

# Michael J Avram

## List of Publications by Citations

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90  
papers

3,537  
citations

32  
h-index

58  
g-index

97  
ext. papers

4,114  
ext. citations

3.8  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
90	Residual neuromuscular blockade and critical respiratory events in the postanesthesia care unit. <i>Anesthesia and Analgesia</i> , <b>2008</b> , 107, 130-7	3.9	406
89	A microfluidic culture model of the human reproductive tract and 28-day menstrual cycle. <i>Nature Communications</i> , <b>2017</b> , 8, 14584	17.4	231
88	Intraoperative acceleromyographic monitoring reduces the risk of residual neuromuscular blockade and adverse respiratory events in the postanesthesia care unit. <i>Anesthesiology</i> , <b>2008</b> , 109, 389-98	4.3	201
87	Cerebral oxygen desaturation events assessed by near-infrared spectroscopy during shoulder arthroscopy in the beach chair and lateral decubitus positions. <i>Anesthesia and Analgesia</i> , <b>2010</b> , 111, 496-505	3.9	193
86	Preoperative dexamethasone enhances quality of recovery after laparoscopic cholecystectomy: effect on in-hospital and postdischarge recovery outcomes. <i>Anesthesiology</i> , <b>2011</b> , 114, 882-90	4.3	119
85	Intraoperative acceleromyography monitoring reduces symptoms of muscle weakness and improves quality of recovery in the early postoperative period. <i>Anesthesiology</i> , <b>2011</b> , 115, 946-54	4.3	112
84	Gastric emptying of water in term pregnancy. <i>Anesthesiology</i> , <b>2002</b> , 96, 1395-400	4.3	108
83	Postoperative residual neuromuscular blockade is associated with impaired clinical recovery. <i>Anesthesia and Analgesia</i> , <b>2013</b> , 117, 133-41	3.9	104
82	Gastric emptying of water in obese pregnant women at term. <i>Anesthesia and Analgesia</i> , <b>2007</b> , 105, 751-53	3.9	99
81	Residual paralysis at the time of tracheal extubation. <i>Anesthesia and Analgesia</i> , <b>2005</b> , 100, 1840-1845	3.9	88
80	Age-Stratified Pharmacokinetics of Ketorolac Tromethamine in Pediatric Surgical Patients. <i>Anesthesia and Analgesia</i> , <b>2002</b> , 94, 266-270	3.9	82
79	Residual Neuromuscular Block in the Elderly: Incidence and Clinical Implications. <i>Anesthesiology</i> , <b>2015</b> , 123, 1322-36	4.3	77
78	Postanesthesia care unit recovery times and neuromuscular blocking drugs: a prospective study of orthopedic surgical patients randomized to receive pancuronium or rocuronium. <i>Anesthesia and Analgesia</i> , <b>2004</b> , 98, 193-200	3.9	68
77	Using front-end kinetics to optimize target-controlled drug infusions. <i>Anesthesiology</i> , <b>2003</b> , 99, 1078-86	4.3	66
76	Pharmacokinetics of midazolam, propofol, and fentanyl transfer to human breast milk. <i>Clinical Pharmacology and Therapeutics</i> , <b>2006</b> , 79, 549-57	6.1	64
75	What Determines Anesthetic Induction Dose? It's the Front-End Kinetics, Doctor!. <i>Anesthesia and Analgesia</i> , <b>1999</b> , 89, 541	3.9	59
74	Opioids and cardioprotection: the impact of morphine and fentanyl on recovery of ventricular function after cardiopulmonary bypass. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , <b>2006</b> , 20, 493-502	2.1	56

