

Richard N Upton

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2392652/publications.pdf>

Version: 2024-02-01

113
papers

2,847
citations

201385

27
h-index

197535

49
g-index

120
all docs

120
docs citations

120
times ranked

2696
citing authors

#	ARTICLE	IF	CITATIONS
1	Food, gastrointestinal pH, and models of oral drug absorption. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 112, 234-248.	2.0	197
2	Reduced Intrathoracic Blood Volume and Left and Right Ventricular Dimensions in Patients With Severe Emphysema. <i>Chest</i> , 2007, 131, 1050-1057.	0.4	134
3	Hemodynamic and Central Nervous System Effects of Intravenous Bolus Doses of Lidocaine, Bupivacaine, and Ropivacaine in Sheep. <i>Anesthesia and Analgesia</i> , 1989, 69, 291-299.	1.1	121
4	Cardiac Output is a Determinant of the Initial Concentrations of Propofol After Short-Infusion Administration. <i>Anesthesia and Analgesia</i> , 1999, 89, 545.	1.1	119
5	The Performance of Compartmental and Physiologically Based Recirculatory Pharmacokinetic Models for Propofol. <i>Anesthesia and Analgesia</i> , 2010, 111, 368-379.	1.1	108
6	Pharmacokinetics, efficacy, and tolerability of fentanyl following intranasal versus intravenous administration in adults undergoing third-molar extraction: A randomized, double-blind, double-dummy, two-way, crossover study. <i>Clinical Therapeutics</i> , 2008, 30, 469-481.	1.1	106
7	Pharmacokinetic Optimisation of Opioid Treatment in Acute Pain Therapy. <i>Clinical Pharmacokinetics</i> , 1997, 33, 225-244.	1.6	102
8	A Quantitative Review and Meta-Models of the Variability and Factors Affecting Oral Drug Absorption—Part I: Gastrointestinal pH. <i>AAPS Journal</i> , 2016, 18, 1309-1321.	2.2	90
9	Pharmacokinetics and Pharmacodynamics of Intranasal Versus Intravenous Fentanyl in Patients with Pain after Oral Surgery. <i>Annals of Pharmacotherapy</i> , 2008, 42, 1380-1387.	0.9	80
10	Population Pharmacokinetic Modeling of Itraconazole and Hydroxyitraconazole for Oral SUBA-Itraconazole and Sporanox Capsule Formulations in Healthy Subjects in Fed and Fasted States. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 5681-5696.	1.4	80
11	Epinephrine, norepinephrine and dopamine infusions decrease propofol concentrations during continuous propofol infusion in an ovine model. <i>Intensive Care Medicine</i> , 2001, 27, 276-282.	3.9	79
12	Organ weights and blood flows of sheep and pig for physiological pharmacokinetic modelling. <i>Journal of Pharmacological and Toxicological Methods</i> , 2008, 58, 198-205.	0.3	73
13	Cardiac Output is a Determinant of the Initial Concentrations of Propofol After Short-Infusion Administration. <i>Anesthesia and Analgesia</i> , 1999, 89, 545.	1.1	68
14	A Physiologically Based, Recirculatory Model of the Kinetics and Dynamics of Propofol in Man. <i>Anesthesiology</i> , 2005, 103, 344-352.	1.3	63
15	A Quantitative Review and Meta-models of the Variability and Factors Affecting Oral Drug Absorption—Part II: Gastrointestinal Transit Time. <i>AAPS Journal</i> , 2016, 18, 1322-1333.	2.2	58
16	Pharmacokinetic/Pharmacodynamic Modeling of Morphine and Oxycodone Concentrations and Analgesic Effect in a Multimodal Experimental Pain Model. <i>Journal of Clinical Pharmacology</i> , 2008, 48, 619-631.	1.0	54
17	An Ultrasonic Doppler Venous Outflow Method for the Continuous Measurement of Cerebral Blood Flow in Conscious Sheep. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1994, 14, 680-688.	2.4	53
18	The use of mass balance principles to describe regional drug distribution and elimination. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1988, 16, 13-29.	0.6	50

