

Anne Smits

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

1,052

citations

17

h-index

28

g-index

96

ext. papers

1,377

ext. citations

3.9

avg, IF

4.47

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 83 | The antibiotic resistance and prescribing in European Children project: a neonatal and pediatric antimicrobial web-based point prevalence survey in 73 hospitals worldwide. <i>Pediatric Infectious Disease Journal</i> , 2013 , 32, e242-53 | 3.4 | 106 |
| 82 | Primary ciliary dyskinesia: critical evaluation of clinical symptoms and diagnosis in patients with normal and abnormal ultrastructure. <i>Orphanet Journal of Rare Diseases</i> , 2014 , 9, 11 | 4.2 | 82 |
| 81 | Novel LC-MS/MS method for plasma vancomycin: comparison with immunoassays and clinical impact. <i>Clinica Chimica Acta</i> , 2015 , 441, 63-70 | 6.2 | 50 |
| 80 | Propofol Dose-Finding to Reach Optimal Effect for (Semi-)Elective Intubation in Neonates. <i>Journal of Pediatrics</i> , 2016 , 179, 54-60.e9 | 3.6 | 48 |
| 79 | Pharmacokinetics of drugs in neonates: pattern recognition beyond compound specific observations. <i>Current Pharmaceutical Design</i> , 2012 , 18, 3119-46 | 3.3 | 38 |
| 78 | Pharmacokinetics of paracetamol and its metabolites in women at delivery and post-partum. <i>British Journal of Clinical Pharmacology</i> , 2013 , 75, 850-60 | 3.8 | 37 |
| 77 | Drug disposition and clinical practice in neonates: cross talk between developmental physiology and pharmacology. <i>International Journal of Pharmaceutics</i> , 2013 , 452, 8-13 | 6.5 | 35 |
| 76 | Measurement of Neurovascular Coupling in Neonates. <i>Frontiers in Physiology</i> , 2019 , 10, 65 | 4.6 | 34 |
| 75 | Prospective Evaluation of a Model-Based Dosing Regimen for Amikacin in Preterm and Term Neonates in Clinical Practice. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 6344-51 | 5.9 | 33 |
| 74 | Variation in paediatric hospital antibiotic guidelines in Europe. <i>Archives of Disease in Childhood</i> , 2016 , 101, 72-6 | 2.2 | 27 |
| 73 | Prospective validation of neonatal vancomycin dosing regimens is urgently needed. <i>Current Therapeutic Research</i> , 2014 , 76, 51-7 | 2.4 | 27 |
| 72 | Factors impacting unbound vancomycin concentrations in different patient populations. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 7073-9 | 5.9 | 26 |
| 71 | Population pharmacokinetic modelling of total and unbound cefazolin plasma concentrations as a guide for dosing in preterm and term neonates. <i>Journal of Antimicrobial Chemotherapy</i> , 2014 , 69, 1330-8 ^{5.1} | 5.1 | 25 |
| 70 | Cefazolin plasma protein binding and its covariates in neonates. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2012 , 31, 3359-65 | 5.3 | 25 |
| 69 | Factors impacting unbound vancomycin concentrations in neonates and young infants. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2018 , 37, 1503-1510 | 5.3 | 24 |
| 68 | The amikacin research program: a stepwise approach to validate dosing regimens in neonates. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2017 , 13, 157-166 | 5.5 | 19 |
| 67 | Ontogeny of Hepatic Transporters and Drug-Metabolizing Enzymes in Humans and in Nonclinical Species. <i>Pharmacological Reviews</i> , 2021 , 73, 597-678 | 22.5 | 19 |