73	Intraoperative Methadone for the Prevention of Postoperative Pain: A Randomized, Double-blinded Clinical Trial in Cardiac Surgical Patients. <i>Anesthesiology</i> , <b>2015</b> , 122, 1112-22	4.3	55
72	Small-dose dexamethasone improves quality of recovery scores after elective cardiac surgery: a randomized, double-blind, placebo-controlled study. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , <b>2011</b> , 25, 950-60	2.1	54
71	Determinants of thiopental induction dose requirements. <i>Anesthesia and Analgesia</i> , <b>1993</b> , 76, 10-7	3.9	54
70	Plasma microbiome-modulated indole- and phenyl-derived metabolites associate with advanced atherosclerosis and postoperative outcomes. <i>Journal of Vascular Surgery</i> , <b>2018</b> , 68, 1552-1562.e7	3.5	52
69	Clinical Effectiveness and Safety of Intraoperative Methadone in Patients Undergoing Posterior Spinal Fusion Surgery: A Randomized, Double-blinded, Controlled Trial. <i>Anesthesiology</i> , <b>2017</b> , 126, 822-833	4.3	46
68	The failure of retrograde autologous priming of the cardiopulmonary bypass circuit to reduce blood use after cardiac surgical procedures. <i>Anesthesia and Analgesia</i> , <b>2004</b> , 98, 1201-7, table of contents	3.9	44
67	Impact of shorter-acting neuromuscular blocking agents on fast-track recovery of the cardiac surgical patient. <i>Anesthesiology</i> , <b>2002</b> , 96, 600-6	4.3	44
66	The effects of morphine and fentanyl on the inflammatory response to cardiopulmonary bypass in patients undergoing elective coronary artery bypass graft surgery. <i>Anesthesia and Analgesia</i> , <b>2007</b> , 104, 1334-42, table of contents	3.9	43
65	The relationship between alfentanil distribution kinetics and cardiac output. <i>Clinical Pharmacology and Therapeutics</i> , <b>1992</b> , 52, 190-6	6.1	43
64	Development and validation of a generalizable model for predicting major transfusion during spine fusion surgery. <i>Journal of Neurosurgical Anesthesiology</i> , <b>2014</b> , 26, 205-15	3	42
63	Extracranial contamination in the INVOS 5100C versus the FORE-SIGHT ELITE cerebral oximeter: a prospective observational crossover study in volunteers. <i>Canadian Journal of Anaesthesia</i> , <b>2016</b> , 63, 24-30	3.7	41
62	Midazolam kinetics in women of two age groups. <i>Clinical Pharmacology and Therapeutics</i> , <b>1983</b> , 34, 505-8	6.1	40
61	Synthesis and anticancer activities of 6-amino amonafide derivatives. <i>Anti-Cancer Drugs</i> , <b>2008</b> , 19, 23-36	2.4	39
60	Premedication of Pediatric Tonsillectomy Patients with Oral Transmucosal Fentanyl Citrate. <i>Anesthesia and Analgesia</i> , <b>1998</b> , 86, 66-70	3.9	36
59	Recovery of neuromuscular function after cardiac surgery: pancuronium versus rocuronium. <i>Anesthesia and Analgesia</i> , <b>2003</b> , 96, 1301-1307	3.9	35
58	The effect of single low-dose dexamethasone on blood glucose concentrations in the perioperative period: a randomized, placebo-controlled investigation in gynecologic surgical patients. <i>Anesthesia and Analgesia</i> , <b>2014</b> , 118, 1204-12	3.9	31
57	Uptake pharmacokinetics of the Fentanyl Oralet in children scheduled for central venous access removal: implications for the timing of initiating painful procedures. <i>Paediatric Anaesthesia</i> , <b>2002</b> , 12, 594-9	1.8	31
56	Neostigmine Administration after Spontaneous Recovery to a Train-of-Four Ratio of 0.9 to 1.0: A Randomized Controlled Trial of the Effect on Neuromuscular and Clinical Recovery. <i>Anesthesiology</i> , <b>2018</b> , 128, 27-37	4.3	29