#	ARTICLE	IF	CITATIONS
19	CEREBRAL UPTAKE OF DRUGS IN HUMANS. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007, 34, 695-701.	0.9	47
20	Dashboard Systems: Implementing Pharmacometrics from Bench to Bedside. <i>AAPS Journal</i> , 2014, 16, 925-937.	2.2	41
21	Pharmacokinetic/Pharmacodynamic Relationships of Transdermal Buprenorphine and Fentanyl in Experimental Human Pain Models. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2011, 108, 274-284.	1.2	36
22	A method for frequent measurement of sedation and analgesia in sheep using the response to a ramped electrical stimulus. <i>Journal of Pharmacological and Toxicological Methods</i> , 1995, 33, 17-22.	0.3	30
23	A pharmacokinetic model for L-carnitine in patients receiving haemodialysis. <i>British Journal of Clinical Pharmacology</i> , 2007, 64, 335-345.	1.1	30
24	Pharmacokinetic-pharmacodynamic relationship of bosutinib in patients with chronic phase chronic myeloid leukemia. <i>Cancer Chemotherapy and Pharmacology</i> , 2013, 71, 209-218.	1.1	30
25	An introduction to physiologically-based pharmacokinetic models. <i>Paediatric Anaesthesia</i> , 2016, 26, 1036-1046.	0.6	29
26	Advances in analgesia in the older patient. <i>Bailliere's Best Practice and Research in Clinical Anaesthesiology</i> , 2011, 25, 367-378.	1.7	28
27	3D Printing of Thermo-Sensitive Drugs. <i>Pharmaceutics</i> , 2021, 13, 1524.	2.0	28
28	The uptake and elution of lignocaine and procainamide in the hindquarters of the sheep described using mass balance principles. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1988, 16, 31-40.	0.6	27
29	The Effect of Rate of Administration on Brain Concentrations of Propofol in Sheep. <i>Anesthesia and Analgesia</i> , 1998, 86, 1301-1306.	1.1	27
30	Inhibition of Morphine Metabolism by Ketamine. <i>Drug Metabolism and Disposition</i> , 2010, 38, 728-731.	1.7	27
31	Population In Vitro-In Vivo Correlation Model Linking Gastrointestinal Transit Time, pH, and Pharmacokinetics: Itraconazole as a Model Drug. <i>Pharmaceutical Research</i> , 2016, 33, 1782-1794.	1.7	27
32	Pharmacokinetic-Pharmacodynamic Relationships of Cognitive and Psychomotor Effects of Intravenous Buprenorphine Infusion in Human Volunteers. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2008, 103, 94-101.	1.2	26
33	Infliximab Maintenance Dosing in Inflammatory Bowel Disease: an Example for In Silico Assessment of Adaptive Dosing Strategies. <i>AAPS Journal</i> , 2017, 19, 1136-1147.	2.2	26
34	The Influence of the Bolus Injection Rate of Propofol on Its Cardiovascular Effects and Peak Blood Concentrations in Sheep. <i>Anesthesia and Analgesia</i> , 1998, 86, 1109-1115.	1.1	25
35	Cerebral kinetics of oxycodone in conscious sheep. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 1666-1676.	1.6	24
36	A Pharmacokinetic and Pharmacodynamic Study of Oral Oxycodone in a Human Experimental Pain Model of Hyperalgesia. <i>Clinical Pharmacokinetics</i> , 2010, 49, 817-827.	1.6	24