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| 66 | The CoDiNOS trial protocol: an international randomised controlled trial of intravenous sildenafil versus inhaled nitric oxide for the treatment of pulmonary hypertension in neonates with congenital diaphragmatic hernia. <i>BMJ Open</i> , 2019 , 9, e032122 | 3 | 16 |
| 65 | Amikacin Pharmacokinetics To Optimize Dosing in Neonates with Perinatal Asphyxia Treated with Hypothermia. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61, | 5.9 | 15 |
| 64 | Renal Precision Medicine in Neonates and Acute Kidney Injury: How to Convert a Cloud of Creatinine Observations to Support Clinical Decisions. <i>Frontiers in Pediatrics</i> , 2020 , 8, 366 | 3.4 | 15 |
| 63 | Patient safety in the context of neonatal intensive care: research and educational opportunities. <i>Pediatric Research</i> , 2011 , 70, 109-15 | 3.2 | 15 |
| 62 | Physiologically based pharmacokinetic (PBPK) modeling and simulation in neonatal drug development: how clinicians can contribute. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2019 , 15, 25-34 | 5.5 | 15 |
| 61 | Cefazolin plasma protein binding in different human populations: more than cefazolin-albumin interaction. <i>International Journal of Antimicrobial Agents</i> , 2014 , 43, 199-200 | 14.3 | 14 |
| 60 | Enzymatic isotope dilution mass spectrometry (IDMS) traceable serum creatinine is preferable over Jaffe in neonates and young infants. <i>Clinical Chemistry and Laboratory Medicine</i> , 2014 , 52, e107-9 | 5.9 | 14 |
| 59 | Cerebral autoregulation and activity after propofol for endotracheal intubation in preterm neonates. <i>Pediatric Research</i> , 2018 , 84, 719-725 | 3.2 | 14 |
| 58 | Paracetamol pharmacokinetics and metabolism in young women. <i>BMC Anesthesiology</i> , 2015 , 15, 163 | 2.4 | 13 |
| 57 | Physiologically based pharmacokinetic modeling in pediatric drug development: a clinician's request for a more integrated approach. <i>Journal of Biomedicine and Biotechnology</i> , 2012 , 2012, 103763 | | 13 |
| 56 | A Physiology-Based Pharmacokinetic Framework to Support Drug Development and Dose Precision During Therapeutic Hypothermia in Neonates. <i>Frontiers in Pharmacology</i> , 2020 , 11, 587 | 5.6 | 12 |
| 55 | Quantification of amikacin in bronchial epithelial lining fluid in neonates. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 3990-3 | 5.9 | 12 |
| 54 | Neonatal circulatory failure due to acute hypertensive crisis: clinical and echocardiographic clues. <i>Cardiovascular Journal of Africa</i> , 2013 , 24, 72-5 | 0.7 | 11 |
| 53 | Pharmacokinetics of intravenous ketorolac following caesarean delivery. <i>International Journal of Obstetric Anesthesia</i> , 2012 , 21, 334-8 | 2.1 | 10 |
| 52 | The Neonatal and Juvenile Pig in Pediatric Drug Discovery and Development. <i>Pharmaceutics</i> , 2020 , 13, | 6.4 | 9 |
| 51 | Drug evaluation studies in neonates: how to overcome the current limitations. <i>Expert Review of Clinical Pharmacology</i> , 2018 , 11, 387-396 | 3.8 | 8 |
| 50 | Pharmacokinetic modelling and Bayesian estimation-assisted decision tools to optimize vancomycin dosage in neonates: only one piece of the puzzle. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2019 , 15, 735-749 | 5.5 | 8 |
| 49 | Paired measurement of urinary creatinine in neonates based on a Jaffe and an enzymatic IDMS-traceable assay. <i>BMC Nephrology</i> , 2014 , 15, 62 | 2.7 | 8 |

