

# Karel Allegaert

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2356871/karel-allegaert-publications-by-citations.pdf>  
**Version:** 2024-04-03

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

565 papers	10,939 citations	51 h-index	79 g-index
663 ext. papers	13,365 ext. citations	3.7 avg, IF	6.65 L-index

#	Paper	IF	Citations
565	Observed to expected lung area to head circumference ratio in the prediction of survival in fetuses with isolated diaphragmatic hernia. <i>Ultrasound in Obstetrics and Gynecology</i> , <b>2007</b> , 30, 67-71	5.8	376
564	Standardized Postnatal Management of Infants with Congenital Diaphragmatic Hernia in Europe: The CDH EURO Consortium Consensus - 2015 Update. <i>Neonatology</i> , <b>2016</b> , 110, 66-74	4	289
563	Standardized postnatal management of infants with congenital diaphragmatic hernia in Europe: the CDH EURO Consortium consensus. <i>Neonatology</i> , <b>2010</b> , 98, 354-64	4	215
562	Investigating the influence of maternal cortisol and emotional state during pregnancy on the DNA methylation status of the glucocorticoid receptor gene (NR3C1) promoter region in cord blood. <i>Journal of Psychiatric Research</i> , <b>2013</b> , 47, 880-91	5.2	199
561	Determinants of drug absorption in different ECMO circuits. <i>Intensive Care Medicine</i> , <b>2010</b> , 36, 2109-16	14.5	163
560	The EPIBEL study: outcomes to discharge from hospital for extremely preterm infants in Belgium. <i>Pediatrics</i> , <b>2004</b> , 114, 663-75	7.4	159
559	The role of population PK-PD modelling in paediatric clinical research. <i>European Journal of Clinical Pharmacology</i> , <b>2011</b> , 67 Suppl 1, 5-16	2.8	144
558	Prenatal prediction of neonatal morbidity in survivors with congenital diaphragmatic hernia: a multicenter study. <i>Ultrasound in Obstetrics and Gynecology</i> , <b>2009</b> , 33, 64-9	5.8	142
557	Population clinical pharmacology of children: modelling covariate effects. <i>European Journal of Pediatrics</i> , <b>2006</b> , 165, 819-29	4.1	136
556	Pediatric intravenous paracetamol (propacetamol) pharmacokinetics: a population analysis. <i>Paediatric Anaesthesia</i> , <b>2005</b> , 15, 282-92	1.8	134
555	Vancomycin pharmacokinetics in preterm neonates and the prediction of adult clearance. <i>British Journal of Clinical Pharmacology</i> , <b>2007</b> , 63, 75-84	3.8	123
554	Conventional Mechanical Ventilation Versus High-frequency Oscillatory Ventilation for Congenital Diaphragmatic Hernia: A Randomized Clinical Trial (The VICI-trial). <i>Annals of Surgery</i> , <b>2016</b> , 263, 867-74	7.8	116
553	Inter-individual variability in propofol pharmacokinetics in preterm and term neonates. <i>British Journal of Anaesthesia</i> , <b>2007</b> , 99, 864-70	5.4	115
552	Prophylactic ibuprofen in premature infants: a multicentre, randomised, double-blind, placebo-controlled trial. <i>Lancet, The</i> , <b>2004</b> , 364, 1945-9	4.0	112
551	Developmental Changes in Pharmacokinetics and Pharmacodynamics. <i>Journal of Clinical Pharmacology</i> , <b>2018</b> , 58 Suppl 10, S10-S25	2.9	107
550	Results of fetal endoscopic tracheal occlusion for congenital diaphragmatic hernia and the set up of the randomized controlled TOTAL trial. <i>Early Human Development</i> , <b>2011</b> , 87, 619-24	2.2	103
549	Short-term use of parenteral nutrition with a lipid emulsion containing a mixture of soybean oil, olive oil, medium-chain triglycerides, and fish oil: a randomized double-blind study in preterm infants. <i>Journal of Parenteral and Enteral Nutrition</i> , <b>2012</b> , 36, 81S-94S	4.2	102

548	The pharmacokinetics of intravenous paracetamol in neonates: size matters most. <i>Archives of Disease in Childhood</i> , <b>2011</b> , 96, 575-80	2.2	98
547	Prenatal prediction of survival in isolated diaphragmatic hernia using observed to expected total fetal lung volume determined by magnetic resonance imaging based on either gestational age or fetal body volume. <i>Ultrasound in Obstetrics and Gynecology</i> , <b>2008</b> , 32, 633-9	5.8	93
546	Intravenous paracetamol (propacetamol) pharmacokinetics in term and preterm neonates. <i>European Journal of Clinical Pharmacology</i> , <b>2004</b> , 60, 191-7	2.8	87
545	Maturation of the glomerular filtration rate in neonates, as reflected by amikacin clearance. <i>Clinical Pharmacokinetics</i> , <b>2012</b> , 51, 105-17	6.2	86
544	Tramadol disposition in the very young: an attempt to assess in vivo cytochrome P-450 2D6 activity. <i>British Journal of Anaesthesia</i> , <b>2005</b> , 95, 231-9	5.4	85
543	A developmental approach to the prevention of hypertension and kidney disease: a report from the Low Birth Weight and Nephron Number Working Group. <i>Lancet, The</i> , <b>2017</b> , 390, 424-428	4.0	83
542	Maturation pharmacokinetics of single intravenous bolus of propofol. <i>Paediatric Anaesthesia</i> , <b>2007</b> , 17, 1028-34	1.8	79
541	Intravenous paracetamol pharmacokinetics in neonates: a pooled analysis. <i>Critical Care</i> , <b>2011</b> , 15,	10.8	78
540	Tramadol and O-demethyltramadol disposition in humans: a pooled study. <i>Critical Care</i> , <b>2011</b> , 15,	10.8	78
539	Renal drug clearance in preterm neonates: relation to prenatal growth. <i>Therapeutic Drug Monitoring</i> , <b>2007</b> , 29, 284-91	3.2	78
538	External Evaluation of Population Pharmacokinetic Models of Vancomycin in Neonates: The transferability of published models to different clinical settings. <i>British Journal of Clinical Pharmacology</i> , <b>2013</b> , 75, 1068-80	3.8	76
537	Population clinical pharmacology of children: general principles. <i>European Journal of Pediatrics</i> , <b>2006</b> , 165, 741-6	4.1	76
536	The Impact of Kidney Development on the Life Course: A Consensus Document for Action. <i>Nephron</i> , <b>2017</b> , 136, 3-49	3.3	71
535	Neonatal clinical pharmacology. <i>Paediatric Anaesthesia</i> , <b>2014</b> , 24, 30-8	1.8	67
534	Paracetamol to induce ductus arteriosus closure: is it valid?. <i>Archives of Disease in Childhood</i> , <b>2013</b> , 98, 462-6	2.2	65
533	Neonatal pharmacology: extensive interindividual variability despite limited size. <i>Journal of Pediatric Pharmacology and Therapeutics</i> , <b>2011</b> , 16, 170-84	1.6	64
532	Array comparative genomic hybridization as a diagnostic tool for syndromic heart defects. <i>Journal of Pediatrics</i> , <b>2010</b> , 156, 810-7, 817.e1-817.e4	3.6	63
531	Simultaneous pharmacokinetic modeling of gentamicin, tobramycin and vancomycin clearance from neonates to adults: towards a semi-physiological function for maturation in glomerular filtration. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 2643-54	4.5	61

530	Changing perspectives on the perinatal management of isolated congenital diaphragmatic hernia in Europe. <i>Clinics in Perinatology</i> , <b>2009</b> , 36, 329-47, ix	2.8	61
529	Pharmacokinetics of single dose intravenous propacetamol in neonates: effect of gestational age. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , <b>2004</b> , 89, F25-8	4.7	61
528	Limited predictability of amikacin clearance in extreme premature neonates at birth. <i>British Journal of Clinical Pharmacology</i> , <b>2006</b> , 61, 39-48	3.8	60
527	Safety, dosing, and pharmaceutical quality for studies that evaluate medicinal products (including biological products) in neonates. <i>Pediatric Research</i> , <b>2017</b> , 81, 692-711	3.2	59
526	Clinical pharmacology of paracetamol in neonates: a review. <i>Current Therapeutic Research</i> , <b>2015</b> , 77, 24-30	3.4	59
525	A bodyweight-dependent allometric exponent for scaling clearance across the human life-span. <i>Pharmaceutical Research</i> , <b>2012</b> , 29, 1570-81	4.5	59
524	Hepatic tolerance of repeated intravenous paracetamol administration in neonates. <i>Paediatric Anaesthesia</i> , <b>2008</b> , 18, 388-92	1.8	59
523	Developmental pharmacology: neonates are not just small adults. <i>Acta Clinica Belgica</i> , <b>2008</b> , 63, 16-24	1.8	59
522	Systematic evaluation of pain in neonates: effect on the number of intravenous analgesics prescribed. <i>European Journal of Clinical Pharmacology</i> , <b>2003</b> , 59, 87-90	2.8	59
521	Predictors of neonatal morbidity in fetuses with severe isolated congenital diaphragmatic hernia undergoing fetoscopic tracheal occlusion. <i>Ultrasound in Obstetrics and Gynecology</i> , <b>2013</b> , 42, 77-83	5.8	57
520	Perinatal growth characteristics and associated risk of developing threshold retinopathy of prematurity. <i>Journal of AAPOS</i> , <b>2003</b> , 7, 34-7	1.3	57
519	A neonatal amikacin covariate model can be used to predict ontogeny of other drugs eliminated through glomerular filtration in neonates. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 754-67	4.5	55
518	Cerebral and systemic hemodynamic effects of intravenous bolus administration of propofol in neonates. <i>Neonatology</i> , <b>2010</b> , 98, 57-63	4	55
517	Evidence and patterns in lung response after fetal tracheal occlusion: clinical controlled study. <i>Radiology</i> , <b>2009</b> , 252, 526-33	20.5	54
516	Neonatal drug therapy: The first frontier of therapeutics for children. <i>Clinical Pharmacology and Therapeutics</i> , <b>2015</b> , 98, 288-97	6.1	53
515	Prediction of propofol clearance in children from an allometric model developed in rats, children and adults versus a 0.75 fixed-exponent allometric model. <i>Clinical Pharmacokinetics</i> , <b>2010</b> , 49, 269-75	6.2	52
514	The paracetamol concentration-effect relation in neonates. <i>Paediatric Anaesthesia</i> , <b>2013</b> , 23, 45-50	1.8	51
513	Gastric emptying in healthy newborns fed an intact protein formula, a partially and an extensively hydrolysed formula. <i>Clinical Nutrition</i> , <b>2008</b> , 27, 264-8	5.9	51

512	Novel LC-MS/MS method for plasma vancomycin: comparison with immunoassays and clinical impact. <i>Clinica Chimica Acta</i> , <b>2015</b> , 441, 63-70	6.2	50
511	In vivo glucuronidation activity of drugs in neonates: extensive interindividual variability despite their young age. <i>Therapeutic Drug Monitoring</i> , <b>2009</b> , 31, 411-5	3.2	50
510	Postmenstrual age and CYP2D6 polymorphisms determine tramadol o-demethylation in critically ill neonates and infants. <i>Pediatric Research</i> , <b>2008</b> , 63, 674-9	3.2	50
509	Effects of co-administration of ibuprofen-lysine on the pharmacokinetics of amikacin in preterm infants during the first days of life. <i>Neonatology</i> , <b>2004</b> , 86, 207-11	4	50
508	Covariates of tramadol disposition in the first months of life. <i>British Journal of Anaesthesia</i> , <b>2008</b> , 100, 525-32	5.4	48
507	Propofol Dose-Finding to Reach Optimal Effect for (Semi-)Elective Intubation in Neonates. <i>Journal of Pediatrics</i> , <b>2016</b> , 179, 54-60.e9	3.6	48
506	Pharmacometric Approaches to Personalize Use of Primarily Renally Eliminated Antibiotics in Preterm and Term Neonates. <i>Journal of Clinical Pharmacology</i> , <b>2016</b> , 56, 909-35	2.9	48
505	Off-label use of medicines in neonates, infants, children, and adolescents: a joint policy statement by the European Academy of Paediatrics and the European society for Developmental Perinatal and Pediatric Pharmacology. <i>European Journal of Pediatrics</i> , <b>2020</b> , 179, 839-847	4.1	46
504	Amniotic fluid markers of fetal cardiac dysfunction in twin-to-twin transfusion syndrome. <i>American Journal of Obstetrics and Gynecology</i> , <b>2010</b> , 202, 48.e1-7	6.4	45
503	The allometric exponent for scaling clearance varies with age: a study on seven propofol datasets ranging from preterm neonates to adults. <i>British Journal of Clinical Pharmacology</i> , <b>2014</b> , 77, 149-59	3.8	44
502	Towards Rational Dosing Algorithms for Vancomycin in Neonates and Infants Based on Population Pharmacokinetic Modeling. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 1013-21	5.9	43
501	Criteria for HNF1B analysis in patients with congenital abnormalities of kidney and urinary tract. <i>Nephrology Dialysis Transplantation</i> , <b>2015</b> , 30, 835-42	4.3	43
500	Developmental pharmacology of tramadol during infancy: ontogeny, pharmacogenetics and elimination clearance. <i>Paediatric Anaesthesia</i> , <b>2011</b> , 21, 266-73	1.8	43
499	Development of a Physiologically-Based Pharmacokinetic Model for Preterm Neonates: Evaluation with In Vivo Data. <i>Current Pharmaceutical Design</i> , <b>2015</b> , 21, 5688-98	3.3	43
498	Prospective assessment of short-term propylene glycol tolerance in neonates. <i>Archives of Disease in Childhood</i> , <b>2010</b> , 95, 1054-8	2.2	42
497	Clinical pharmacokinetics of vancomycin in the neonate: a review. <i>Clinics</i> , <b>2012</b> , 67, 831-7	2.3	42
496	Perinatal growth characteristics and associated risk of developing threshold retinopathy of prematurity. <i>Journal of AAPOS</i> , <b>2003</b> , 7, 34-37	1.3	42
495	Intra- and interindividual variability of glucuronidation of paracetamol during repeated administration of propacetamol in neonates. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>2005</b> , 94, 1273-9	3.1	41

