

Bala G Nair

List of Publications by Year in descending order

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53
papers

5,192
citations

331538

21
h-index

189801

50
g-index

53
all docs

53
docs citations

53
times ranked

5306
citing authors

#	ARTICLE	IF	CITATIONS
1	From local explanations to global understanding with explainable AI for trees. <i>Nature Machine Intelligence</i> , 2020, 2, 56-67.	8.3	2,869
2	Explainable machine-learning predictions for the prevention of hypoxaemia during surgery. <i>Nature Biomedical Engineering</i> , 2018, 2, 749-760.	11.6	1,033
3	Risk of Epidural Hematoma after Neuraxial Techniques in Thrombocytopenic Parturients. <i>Anesthesiology</i> , 2017, 126, 1053-1063.	1.3	137
4	Preoperative Risk and the Association between Hypotension and Postoperative Acute Kidney Injury. <i>Anesthesiology</i> , 2020, 132, 461-475.	1.3	121
5	Feedback Mechanisms Including Real-Time Electronic Alerts to Achieve Near 100% Timely Prophylactic Antibiotic Administration in Surgical Cases. <i>Anesthesia and Analgesia</i> , 2010, 111, 1293-1300.	1.1	98
6	Improving Operating Room Efficiency: Machine Learning Approach to Predict Case-Time Duration. <i>Journal of the American College of Surgeons</i> , 2019, 229, 346-354e3.	0.2	76
7	Intraoperative Clinical Decision Support for Anesthesia: A Narrative Review of Available Systems. <i>Anesthesia and Analgesia</i> , 2017, 124, 603-617.	1.1	58
8	A System for Anesthesia Drug Administration Using Barcode Technology. <i>Anesthesia and Analgesia</i> , 2015, 121, 410-421.	1.1	56
9	Six Sigma Methodology Can Be Used to Improve Adherence for Antibiotic Prophylaxis In Patients Undergoing Noncardiac Surgery. <i>Anesthesia and Analgesia</i> , 2007, 104, 140-146.	1.1	52
10	Anesthesia Information Management System-Based Near Real-Time Decision Support to Manage Intraoperative Hypotension and Hypertension. <i>Anesthesia and Analgesia</i> , 2014, 118, 206-214.	1.1	51
11	Reducing Wastage of Inhalation Anesthetics Using Real-time Decision Support to Notify of Excessive Fresh Gas Flow. <i>Anesthesiology</i> , 2013, 118, 874-884.	1.3	49
12	Smart Anesthesia Manager SM (SAM) – A Real-time Decision Support System for Anesthesia Care during Surgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 207-210.	2.5	41
13	Automated Electronic Reminders to Improve Redosing of Antibiotics during Surgical Cases: Comparison of Two Approaches. <i>Surgical Infections</i> , 2011, 12, 57-63.	0.7	37
14	A Pilot Study of the Feasibility and Accuracy of Inpatient Continuous Glucose Monitoring. <i>Diabetes Care</i> , 2020, 43, e168-e169.	4.3	36
15	Endovascular Treatment of Acute Ischemic Stroke Under General Anesthesia: Predictors of Good Outcome. <i>Journal of Neurosurgical Anesthesiology</i> , 2018, 30, 223-230.	0.6	30
16	Intraoperative blood glucose management: impact of a real-time decision support system on adherence to institutional protocol. <i>Journal of Clinical Monitoring and Computing</i> , 2016, 30, 301-312.	0.7	29
17	Associations Between Age and Dosing of Volatile Anesthetics in 2 Academic Hospitals. <i>Anesthesia and Analgesia</i> , 2015, 121, 645-651.	1.1	28
18	Counting train-of-four twitch response: comparison of palpation to mechanomyography, acceleromyography, and electromyography. <i>British Journal of Anaesthesia</i> , 2020, 124, 712-717.	1.5	27