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|----|--|-----|---|
| 48 | Development and Validation of a Chromatographic and Electrophoretic Method for the Determination of Amikacin and Urea in Bronchial Epithelial Lining Fluid. <i>Chromatographia</i> , 2012 , 75, 761-766 | 2.1 | 8 |
| 47 | Body weight, gender and pregnancy affect enantiomer-specific ketorolac pharmacokinetics. <i>British Journal of Clinical Pharmacology</i> , 2017 , 83, 1966-1975 | 3.8 | 7 |
| 46 | Dose rationale and pharmacokinetics of dexmedetomidine in mechanically ventilated new-borns: impact of design optimisation. <i>European Journal of Clinical Pharmacology</i> , 2019 , 75, 1393-1404 | 2.8 | 7 |
| 45 | Clinical pharmacology of analgosedatives in neonates: ways to improve their safe and effective use. <i>Journal of Pharmacy and Pharmacology</i> , 2017 , 69, 350-360 | 4.8 | 7 |
| 44 | Biochemical tolerance during low dose propylene glycol exposure in neonates: A formulation-controlled evaluation. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2012 , 20, 5 | 3.9 | 7 |
| 43 | The impact of Caesarean delivery on paracetamol and ketorolac pharmacokinetics: a paired analysis. <i>Journal of Biomedicine and Biotechnology</i> , 2012 , 2012, 437639 | | 7 |
| 42 | A comprehensive review on non-clinical methods to study transfer of medication into breast milk - A contribution from the ConcePTION project. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 136, 111038 | 7.5 | 7 |
| 41 | Different Vancomycin Immunoassays Contribute to the Variability in Vancomycin Trough Measurements in Neonates. <i>BioMed Research International</i> , 2016 , 2016, 1974972 | 3 | 7 |
| 40 | Characterizing dynamics of serum creatinine and creatinine clearance in extremely low birth weight neonates during the first 6 weeks of life. <i>Pediatric Nephrology</i> , 2021 , 36, 649-659 | 3.2 | 7 |
| 39 | Impact of Disease on Amikacin Pharmacokinetics and Dosing in Children. <i>Therapeutic Drug Monitoring</i> , 2019 , 41, 44-52 | 3.2 | 6 |
| 38 | Enantiomer-specific ketorolac pharmacokinetics in young women, including pregnancy and postpartum period. <i>Bosnian Journal of Basic Medical Sciences</i> , 2017 , 17, 54-60 | 3.3 | 6 |
| 37 | Changes in Oxygenation Levels Precede Changes in Amplitude of the EEG in Premature Infants. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 923, 143-149 | 3.6 | 6 |
| 36 | Is indirect hyperbilirubinemia a useful biomarker of reduced propofol clearance in neonates?. <i>Biomarkers in Medicine</i> , 2012 , 6, 283-9 | 2.3 | 6 |
| 35 | Pediatric Pharmacokinetics and Dose Predictions: A Report of a Satellite Meeting to the 10th Juvenile Toxicity Symposium. <i>Clinical and Translational Science</i> , 2021 , 14, 29-35 | 4.9 | 6 |
| 34 | Larger Dose Reductions of Vancomycin Required in Neonates with Patent Ductus Arteriosus Receiving Indomethacin versus Ibuprofen. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63, | 5.9 | 5 |
| 33 | Antibiotic PK/PD research in critically ill neonates and children: how do we proceed?. <i>International Journal of Pharmacokinetics</i> , 2018 , 3, 1-3 | 0.3 | 5 |
| 32 | Perinatal pharmacology: applications for neonatal neurology. <i>European Journal of Paediatric Neurology</i> , 2011 , 15, 478-86 | 3.8 | 5 |
| 31 | The Use of Hemodynamic and Cerebral Monitoring to Study Pharmacodynamics in Neonates. <i>Current Pharmaceutical Design</i> , 2017 , 23, 5955-5963 | 3.3 | 5 |

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| 30 | Using Graph Theory to Assess the Interaction between Cerebral Function, Brain Hemodynamics, and Systemic Variables in Premature Infants. <i>Complexity</i> , 2018 , 2018, 1-15 | 1.6 | 5 |
| 29 | Estradiol and weight are covariates of paracetamol clearance in young women. <i>Gynecologic and Obstetric Investigation</i> , 2014 , 77, 211-6 | 2.5 | 4 |
| 28 | Relation Between EEG Activity and Brain Oxygenation in Preterm Neonates. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 977, 133-139 | 3.6 | 4 |
| 27 | Pharmacokinetics and Safety of Ceftobiprole in Pediatric Patients. <i>Pediatric Infectious Disease Journal</i> , 2021 , 40, 997-1003 | 3.4 | 4 |
| 26 | Acute Maternal Fasting or Fluid Abstention Does Not Significantly Affect the Macronutrient Composition of Human Milk: Clinical and Clinical Research Relevance. <i>Children</i> , 2020 , 7, | 2.8 | 3 |
| 25 | Urinary metabolites after intravenous propofol bolus in neonates. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2013 , 38, 97-103 | 2.7 | 3 |
| 24 | Current knowledge, challenges and innovations in developmental pharmacology: A combined Conect4Children Expert Group and European Society for Developmental, Perinatal and Paediatric Pharmacology White Paper. <i>British Journal of Clinical Pharmacology</i> , 2021 , | 3.8 | 3 |
| 23 | A Population Pharmacokinetic Modeling and Simulation Study of Posaconazole Oral Suspension in Immunocompromised Pediatric Patients: A Short Communication. <i>Therapeutic Drug Monitoring</i> , 2021 , 43, 512-518 | 3.2 | 3 |
| 22 | Parental perspectives long term after neonatal clinical trial participation: a survey. <i>Trials</i> , 2020 , 21, 907 | 2.8 | 2 |
| 21 | A sensitive liquid chromatography method for analysis of propofol in small volumes of neonatal blood. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2020 , 45, 128-133 | 2.2 | 2 |
| 20 | Creatinine at Birth Correlates with Gestational Age and Birth Weight: Another Factor of the Imbroglia in Early Neonatal Life. <i>Neonatology</i> , 2020 , 117, 637-640 | 4 | 2 |
| 19 | Animal Models for In Vivo Lactation Studies: Anatomy, Physiology and Milk Compositions in the Most Used Non-Clinical Species: A Contribution from the ConcePTION Project. <i>Animals</i> , 2021 , 11, | 3.1 | 2 |
| 18 | Improving clinical paediatric research and learning from COVID-19: recommendations by the Conect4Children expert advice group. <i>Pediatric Research</i> , 2021 , | 3.2 | 2 |
| 17 | Perspectives in Neonatal Pharmacology: Drug Discovery, Knowledge Integration and Structured Prioritization. <i>Current Pharmaceutical Design</i> , 2018 , 24, 4839-4841 | 3.3 | 1 |
| 16 | Phenobarbital Increases Midazolam Clearance in Neonates Treated with Hypothermia: Do We Really Need to Know?. <i>Neonatology</i> , 2019 , 116, 188-190 | 4 | 1 |
| 15 | Nonlinear Transfer Entropy to Assess the Neurovascular Coupling in Premature Neonates. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1232, 11-17 | 3.6 | 1 |
| 14 | Population pharmacokinetics of propofol in neonates and infants: Gestational and postnatal age to determine clearance maturation. <i>British Journal of Clinical Pharmacology</i> , 2021 , 87, 2089-2097 | 3.8 | 1 |
| 13 | Amikacin or Vancomycin Exposure Alters the Postnatal Serum Creatinine Dynamics in Extreme Low Birth Weight Neonates. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18, | 4.6 | 1 |