494	Impact of gastrointestinal tract variability on oral drug absorption and pharmacokinetics: An UNGAP review. <i>European Journal of Pharmaceutical Sciences</i> , <b>2021</b> , 162, 105812	5.1	41
493	The influence of maternal cortisol and emotional state during pregnancy on fetal intrauterine growth. <i>Pediatric Research</i> , <b>2012</b> , 72, 305-15	3.2	40
492	Clinical pharmacology in neonates: small size, huge variability. <i>Neonatology</i> , <b>2014</b> , 105, 344-9	4	39
491	Maternal hyperoxygenation test in fetuses undergoing FETO for severe isolated congenital diaphragmatic hernia. <i>Ultrasound in Obstetrics and Gynecology</i> , <b>2011</b> , 37, 264-71	5.8	39
490	Novel model-based dosing guidelines for gentamicin and tobramycin in preterm and term neonates. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2015</b> , 70, 2074-7	5.1	38
489	Pharmacokinetics of drugs in neonates: pattern recognition beyond compound specific observations. <i>Current Pharmaceutical Design</i> , <b>2012</b> , 18, 3119-46	3.3	38
488	Haemodynamics of intravenous paracetamol in neonates. <i>European Journal of Clinical Pharmacology</i> , <b>2010</b> , 66, 855-8	2.8	38
487	Threshold retinopathy at threshold of viability: the EpiBel study. <i>British Journal of Ophthalmology</i> , <b>2004</b> , 88, 239-42	5.5	38
486	Adaptive governance good practice: Show me the evidence!. <i>Journal of Environmental Management</i> , <b>2018</b> , 222, 174-184	7.9	38
485	Pharmacokinetics of paracetamol and its metabolites in women at delivery and post-partum. <i>British Journal of Clinical Pharmacology</i> , <b>2013</b> , 75, 850-60	3.8	37
484	Postnatal trends in creatinemia and its covariates in extremely low birth weight (ELBW) neonates. <i>Pediatric Nephrology</i> , <b>2011</b> , 26, 1843-9	3.2	37
483	Neonatal Abstinence Syndrome: Update on Diagnostic and Therapeutic Strategies. <i>Pharmacotherapy</i> , <b>2017</b> , 37, 814-823	5.8	36
482	Covariates of intravenous paracetamol pharmacokinetics in adults. <i>BMC Anesthesiology</i> , <b>2014</b> , 14, 77	2.4	36
481	Drug disposition and clinical practice in neonates: cross talk between developmental physiology and pharmacology. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 452, 8-13	6.5	35
480	Tramadol and o-desmethyl tramadol clearance maturation and disposition in humans: a pooled pharmacokinetic study. <i>Clinical Pharmacokinetics</i> , <b>2015</b> , 54, 167-78	6.2	35
479	Ibuprofen and cerebral oxygenation and circulation. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , <b>2005</b> , 90, F75-6	4.7	35
478	Pre- and Postnatal Development of the Eye: A Species Comparison. <i>Birth Defects Research</i> , <b>2017</b> , 109, 1540-1567	2.9	34
477	Therapeutic drug monitoring in neonates. <i>Archives of Disease in Childhood</i> , <b>2016</b> , 101, 377-81	2.2	34

476	Caffeine Prevents Hyperoxia-Induced Functional and Structural Lung Damage in Preterm Rabbits. <i>Neonatology</i> , <b>2016</b> , 109, 274-81	4	34
475	Tympanic, infrared skin, and temporal artery scan thermometers compared with rectal measurement in children: a real-life assessment. <i>Current Therapeutic Research</i> , <b>2014</b> , 76, 34-8	2.4	34
474	Cefazolin pharmacokinetics in maternal plasma and amniotic fluid during pregnancy. <i>American Journal of Obstetrics and Gynecology</i> , <b>2009</b> , 200, 170.e1-7	6.4	34
473	Nonselective cyclo-oxygenase inhibitors and glomerular filtration rate in preterm neonates. <i>Pediatric Nephrology</i> , <b>2005</b> , 20, 1557-61	3.2	34
472	Pharmacodynamics of chloral hydrate in former preterm infants. <i>European Journal of Pediatrics</i> , <b>2005</b> , 164, 403-7	4.1	34
471	Prospective Evaluation of a Model-Based Dosing Regimen for Amikacin in Preterm and Term Neonates in Clinical Practice. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2015</b> , 59, 6344-51	5.9	33
470	Creatinine reference values in ELBW infants: impact of quantification by Jaffe or enzymatic method. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2012</b> , 25, 1678-81	2	33
469	Transplacental sildenafil rescues lung abnormalities in the rabbit model of diaphragmatic hernia. <i>Thorax</i> , <b>2016</b> , 71, 517-25	7.3	33
468	Vancomycin Pharmacokinetics Throughout Life: Results from a Pooled Population Analysis and Evaluation of Current Dosing Recommendations. <i>Clinical Pharmacokinetics</i> , <b>2019</b> , 58, 767-780	6.2	33
467	Perinatal and neonatal use of paracetamol for pain relief. <i>Seminars in Fetal and Neonatal Medicine</i> , <b>2017</b> , 22, 308-313	3.7	32
466	The interplay between drugs and the kidney in premature neonates. <i>Pediatric Nephrology</i> , <b>2014</b> , 29, 2083-91	3.2	32
465	Differences in Copy Number Variation between Discordant Monozygotic Twins as a Model for Exploring Chromosomal Mosaicism in Congenital Heart Defects. <i>Molecular Syndromology</i> , <b>2012</b> , 2, 81-87	1.5	32
464	O-demethylation of tramadol in the first months of life. <i>European Journal of Clinical Pharmacology</i> , <b>2005</b> , 61, 837-42	2.8	32
463	Population Pharmacokinetics of Intravenous Paracetamol (Acetaminophen) in Preterm and Term Neonates: Model Development and External Evaluation. <i>Clinical Pharmacokinetics</i> , <b>2016</b> , 55, 107-19	6.2	31
462	Population pharmacokinetics of paracetamol across the human age-range from (pre)term neonates, infants, children to adults. <i>Journal of Clinical Pharmacology</i> , <b>2014</b> , 54, 619-29	2.9	31
461	Congenital heart defects in a novel recurrent 22q11.2 deletion harboring the genes CRKL and MAPK1. <i>American Journal of Medical Genetics, Part A</i> , <b>2012</b> , 158A, 574-80	2.5	31
460	Not all intravenous paracetamol formulations are created equal. <i>Paediatric Anaesthesia</i> , <b>2007</b> , 17, 811-2	1.8	31
459	Evaluation of the safety of palivizumab in the second season of exposure in young children at risk for severe respiratory syncytial virus infection. <i>Drug Safety</i> , <b>2003</b> , 26, 283-91	5.1	31



458	Vitamin K Dependent Protection of Renal Function in Multi-ethnic Population Studies. <i>EBioMedicine</i> , <b>2016</b> , 4, 162-9	8.8	31
457	Determinants of drug metabolism in early neonatal life. <i>Current Clinical Pharmacology</i> , <b>2007</b> , 2, 23-9	2.5	30
456	The impact of ibuprofen on renal clearance in preterm infants is independent of the gestational age. <i>Pediatric Nephrology</i> , <b>2005</b> , 20, 740-3	3.2	30
455	Vaccine Willingness and Impact of the COVID-19 Pandemic on Women's Perinatal Experiences and Practices-A Multinational, Cross-Sectional Study Covering the First Wave of the Pandemic. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	30
454	SARS-CoV-2 Infections and Impact of the COVID-19 Pandemic in Pregnancy and Breastfeeding: Results from an Observational Study in Primary Care in Belgium. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	29
453	Clinical research in neonates and infants: Challenges and perspectives. <i>Pharmacological Research</i> , <b>2016</b> , 108, 80-87	10.2	29
452	Evidence-based drug treatment for special patient populations through model-based approaches. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 109S, S22-S26	5.1	28
451	Adverse drug reactions in neonates and infants: a population-tailored approach is needed. <i>British Journal of Clinical Pharmacology</i> , <b>2015</b> , 80, 788-95	3.8	28
450	Variation in paediatric hospital antibiotic guidelines in Europe. <i>Archives of Disease in Childhood</i> , <b>2016</b> , 101, 72-6	2.2	27
449	Catch-up growth in the first two years of life in Extremely Low Birth Weight (ELBW) infants is associated with lower body fat in young adolescence. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173349	3.7	27
448	Prospective validation of neonatal vancomycin dosing regimens is urgently needed. <i>Current Therapeutic Research</i> , <b>2014</b> , 76, 51-7	2.4	27
447	Pharmacological treatment of neonatal pain: in search of a new equipoise. <i>Seminars in Fetal and Neonatal Medicine</i> , <b>2013</b> , 18, 42-7	3.7	27
446	Developmental pharmacokinetics of propylene glycol in preterm and term neonates. <i>British Journal of Clinical Pharmacology</i> , <b>2013</b> , 75, 162-71	3.8	27
445	Ophthalmological findings in congenital cytomegalovirus infection: when to screen, when to treat?. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , <b>2012</b> , 49, 274-82	0.9	27
444	Physiologically Based Pharmacokinetic Predictions of Tramadol Exposure Throughout Pediatric Life: an Analysis of the Different Clearance Contributors with Emphasis on CYP2D6 Maturation. <i>AAPS Journal</i> , <b>2015</b> , 17, 1376-87	3.7	26
443	Developmental changes rather than repeated administration drive paracetamol glucuronidation in neonates and infants. <i>European Journal of Clinical Pharmacology</i> , <b>2015</b> , 71, 1075-82	2.8	26
442	Factors impacting unbound vancomycin concentrations in different patient populations. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2015</b> , 59, 7073-9	5.9	26
441	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> , <b>2014</b> , 69, 1330-8 <sup>5.1</sup>	5.1	25



440	Cefazolin plasma protein binding and its covariates in neonates. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , <b>2012</b> , 31, 3359-65	5.3	25
439	Cross-sectional study of tracheomegaly in children after fetal tracheal occlusion for severe congenital diaphragmatic hernia. <i>Radiology</i> , <b>2010</b> , 257, 226-32	20.5	25
438	Determination of amikacin in cerebrospinal fluid by high-performance liquid chromatography with pulsed electrochemical detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2008</b> , 867, 149-52	3.2	25
437	Impact of a paediatric vial on the magnitude of systematic medication errors in neonates. <i>Paediatric and Perinatal Drug Therapy</i> , <b>2006</b> , 7, 59-63		25
436	Non-maturational covariates for dynamic systems pharmacology models in neonates, infants, and children: Filling the gaps beyond developmental pharmacology. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 109S, S27-S31	5.1	24
435	Drug Disposition and Pharmacotherapy in Neonatal ECMO: From Fragmented Data to Integrated Knowledge. <i>Frontiers in Pediatrics</i> , <b>2019</b> , 7, 360	3.4	24
434	Desphospho-uncarboxylated matrix Gla protein is a novel circulating biomarker predicting deterioration of renal function in the general population. <i>Nephrology Dialysis Transplantation</i> , <b>2018</b> , 33, 1122-1128	4.3	24
433	Educational paper: Retinopathy of prematurity. <i>European Journal of Pediatrics</i> , <b>2012</b> , 171, 887-93	4.1	24
432	Clinical practice: analgesia in neonates. <i>European Journal of Pediatrics</i> , <b>2009</b> , 168, 765-70	4.1	24
431	Pregnancy during nitisinone treatment for tyrosinaemia type I: first human experience. <i>JIMD Reports</i> , <b>2012</b> , 5, 27-33	1.9	24
430	Physiologically Based Pharmacokinetic Modeling to Characterize Acetaminophen Pharmacokinetics and N-Acetyl-p-Benzoquinone Imine (NAPQI) Formation in Non-Pregnant and Pregnant Women. <i>Clinical Pharmacokinetics</i> , <b>2020</b> , 59, 97-110	6.2	24
429	Factors impacting unbound vancomycin concentrations in neonates and young infants. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , <b>2018</b> , 37, 1503-1510	5.3	24
428	Cystatin C in newborns: a promising renal biomarker in search for standardization and validation. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2015</b> , 28, 1833-8	2	23
427	A core outcome set for neonatal abstinence syndrome: study protocol for a systematic review, parent interviews and a Delphi survey. <i>Trials</i> , <b>2016</b> , 17, 536	2.8	23
426	In Vitro Adsorption of Analgosedative Drugs in New Extracorporeal Membrane Oxygenation Circuits. <i>Pediatric Critical Care Medicine</i> , <b>2018</b> , 19, e251-e258	3	22
425	Urine of Preterm Neonates as a Novel Source of Kidney Progenitor Cells. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2016</b> , 27, 2762-70	12.7	22
424	Current and future antenatal management of isolated congenital diaphragmatic hernia. <i>Seminars in Fetal and Neonatal Medicine</i> , <b>2017</b> , 22, 383-390	3.7	22
423	Analgosedation in neonates: do we still need additional tools after 30 years of clinical research?. <i>Archives of Disease in Childhood: Education and Practice Edition</i> , <b>2011</b> , 96, 112-8	0.5	22