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19	Failure to Redose Antibiotic Prophylaxis in Long Surgery Increases Risk of Surgical Site Infection. <i>Surgical Infections</i> , 2017, 18, 474-484.	0.7	25
20	Preoperative Low-Dose Aspirin Exposure and Outcomes After Emergency Neurosurgery for Traumatic Intracranial Hemorrhage in Elderly Patients. <i>Anesthesia and Analgesia</i> , 2017, 125, 514-520.	1.1	24
21	Machine learning approach to predict postoperative opioid requirements in ambulatory surgery patients. <i>PLoS ONE</i> , 2020, 15, e0236833.	1.1	23
22	Randomised trial comparing the recording ability of a novel, electronic emergency documentation system with the AHA paper cardiac arrest record. <i>Emergency Medicine Journal</i> , 2014, 31, 833-839.	0.4	22
23	Methylprednisolone Therapy in Acute Traumatic Spinal Cord Injury: Analysis of a Regional Spinal Cord Model Systems Database. <i>Anesthesia and Analgesia</i> , 2017, 124, 1200-1205.	1.1	20
24	Association between acute phase perioperative glucose parameters and postoperative outcomes in diabetic and non-diabetic patients undergoing non-cardiac surgery. <i>American Journal of Surgery</i> , 2019, 218, 302-310.	0.9	20
25	Forecasting a Crisis: Machine-Learning Models Predict Occurrence of Intraoperative Bradycardia Associated With Hypotension. <i>Anesthesia and Analgesia</i> , 2020, 130, 1201-1210.	1.1	20
26	Improving Documentation of a Beta-Blocker Quality Measure Through an Anesthesia Information Management System and Real-Time Notification of Documentation Errors. <i>Joint Commission Journal on Quality and Patient Safety</i> , 2012, 38, 283-AP3.	0.4	19
27	The Effect of Intraoperative Blood Glucose Management on Postoperative Blood Glucose Levels in Noncardiac Surgery Patients. <i>Anesthesia and Analgesia</i> , 2016, 122, 893-902.	1.1	18
28	Risks of Routinely Clamping External Ventricular Drains for Intrahospital Transport in Neurocritically Ill Cerebrovascular Patients. <i>Neurocritical Care</i> , 2017, 26, 196-204.	1.2	18
29	Relative costs of anesthesiologist prepared, hospital pharmacy prepared and outsourced anesthesia drugs. <i>Journal of Clinical Anesthesia</i> , 2017, 36, 178-183.	0.7	16
30	Near real-time notification of gaps in cuff blood pressure recordings for improved patient monitoring. <i>Journal of Clinical Monitoring and Computing</i> , 2013, 27, 265-271.	0.7	15
31	An electronic handoff tool to facilitate transfer of care from anesthesia to nursing in intensive care units. <i>Health Informatics Journal</i> , 2019, 25, 3-16.	1.1	15
32	Aviation-Style Computerized Surgical Safety Checklist Displayed on a Large Screen and Operated by the Anesthesia Provider Improves Checklist Performance. <i>Anesthesia and Analgesia</i> , 2020, 130, 382-390.	1.1	14
33	Electrocardiographic Activity before Onset of Postoperative Atrial Fibrillation in Cardiac Surgery Patients. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2008, 31, 1371-1382.	0.5	12
34	Development of an aviation-style computerized checklist displayed on a tablet computer for improving handoff communication in the post-anesthesia care unit. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 607-616.	0.7	10
35	Perioperative hypotension and discharge outcomes in non-critically injured trauma patients, a single centre retrospective cohort study. <i>Injury</i> , 2017, 48, 1956-1963.	0.7	8
36	Electronic Audit and Feedback With Positive Rewards Improve Anesthesia Provider Compliance With a Barcode-Based Drug Safety System. <i>Anesthesia and Analgesia</i> , 2019, 129, 418-425.	1.1	8

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37	Evaluation of Perioperative Medication Errors. <i>Anesthesiology</i> , 2016, 125, 429-431.	1.3	7
38	Utility of Geriatric Assessment in the Projection of Early Mortality Following Hip Fracture in the Elderly Patients. <i>Geriatric Orthopaedic Surgery and Rehabilitation</i> , 2018, 9, 215145931881397.	0.6	7
39	A Novel Computerized Fading Memory Algorithm for Glycemic Control in Postoperative Surgical Patients. <i>Anesthesia and Analgesia</i> , 2012, 115, 580-587.	1.1	7
40	Decisional practices and patterns of intraoperative glucose management in an academic medical center. <i>Journal of Clinical Anesthesia</i> , 2016, 32, 214-223.	0.7	6
41	Development and Feasibility of a Real-Time Clinical Decision Support System for Traumatic Brain Injury Anesthesia Care. <i>Applied Clinical Informatics</i> , 2017, 26, 80-96.	0.8	6
42	Anesthetic Management of Brain-dead Adult and Pediatric Organ Donors. <i>Journal of Neurosurgical Anesthesiology</i> , 2020, Publish Ahead of Print, e34-e39.	0.6	6
43	Continuous intraoperative epidural infusions affect recovery room length of stay and analgesic requirements: a single-center observational study. <i>Journal of Anesthesia</i> , 2017, 31, 494-501.	0.7	4
44	Process Optimization and Digital Quality Improvement to Enhance Timely Initiation of Epidural Infusions and Postoperative Pain Control. <i>Anesthesia and Analgesia</i> , 2019, 128, 953-961.	1.1	4
45	Don't Blame the Messenger. <i>Anesthesia and Analgesia</i> , 2015, 121, 1409-1411.	1.1	2
46	Failure to Redose of Antibiotic Prophylaxis in Long Surgery Increases Risk of Surgical Site Infection. <i>Open Forum Infectious Diseases</i> , 2016, 3, .	0.4	2
47	Hyper-G: An Artificial Intelligence Tool for Optimal Decision-Making and Management of Blood Glucose Levels in Surgery Patients. <i>Methods of Information in Medicine</i> , 2019, 58, 079-085.	0.7	2
48	Feasibility and indicator outcomes using computerized clinical decision support in pediatric traumatic brain injury anesthesia care. <i>Paediatric Anaesthesia</i> , 2019, 29, 271-279.	0.6	2
49	Does Attending Surgeon Presence at the Preinduction Briefing Improve Operating Room Efficiency?. <i>Otolaryngology - Head and Neck Surgery</i> , 2019, 161, 787-795.	1.1	1
50	Patient characteristics and critical care workflow affect paging frequency in neurocritical care. <i>Journal of Clinical Neuroscience</i> , 2019, 61, 66-72.	0.8	1
51	Acknowledgment. <i>Anesthesiology</i> , 2014, 120, 1528-1530.	1.3	0
52	Safe on Saturday: Elective abdominal and perineal surgeries can be performed on Saturday without increased risk of poor post-operative outcome. <i>American Journal of Surgery</i> , 2019, 218, 462-466.	0.9	0
53	Accurately Predicting Case-Time Duration. <i>Journal of the American College of Surgeons</i> , 2019, 229, 634-635.	0.2	0