55	Intravascular mixing and drug distribution: the concurrent disposition of thiopental and indocyanine green. <i>Clinical Pharmacology and Therapeutics</i> , <b>1989</b> , 45, 56-65	6.1	29
54	Beta-adrenergic blockade affects initial drug distribution due to decreased cardiac output and altered blood flow distribution. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2004</b> , 311, 617-247	4.7	28
53	Midazolam versus hydroxyzine as intramuscular premedicant. <i>Canadian Anaesthetists Society Journal</i> , <b>1983</b> , 30, 136-41		28
52	A Pharmacokinetically Designed Etomidate Infusion Regimen for Hypnosis. <i>Anesthesia and Analgesia</i> , <b>1983</b> , 62, 654-660	3.9	26
51	Retrograde autologous priming of the cardiopulmonary bypass circuit: safety and impact on postoperative outcomes. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , <b>2006</b> , 20, 156-61	2.1	25
50	Determination of ketorolac in human plasma by reversed-phase high-performance liquid chromatography using solid-phase extraction and ultraviolet detection. <i>Biomedical Applications</i> , <b>2001</b> , 755, 383-6		25
49	Indocyanine green kinetics characterize blood volume and flow distribution and their alteration by propranolol. <i>Clinical Pharmacology and Therapeutics</i> , <b>2000</b> , 67, 342-50	6.1	25
48	A recirculatory model of the pulmonary uptake and pharmacokinetics of lidocaine based on analysis of arterial and mixed venous data from dogs. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , <b>1997</b> , 25, 169-90		23
47	Morphine bioavailability from a topical gel formulation in volunteers. <i>Journal of Pain and Symptom Management</i> , <b>2008</b> , 35, 314-20	4.8	23
46	Postoperative Pain and Analgesic Requirements in the First Year after Intraoperative Methadone for Complex Spine and Cardiac Surgery. <i>Anesthesiology</i> , <b>2020</b> , 132, 330-342	4.3	23
45	A Randomized Controlled Trial of Low-Dose Tranexamic Acid versus Placebo to Reduce Red Blood Cell Transfusion During Complex Multilevel Spine Fusion Surgery. <i>World Neurosurgery</i> , <b>2018</b> , 110, e572-e579	2.1	23
44	Morphine-based cardiac anesthesia provides superior early recovery compared with fentanyl in elective cardiac surgery patients. <i>Anesthesia and Analgesia</i> , <b>2009</b> , 109, 311-9	3.9	22
43	The use of neuromuscular blocking drugs in adult cardiac surgery: results of a national postal survey. <i>Anesthesia and Analgesia</i> , <b>2002</b> , 95, 1534-9, table of contents	3.9	22
42	Comparison of the TOFscan and the TOF-Watch SX during Recovery of Neuromuscular Function. <i>Anesthesiology</i> , <b>2018</b> , 129, 880-888	4.3	21
41	Pharmacokinetics and pharmacodynamics of vecuronium administered by bolus and infusion during halothane or balanced anesthesia. <i>Clinical Pharmacology and Therapeutics</i> , <b>1987</b> , 42, 459-64	6.1	19
40	Cyclosporine-inhibitable blood-brain barrier drug transport influences clinical morphine pharmacodynamics. <i>Anesthesiology</i> , <b>2013</b> , 119, 941-53	4.3	18
39	Recirculatory pharmacokinetic model of the uptake, distribution, and bioavailability of prochlorperazine administered as a thermally generated aerosol in a single breath to dogs. <i>Drug Metabolism and Disposition</i> , <b>2007</b> , 35, 262-7	4	18
38	Postoperative Intravenous Acetaminophen for Craniotomy Patients: A Randomized Controlled Trial. <i>World Neurosurgery</i> , <b>2018</b> , 109, e554-e562	2.1	18

37	What determines anesthetic induction dose? It's the front-end kinetics, doctor!. <i>Anesthesia and Analgesia</i> , <b>1999</b> , 89, 541-4	3.9	15
36	Correlation of the myocardial performance index with conventional echocardiographic indices of systolic and diastolic function: a study in cardiac surgical patients. <i>Echocardiography</i> , <b>2007</b> , 24, 26-33	1.5	14
35	A pharmacokinetic-pharmacodynamic model for quantal responses with thiopental. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , <b>1993</b> , 21, 309-21		14
34	Transit time dispersion in pulmonary and systemic circulation: effects of cardiac output and solute diffusivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2006</b> , 291, H861-70	5.2	13
33	A minimal physiological model of thiopental distribution kinetics based on a multiple indicator approach. <i>Drug Metabolism and Disposition</i> , <b>2007</b> , 35, 1525-32	4	13
32	Dose-finding and pharmacokinetic study of intramuscular midazolam. <i>Journal of Clinical Pharmacology</i> , <b>1987</b> , 27, 314-7	2.9	13
31	Determination of sodium pentobarbital and either sodium methohexital or sodium thiopental in plasma by high-performance liquid chromatography with ultraviolet detection. <i>Biomedical Applications</i> , <b>1987</b> , 414, 484-91		12
30	Determination of D-tubocurarine chloride or metocurine iodide in human plasma by high-performance liquid chromatography with ultraviolet detection. <i>Biomedical Applications</i> , <b>1984</b> , 306, 398-404		12
29	Circulatory transport and capillary-tissue exchange as determinants of the distribution kinetics of inulin and antipyrine in dog. <i>Journal of Pharmaceutical Sciences</i> , <b>2007</b> , 96, 913-26	3.9	10
28	The concordance of early antipyrine and thiopental distribution kinetics. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2002</b> , 302, 594-600	4.7	10
27	Procedural Timeout Compliance Is Improved With Real-Time Clinical Decision Support. <i>Journal of Patient Safety</i> , <b>2018</b> , 14, 148-152	1.9	8
26	6-Methoxyethylamino-numonafide inhibits hepatocellular carcinoma xenograft growth as a single agent and in combination with sorafenib. <i>FASEB Journal</i> , <b>2017</b> , 31, 5453-5465	0.9	8
25	Metocurine kinetics in patients undergoing operations requiring cardiopulmonary bypass. <i>Clinical Pharmacology and Therapeutics</i> , <b>1987</b> , 42, 576-81	6.1	8
24	Efficacy of Pregabalin in the Treatment of Radicular Pain: Results of a Controlled Trial. <i>Anesthesiology and Pain Medicine</i> , <b>2015</b> , 5, e28110	3.5	8
23	Combined Recirculatory-compartmental Population Pharmacokinetic Modeling of Arterial and Venous Plasma S(+) and R(-) Ketamine Concentrations. <i>Anesthesiology</i> , <b>2018</b> , 129, 260-270	4.3	8
22	A physiologically based model of hepatic ICG clearance: interplay between sinusoidal uptake and biliary excretion. <i>European Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 44, 359-65	5.1	7
21	The initial rate of change in distribution volume is the sum of intercompartmental clearances. <i>Journal of Pharmaceutical Sciences</i> , <b>1986</b> , 75, 919-20	3.9	7
20	The pharmacokinetics of intravenous ketorolac in children aged 2½months to 16½years: A population analysis. <i>Paediatric Anaesthesia</i> , <b>2018</b> , 28, 80-86	1.8	5

