

Anne Smits

List of Publications by Year in Descending Order

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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	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
82	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
81	Population Model of Serum Creatinine as Time-Dependent Covariate in Neonates. <i>AAPS Journal</i> , 2021 , 23, 86	3.7	0
80	Improving clinical paediatric research and learning from COVID-19: recommendations by the Conect4Children expert advice group. <i>Pediatric Research</i> , 2021 ,	3.2	2
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	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
71	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
70	Model-Based Approach for Optimizing Ceftobiprole Dosage in Pediatric Patients. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65, e0120621	5.9	1
69	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
68	Pharmacokinetics and Safety of Ceftobiprole in Pediatric Patients. <i>Pediatric Infectious Disease Journal</i> , 2021 , 40, 997-1003	3.4	4
67	Parental perspectives long term after neonatal clinical trial participation: a survey. <i>Trials</i> , 2020 , 21, 907	2.8	2

66	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
65	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
64	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
63	The Neonatal and Juvenile Pig in Pediatric Drug Discovery and Development. <i>Pharmaceutics</i> , 2020 , 13,	6.4	9
62	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
61	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
60	Creatinine at Birth Correlates with Gestational Age and Birth Weight: Another Factor of the Imbroglgio in Early Neonatal Life. <i>Neonatology</i> , 2020 , 117, 637-640	4	2
59	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
58	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
57	Measurement of Neurovascular Coupling in Neonates. <i>Frontiers in Physiology</i> , 2019 , 10, 65	4.6	34
56	Impact of Disease on Amikacin Pharmacokinetics and Dosing in Children. <i>Therapeutic Drug Monitoring</i> , 2019 , 41, 44-52	3.2	6
55	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
54	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
53	Phenobarbital Increases Midazolam Clearance in Neonates Treated with Hypothermia: Do We Really Need to Know?. <i>Neonatology</i> , 2019 , 116, 188-190	4	1
52	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	
51	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
50	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
49	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

48	Perspectives in Neonatal Pharmacology: Drug Discovery, Knowledge Integration and Structured Prioritization. <i>Current Pharmaceutical Design</i> , 2018 , 24, 4839-4841	3.3	1
47	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
46	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
45	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
44	Cerebral autoregulation and activity after propofol for endotracheal intubation in preterm neonates. <i>Pediatric Research</i> , 2018 , 84, 719-725	3.2	14
43	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
42	Body weight, gender and pregnancy affect enantiomer-specific ketorolac pharmacokinetics. <i>British Journal of Clinical Pharmacology</i> , 2017 , 83, 1966-1975	3.8	7
41	Amikacin Pharmacokinetics To Optimize Dosing in Neonates with Perinatal Asphyxia Treated with Hypothermia. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	15
40	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
39	Clinical pharmacology of analgo-sedatives in neonates: ways to improve their safe and effective use. <i>Journal of Pharmacy and Pharmacology</i> , 2017 , 69, 350-360	4.8	7
38	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
37	The Use of Hemodynamic and Cerebral Monitoring to Study Pharmacodynamics in Neonates. <i>Current Pharmaceutical Design</i> , 2017 , 23, 5955-5963	3.3	5
36	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
35	The role of population pharmacokinetic analysis in rational antibiotic therapy in neonates. <i>IFMBE Proceedings</i> , 2017 , 762-768	0.2	
34	Variation in paediatric hospital antibiotic guidelines in Europe. <i>Archives of Disease in Childhood</i> , 2016 , 101, 72-6	2.2	27
33	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
32	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	
31	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	

30	Different Vancomycin Immunoassays Contribute to the Variability in Vancomycin Trough Measurements in Neonates. <i>BioMed Research International</i> , 2016 , 2016, 1974972	3	7
29	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	
28	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
27	Factors impacting unbound vancomycin concentrations in different patient populations. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 7073-9	5.9	26
26	Paracetamol pharmacokinetics and metabolism in young women. <i>BMC Anesthesiology</i> , 2015 , 15, 163	2.4	13
25	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
24	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
23	Prospective validation of neonatal vancomycin dosing regimens is urgently needed. <i>Current Therapeutic Research</i> , 2014 , 76, 51-7	2.4	27
22	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
21	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
20	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
19	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}		25
18	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
17	Estradiol and weight are covariates of paracetamol clearance in young women. <i>Gynecologic and Obstetric Investigation</i> , 2014 , 77, 211-6	2.5	4
16	Urinary metabolites after intravenous propofol bolus in neonates. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2013 , 38, 97-103	2.7	3
15	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
14	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
13	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

12	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
11	Pharmacokinetics of intravenous ketorolac following caesarean delivery. <i>International Journal of Obstetric Anesthesia</i> , 2012 , 21, 334-8	2.1	10
10	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
9	Pharmacokinetics of drugs in neonates: pattern recognition beyond compound specific observations. <i>Current Pharmaceutical Design</i> , 2012 , 18, 3119-46	3.3	38
8	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
7	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
6	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
5	The impact of Caesarean delivery on paracetamol and ketorolac pharmacokinetics: a paired analysis. <i>Journal of Biomedicine and Biotechnology</i> , 2012 , 2012, 437639		7
4	Is indirect hyperbilirubinemia a useful biomarker of reduced propofol clearance in neonates?. <i>Biomarkers in Medicine</i> , 2012 , 6, 283-9	2.3	6
3	Patient safety in the context of neonatal intensive care: research and educational opportunities. <i>Pediatric Research</i> , 2011 , 70, 109-15	3.2	15
2	Perinatal pharmacology: applications for neonatal neurology. <i>European Journal of Paediatric Neurology</i> , 2011 , 15, 478-86	3.8	5
1	Quantification of amikacin in bronchial epithelial lining fluid in neonates. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 3990-3	5.9	12