422	Development of a neonatal adverse event severity scale through a Delphi consensus approach. <i>Archives of Disease in Childhood</i> , <b>2019</b> , 104, 1167-1173	2.2	21
421	Newborn genome-wide DNA methylation in association with pregnancy anxiety reveals a potential role for. <i>Clinical Epigenetics</i> , <b>2017</b> , 9, 107	7.7	20
420	Outcome of fetuses with congenital diaphragmatic hernia and associated intrafetal fluid effusions managed in the era of fetal surgery. <i>Ultrasound in Obstetrics and Gynecology</i> , <b>2012</b> , 39, 50-5	5.8	20
419	The impact of ibuprofen or indomethacin on renal drug clearance in neonates. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2009</b> , 22 Suppl 3, 88-91	2	20
418	The pharmacology of anaesthetics in the neonate. <i>Baillieres Best Practice and Research in Clinical Anaesthesiology</i> , <b>2010</b> , 24, 419-31	4	20
417	Urinary propofol metabolites in early life after single intravenous bolus. <i>British Journal of Anaesthesia</i> , <b>2008</b> , 101, 827-31	5.4	20
416	Exposure to acetaminophen and all its metabolites upon 10, 15, and 20 mg/kg intravenous acetaminophen in very-preterm infants. <i>Pediatric Research</i> , <b>2017</b> , 82, 678-684	3.2	19
415	Drug-induced renal damage in preterm neonates: state of the art and methods for early detection. <i>Drug Safety</i> , <b>2015</b> , 38, 535-51	5.1	19
414	Excipients in Neonatal Medicinal Products: Never Prescribed, Commonly Administered. <i>Pharmaceutical Medicine</i> , <b>2018</b> , 32, 251-258	2.3	19
413	Effect of allopurinol in addition to hypothermia treatment in neonates for hypoxic-ischemic brain injury on neurocognitive outcome (ALBINO): study protocol of a blinded randomized placebo-controlled parallel group multicenter trial for superiority (phase III). <i>BMC Pediatrics</i> , <b>2019</b> , 19, 210	2.6	19
412	Ontogeny of Phase I Metabolism of Drugs. <i>Journal of Clinical Pharmacology</i> , <b>2019</b> , 59 Suppl 1, S33-S41	2.9	19
411	The amikacin research program: a stepwise approach to validate dosing regimens in neonates. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2017</b> , 13, 157-166	5.5	19
410	The propylene glycol research project to illustrate the feasibility and difficulties to study toxicokinetics in neonates. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 435, 112-4	6.5	19
409	Educational paper: do we need neonatal clinical pharmacologists?. <i>European Journal of Pediatrics</i> , <b>2013</b> , 172, 429-35	4.1	19
408	Both postnatal and postmenstrual age contribute to the interindividual variability in tramadol glucuronidation in neonates. <i>Early Human Development</i> , <b>2008</b> , 84, 325-30	2.2	19
407	Maternal paracetamol intake and fetal ductus arteriosus constriction or closure: a case series analysis. <i>British Journal of Clinical Pharmacology</i> , <b>2019</b> , 85, 245-251	3.8	19
406	Ontogeny of Hepatic Transporters and Drug-Metabolizing Enzymes in Humans and in Nonclinical Species. <i>Pharmacological Reviews</i> , <b>2021</b> , 73, 597-678	22.5	19
405	Integration of Placental Transfer in a Fetal-Maternal Physiologically Based Pharmacokinetic Model to Characterize Acetaminophen Exposure and Metabolic Clearance in the Fetus. <i>Clinical Pharmacokinetics</i> , <b>2020</b> , 59, 911-925	6.2	18

404	Anatomical and physiological alterations of pregnancy. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , <b>2020</b> , 47, 271-285	2.7	18
403	Children in clinical trials: towards evidence-based pediatric pharmacotherapy using pharmacokinetic-pharmacodynamic modeling. <i>Expert Review of Clinical Pharmacology</i> , <b>2016</b> , 9, 1235-44	3.8	18
402	Impaired endothelial function in female adolescents with type 1 diabetes measured by peripheral artery tonometry. <i>European Journal of Pediatrics</i> , <b>2013</b> , 172, 1017-22	4.1	18
401	Gabapentin as part of multimodal analgesia in a newborn with epidermolysis bullosa. <i>Paediatric Anaesthesia</i> , <b>2010</b> , 20, 972-3	1.8	18
400	Levetiracetam pharmacokinetics in neonates at birth. <i>Epilepsia</i> , <b>2006</b> , 47, 1068-9	6.4	18
399	Neonatal pain management: still in search for the Holy Grail. <i>International Journal of Clinical Pharmacology and Therapeutics</i> , <b>2016</b> , 54, 514-23	2	18
398	Score for Neonatal Acute Physiology-II Predicts Outcome in Congenital Diaphragmatic Hernia Patients. <i>Pediatric Critical Care Medicine</i> , <b>2016</b> , 17, 540-6	3	18
397	Analgesics and Sedatives in Critically Ill Newborns and Infants: The Impact on Long-Term Neurodevelopment. <i>Journal of Clinical Pharmacology</i> , <b>2018</b> , 58 Suppl 10, S140-S150	2.9	18
396	Does Extremely Low Birth Weight Predispose to Low-Renin Hypertension?. <i>Hypertension</i> , <b>2017</b> , 69, 443-449	4.9	17
395	Physiology-based IVIVE predictions of tramadol from in vitro metabolism data. <i>Pharmaceutical Research</i> , <b>2015</b> , 32, 260-74	4.5	17
394	Sleep related breathing disorders and indications for polysomnography in preterm infants. <i>Early Human Development</i> , <b>2017</b> , 113, 114-119	2.2	17
393	Paracetamol and morphine for infant and neonatal pain; still a long way to go?. <i>Expert Review of Clinical Pharmacology</i> , <b>2017</b> , 10, 111-126	3.8	17
392	Fetal treatment for early dysmorphogenetic goiter. <i>Prenatal Diagnosis</i> , <b>2009</b> , 29, 543-5	3.2	17
391	Does intravenous paracetamol administration affect body temperature in neonates?. <i>Archives of Disease in Childhood</i> , <b>2011</b> , 96, 301-4	2.2	17
390	Impact of ibuprofen administration on renal drug clearance in the first weeks of life. <i>Methods and Findings in Experimental and Clinical Pharmacology</i> , <b>2006</b> , 28, 519-22		17
389	Developmental Pharmacokinetics in Neonates: Maturation Changes and Beyond. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 5769-5778	3.3	17
388	Sildenafil crosses the placenta at therapeutic levels in a dually perfused human cotyledon model. <i>American Journal of Obstetrics and Gynecology</i> , <b>2018</b> , 219, 619.e1-619.e10	6.4	17
387	Antenatal sildenafil administration to prevent pulmonary hypertension in congenital diaphragmatic hernia (SToP-PH): study protocol for a phase I/IIb placenta transfer and safety study. <i>Trials</i> , <b>2018</b> , 19, 524	2.8	17

386	Paracetamol in Older People: Towards Evidence-Based Dosing?. <i>Drugs and Aging</i> , <b>2018</b> , 35, 603-624	4.7	17
385	Beliefs about medicines and information needs among pregnant women visiting a tertiary hospital in Belgium. <i>European Journal of Clinical Pharmacology</i> , <b>2019</b> , 75, 995-1003	2.8	16
384	A manual propofol infusion regimen for neonates and infants. <i>Paediatric Anaesthesia</i> , <b>2019</b> , 29, 907-914	1.8	16
383	Fetal macrosomia and neonatal hyperinsulinemic hypoglycemia associated with transplacental transfer of sulfonylurea in a mother with KCNJ11-related neonatal diabetes. <i>Diabetes Care</i> , <b>2014</b> , 37, 3333-5	14.6	16
382	Characteristics of respiratory syncytial virus-related apnoea in three infants. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>2004</b> , 93, 847-849	3.1	16
381	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> , <b>2019</b> , 9, e032122	3	16
380	Amikacin Pharmacokinetics To Optimize Dosing in Neonates with Perinatal Asphyxia Treated with Hypothermia. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2017</b> , 61,	5.9	15
379	Prediction of neonatal respiratory function and pulmonary hypertension in fetuses with isolated congenital diaphragmatic hernia in the fetal endoscopic tracheal occlusion era: a single-center study. <i>Fetal Diagnosis and Therapy</i> , <b>2015</b> , 37, 24-32	2.4	15
378	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> , <b>2020</b> , 8, 366	3.4	15
377	Association between cognition and the retinal microvasculature in 11-year old children born preterm or at term. <i>Early Human Development</i> , <b>2018</b> , 118, 1-7	2.2	15
376	Semiphysiological versus empirical modelling of the population pharmacokinetics of free and total cefazolin during pregnancy. <i>BioMed Research International</i> , <b>2014</b> , 2014, 897216	3	15
375	Patient safety in the context of neonatal intensive care: research and educational opportunities. <i>Pediatric Research</i> , <b>2011</b> , 70, 109-15	3.2	15
374	The clinical pharmacology of short acting analgo-sedatives in neonates. <i>Current Clinical Pharmacology</i> , <b>2011</b> , 6, 222-6	2.5	15
373	Contribution of glucuronidation to tramadol disposition in early neonatal life. <i>Basic and Clinical Pharmacology and Toxicology</i> , <b>2006</b> , 98, 110-2	3.1	15
372	Methemoglobinemia and hemolysis after enteral administration of methylene blue in a preterm infant: relevance for pediatric surgeons. <i>Journal of Pediatric Surgery</i> , <b>2004</b> , 39, E35-7	2.6	15
371	Physiologically based pharmacokinetic (PBPK) modeling and simulation in neonatal drug development: how clinicians can contribute. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2019</b> , 15, 25-34	5.5	15
370	Successful Use of [C]Paracetamol Microdosing to Elucidate Developmental Changes in Drug Metabolism. <i>Clinical Pharmacokinetics</i> , <b>2017</b> , 56, 1185-1195	6.2	14
369	Dysphagia in Children with Esophageal Atresia: Current Diagnostic Options. <i>European Journal of Pediatric Surgery</i> , <b>2015</b> , 25, 326-32	1.9	14

368	Possible effects of repeated exposure to ibuprofen and acetaminophen on the intestinal immune response in young infants. <i>Medical Hypotheses</i> , <b>2016</b> , 87, 90-6	3.8	14
367	Cefazolin plasma protein binding in different human populations: more than cefazolin-albumin interaction. <i>International Journal of Antimicrobial Agents</i> , <b>2014</b> , 43, 199-200	14.3	14
366	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> , <b>2014</b> , 52, e107-9	5.9	14
365	Pharmacokinetics of a loading dose of intravenous paracetamol post caesarean delivery. <i>International Journal of Obstetric Anesthesia</i> , <b>2012</b> , 21, 125-8	2.1	14
364	Covariates of amikacin clearance in neonates: the impact of postnatal age on predictability. <i>Drug Metabolism Letters</i> , <b>2008</b> , 2, 286-9	2.1	14
363	Pharmacokinetics of Aminoglycosides in the Newborn. <i>Current Pharmaceutical Design</i> , <b>2012</b> , 18, 3114-3118	3.8	14
362	A Web-Based Serious Game for Health to Reduce Perioperative Anxiety and Pain in Children (CliniPup): Pilot Randomized Controlled Trial. <i>JMIR Serious Games</i> , <b>2019</b> , 7, e12431	3.4	14
361	SLC22A1/OCT1 Genotype Affects O-desmethyltramadol Exposure in Newborn Infants. <i>Therapeutic Drug Monitoring</i> , <b>2016</b> , 38, 487-92	3.2	14
360	Conventional and Ambulatory Blood Pressure as Predictors of Retinal Arteriolar Narrowing. <i>Hypertension</i> , <b>2016</b> , 68, 511-20	8.5	14
359	Cerebral autoregulation and activity after propofol for endotracheal intubation in preterm neonates. <i>Pediatric Research</i> , <b>2018</b> , 84, 719-725	3.2	14
358	Design and feasibility of "PREMATurity as predictor of children's Cardiovascular-renal Health" (PREMATCH): A pilot study. <i>Blood Pressure</i> , <b>2015</b> , 24, 275-83	1.7	13
357	Drug metabolism in early infancy: opioids as an illustration. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2018</b> , 14, 287-301	5.5	13
356	How often do we perform painful and stressful procedures in the paediatric intensive care unit? A prospective observational study. <i>Australian Critical Care</i> , <b>2019</b> , 32, 4-10	2.9	13
355	Pharmacological sedation management in the paediatric intensive care unit. <i>Journal of Pharmacy and Pharmacology</i> , <b>2017</b> , 69, 498-513	4.8	13
354	Paracetamol pharmacokinetics and metabolism in young women. <i>BMC Anesthesiology</i> , <b>2015</b> , 15, 163	2.4	13
353	Misdiagnosis as asphyxiating thoracic dystrophy and CMV-associated haemophagocytic lymphohistiocytosis in Shwachman-Diamond syndrome. <i>European Journal of Pediatrics</i> , <b>2013</b> , 172, 613-22	4.1	13
352	463 Passive Distraction is the Only Determinant of Pain During Venous Blood Sampling in School Children in An Outpatient Clinic Setting. <i>Pediatric Research</i> , <b>2010</b> , 68, 237-237	3.2	13
351	Physiologically based pharmacokinetic modeling in pediatric drug development: a clinician's request for a more integrated approach. <i>Journal of Biomedicine and Biotechnology</i> , <b>2012</b> , 2012, 103763		13