19	Glucocorticoid Clearance and Metabolite Profiling in an In Vitro Human Airway Epithelium Lung Model. <i>Drug Metabolism and Disposition</i> , <b>2016</b> , 44, 220-6	4	5
18	Residual Neuromuscular Block and Adverse Respiratory Events. <i>Anesthesia and Analgesia</i> , <b>2008</b> , 107, 1756	3.9	5
17	Consent for Anesthesia Clinical Trials on the Day of Surgery: Patient Attitudes and Perceptions. <i>Anesthesiology</i> , <b>2016</b> , 124, 1246-55	4.3	5
16	Perioperative Methadone and Ketamine for Postoperative Pain Control in Spinal Surgical Patients: A Randomized, Double-blind, Placebo-controlled Trial. <i>Anesthesiology</i> , <b>2021</b> , 134, 697-708	4.3	4
15	Pharmacokinetics and biodistribution of a collagen-targeted peptide amphiphile for cardiovascular applications. <i>Pharmacology Research and Perspectives</i> , <b>2020</b> , 8, e00672	3.1	3
14	Microbiota composition modulates inflammation and neointimal hyperplasia after arterial angioplasty. <i>Journal of Vascular Surgery</i> , <b>2020</b> , 71, 1378-1389.e3	3.5	2
13	Pharmacokinetic studies in pregnancy. <i>Seminars in Perinatology</i> , <b>2020</b> , 44, 151227	3.3	2
12	The pharmacokinetics and pharmacodynamics of zaleplon delivered as a thermally generated aerosol in a single breath to volunteers. <i>Journal of Clinical Pharmacology</i> , <b>2013</b> , 53, 140-50	2.9	2
11	Pharmacokinetics of opioids509-530		2
10	Research, Not Quality Assurance. <i>Anesthesia and Analgesia</i> , <b>2009</b> , 108, 376-377	3.9	2
9	Initial Distribution Volume Estimates Affect The Kinetic Model and Targeted Infusions. <i>Clinical Pharmacology and Therapeutics</i> , <b>2003</b> , 73, P85-P85	6.1	1
8	What's New in Pharmacokinetics and Pharmacodynamics?. <i>Anesthesiology Clinics</i> , <b>1988</b> , 6, 251-280		1
7	Neuromuscular and Clinical Recovery in Thoracic Surgical Patients Reversed With Neostigmine or Sugammadex. <i>Anesthesia and Analgesia</i> , <b>2021</b> , 133, 435-444	3.9	1
6	Beta blockade increases pulmonary and systemic transit time heterogeneity: evaluation based on indocyanine green kinetics in healthy volunteers. <i>Clinical Physiology and Functional Imaging</i> , <b>2017</b> , 37, 270-275	2.4	
5	In response. <i>Anesthesia and Analgesia</i> , <b>2014</b> , 118, 692-3	3.9	
4	Pharmacokinetic and pharmacodynamic principles. <i>Baillieres Clinical Anaesthesiology</i> , <b>1991</b> , 5, 489-511		
3	Methadone and Chronic Pain: Reply. <i>Anesthesiology</i> , <b>2020</b> , 133, 672-673	4.3	
2	Journal-related Activities and Other Special Activities at the 2014 American Society of Anesthesiologists Annual Meeting. <i>Anesthesiology</i> , <b>2014</b> , 121, 681-689	4.3	

1 In Reply. *Anesthesiology*, **2018**, 129, 384-385

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