#	ARTICLE	IF	CITATIONS
37	Pharmacokinetic-pharmacodynamic modelling of the cardiovascular effects of drugs - method development and application to magnesium in sheep. <i>BMC Pharmacology</i> , 2005, 5, 5.	0.4	23
38	The effect of infusions of adrenaline, noradrenaline and dopamine on cerebral autoregulation under propofol anaesthesia in an ovine model. <i>Intensive Care Medicine</i> , 2003, 29, 817-824.	3.9	21
39	Diffusion-limited, but not perfusion-limited, compartmental models describe cerebral nitrous oxide kinetics at high and low cerebral blood flows. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1998, 26, 649-672.	0.6	20
40	Calculating the hybrid (macro) rate constants of a three-compartment mamillary pharmacokinetic model from known micro-rate constants. <i>Journal of Pharmacological and Toxicological Methods</i> , 2004, 49, 65-68.	0.3	20
41	Pharmacokinetics of fentanyl after subcutaneous administration in volunteers. <i>European Journal of Anaesthesiology</i> , 2010, 27, 241-246.	0.7	20
42	Effects of Vasopressors on Cerebral Circulation and Oxygenation: A Narrative Review of Pharmacodynamics in Health and Traumatic Brain Injury. <i>Journal of Neurosurgical Anesthesiology</i> , 2020, 32, 18-28.	0.6	20
43	A Comparison of Pharmacokinetic/Pharmacodynamic versus Mass-Balance Measurement of Brain Concentrations of Intravenous Anesthetics in Sheep. <i>Anesthesia and Analgesia</i> , 2007, 104, 1440-1446.	1.1	19
44	Population pharmacokinetics of buprenorphine following a two-stage intravenous infusion in healthy volunteers. <i>European Journal of Clinical Pharmacology</i> , 2007, 63, 1153-1159.	0.8	19
45	Genetic polymorphism of <i>CYP1A2</i> but not total or free teriflunomide concentrations is associated with leflunomide cessation in rheumatoid arthritis. <i>British Journal of Clinical Pharmacology</i> , 2016, 81, 113-123.	1.1	19
46	Regional pharmacokinetics I. physiological and physicochemical basis. <i>Biopharmaceutics and Drug Disposition</i> , 1990, 11, 647-662.	1.1	18
47	Relationships between steady state blood concentrations and cardiac output during intravenous infusions. <i>Biopharmaceutics and Drug Disposition</i> , 2000, 21, 69-76.	1.1	17
48	Dashboards for Therapeutic Monoclonal Antibodies: Learning and Confirming. <i>AAPS Journal</i> , 2018, 20, 76.	2.2	17
49	In vivo relationships between the cerebral pharmacokinetics and pharmacodynamics of thiopentone in sheep after short-term administration. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1996, 24, 1-18.	0.6	14
50	Translational pain research: Evaluating analgesic effect in experimental visceral pain models. <i>World Journal of Gastroenterology</i> , 2009, 15, 177.	1.4	14
51	Population pharmacokinetics of orally administered mefloquine in healthy volunteers and patients with uncomplicated <i>Plasmodium falciparum</i> malaria. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 868-876.	1.3	14
52	The Hemodynamic Effects of Intravenous Bolus Doses of Meperidine in Conscious Sheep. <i>Anesthesia and Analgesia</i> , 1994, 78, 442-449.	1.1	13
53	A compartmental analysis of the pharmacokinetics of propofol in sheep. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1999, 27, 329-338.	0.6	13
54	Population pharmacokinetic-pharmacodynamic modelling of liquid and controlled-release formulations of oxycodone in healthy volunteers. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2020, 126, 263-276.	1.2	13

#	ARTICLE	IF	CITATIONS
55	Perfusion-diffusion compartmental models describe cerebral helium kinetics at high and low cerebral blood flows in sheep. <i>Journal of Physiology</i> , 2005, 563, 529-539.	1.3	12
56	PHARMACOKINETICS AND PHARMACODYNAMICS OF INDOMETHACIN: EFFECTS ON CEREBRAL BLOOD FLOW IN ANAESTHETIZED SHEEP. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2008, 35, 317-323.	0.9	12
57	An assessment of methods for sampling blood to characterize rapidly changing blood drug concentrations. <i>Journal of Pharmaceutical Sciences</i> , 1991, 80, 847-851.	1.6	11
58	The Contribution of the Coronary Concentrations of Propofol to Its Cardiovascular Effects in Anesthetized Sheep. <i>Anesthesia and Analgesia</i> , 2003, 96, 1589-1597.	1.1	11
59	A physiologically-based recirculatory meta-model for nasal fentanyl in man. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2012, 39, 561-576.	0.8	11
60	Converting from Transdermal to Buccal Formulations of Buprenorphine: A Pharmacokinetic Meta-Model Simulation in Healthy Volunteers. <i>Pain Medicine</i> , 2018, 19, 1988-1996.	0.9	11
61	Mucoadhesive Buccal Film of Estradiol for Hormonal Replacement Therapy: Development and In-Vivo Performance Prediction. <i>Pharmaceutics</i> , 2022, 14, 542.	2.0	11
62	An analysis of errors arising from the direct use of mass balance principles to describe regional drug uptake and elution. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1994, 22, 309-321.	0.6	10
63	The Effect of Rate of Administration on Brain Concentrations of Propofol in Sheep. <i>Anesthesia and Analgesia</i> , 1998, 86, 1301-1306.	1.1	10
64	The Influence of the Bolus Injection Rate of Propofol on Its Cardiovascular Effects and Peak Blood Concentrations in Sheep. <i>Anesthesia and Analgesia</i> , 1998, 86, 1109-1115.	1.1	10
65	Increased Cerebral Blood Flow And Cardiac Output Following Cerebral Arterial Air Embolism In Sheep. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2001, 28, 868-872.	0.9	10
66	The influence of drug sorption on pharmacokinetic studies of chlormethiazole and lignocaine. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 39, 485-487.	1.2	10
67	Myocardial Pharmacokinetics of Thiopental in Sheep after Short-Term Administration: Relationship to Thiopental-Induced Reductions in Myocardial Contractility. <i>Journal of Pharmaceutical Sciences</i> , 1996, 85, 863-867.	1.6	9
68	Intracellular CD3 ⁺ T Lymphocyte Teriflunomide Concentration Is Poorly Correlated with and Has Greater Variability Than Unbound Plasma Teriflunomide Concentration. <i>Drug Metabolism and Disposition</i> , 2017, 45, 8-16.	1.7	9
69	Transfer of rosuvastatin into breast milk: liquid chromatography–mass spectrometry methodology and clinical recommendations. <i>Drug Design, Development and Therapy</i> , 2018, Volume 12, 3645-3651.	2.0	9
70	Mechanistic Assessment of the Effect of Omeprazole on the In Vivo Pharmacokinetics of Itraconazole in Healthy Volunteers. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2019, 44, 201-215.	0.6	9
71	Pharmacokinetics and pharmacodynamics in the critically ill. <i>Bailliere's Clinical Anaesthesiology</i> , 1990, 4, 271-303.	0.2	8
72	Uptake and Elution of Chlormethiazole, Meperidine, and Minaxolone in the Hindquarters of Sheep: Implications for Clearance Calculations. <i>Journal of Pharmaceutical Sciences</i> , 1991, 80, 108-112.	1.6	8