350	Decoupling between fundamental frequency and energy envelope of neonate cries. <i>Early Human Development</i> , <b>2010</b> , 86, 35-40	2.2	13
349	Retinopathy of prematurity: any difference in risk factors between a high and low risk population?. <i>European Journal of Ophthalmology</i> , <b>2003</b> , 13, 784-8	1.9	13
348	Rapidly maturing fentanyl clearance in preterm neonates. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , <b>2019</b> , 104, F598-F603	4.7	13
347	Cefazolin plasma protein binding saturability during pregnancy. <i>Methods and Findings in Experimental and Clinical Pharmacology</i> , <b>2009</b> , 31, 25		13
346	Clinical Pharmacokinetic Studies in Pregnant Women and the Relevance of Pharmacometric Tools. <i>Current Pharmaceutical Design</i> , <b>2019</b> , 25, 483-495	3.3	13
345	Clinically relevant discordances identified after tertiary reassessment of fetuses with isolated congenital diaphragmatic hernia. <i>Prenatal Diagnosis</i> , <b>2017</b> , 37, 883-888	3.2	12
344	Population pharmacokinetic meta-analysis of individual data to design the first randomized efficacy trial of vancomycin in neonates and young infants. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2019</b> , 74, 2128-2138 <sup>5.1</sup> <sup>12</sup>		
343	Developmental pharmacology: A moving target. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 492, 335-76.5		12
342	A Physiology-Based Pharmacokinetic Framework to Support Drug Development and Dose Precision During Therapeutic Hypothermia in Neonates. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 587	5.6	12
341	Tramadol, breast feeding and safety in the newborn. <i>Archives of Disease in Childhood</i> , <b>2018</b> , 103, 1110-1113	4.3	12
340	Quantitative clinical pharmacology practice for optimal use of antibiotics during the neonatal period. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2016</b> , 12, 367-75	5.5	12
339	Paracetamol/Acetaminophen During Pregnancy Induces Prenatal Ductus Arteriosus Closure. <i>Pediatrics</i> , <b>2018</b> , 142,	7.4	12
338	Intravenous paracetamol dosage in the neonate and small infant. <i>British Journal of Anaesthesia</i> , <b>2014</b> , 112, 380-1	5.4	12
337	Low but inducible contribution of renal elimination to clearance of propylene glycol in preterm and term neonates. <i>Therapeutic Drug Monitoring</i> , <b>2014</b> , 36, 278-87	3.2	12
336	Quantification of amikacin in bronchial epithelial lining fluid in neonates. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2011</b> , 55, 3990-3	5.9	12
335	Pharmacokinetics of Drugs in Neonates: Pattern Recognition Beyond Compound Specific Observations. <i>Pediatric Research</i> , <b>2011</b> , 70, 83-83	3.2	12
334	Creatinaemia at birth is equal to maternal creatinaemia at delivery: does this paradigm still hold?. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2012</b> , 25, 978-80	2	12
333	Cerebrospinal fluid compartmental pharmacokinetics of amikacin in neonates. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2008</b> , 52, 1934-9	5.9	12



332	Development of CliniPup, a Serious Game Aimed at Reducing Perioperative Anxiety and Pain in Children: Mixed Methods Study. <i>JMIR Serious Games</i> , <b>2019</b> , 7, e12429	3.4	12
331	Developmental pharmacokinetics of opioids in neonates. <i>Journal of Opioid Management</i> , <b>2007</b> , 3, 59-64	0.8	12
330	Population-specific serum creatinine centiles in neonates with posterior urethral valves already predict long-term renal outcome. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2015</b> , 28, 1026-31	2	11
329	Impaired endothelial function in adolescents with overweight or obesity measured by peripheral artery tonometry. <i>Pediatric Diabetes</i> , <b>2015</b> , 16, 98-103	3.6	11
328	The Influence of Drug Properties and Ontogeny of Transporters on Pediatric Renal Clearance through Glomerular Filtration and Active Secretion: a Simulation-Based Study. <i>AAPS Journal</i> , <b>2020</b> , 22, 87	3.7	11
327	The Fate of Fat: Pre-Exposure Fat Losses during Nasogastric Tube Feeding in Preterm Newborns. <i>Nutrients</i> , <b>2015</b> , 7, 6213-23	6.7	11
326	Concerning the timing of antibiotic administration in women undergoing caesarean section: a systematic review and meta-analysis. <i>BMJ Open</i> , <b>2013</b> , 3,	3	11
325	Variability in pain expression characteristics in former preterm infants. <i>Journal of Perinatal Medicine</i> , <b>2005</b> , 33, 442-8	2.7	11
324	Neonatal circulatory failure due to acute hypertensive crisis: clinical and echocardiographic clues. <i>Cardiovascular Journal of Africa</i> , <b>2013</b> , 24, 72-5	0.7	11
323	Approaches to Dose Finding in Neonates, Illustrating the Variability between Neonatal Drug Development Programs. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	11
322	The use of PBPK modeling across the pediatric age range using propofol as a case. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , <b>2018</b> , 45, 765-785	2.7	11
321	Inactive matrix Gla protein is a novel circulating biomarker predicting retinal arteriolar narrowing in humans. <i>Scientific Reports</i> , <b>2018</b> , 8, 15088	4.9	11
320	Enrollment of Neonates in More Than One Clinical Trial. <i>Clinical Therapeutics</i> , <b>2017</b> , 39, 1959-1969	3.5	10
319	Local pulmonary drug delivery in the preterm rabbit: feasibility and efficacy of daily intratracheal injections. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2019</b> , 316, L589-L597	5.8	10
318	Question: is breastfeeding useful in the management of neonatal abstinence syndrome?. <i>Archives of Disease in Childhood</i> , <b>2015</b> , 100, 414-5	2.2	10
317	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> , <b>2018</b> , 14, 417-428	5.5	10
316	Retinal microvascular diameter, a hypertension-related trait, in ECG-gated vs. non-gated images analyzed by IVAN and SIVA. <i>Hypertension Research</i> , <b>2016</b> , 39, 886-892	4.7	10
315	Clinical Outcome for Congenital Diaphragmatic Hernia at the Age of 1 Year in the Era of Fetal Intervention. <i>Neonatology</i> , <b>2017</b> , 112, 365-371	4	10



314	Cardiac assessment in fetuses with right-sided congenital diaphragmatic hernia: case-control study. <i>Ultrasound in Obstetrics and Gynecology</i> , <b>2014</b> , 43, 432-6	5.8	10
313	Pharmacokinetics of intravenous ketorolac following caesarean delivery. <i>International Journal of Obstetric Anesthesia</i> , <b>2012</b> , 21, 334-8	2.1	10
312	Is propofol the perfect hypnotic agent for procedural sedation in neonates?. <i>Current Clinical Pharmacology</i> , <b>2009</b> , 4, 84-6	2.5	10
311	Cardiorespiratory events recorded on home monitors: the effect of prematurity on later serious events. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>2007</b> , 96, 195-8	3.1	10
310	Tramadol concentrations in blood and in cerebrospinal fluid in a neonate. <i>European Journal of Clinical Pharmacology</i> , <b>2005</b> , 60, 911-3	2.8	10
309	Integration of Ontogeny Into a Physiologically Based Pharmacokinetic Model for Monoclonal Antibodies in Premature Infants. <i>Journal of Clinical Pharmacology</i> , <b>2020</b> , 60, 466-476	2.9	10
308	Neonatal medicines research: challenges and opportunities. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2015</b> , 11, 1041-52	5.5	9
307	Preterm birth impairs postnatal lung development in the neonatal rabbit model. <i>Respiratory Research</i> , <b>2020</b> , 21, 59	7.3	9
306	The risk of nephrolithiasis is causally related to inactive matrix Gla protein, a marker of vitamin K status: a Mendelian randomization study in a Flemish population. <i>Nephrology Dialysis Transplantation</i> , <b>2018</b> , 33, 514-522	4.3	9
305	Simulation-based suggestions to improve ibuprofen dosing for patent ductus arteriosus in preterm newborns. <i>European Journal of Clinical Pharmacology</i> , <b>2018</b> , 74, 1585-1591	2.8	9
304	Neonatal factors predictive for respiratory and gastro-intestinal morbidity after esophageal atresia repair. <i>Pediatrics and Neonatology</i> , <b>2019</b> , 60, 261-269	1.8	9
303	Oral antibiotics for neonatal infections: a systematic review and meta-analysis. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2019</b> , 74, 3150-3161	5.1	9
302	Clinical pharmacology of carbapenems in neonates. <i>Journal of Chemotherapy</i> , <b>2014</b> , 26, 67-73	2.3	9
301	Neonates need tailored drug formulations. <i>World Journal of Clinical Pediatrics</i> , <b>2013</b> , 2, 1-5	2.5	9
300	Neonatal transient respiratory depression after maternal urapidil infusion for hypertension. <i>European Journal of Pediatrics</i> , <b>2009</b> , 168, 221-3	4.1	9
299	The use of methohexital during chest tube removal in neonates. <i>Paediatric Anaesthesia</i> , <b>2004</b> , 14, 308-12	1.8	9
298	Urinary metabolites to assess in vivo ontogeny of hepatic drug metabolism in early neonatal life. <i>Methods and Findings in Experimental and Clinical Pharmacology</i> , <b>2007</b> , 29, 251-6		9
297	Therapeutic Drug Monitoring in Neonates: What Makes them Unique?. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 5790-5800	3.3	9

296	The Neonatal and Juvenile Pig in Pediatric Drug Discovery and Development. <i>Pharmaceutics</i> , <b>2020</b> , 13,	6.4	9
295	Drug-induced renal injury in neonates: challenges in clinical practice and perspectives in drug development. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2017</b> , 13, 555-565	5.5	8
294	Enantiomer specific pharmacokinetics of ibuprofen in preterm neonates with patent ductus arteriosus. <i>British Journal of Clinical Pharmacology</i> , <b>2020</b> , 86, 2028-2039	3.8	8
293	Drug evaluation studies in neonates: how to overcome the current limitations. <i>Expert Review of Clinical Pharmacology</i> , <b>2018</b> , 11, 387-396	3.8	8
292	Risk factors for spontaneous localized intestinal perforation in the preterm infant. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2018</b> , 31, 2617-2623	2	8
291	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> , <b>2019</b> , 15, 735-749	5.5	8
290	Paired measurement of urinary creatinine in neonates based on a Jaffe and an enzymatic IDMS-traceable assay. <i>BMC Nephrology</i> , <b>2014</b> , 15, 62	2.7	8
289	Remifentanyl in neonates: a promising compound in search of its indications?. <i>Pediatrics and Neonatology</i> , <b>2012</b> , 53, 387-8	1.8	8
288	Development and Validation of a Chromatographic and Electrophoretic Method for the Determination of Amikacin and Urea in Bronchial Epithelial Lining Fluid. <i>Chromatographia</i> , <b>2012</b> , 75, 761-766	2.1	8
287	Determination of Propylene Glycol in Low Volume Plasma and Urine Samples of Neonates by LC with Photodiode Array Detection. <i>Chromatographia</i> , <b>2011</b> , 73, 463-470	2.1	8
286	Assessment of pain expression in infant cry signals using empirical mode decomposition. <i>Methods of Information in Medicine</i> , <b>2010</b> , 49, 448-52	1.5	8
285	Procedural sedation of neonates with chloral hydrate: a sedation procedure does not end at the end of the acquisition of the images. <i>Paediatric Anaesthesia</i> , <b>2008</b> , 18, 1270-1	1.8	8
284	Interindividual variability of aminoglycoside pharmacokinetics in preterm neonates at birth. <i>European Journal of Clinical Pharmacology</i> , <b>2006</b> , 62, 1011-2	2.8	8
283	Pseudo-Bartter syndrome in a neonate on prostaglandin infusion. <i>European Journal of Pediatrics</i> , <b>2003</b> , 162, 569-71	4.1	8
282	Dosing Guidelines of Aminoglycosides in Neonates: A Balance Between Physiology and Feasibility. <i>Current Pharmaceutical Design</i> , <b>2015</b> , 21, 5699-704	3.3	8
281	Standardizing Safety Assessment and Reporting for Neonatal Clinical Trials. <i>Journal of Pediatrics</i> , <b>2020</b> , 219, 243-249.e1	3.6	8
280	Community pharmacists' Attitudes, barriers, knowledge and counseling practice with regard to preconception, pregnancy and lactation. <i>Research in Social and Administrative Pharmacy</i> , <b>2020</b> , 16, 1192-1200	2.9	8
279	Rational Use of Antibiotics in Neonates: Still in Search of Tailored Tools. <i>Healthcare (Switzerland)</i> , <b>2019</b> , 7,	3.4	8