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| 12 | Glomerular Filtration Rate in Asphyxiated Neonates Under Therapeutic Whole-Body Hypothermia, Quantified by Mannitol Clearance. <i>Clinical Pharmacokinetics</i> , 2021 , 60, 897-906 | 6.2 | 1 |
| 11 | Model-Based Approach for Optimizing Ceftobiprole Dosage in Pediatric Patients. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65, e0120621 | 5.9 | 1 |
| 10 | Population Model of Serum Creatinine as Time-Dependent Covariate in Neonates. <i>AAPS Journal</i> , 2021 , 23, 86 | 3.7 | 0 |
| 9 | Monitoring of Brain Hemodynamics Coupling in Neonates using Updated Tensor Decompositions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 660-663 | 0.9 | 0 |
| 8 | Impact of enantiomer-specific changes in pharmacokinetics between infants and adults on the target concentration of racemic ketorolac: A pooled analysis. <i>British Journal of Clinical Pharmacology</i> , 2021 , 87, 1443-1454 | 3.8 | 0 |
| 7 | Creatinine Trends to Detect Ibuprofen-Related Maturation Adverse Drug Events in Neonatal Life: A Simulation Study for the ELBW Newborn. <i>Frontiers in Pharmacology</i> , 2020 , 11, 610294 | 5.6 | 0 |
| 6 | Population pharmacokinetics of cefazolin in maternal and umbilical cord plasma, and simulated exposure in term neonates. <i>Journal of Antimicrobial Chemotherapy</i> , 2021 , 76, 3229-3236 | 5.1 | 0 |
| 5 | PROSPECTIVE VALIDATION OF A MODEL-BASED DOSING REGIMEN FOR AMIKACIN IN NEONATES: FEASIBLE AND RELEVANT. <i>Archives of Disease in Childhood</i> , 2016 , 101, e1.40-e1 | 2.2 | |
| 4 | DOSE-FINDING STUDY AND PHARMACODYNAMIC ASSESSMENT OF PROPOFOL FOR (SEMI-)ELECTIVE INTUBATION IN NEONATES. <i>Archives of Disease in Childhood</i> , 2016 , 101, e1.9-e1 | 2.2 | |
| 3 | The role of population pharmacokinetic analysis in rational antibiotic therapy in neonates. <i>IFMBE Proceedings</i> , 2017 , 762-768 | 0.2 | |
| 2 | PARACETAMOL DISPOSITION IN YOUNG WOMEN: BOTH PREGNANCY AND TOOLS TO AVOID PREGNANCY MATTER. <i>Archives of Disease in Childhood</i> , 2016 , 101, e1.46-e1 | 2.2 | |
| 1 | O13 Improved early vancomycin exposure in neonates using a population pharmacokinetic model-based vancomycin dosing regimen. <i>Archives of Disease in Childhood</i> , 2019 , 104, e6.1-e6 | 2.2 | |