>14</sup> C]midazolam microdose in children. <i>British Journal of Clinical Pharmacology</i> , 2019, 85, 2332-2340.	2.4	15
30	Pharmacokinetic considerations for pediatric patients receiving analgesia in the intensive care unit; targeting postoperative, ECMO and hypothermia patients. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2018, 14, 417-428.	3.3	14
31	The Oral Bioavailability and Metabolism of Midazolam in Stable Critically Ill Children: A Pharmacokinetic Microtracing Study. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 109, 140-149.	4.7	14
32	Outsideâ€In Systems Pharmacology Combines Innovative Computational Methods With Highâ€Throughput Whole Vertebrate Studies. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2018, 7, 285-287.	2.5	13
33	Enteral Acetaminophen Bioavailability in Pediatric Intensive Care Patients Determined With an Oral Microtracer and Pharmacokinetic Modeling to Optimize Dosing. <i>Critical Care Medicine</i> , 2019, 47, e975-e983.	0.9	11
34	Antiâ€tuberculosis effect of isoniazid scales accurately from zebrafish to humans. <i>British Journal of Pharmacology</i> , 2020, 177, 5518-5533.	5.4	10
35	The Predictive Value of Glomerular Filtration Rate-Based Scaling of Pediatric Clearance and Doses for Drugs Eliminated by Glomerular Filtration with Varying Protein-Binding Properties. <i>Clinical Pharmacokinetics</i> , 2020, 59, 1291-1301.	3.5	10
36	An Update on the Use of Allometric and Other Scaling Methods to Scale Drug Clearance in Children: Towards Decision Tables. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2022, 18, 99-113.	3.3	10

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37	Ciprofloxacin Pharmacokinetics After Oral and Intravenous Administration in (Morbidly) Obese and Non-obese Individuals: A Prospective Clinical Study. <i>Clinical Pharmacokinetics</i> , 2022, 61, 1167-1175.	3.5	9
38	Kernel-Based Visual Hazard Comparison (kbVHC): a Simulation-Free Diagnostic for Parametric Repeated Time-to-Event Models. <i>AAPS Journal</i> , 2018, 20, 5.	4.4	8
39	Can Population Modelling Principles be Used to Identify Key PBPK Parameters for Paediatric Clearance Predictions? An Innovative Application of Optimal Design Theory. <i>Pharmaceutical Research</i> , 2018, 35, 209.	3.5	8
40	A Pediatric Covariate Function for CYP3A-Mediated Midazolam Clearance Can Scale Clearance of Selected CYP3A Substrates in Children. <i>AAPS Journal</i> , 2019, 21, 81.	4.4	8
41	The Influence of Normalization Weight in Population Pharmacokinetic Covariate Models. <i>Clinical Pharmacokinetics</i> , 2019, 58, 131-138.	3.5	8
42	Rapid Increase in Clearance of Phenobarbital in Neonates on Extracorporeal Membrane Oxygenation: A Pilot Retrospective Population Pharmacokinetic Analysis. <i>Pediatric Critical Care Medicine</i> , 2020, 21, e707-e715.	0.5	7
43	Pediatric pharmacology: current efforts and future goals to improve clinical practice. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2015, 11, 1679-1682.	3.3	6
44	Estimation of Ontogeny Functions for Renal Transporters Using a Combined Population Pharmacokinetic and Physiology-Based Pharmacokinetic Approach: Application to OAT1,3. <i>AAPS Journal</i> , 2021, 23, 65.	4.4	6
45	Prediction of glomerular filtration rate maturation across preterm and term neonates and young infants using inulin as marker. <i>AAPS Journal</i> , 2022, 24, 38.	4.4	6
46	Quantification of Natural Growth of Two Strains of <i>Mycobacterium Marinum</i> for Translational Antituberculosis Drug Development. <i>Clinical and Translational Science</i> , 2020, 13, 1060-1064.	3.1	5
47	Supervised Multidimensional Item Response Theory Modeling of Pediatric Iatrogenic Withdrawal Symptoms. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2019, 8, 904-912.	2.5	4
48	Total bodyweight and sex both drive pharmacokinetic variability of fluconazole in obese adults. <i>Journal of Antimicrobial Chemotherapy</i> , 2022, 77, 2217-2226.	3.0	4
49	Exploring the Relationship Between Morphine Concentration and Oversedation in Children After Cardiac Surgery. <i>Journal of Clinical Pharmacology</i> , 2020, 60, 1231-1236.	2.0	3
50	Postoperative breakthrough pain in paediatric cardiac surgery not reduced by increased morphine concentrations. <i>Pediatric Research</i> , 2021, 90, 1201-1206.	2.3	3
51	Towards Evidence-Based Weaning: a Mechanism-Based Pharmacometric Model to Characterize Iatrogenic Withdrawal Syndrome in Critically Ill Children. <i>AAPS Journal</i> , 2021, 23, 71.	4.4	3
52	Zebrafish larvae as experimental model to expedite the search for new biomarkers and treatments for neonatal sepsis. <i>Journal of Clinical and Translational Science</i> , 2021, 5, 1-34.	0.6	3
53	Quantifying the Pharmacodynamics of Morphine in the Treatment of Postoperative Pain in Preverbal Children. <i>Journal of Clinical Pharmacology</i> , 2022, 62, 99-109.	2.0	3
54	Covariates in Pharmacometric Repeated Time-to-Event Models: Old and New (Pre)Selection Tools. <i>AAPS Journal</i> , 2019, 21, 11.	4.4	2

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55	Effect of Different Exercise Training Modalities on Fasting Levels of Oxylipins and Endocannabinoids in Middle-Aged Sedentary Adults: A Randomized Controlled Trial. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2022, 32, 275-284.	2.1	2
56	Pharmacokinetics and Pharmacodynamics of Drugs in Obese Pediatric Patients: How to Map Uncharted Clinical Territories. <i>Handbook of Experimental Pharmacology</i> , 2019, 261, 231-255.	1.8	1
57	Population pharmacokinetics-pharmacodynamics of fondaparinux in dialysis-dependent chronic kidney disease patients undergoing chronic renal replacement therapy. <i>European Journal of Clinical Pharmacology</i> , 2022, 78, 89-98.	1.9	0
58	Midazolam Infusion and Disease Severity Affect the Level of Sedation in Children: A Parametric Time-to-Event Analysis. <i>Pharmaceutical Research</i> , 2021, 38, 1711-1720.	3.5	0