#	ARTICLE	IF	CITATIONS
73	Drugs and brain death. Medical Journal of Australia, 1996, 165, 394-398.	0.8	8
74	Development and Validation of a Recirculatory Physiological Model of the Myocardial Concentrations of Lignocaine after Intravenous Administration in Sheep. Journal of Pharmacy and Pharmacology, 2010, 52, 181-189.	1.2	8
75	Development of a physiologically based pharmacokinetic model for intravenous lenalidomide in mice. Cancer Chemotherapy and Pharmacology, 2019, 84, 1073-1087.	1.1	8
76	Population pharmacokinetics of lenalidomide in patients with B-cell malignancies. British Journal of Clinical Pharmacology, 2019, 85, 924-934.	1.1	8
77	Propofol use in head-injury patients. Lancet, The, 2001, 357, 1709.	6.3	7
78	In vivo cerebral pharmacokinetics and pharmacodynamics of diazepam and midazolam after short intravenous infusion administration in sheep. Journal of Pharmacokinetics and Pharmacodynamics, 2001, 28, 129-153.	0.8	7
79	The Acute Disposition of (R)- and (S)-Methadone in Brain and Lung of Sheep. Journal of Pharmacokinetics and Pharmacodynamics, 2005, 32, 547-570.	0.8	7
80	Pharmacokinetic-Pharmacodynamic Modelling of the Analgesic and Antihyperalgesic Effects of Morphine after Intravenous Infusion in Human Volunteers. Basic and Clinical Pharmacology and Toxicology, 2014, 115, 257-267.	1.2	7
81	Population Pharmacokinetic Model of Doxycycline Plasma Concentrations Using Pooled Study Data. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	7
82	Estimation of Atenolol Transfer Into Milk and Infant Exposure During Its Use in Lactating Women. Journal of Human Lactation, 2018, 34, 592-599.	0.8	7
83	Optimising time samples for determining area under the curve of pharmacokinetic data using non-compartmental analysis. Journal of Pharmacy and Pharmacology, 2019, 71, 1635-1644.	1.2	7
84	Preclinical Study of the Pharmacokinetics of p75ECD-Fc, a Novel Human Recombinant Protein for Treatment of Alzheimer's Disease, in Sprague Dawley Rats. Current Drug Metabolism, 2020, 21, 235-244.	0.7	7
85	Regional pharmacokinetics II. Experimental methods. Biopharmaceutics and Drug Disposition, 1990, 11, 741-752.	1.1	6
86	Regional pharmacokinetics III. Modelling methods. Biopharmaceutics and Drug Disposition, 1991, 12, 1-15.	1.1	6
87	The Effects of Indomethacin on Intracranial Pressure and Cerebral Hemodynamics During Isoflurane or Propofol Anesthesia in Sheep with Intracranial Hypertension. Anesthesia and Analgesia, 2006, 102, 1823-1829.	1.1	6
88	Individualization of leflunomide dosing in rheumatoid arthritis patients. Personalized Medicine, 2014, 11, 449-461.	0.8	6
89	Pharmacokinetics of tramadol after subcutaneous administration in a critically ill population and in a healthy cohort. BMC Anesthesiology, 2014, 14, 33.	0.7	6
90	Comparison of non-compartmental and mixed effect modelling methods for establishing bioequivalence for the case of two compartment kinetics and censored concentrations. Journal of Pharmacokinetics and Pharmacodynamics, 2017, 44, 233-244.	0.8	6