278	Neonatal clinical pharmacology: recent observations of relevance for anaesthesiologists. <i>Acta Anaesthesiologica Belgica</i> , <b>2008</b> , 59, 283-8		8
277	Body weight, gender and pregnancy affect enantiomer-specific ketorolac pharmacokinetics. <i>British Journal of Clinical Pharmacology</i> , <b>2017</b> , 83, 1966-1975	3.8	7
276	Developmental neurobiology as a guide for pharmacological management of pain in neonates. <i>Seminars in Fetal and Neonatal Medicine</i> , <b>2019</b> , 24, 101012	3.7	7
275	Research on medication use in the neonatal intensive care unit. <i>Expert Review of Clinical Pharmacology</i> , <b>2019</b> , 12, 343-353	3.8	7
274	A Core Outcome Set for Neonatal Opioid Withdrawal Syndrome. <i>Pediatrics</i> , <b>2020</b> , 146,	7.4	7
273	Pharmacokinetics during therapeutic hypothermia for neonatal hypoxic ischaemic encephalopathy: a literature review. <i>BMJ Paediatrics Open</i> , <b>2020</b> , 4, e000685	2.4	7
272	Effect of esophageal length on high-resolution manometry metrics: Extension to the neonatal population. <i>Neurogastroenterology and Motility</i> , <b>2020</b> , 32, e13800	4	7
271	Ibuprofen exposure in early neonatal life does not affect renal function in young adolescence. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , <b>2018</b> , 103, F107-F111	4.7	7
270	Dose rationale and pharmacokinetics of dexmedetomidine in mechanically ventilated new-borns: impact of design optimisation. <i>European Journal of Clinical Pharmacology</i> , <b>2019</b> , 75, 1393-1404	2.8	7
269	Health products and substance use among pregnant women visiting a tertiary hospital in Belgium: A cross-sectional study. <i>Pharmacoepidemiology and Drug Safety</i> , <b>2019</b> , 28, 1231-1238	2.6	7
268	Clinical pharmacology of analgosedatives in neonates: ways to improve their safe and effective use. <i>Journal of Pharmacy and Pharmacology</i> , <b>2017</b> , 69, 350-360	4.8	7
267	Open-Label Study To Evaluate the Single-Dose Pharmacokinetics, Safety, and Tolerability of Doripenem in Infants Less than 12 Weeks in Chronological Age. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2015</b> , 59, 4742-9	5.9	7
266	Commentary: Continuous infusion of vancomycin in neonates: to use or not to use remains the question. <i>Pediatric Infectious Disease Journal</i> , <b>2014</b> , 33, 606-7	3.4	7
265	Biochemical tolerance during low dose propylene glycol exposure in neonates: A formulation-controlled evaluation. <i>DARU, Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 20, 5	3.9	7
264	Renal Side Effects of Non-Steroidal Anti-Inflammatory Drugs in Neonates. <i>Pharmaceuticals</i> , <b>2010</b> , 3, 393-405	3.2	7
263	Pharmacokinetics and pharmacodynamics of intravenous acetaminophen in neonates. <i>Expert Review of Clinical Pharmacology</i> , <b>2011</b> , 4, 713-8	3.8	7
262	The impact of Caesarean delivery on paracetamol and ketorolac pharmacokinetics: a paired analysis. <i>Journal of Biomedicine and Biotechnology</i> , <b>2012</b> , 2012, 437639		7
261	Shouldn't we reconsider procedural techniques to prevent neonatal pain?. <i>European Journal of Pain</i> , <b>2007</b> , 11, 910-2	3.7	7

260	558: Short term neonatal morbidity in severe left-sided congenital diaphragmatic hernia treated by tracheal occlusion before 30 weeks. <i>American Journal of Obstetrics and Gynecology</i> , <b>2007</b> , 197, S162	6.4	7
259	Cerebrospinal fluid pharmacokinetics of paracetamol after intravenous propacetamol in a former preterm infant. <i>British Journal of Clinical Pharmacology</i> , <b>2004</b> , 57, 224-5	3.8	7
258	Prospective assessment of systemic side effects of topical ophthalmic drug administration for screening for retinopathy of prematurity. <i>Paediatric and Perinatal Drug Therapy</i> , <b>2006</b> , 7, 121-122		7
257	Epidemiological and histological findings implicate matrix Gla protein in diastolic left ventricular dysfunction. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193967	3.7	7
256	Growth patterns and body composition in former extremely low birth weight (ELBW) neonates until adulthood: a systematic review. <i>European Journal of Pediatrics</i> , <b>2020</b> , 179, 757-771	4.1	7
255	Pharmacokinetic modeling of intravenous sildenafil in newborns with congenital diaphragmatic hernia. <i>European Journal of Clinical Pharmacology</i> , <b>2020</b> , 76, 219-227	2.8	7
254	Sequestration of Voriconazole and Vancomycin Into Contemporary Extracorporeal Membrane Oxygenation Circuits: An Study. <i>Frontiers in Pediatrics</i> , <b>2020</b> , 8, 468	3.4	7
253	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> , <b>2021</b> , 136, 111038	7.5	7
252	Different Vancomycin Immunoassays Contribute to the Variability in Vancomycin Trough Measurements in Neonates. <i>BioMed Research International</i> , <b>2016</b> , 2016, 1974972	3	7
251	Population pharmacokinetic modelling of intravenous paracetamol in fit older people displays extensive unexplained variability. <i>British Journal of Clinical Pharmacology</i> , <b>2019</b> , 85, 126-135	3.8	7
250	Characterization of esophageal motility and esophagogastric junction in preterm infants with bronchopulmonary dysplasia. <i>Neurogastroenterology and Motility</i> , <b>2020</b> , 32, e13849	4	7
249	The Oral Bioavailability and Metabolism of Midazolam in Stable Critically Ill Children: A Pharmacokinetic Microtracing Study. <i>Clinical Pharmacology and Therapeutics</i> , <b>2021</b> , 109, 140-149	6.1	7
248	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> , <b>2021</b> , 36, 649-659	3.2	7
247	Model-Informed Precision Dosing of Antibiotics in Pediatric Patients: A Narrative Review. <i>Frontiers in Pediatrics</i> , <b>2021</b> , 9, 624639	3.4	7
246	Cefazolin plasma protein binding saturability during pregnancy. <i>Methods and Findings in Experimental and Clinical Pharmacology</i> , <b>2009</b> , 31, 25-8		7
245	Impact of Disease on Amikacin Pharmacokinetics and Dosing in Children. <i>Therapeutic Drug Monitoring</i> , <b>2019</b> , 41, 44-52	3.2	6
244	Outcome reporting in neonates experiencing withdrawal following opioid exposure in pregnancy: a systematic review. <i>Trials</i> , <b>2020</b> , 21, 262	2.8	6
243	Enantiomer-specific ketorolac pharmacokinetics in young women, including pregnancy and postpartum period. <i>Bosnian Journal of Basic Medical Sciences</i> , <b>2017</b> , 17, 54-60	3.3	6

242	Changes in Oxygenation Levels Precede Changes in Amplitude of the EEG in Premature Infants. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 923, 143-149	3.6	6
241	Better medicines for neonates: Improving medicine development, testing, and prescribing. <i>Early Human Development</i> , <b>2017</b> , 114, 22-25	2.2	6
240	N-terminal B-type natriuretic peptide urinary concentrations and retinopathy of prematurity. <i>Pediatric Research</i> , <b>2017</b> , 82, 958-963	3.2	6
239	Individualized dosing of aminoglycosides in neonates: mission accomplished or work in progress?. <i>European Journal of Clinical Pharmacology</i> , <b>2009</b> , 65, 1159-60	2.8	6
238	Is indirect hyperbilirubinemia a useful biomarker of reduced propofol clearance in neonates?. <i>Biomarkers in Medicine</i> , <b>2012</b> , 6, 283-9	2.3	6
237	Continuous glucose monitoring and retinopathy of prematurity. <i>European Journal of Ophthalmology</i> , <b>2012</b> , 22, 436-40	1.9	6
236	Pharmacotherapy during neonatal extracorporeal membrane oxygenation: toward an evidence-based approach. <i>Critical Care</i> , <b>2007</b> , 11, 107	10.8	6
235	Continuous infusion of medications in very low birth weight infants. <i>European Journal of Clinical Pharmacology</i> , <b>2004</b> , 60, 383-6	2.8	6
234	Neonatal Formulations: The Need for a Tailored, Knowledge Driven Approach. <i>Current Pharmaceutical Design</i> , <b>2015</b> , 21, 5674-9	3.3	6
233	Maturation changes in the in vivo activity of CYP3A4 in the first months of life. <i>International Journal of Clinical Pharmacology and Therapeutics</i> , <b>2006</b> , 44, 303-8	2	6
232	A Critical Review on the Relevance of Paracetamol for Procedural Pain Management in Neonates. <i>Frontiers in Pediatrics</i> , <b>2020</b> , 8, 89	3.4	6
231	Population pharmacokinetics and dosing optimization of azlocillin in neonates with early-onset sepsis: a real-world study. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 699-709	5.1	6
230	Actual body weight-based vancomycin dosing in neonates. <i>Journal of Chemotherapy</i> , <b>2019</b> , 31, 307-312	2.3	5
229	Extremely Low Birth Weight Predisposes to Impaired Renal Health: A Pooled Analysis. <i>Kidney and Blood Pressure Research</i> , <b>2019</b> , 44, 897-906	3.1	5
228	Larger Dose Reductions of Vancomycin Required in Neonates with Patent Ductus Arteriosus Receiving Indomethacin versus Ibuprofen. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2019</b> , 63,	5.9	5
227	Antenatal therapy with sildenafil: don't throw the baby out with the bathwater. <i>Ultrasound in Obstetrics and Gynecology</i> , <b>2019</b> , 53, 274-275	5.8	5
226	Maturation of Esophageal Motility and Esophagogastric Junction in Preterm Infants. <i>Neonatology</i> , <b>2020</b> , 117, 495-503	4	5
225	Neonates are not just little children and need more finesse in dosing of antibiotics. <i>Acta Clinica Belgica</i> , <b>2019</b> , 74, 157-163	1.8	5

224	Tailored tools to improve pharmacotherapy in infants. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2014</b> , 10, 1069-78	5.5	5
223	Esophageal Atresia: Future Directions for Research on the Digestive Tract. <i>European Journal of Pediatric Surgery</i> , <b>2017</b> , 27, 306-312	1.9	5
222	Creatinine-based vancomycin dosing regimens in neonates: there is more to consider than the variation in drug assay. <i>Pharmacotherapy</i> , <b>2012</b> , 32, e174; discussion e175	5.8	5
221	Perinatal pharmacology: applications for neonatal neurology. <i>European Journal of Paediatric Neurology</i> , <b>2011</b> , 15, 478-86	3.8	5
220	The pharmacokinetics of a high intravenous dose of paracetamol after caesarean delivery: the effect of gestational age. <i>European Journal of Anaesthesiology</i> , <b>2012</b> , 29, 484-8	2.3	5
219	Pain management during eye examinations for retinopathy of prematurity: what about procedural adaptations to blunt the pain response?. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>2010</b> , 99, 488-9	3.1	5
218	Cardiorespiratory depression and hyperglycemia after unintentional ingestion of brimonidine in a neonate. <i>European Journal of Ophthalmology</i> , <b>2009</b> , 19, 694-5	1.9	5
217	Comments on "shift from biliary to urinary elimination of acetaminophen-glucuronide in acetaminophen-pretreated rats". <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2006</b> , 316, 966-7	4.7	5
216	Dopamine is an indicator but not an independent risk factor for grade 3 retinopathy of prematurity in extreme low birthweight infants. <i>British Journal of Ophthalmology</i> , <b>2004</b> , 88, 309-10	5.5	5
215	Therapeutic drug monitoring. <i>Current Opinion in Anaesthesiology</i> , <b>2002</b> , 15, 687-92	2.9	5
214	Intravenous Paracetamol Dosing Guidelines for Pain Management in (pre)term Neonates Using the Paediatric Study Decision Tree. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 5839-5849	3.3	5
213	Should we treat every infant with a probiotic?. <i>Minerva Pediatrica</i> , <b>2019</b> , 71, 253-262	1.6	5
212	Simvastatin attenuates lung functional and vascular effects of hyperoxia in preterm rabbits. <i>Pediatric Research</i> , <b>2020</b> , 87, 1193-1200	3.2	5
211	Impact of a blended learning program on community pharmacists' barriers, knowledge, and counseling practice with regard to preconception, pregnancy and lactation. <i>Research in Social and Administrative Pharmacy</i> , <b>2021</b> , 17, 1242-1249	2.9	5
210	Population Pharmacokinetic Modeling of Acetaminophen and Metabolites in Children After Cardiac Surgery With Cardiopulmonary Bypass. <i>Journal of Clinical Pharmacology</i> , <b>2019</b> , 59, 847-855	2.9	5
209	Using Graph Theory to Assess the Interaction between Cerebral Function, Brain Hemodynamics, and Systemic Variables in Premature Infants. <i>Complexity</i> , <b>2018</b> , 2018, 1-15	1.6	5
208	Rational Use of Medicines in Neonates: Current Observations, Areas for Research and Perspectives. <i>Healthcare (Switzerland)</i> , <b>2018</b> , 6,	3.4	5
207	Paracetamol and ketorolac pharmacokinetics and metabolism at delivery and during postpartum. <i>Acta Anaesthesiologica Belgica</i> , <b>2012</b> , 63, 121-5		5



206	Risk factors for elevated levels of 17-hydroxyprogesterone during neonatal intensive care unit admission. <i>Acta Clinica Belgica</i> , <b>2012</b> , 67, 88-93	1.8	5
205	Neonatal creatinemia trends as biomarker of subsequent cognitive outcome in extremely low birth weight neonates. <i>Early Human Development</i> , <b>2015</b> , 91, 367-72	2.2	4
204	Acetaminophen Use in Pregnant Women and Their Neonates: Safe or Unsafe till Proven Otherwise?. <i>Neonatology</i> , <b>2020</b> , 117, 249-251	4	4
203	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> , <b>2020</b> , 59, 1291-1301	6.2	4
202	Reproducibility of Retinal Microvascular Traits Decoded by the Singapore I Vessel Assessment Software Across the Human Age Range. <i>American Journal of Hypertension</i> , <b>2018</b> , 31, 438-449	2.3	4
201	The impact of pregnancy on urinary ketorolac metabolites after single intravenous bolus. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , <b>2013</b> , 38, 1-4	2.7	4
200	Switch in FGFR3 and -4 expression profile during human renal development may account for transient hypercalcemia in patients with Sotos syndrome due to 5q35 microdeletions. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2014</b> , 99, E1361-7	5.6	4
199	Estradiol and weight are covariates of paracetamol clearance in young women. <i>Gynecologic and Obstetric Investigation</i> , <b>2014</b> , 77, 211-6	2.5	4
198	Propofol in (pre)term neonates: consider the extensive interindividual variability in clearance within the neonatal population. <i>Paediatric Anaesthesia</i> , <b>2011</b> , 21, 174-5	1.8	4
197	Developmental pharmacokinetics in neonates. <i>Expert Review of Clinical Pharmacology</i> , <b>2008</b> , 1, 415-28	3.8	4
196	Influence of duration of parenteral nutrition on retinopathy of prematurity. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , <b>2008</b> , 93, F170	4.7	4
195	Dopamine is not an independent risk factor for reduced amikacin clearance in extremely low-birth-weight infants. <i>Pediatric Critical Care Medicine</i> , <b>2006</b> , 7, 143-6	3	4
194	Cryotherapy for threshold retinopathy: perioperative management in a single center. <i>American Journal of Perinatology</i> , <b>2003</b> , 20, 219-26	3.3	4
193	Association of patent ductus arteriosus and severe hypothyroidism in term newborns: coincidence or causal?. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2004</b> , 16, 339-341	2	4
192	Neonatal transthoracic puncture in a case of congenital cystic adenomatoid malformation of the lung. <i>Journal of Pediatric Surgery</i> , <b>2002</b> , 37, 1495-7	2.6	4
191	Symptomatic unilateral dolicho-ectasia of the intracranial arteries in a child. <i>European Radiology</i> , <b>2000</b> , 10, 759-60	8	4
190	Reduced inflammatory response after laser photocoagulation compared with cryoablation for threshold retinopathy of prematurity. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , <b>2005</b> , 42, 264-6	8.9	4
189	Relation Between EEG Activity and Brain Oxygenation in Preterm Neonates. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 977, 133-139	3.6	4



188	Characteristics of respiratory syncytial virus-related apnoea in three infants <b>2004</b> , 93, 847		4
187	Mechanistic Coupling of a Novel Cotyledon Perfusion Model and a Physiologically Based Pharmacokinetic Model to Predict Fetal Acetaminophen Pharmacokinetics at Delivery. <i>Frontiers in Pediatrics</i> , <b>2021</b> , 9, 733520	3-4	4
186	In-Hospital Outcomes of Acute Kidney Injury After Pediatric Cardiac Surgery: A Meta-Analysis. <i>Frontiers in Pediatrics</i> , <b>2021</b> , 9, 733744	3-4	4
185	Clinical pharmacokinetics of amoxicillin in neonates. <i>Journal of Chemotherapy</i> , <b>2017</b> , 29, 57-59	2-3	3
184	474: Placenta transfer of sildenafil citrate in the ex-vivo human cotyledon perfusion model. <i>American Journal of Obstetrics and Gynecology</i> , <b>2017</b> , 216, S280	6-4	3
183	Inter-Subject Variability in OCT1 Activity in 27 Batches of Cryopreserved Human Hepatocytes and Association with OCT1 mRNA Expression and Genotype. <i>Pharmaceutical Research</i> , <b>2017</b> , 34, 1309-1319	4-5	3
182	Population Pharmacokinetic Modeling in the Presence of Missing Time-Dependent Covariates: Impact of Body Weight on Pharmacokinetics of Paracetamol in Neonates. <i>AAPS Journal</i> , <b>2019</b> , 21, 68	3-7	3
181	Acute Maternal Fasting or Fluid Abstinence Does Not Significantly Affect the Macronutrient Composition of Human Milk: Clinical and Clinical Research Relevance. <i>Children</i> , <b>2020</b> , 7,	2-8	3
180	Cognitive assessment of very low birth weight infants using the Dutch version of the PARCA-R parent questionnaire. <i>Early Human Development</i> , <b>2014</b> , 90, 897-900	2-2	3
179	Urinary metabolites after intravenous propofol bolus in neonates. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , <b>2013</b> , 38, 97-103	2-7	3
178	Mechanism based medicine in infancy: complex interplay between developmental pharmacology and pharmacogenetics. <i>International Journal of Clinical Pharmacy</i> , <b>2011</b> , 33, 473-4	2-3	3
177	Tramadol withdrawal in a neonate: only one of the clinical presentations to be anticipated. <i>European Journal of Clinical Pharmacology</i> , <b>2009</b> , 65, 643-4; author reply 645	2-8	3
176	Correction of pseudophakic anisometropia in a patient with pseudoexfoliation using an implantable contact lens. <i>British Journal of Ophthalmology</i> , <b>2004</b> , 88, 309	5-5	3
175	Congenital diaphragmatic hernia and situs inversus totalis. <i>Pediatrics</i> , <b>2004</b> , 113, e256-8	7-4	3
174	Antenatal steroids and neonatal renal function. <i>Archives of Disease in Childhood</i> , <b>2006</b> , 91, 451	2-2	3
173	Propylene Glycol in Neonates: Never Prescribed, Frequently Administered, Hardly Evaluated <b>2012</b> , 02,		3
172	Antenatal management of congenital diaphragmatic hernia today and tomorrow. <i>Minerva Pediatrics</i> , <b>2018</b> , 70, 270-280	1-5	3
171	Treprostinil Attains Clinically Therapeutic Concentrations in Neonates with Pulmonary Hypertension on Extracorporeal Membrane Oxygenation Support. <i>Pharmacotherapy</i> , <b>2020</b> , 40, 1054-1060	5-8	3

170	Routine Intubation in Newborns With Congenital Diaphragmatic Hernia. <i>Pediatrics</i> , <b>2020</b> , 146,	7.4	3
169	Drug Clearance in Neonates: A Combination of Population Pharmacokinetic Modelling and Machine Learning Approaches to Improve Individual Prediction. <i>Clinical Pharmacokinetics</i> , <b>2021</b> , 60, 1435-1448	6.2	3
168	Characterization of Esophageal Motility in Infants With Congenital Diaphragmatic Hernia Using High-resolution Manometry. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , <b>2019</b> , 69, 32-38	2.8	3
167	Severity of asphyxia is a covariate of phenobarbital clearance in newborns undergoing hypothermia. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2019</b> , 32, 2302-2309	2	3
166	Prevalence and characteristics of pregnancy- and lactation-related calls to the National Poison Centre in Belgium: A retrospective analysis of calls from 2012 to 2017. <i>Journal of Evaluation in Clinical Practice</i> , <b>2020</b> , 26, 911-917	2.5	3
165	Current knowledge, challenges and innovations in developmental pharmacology: A combined connect4children Expert Group and European Society for Developmental, Perinatal and Paediatric Pharmacology White Paper. <i>British Journal of Clinical Pharmacology</i> , <b>2021</b> ,	3.8	3
164	A Population Pharmacokinetic Modeling and Simulation Study of Posaconazole Oral Suspension in Immunocompromised Pediatric Patients: A Short Communication. <i>Therapeutic Drug Monitoring</i> , <b>2021</b> , 43, 512-518	3.2	3
163	Clinical pharmacology of non opioid analgesics in neonates. <i>Verhandelingen - Koninklijke Academie Voor Geneeskunde Van België</i> , <b>2005</b> , 67, 289-315		3
162	Determinants of variability in clearance of exogenous compounds in neonates. <i>Verhandelingen - Koninklijke Academie Voor Geneeskunde Van België</i> , <b>2009</b> , 71, 141-64		3
161	Pharmacokinetics of aminoglycosides in the newborn. <i>Current Pharmaceutical Design</i> , <b>2012</b> , 18, 3114-8	3.3	3
160	Association of patent ductus arteriosus and severe hypothyroidism in term newborns: coincidence or causal?. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , <b>2004</b> , 16, 339-41	2	3
159	Strategies for Determining Correct Cytochrome P450 Contributions in Hepatic Clearance Predictions: In Vitro-In Vivo Extrapolation as Modelling Approach and Tramadol as Proof-of Concept Compound. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , <b>2017</b> , 42, 537-543	2.7	2
158	Fetal and neonatal rats paracetamol dosage and the perinatal human setting: Lost in translation?. <i>Pharmacological Reports</i> , <b>2017</b> , 69, 371-372	3.9	2
157	63: Transplacental sildenafil rescues vascular and airway morphometry in the rabbit model of congenital diaphragmatic hernia. <i>American Journal of Obstetrics and Gynecology</i> , <b>2015</b> , 212, S44-S45	6.4	2
156	Parental perspectives long term after neonatal clinical trial participation: a survey. <i>Trials</i> , <b>2020</b> , 21, 907	2.8	2
155	Target Drug Exposure Attainment in Children: How to Get from Better to Best. <i>Paediatric Drugs</i> , <b>2020</b> , 22, 445-447	4.2	2
154	Conventional and Ambulatory Blood Pressure as Predictors of Diastolic Left Ventricular Function in a Flemish Population. <i>Journal of the American Heart Association</i> , <b>2018</b> , 7,	6	2
153	Antibiotic Dosing in Pediatric Critically Ill Patients <b>2018</b> , 239-263		2