#	ARTICLE	IF	CITATIONS
91	Determinants of drug onset. <i>Current Opinion in Anaesthesiology</i> , 2002, 15, 409-414.	0.9	5
92	ADVAN-style analytical solutions for common pharmacokinetic models. <i>Journal of Pharmacological and Toxicological Methods</i> , 2015, 73, 42-48.	0.3	5
93	Population in vitro/in vivo pharmacokinetic model of first-pass metabolism: itraconazole and hydroxy-itraconazole. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2018, 45, 181-197.	0.8	5
94	A Descriptive Tool to Characterize Nonlinear Kinetics, with Applications to Meperidine and Lidocaine. <i>Journal of Pharmaceutical Sciences</i> , 1996, 85, 362-368.	1.6	4
95	Pharmacodynamic Modelling of Placebo and Buprenorphine Effects on Event-Related Potentials in Experimental Pain. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2014, 115, 343-351.	1.2	4
96	Altering blood flow does not reveal differences between nitrogen and helium kinetics in brain or in skeletal muscle in sheep. <i>Journal of Applied Physiology</i> , 2015, 118, 586-594.	1.2	4
97	A population model of early rheumatoid arthritis disease activity during treatment with methotrexate, sulfasalazine and hydroxychloroquine. <i>British Journal of Clinical Pharmacology</i> , 2015, 79, 777-788.	1.1	4
98	The Pharmacokinetics of Meperidine in the Myocardium of Conscious Sheep. <i>Anesthesia and Analgesia</i> , 1994, 79, 987-992.	1.1	3
99	The Effect of Hypoxic Hypoxia on the Systemic and Myocardial Pharmacokinetics and Dynamics of Lidocaine in Sheep. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 180-189.	1.6	3
100	Blood-brain equilibration kinetics of levo- α -acetyl-methadol using a chronically instrumented sheep preparation. <i>British Journal of Pharmacology</i> , 2006, 147, 209-217.	2.7	3
101	Modelling the PKPD of oxycodone in experimental pain – Impact of opioid receptor polymorphisms. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 86, 41-49.	1.9	3
102	An estimate of the rate of direct drug diffusion from the surface of heart and kidney – implications for their representation as compartments. <i>Biopharmaceutics and Drug Disposition</i> , 1993, 14, 647-658.	1.1	2
103	An audit of the safety and effectiveness of an alfentanil:morphine mixture in the postanaesthesia care unit. <i>Acute Pain</i> , 2007, 9, 13-19.	0.1	2
104	Perindopril in Breast Milk and Determination of Breastfed Infant Exposure: A Prospective Observational Study. <i>Drug Design, Development and Therapy</i> , 2020, Volume 14, 961-967.	2.0	2
105	Demonstrating Contribution of Components of Fixed-Dose Drug Combinations Through Longitudinal Exposure-Response Analysis. <i>AAPS Journal</i> , 2020, 22, 32.	2.2	2
106	Population pharmacokinetic model of subcutaneous fentanyl in older acute care patients. <i>European Journal of Clinical Pharmacology</i> , 2021, 77, 1357-1368.	0.8	2
107	A quantitative alternative to the hysteresis plot for measurement of drug transit time. <i>Journal of Pharmacological and Toxicological Methods</i> , 2002, 47, 45-51.	0.3	1
108	BRAIN PHARMACOKINETICS OF LIGNOCAINE BEFORE and FOLLOWING INTRAVENOUS PERFLUOROCARBON EMULSION INFUSION IN SHEEP. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2005, 32, 367-371.	0.9	1

#	ARTICLE	IF	CITATIONS
109	A model-based evaluation of single metrics for discriminating changes in rheumatoid arthritis disease activity. <i>British Journal of Clinical Pharmacology</i> , 2016, 81, 1046-1057.	1.1	1
110	Pharmacokinetic Modelling of Human Recombinant Protein, p75ECD-Fc: A Novel Therapeutic Approach for Treatment of Alzheimer's Disease, in Serum and Tissue of Sprague Dawley Rats. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2021, 46, 235-248.	0.6	1
111	Population Pharmacokinetic Model for Tramadol and O-desmethyltramadol in Older Patients. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2022, 47, 387-402.	0.6	1
112	RELATIONSHIPS BETWEEN BLOOD DRUG CONCENTRATIONS AND CEREBRAL EFFECTS. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1996, 23, s52-s53.	0.9	0
113	Acute pain management in the elderly patient. , 2008, , 504-525.		0