152	Propofol Formulation Affects Myocardial Function in Newborn Infants. <i>Pediatric Cardiology</i> , <b>2019</b> , 40, 1536-1542	2.1	2
151	Determination of Racemic Ketorolac, Ketorolac Enantiomers and Their Metabolites in Human Plasma and Urine by LC/UV, Applied in Clinical Study During and After Pregnancy. <i>Chromatographia</i> , <b>2014</b> , 77, 803-812	2.1	2
150	Neonatal abstinence syndrome: on the evidence to add breastfeeding to any clinical pathway. <i>Pediatric Critical Care Medicine</i> , <b>2014</b> , 15, 579-80	3	2
149	Neonatal Formulations and Additives. <i>Pediatric and Adolescent Medicine</i> , <b>2014</b> , 41-57	0.4	2
148	Pediatric clinical pharmacology: an introduction to a series of educational papers. <i>European Journal of Pediatrics</i> , <b>2013</b> , 172, 289-92	4.1	2
147	Aminoglycoside pharmacokinetics in neonates: the need to search for covariates of variability in addition to case descriptions. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>2009</b> , 98, 1546; author reply 1546-7	3.1	2
146	Effective analgesia after cesarean delivery needs pharmacokinetic input. <i>Journal of Anaesthesiology Clinical Pharmacology</i> , <b>2012</b> , 28, 409-10	1.3	2
145	Variation in management during and after retinal surgery for retinopathy of prematurity. <i>Eye</i> , <b>2007</b> , 21, 679-80	4.4	2
144	Predictability of vancomycin pharmacokinetics in neonates. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , <b>2007</b> , 26, 847-8	5.3	2
143	A Human Proximal Tubular Epithelial Cell Model to Explore a Knowledge Gap on Neonatal Drug Disposition. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 5911-5918	3.3	2
142	Morphine treatment for neonatal abstinence syndrome: huge dosing variability underscores the need for a better clinical study design. <i>Minerva Pediatrica</i> , <b>2019</b> , 71, 263-286	1.6	2
141	Pregnancy-related pharmacokinetics and antimicrobial prophylaxis during fetal surgery, cefazolin and clindamycin as examples. <i>Prenatal Diagnosis</i> , <b>2020</b> , 40, 1178-1184	3.2	2
140	Creatinine Assays in Early Infancy: How to Aim for a Moving Target <b>2015</b> , 1-30		2
139	A sensitive liquid chromatography method for analysis of propofol in small volumes of neonatal blood. <i>Journal of Clinical Pharmacy and Therapeutics</i> , <b>2020</b> , 45, 128-133	2.2	2
138	Creatinine at Birth Correlates with Gestational Age and Birth Weight: Another Factor of the Imbroglio in Early Neonatal Life. <i>Neonatology</i> , <b>2020</b> , 117, 637-640	4	2
137	A semi-automated method for unbiased alveolar morphometry: Validation in a bronchopulmonary dysplasia model. <i>PLoS ONE</i> , <b>2020</b> , 15, e0239562	3.7	2
136	Retinal and Renal Microvasculature in Relation to Central Hemodynamics in 11-Year-Old Children Born Preterm or At Term. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e014305	6	2
135	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> , <b>2021</b> , 11,	3.1	2

134	Considerations for Drug Dosing in Premature Infants. <i>Journal of Clinical Pharmacology</i> , <b>2021</b> , 61 Suppl 1, S141-S151	2.9	2
133	Hepatic cyst penetration of cefazolin in patients receiving aspiration sclerotherapy. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2016</b> , 71, 2547-52	5.1	2
132	RAIN study: a protocol for a randomised controlled trial evaluating efficacy, safety and cost-effectiveness of intravenous-to-oral antibiotic switch therapy in neonates with a probable bacterial infection. <i>BMJ Open</i> , <b>2019</b> , 9, e026688	3	2
131	Medical devices that look like medicines: safety and regulatory concerns for children in Europe. <i>Archives of Disease in Childhood</i> , <b>2020</b> , 105, 147-154	2.2	2
130	Pregnancy affects the pharmacokinetics of sildenafil and its metabolite in the rabbit. <i>Xenobiotica</i> , <b>2019</b> , 49, 98-105	2	2
129	The bioavailability and maturing clearance of doxapram in preterm infants. <i>Pediatric Research</i> , <b>2021</b> , 89, 1268-1277	3.2	2
128	Physiologically based pharmacokinetic modelling of acetaminophen in preterm neonates-The impact of metabolising enzyme ontogeny and reduced cardiac output. <i>Biopharmaceutics and Drug Disposition</i> , <b>2021</b> , 42, 401-417	1.7	2
127	Pharmacokinetics of 2 oral paracetamol formulations in hospitalized octogenarians. <i>British Journal of Clinical Pharmacology</i> , <b>2021</b> ,	3.8	2
126	Variations in Antibiotic Use and Sepsis Management in Neonatal Intensive Care Units: A European Survey. <i>Antibiotics</i> , <b>2021</b> , 10,	4.9	2
125	Continuous Intravenous Acetaminophen for Analgesia: First, Back to the Drawing Table?. <i>Journal of Clinical Pharmacology</i> , <b>2017</b> , 57, 1353-1354	2.9	2
124	Weight, pregnancy and oral contraceptives affect intravenous paracetamol clearance in young women. <i>European Review for Medical and Pharmacological Sciences</i> , <b>2014</b> , 18, 599-604	2.9	2
123	The use of antenatal corticosteroids for fetal maturation: clinical practice guideline by the WAPM-World Association of Perinatal Medicine and the PMF-Perinatal Medicine Foundation.. <i>Journal of Perinatal Medicine</i> , <b>2022</b> ,	2.7	2
122	Intravenous or Oral Acetaminophen for Analgesia After Cesarean Section: Exposure Drives Pain Relief. <i>Pain Medicine</i> , <b>2019</b> , 20, 2329-2331	2.8	1
121	Perspectives in Neonatal Pharmacology: Drug Discovery, Knowledge Integration and Structured Prioritization. <i>Current Pharmaceutical Design</i> , <b>2018</b> , 24, 4839-4841	3.3	1
120	Glomerular Filtration Rate in Former Extreme Low Birth Weight Infants over the Full Pediatric Age Range: A Pooled Analysis. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	1
119	Clinical Studies in Infants (Pediatric Pharmacology) <b>2017</b> , 1-16		1
118	Phenobarbital Increases Midazolam Clearance in Neonates Treated with Hypothermia: Do We Really Need to Know?. <i>Neonatology</i> , <b>2019</b> , 116, 188-190	4	1
117	O26 Population pharmacokinetic meta-analysis of individual data to design the first randomized efficacy trial of vancomycin in neonates and young Infants. <i>Archives of Disease in Childhood</i> , <b>2019</b> , 104, e11.2-e12	2.2	1

116	Analysis of renal blood flow and renal volume in normal fetuses and in fetuses with a solitary functioning kidney. <i>Prenatal Diagnosis</i> , <b>2017</b> , 37, 1213-1218	3.2	1
115	Physicochemical and Structural Properties Regulating Placental Drug Transfer <b>2017</b> , 208-221.e4		1
114	Analgesedation in neonates: what we know and how we act. <i>Research and Reports in Neonatology</i> , <b>2013</b> , 51	1	1
113	Association between retinal neovascularization and serial weight measurements in murine and human newborns. <i>European Journal of Ophthalmology</i> , <b>2013</b> , 23, 678-82	1.9	1
112	How to use drugs for pain management: from pharmacokinetics to pharmacogenomics. <i>European Journal of Pain Supplements</i> , <b>2008</b> , 2, 25-30		1
111	Propofol pharmacokinetics in preterm and term neonates: the relevance of both postmenstrual and postnatal age. <i>Critical Care</i> , <b>2008</b> , 12, P274	10.8	1
110	Postmenstrual age and CYP2D6 polymorphisms determine urinary tramadol O-demethylation excretion in critically ill neonates and infants. <i>Critical Care</i> , <b>2008</b> , 12, P279	10.8	1
109	The use of methohexital during neonatal cardioversion. <i>Paediatric Anaesthesia</i> , <b>2002</b> , 12, 371-3	1.8	1
108	Biomarkers of acute kidney injury after pediatric cardiac surgery: a meta-analysis of diagnostic test accuracy.. <i>European Journal of Pediatrics</i> , <b>2022</b> , 1	4.1	1
107	Efficacy and safety of medical cannabinoids in children: a systematic review and meta-analysis. <i>Scientific Reports</i> , <b>2021</b> , 11, 23462	4.9	1
106	Global research priorities on COVID-19 for maternal, newborn, child and adolescent health.. <i>Journal of Global Health</i> , <b>2021</b> , 11, 04071	4.3	1
105	Clinical pharmacological studies in children: From exploratory towards confirmation driven methodology. <i>World Journal of Clinical Pediatrics</i> , <b>2012</b> , 1, 3-7	2.5	1
104	Pharmacokinetic/Pharmacodynamic Modelling of Allopurinol, its Active Metabolite Oxypurinol, and Biomarkers Hypoxanthine, Xanthine and Uric Acid in Hypoxic-Ischemic Encephalopathy Neonates. <i>Clinical Pharmacokinetics</i> , <b>2021</b> , 1	6.2	1
103	Nonlinear Transfer Entropy to Assess the Neurovascular Coupling in Premature Neonates. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1232, 11-17	3.6	1
102	Perinatal pharmacology and safety profiles. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2020</b> , 171, 161-178	3	1
101	Immersive Virtual Reality as Analgesia during Dressing Changes of Hospitalized Children and Adolescents with Burns: A Systematic Review with Meta-Analysis. <i>Children</i> , <b>2020</b> , 7,	2.8	1
100	Innovative approaches and recent advances in the study of ontogeny of drug metabolism and transport. <i>British Journal of Clinical Pharmacology</i> , <b>2020</b> ,	3.8	1
99	Does Trypsin Oral Spray (Viruprotect/ColdZyme) Protect against COVID-19 and Common Colds or Induce Mutation? Caveats in Medical Device Regulations in the European Union. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	1

98	TO WHAT EXTENT DOES THE VANCOMYCIN ASSAY CONTRIBUTE TO THE VARIABILITY IN VANCOMYCIN CONCENTRATION ESTIMATES IN NEONATES?. <i>Archives of Disease in Childhood</i> , <b>2016</b> , 101, e1.10-e1	2.2	1
97	Substitution as a Strategy to Improve Excipient Exposure in Neonates: One Piece of the Puzzle. <i>Paediatric Drugs</i> , <b>2016</b> , 18, 231-3	4.2	1
96	O19 Development of a paediatric brain PBPK model in children with and without meningitis. <i>Archives of Disease in Childhood</i> , <b>2019</b> , 104, e8.3-e9	2.2	1
95	Population pharmacokinetics of propofol in neonates and infants: Gestational and postnatal age to determine clearance maturation. <i>British Journal of Clinical Pharmacology</i> , <b>2021</b> , 87, 2089-2097	3.8	1
94	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> , <b>2021</b> , 18,	4.6	1
93	Glomerular Filtration Rate in Asphyxiated Neonates Under Therapeutic Whole-Body Hypothermia, Quantified by Mannitol Clearance. <i>Clinical Pharmacokinetics</i> , <b>2021</b> , 60, 897-906	6.2	1
92	Developmental Pharmacology - Special Issues During Childhood and Adolescence. <i>Drug Research</i> , <b>2018</b> , 68, S10-S11	1.8	1
91	Earlier achievement of full enteral feeding in extremely low birth weight neonates is not associated with growth improvement in the first 2 years of life. <i>European Journal of Pediatrics</i> , <b>2018</b> , 177, 1247-1254	4.1	1
90	Clinical Research in Neonates: Redesigning the Informed Consent Process in the Digital Era. <i>Frontiers in Pediatrics</i> , <b>2021</b> , 9, 724431	3.4	1
89	Pharmacokinetics and pharmacodynamics of sildenafil in fetal lambs on extracorporeal support. <i>Biomedicine and Pharmacotherapy</i> , <b>2021</b> , 143, 112161	7.5	1
88	Incidence, perinatal risk factors, visual outcome and management of threshold retinopathy. <i>Bulletin De La Soci�t� Belge D�ophtalmologie</i> , <b>2003</b> , 37-42		1
87	Cryotherapy versus laser photocoagulation for threshold retinopathy of prematurity: impact on early postoperative clinical recovery. <i>Bulletin De La Soci�t� Belge D�ophtalmologie</i> , <b>2006</b> , 7-10		1
86	Pharmacokinetics of Clavulanic Acid in the Pediatric Population: A Systematic Literature Review.. <i>Clinical Pharmacokinetics</i> , <b>2022</b> , 1	6.2	1
85	Ways to Improve Insights into Clindamycin Pharmacology and Pharmacokinetics Tailored to Practice. <i>Antibiotics</i> , <b>2022</b> , 11, 701	4.9	1
84	Do old pharmacokinetic parameter estimates predict new data?. <i>British Journal of Anaesthesia</i> , <b>2012</b> , 109, 1013-4	5.4	0
83	Pre- and Postnatal Maturation are Important for Fentanyl Exposure in Preterm and Term Newborns: A Pooled Population Pharmacokinetic Study. <i>Clinical Pharmacokinetics</i> , <b>2021</b> , 1	6.2	0
82	Protocol: Pentoxifylline optimal dose finding trial in preterm neonates with suspected late onset sepsis (PTX-trial). <i>BMC Pediatrics</i> , <b>2021</b> , 21, 517	2.6	0
81	Developmental Pharmacology and Therapeutics in Neonatal Medicine <b>2018</b> , 693-707		0



80	Variation in vancomycin dosing and therapeutic drug monitoring practices in neonatal intensive care units. <i>International Journal of Clinical Pharmacy</i> , <b>2021</b> , 1	2.3	o
79	Stratified Management for Bacterial Infections in Late Preterm and Term Neonates: Current Strategies and Future Opportunities Toward Precision Medicine. <i>Frontiers in Pediatrics</i> , <b>2021</b> , 9, 590969	3.4	o
78	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> , <b>2021</b> , 23, 65	3.7	o
77	Dose-Related Adverse Drug Events in Neonates: Recognition and Assessment. <i>Journal of Clinical Pharmacology</i> , <b>2021</b> , 61 Suppl 1, S152-S160	2.9	o
76	Population Model of Serum Creatinine as Time-Dependent Covariate in Neonates. <i>AAPS Journal</i> , <b>2021</b> , 23, 86	3.7	o
75	Transplacental Transfer and Fetal Pharmacodynamics of Sildenafil in the Pregnant Sheep Model. <i>Fetal Diagnosis and Therapy</i> , <b>2021</b> , 48, 411-420	2.4	o
74	Intralesional steroid injections to prevent refractory strictures in patients with oesophageal atresia: study protocol for an international, multicentre randomised controlled trial (STEPS-EA trial). <i>BMJ Open</i> , <b>2019</b> , 9, e033030	3	o
73	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> , <b>2019</b> , 2019, 660-663	0.9	o
72	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> , <b>2021</b> , 87, 1443-1454	3.8	o
71	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> , <b>2020</b> , 11, 610294	5.6	o
70	Sedation in the Neonatal Intensive Care Unit: International Practice <b>2021</b> , 305-343		o
69	Maternal paracetamol intake and fetal ductus arteriosus closure: adding pieces to the scenery. <i>European Journal of Clinical Pharmacology</i> , <b>2021</b> , 77, 1935-1936	2.8	o
68	Population pharmacokinetics of cefazolin in maternal and umbilical cord plasma, and simulated exposure in term neonates. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2021</b> , 76, 3229-3236	5.1	o
67	Prediction of glomerular filtration rate maturation across preterm and term neonates and young infants using inulin as marker.. <i>AAPS Journal</i> , <b>2022</b> , 24, 38	3.7	o
66	Characterizing Esophageal Motility in Neonatal Intensive Care Unit Patients Using High Resolution Manometry.. <i>Frontiers in Pediatrics</i> , <b>2022</b> , 10, 806072	3.4	o
65	From immature pharmacotherapy towards pharmacotherapy of the immature.. <i>Seminars in Fetal and Neonatal Medicine</i> , <b>2022</b> , 101327	3.7	o
64	Highly Variable Paracetamol Pharmacokinetics After Multiple Oral Dosing in Frail Older People: A Population Pharmacokinetic Analysis.. <i>Drugs and Aging</i> , <b>2021</b> , 39, 83	4.7	o
63	Pediatric Procedural Sedation and Analgesia (PROSA) in the Leuven University Hospitals: An Audit on Efficacy and Safety. <i>Children</i> , <b>2022</b> , 9, 776	2.8	o



62	Case Report: Bosentan and Sildenafil Exposure in Human Milk - A Contribution From the ConcePTION Project. <i>Frontiers in Pharmacology</i> , 13,	5.6	o
61	Narcotic-Sparing Approaches and the Shift Toward Paracetamol in Neonatal Intensive Care. <i>Handbook of Experimental Pharmacology</i> , 2020, 261, 491-506	3.2	
60	Relevance of the blood-brain barrier on compartmental pharmacokinetics of paracetamol. <i>Journal of Pediatric Neurology</i> , 2015, 03, 273-275	0.2	
59	Intravenous paracetamol and intraocular pressure reduction: mannitol may also be involved. <i>Clinical Ophthalmology</i> , 2016, 10, 1775-1777	2.5	
58	Eventos adversos a medicamentos em terapia intensiva pediátrica são comuns, mas estratégias de melhoria existem e são eficazes. <i>Revista Paulista De Pediatria</i> , 2016, 34, 393-394	1.2	
57	Safety of Medications During Pregnancy and Breastfeeding: Infants of Drug-Addicted Mothers 2016, 1-15		
56	Comment on: Pharmacokinetics of Tramadol and O-Desmethyldramadol Enantiomers Following Administration of Extended-Release Tablets to Elderly and Young Subjects. <i>Drugs and Aging</i> , 2016, 33, 159-60	4.7	
55	Neonatal Pharmacology 2018, 419-431.e2		
54	Congenital Diaphragmatic Hernia: In Utero Treatment Today and Tomorrow 2019, 503-511		
53	The addition of tramadol to a standard i.v. acetaminophen/morphine analgesia protocol in neonates: purposeful or just polypharmacy?. <i>Paediatric Anaesthesia</i> , 2014, 24, 1189-90	1.8	
52	O-051 Impaired Endothelial Function In Adolescents With Type 1 Diabetes Or Overweight, Measured By Peripheral Artery Tonometry. <i>Archives of Disease in Childhood</i> , 2014, 99, A41.2-A41	2.2	
51	Can peak creatininemia be used as risk indicator for retinopathy of prematurity in ELBW infants?. <i>Journal of Pediatric Biochemistry</i> , 2015, 02, 053-056		
50	Sedation in the Neonatal Intensive Care Unit: International Practice 2015, 243-274		
49	Current Therapeutic Research is Now Indexed on PubMed. <i>Current Therapeutic Research</i> , 2014, 76, 98	2.4	
48	Inotropic support in the NICU: ever more compounds in search of guidance? Commentary on J. Esch et al.: differential hemodynamic effects of levosimendan in a porcine model of neonatal hypoxia-reoxygenation (Neonatology 2012;101:192-200) and M.P. De Carolis et al.: levosimendan in two neonates with ischemic heart failure and pulmonary hypertension (Neonatology P.4.e.002	4	
47	The effects of prenatal stress on the intrauterine growth of the fetus. <i>European Neuropsychopharmacology</i> , 2011, 21, S544-S545	1.2	
46	Age-related PK differences of intravenous paracetamol loading dose administration in neonates. <i>European Journal of Anaesthesiology</i> , 2011, 28, 152	2.3	
45	Does a loading dose of intravenous paracetamol affects body temperature in neonates?. <i>European Journal of Anaesthesiology</i> , 2011, 28, 152	2.3	

- 44 Propylene Glycol Pharmacokinetics and Renal Elimination Capacity: Preliminary Observations. *Pediatric Research*, **2011**, 70, 846-846 3.2
- 43 Creatinaemia in ELBW Neonates: Jaffe Colorimetry Versus Enzymatic Analysis. *Pediatric Research*, **2011**, 70, 603-603 3.2
- 42 Perinatal Pharmacology **2010**, 29-39
- 41 1363 Empirical Mode Decomposition to Assess Coupling Between Infants Cry Signals and Pain Expression Quantified by a Pain Score. *Pediatric Research*, **2010**, 68, 675-675 3.2
- 40 Drug Metabolism and Interactions in Pediatric Patients **2012**, 1
- 39 462 Covariates of Nurses' Management of Pain in Children. *Pediatric Research*, **2010**, 68, 237-237 3.2
- 38 473 Prospective Evaluation of Propylene Glycol Tolerance in (PRE) Term Neonates: An Active Comparator Approach. *Pediatric Research*, **2010**, 68, 242-242 3.2
- 37 478 Haemodynamics Following Intravenous Paracetamol Administration in (PRE) Term Neonates. *Pediatric Research*, **2010**, 68, 244-244 3.2
- 36 938 Until When Does Creatinaemia in Elbw Infants Still Reflects Maternal Renal Function?. *Pediatric Research*, **2010**, 68, 468-469 3.2
- 35 Bladder catheter-induced obstructive bilateral hydroureteronephrosis in a newborn. *Acta Paediatrica, International Journal of Paediatrics*, **2010**, 99, 1747-9 3.1
- 34 Contributors to interindividual variability of tramadol disposition in the first months of life. *European Journal of Anaesthesiology*, **2008**, 25, 147 2.3
- 33 The interindividual variability in metabolism of the analgesic tramadol in neonates is independent of their disease state characteristics. *Journal of Neonatal-Perinatal Medicine*, **2009**, 2, 115-122 1.3
- 32 OC269: Prenatal prediction of neonatal morbidity in congenital diaphragmatic hernia: a multicenter study. *Ultrasound in Obstetrics and Gynecology*, **2007**, 30, 450-450 5.8
- 31 OC270: Observed to expected lung area to head circumference ratio in the prediction of survival in fetuses with isolated diaphragmatic hernia. *Ultrasound in Obstetrics and Gynecology*, **2007**, 30, 450-450 5.8
- 30 Circulatory effects of antenatal betamethasone therapy in low birthweight infants. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, **2006**, 91, F389-90 4.7
- 29 114 NEONATAL ANALGESIA: TOWARDS AN INDIVIDUALIZED, TAILORED APPROACH. *European Journal of Pain*, **2006**, 10, S33-S33 3.7
- 28 650 PHARMACODYNAMICS OF INTRAVENOUS TRAMADOL IN THE FIRST MONTHS OF LIFE. *European Journal of Pain*, **2006**, 10, S170b-S170 3.7
- 27 7 Ontogeny of Udp-Glucuronosyltransferase Activity During Repeated Administration of Propacetamol in Neonates. *Pediatric Research*, **2004**, 56, 465-465 3.2

- 26 Peroperatief beleid en langetermijnresultaten na cryotherapie. *Tijdschrift Voor Kindergeneeskunde*, **2002**, 70, 60-63
- 25 Prostaglandines en de neonatale nier: klinische relevantie van een fysiologisch evenwicht. *Tijdschrift Voor Kindergeneeskunde*, **2003**, 71, 7-10
- 24 6 Impact of Administration of Analgesics During Neonatal Stay on Pain Expression Following Neonatal Stay in Former Preterm Infants. *Pediatric Research*, **2004**, 56, 465-465 3.2
- 23 About the rationale of the insertion of a Heimlich valve in the thoracostomy circuit in newborn infants and small children. *Intensive Care Medicine*, **2001**, 27, 321 14.5
- 22 Clinical Studies in Infants (Pediatric Pharmacology) **2020**, 401-416
- 21 Blunted inflammatory and faster clinical recovery following laser treatment compared to cryotherapy. *Archives of Disease in Childhood*, **2007**, 92, 655 2.2
- 20 Structural and Functional Outcome in Infants Treated With Cryotherapy for Threshold Retinopathy Between 1989 and 1999. *Journal of Pediatric Ophthalmology and Strabismus*, **2003**, 40, 75-80 0.9
- 19 Medical devices claiming barrier mechanisms are marketed as medicines in the European Union: safety and regulatory concerns in children. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO2-15-6 0
- 18 Safety of Medications During Pregnancy and Breastfeeding: Infants of Drug-Addicted Mothers **2018**, 677-691
- 17 Creatinine Assays in Early Infancy: How to Aim for a Moving Target **2016**, 271-300
- 16 The role of population pharmacokinetic analysis in rational antibiotic therapy in neonates. *IFMBE Proceedings*, **2017**, 762-768 0.2
- 15 Drawbacks of Analgesics in Neonatal Age: How to Ensure Safe and Effective Use in Newborns **2017**, 227-238
- 14 The Clinical Relevance of Pediatric Formulations. *AAPS Advances in the Pharmaceutical Sciences Series*, **2014**, 69-85 0.5
- 13 Authors' Reply to Santos et al.: "Excipients in Neonatal Medicinal Products: Never Prescribed, Commonly Administered". *Pharmaceutical Medicine*, **2020**, 34, 361-362 2.3
- 12 Bronchodilator and Anti-hyperkalemic Effects of Salbutamol (Albuterol) in Neonates and Young Infants. *Journal of Pediatric Biochemistry*, **2016**, 05, 082-087
- 11 Developmental Pharmacology and Therapeutics in Neonatal Medicine **2016**, 1-15
- 10 P66 Characterization of the pharmacokinetics of acetaminophen and its metabolites in the fetus through integration of placental transfer in a physiologically based pharmacokinetic model. *Archives of Disease in Childhood*, **2019**, 104, e44.2-e45 2.2
- 9 P49 A pharmacokinetic evaluation of oral clavulanic acid in term newborns. *Archives of Disease in Childhood*, **2019**, 104, e37.2-e37 2.2

8	O13 Improved early vancomycin exposure in neonates using a population pharmacokinetic model-based vancomycin dosing regimen. <i>Archives of Disease in Childhood</i> , <b>2019</b> , 104, e6.1-e6	2.2
7	Arabic-speaking pregnant women with a migration background: A vulnerable target group for prenatal counseling on medicines. <i>Research in Social and Administrative Pharmacy</i> , <b>2020</b> , 16, 377-382	2.9
6	A0356 Conventional and ambulatory blood pressure as predictors of diastolic left ventricular function in a Flemish population. <i>Journal of Hypertension</i> , <b>2018</b> , 36, e264	1.9
5	A4068 RISK OF HYPERTENSION AND BIRTH WEIGHT. <i>Journal of Hypertension</i> , <b>2018</b> , 36, e278-e279	1.9
4	A semi-automated method for unbiased alveolar morphometry: Validation in a bronchopulmonary dysplasia model <b>2020</b> , 15, e0239562	
3	A semi-automated method for unbiased alveolar morphometry: Validation in a bronchopulmonary dysplasia model <b>2020</b> , 15, e0239562	
2	A semi-automated method for unbiased alveolar morphometry: Validation in a bronchopulmonary dysplasia model <b>2020</b> , 15, e0239562	
1	A semi-automated method for unbiased alveolar morphometry: Validation in a bronchopulmonary dysplasia model <b>2020</b> , 15, e0239562	