Leo Anthony Celi

List of Publications by Year in Descending Order

207 papers	7,221 citations	35 h-index	81 g-index
239 ext. papers	10,332 ext. citations	6.2 avg, IF	6.43 L-index

#	Paper	IF	Citations
207	Best practices in the real-world data life cycle **2022**, 1, e0000003		1
206	Rural-Urban Differences in Influenza Vaccination Among Adults in the United States, 2018-2019.. *American Journal of Public Health*, **2022**, 112, 304-307	5.1	1
205	The Ecosystem as a Service (EaaS) approach to advance clinical artificial intelligence (cAI) **2022**, 1, e0000011		2
204	AIM and Business Models of Healthcare **2022**, 603-611		
203	AIM and Patient Safety **2022**, 215-225		
202	Measuring the learning outcomes of datathons. *BMJ Innovations*, **2022**, 8, 72-77	1.8	
201	Sources of bias in artificial intelligence that perpetuate healthcare disparities A global review **2022**, 1, e0000022		3
200	An interactive dashboard to track themes, development maturity, and global equity in clinical artificial intelligence research.. *The Lancet Digital Health*, **2022**, 4, e212-e213	14.4	2
199	Leveraging Data Science for Global Surgery. *Sustainable Development Goals Series*, **2022**, 55-65	0.5	
198	A novel Vascular Leak Index identifies sepsis patients with a higher risk for in-hospital death and fluid accumulation.. *Critical Care*, **2022**, 26, 103	10.8	0
197	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2113561119	11.5	13
196	Ethical Considerations of Artificial Intelligence Applications in Healthcare. *Contemporary Medical Imaging*, **2022**, 561-565	0.1	
195	AI recognition of patient race in medical imaging: a modelling study.. *The Lancet Digital Health*, **2022**,	14.4	7
194	A systematic review of federated learning applications for biomedical data **2022**, 1, e0000033		3
193	Artificial intelligence for prediction of treatment outcomes in breast cancer: Systematic review of design, reporting standards, and bias. *Cancer Treatment Reviews*, **2022**, 108, 102410	14.4	1
192	A distributed approach to the regulation of clinical AI **2022**, 1, e0000040		0
191	Clinical artificial intelligence quality improvement: towards continual monitoring and updating of AI algorithms in healthcare. *Npj Digital Medicine*, **2022**, 5,	15.7	3

190	Analysis of Discrepancies Between Pulse Oximetry and Arterial Oxygen Saturation Measurements by Race and Ethnicity and Association With Organ Dysfunction and Mortality. *JAMA Network Open*, **2021**, 4, e2131674	10.4	6
189	Artificial intelligence for mechanical ventilation: systematic review of design, reporting standards, and bias. *British Journal of Anaesthesia*, **2021**,	5.4	1
188	Predicting hypoglycemia in critically Ill patients using machine learning and electronic health records. *Journal of Clinical Monitoring and Computing*, **2021**, 1	2	2
187	The Use of a Formative Pedagogy Lens to Enhance and Maintain Virtual Supervisory Relationships: Appreciative Inquiry and Critical Review. *JMIR Medical Education*, **2021**, 7, e26251	5	
186	Varying association of laboratory values with reference ranges and outcomes in critically ill patients: an analysis of data from five databases in four countries across Asia, Europe and North America. *BMJ Health and Care Informatics*, **2021**, 28,	2.6	1
185	Understanding critically ill sepsis patients with normal serum lactate levels: results from U.S. and European ICU cohorts. *Scientific Reports*, **2021**, 11, 20076	4.9	1
184	Patient Harm During COVID-19 Pandemic: Using a Human Factors Lens to Promote Patient and Workforce Safety. *Journal of Patient Safety*, **2021**, 17, 87-89	1.9	3
183	Data-driven curation process for describing the blood glucose management in the intensive care unit. *Scientific Data*, **2021**, 8, 80	8.2	0
182	Biomarkers for Progression in Diabetic Retinopathy: Expanding Personalized Medicine through Integration of AI with Electronic Health Records. *Seminars in Ophthalmology*, **2021**, 36, 250-257	2.4	3
181	Hacking the hackathon: insights from hosting a novel trainee-oriented multidisciplinary event. *BMJ Innovations*, **2021**, 7, 586-589	1.8	1
180	Equity in essence: a call for operationalising fairness in machine learning for healthcare. *BMJ Health and Care Informatics*, **2021**, 28,	2.6	10
179	Beyond the : "An Algorithmic Approach to Reducing Unexplained Pain Disparities in Underserved Populations". *American Journal of Roentgenology*, **2021**, 217, 1480	5.4	1
178	Circadian rhythm in critically ill patients: Insights from the eICU Database.. *Cardiovascular Digital Health Journal*, **2021**, 2, 118-125	2	3
177	Performance of intensive care unit severity scoring systems across different ethnicities in the USA: a retrospective observational study. *The Lancet Digital Health*, **2021**, 3, e241-e249	14.4	11
176	Effect of spontaneous breathing on ventilator-free days in critically ill patients-an analysis of patients in a large observational cohort. *Annals of Translational Medicine*, **2021**, 9, 783	3.2	1
175	Generalisability through local validation: overcoming barriers due to data disparity in healthcare. *BMC Ophthalmology*, **2021**, 21, 228	2.3	4
174	Improving community health-care screenings with smartphone-based AI technologies. *The Lancet Digital Health*, **2021**, 3, e280-e282	14.4	2
173	Who does the model learn from?. *The Lancet Digital Health*, **2021**, 3, e275-e276	14.4	3

172	Patient-specific COVID-19 resource utilization prediction using fusion AI model. *Npj Digital Medicine* , **2021**, 4, 94	15.7	5
171	Deep learning to predict long-term mortality in patients requiring 7 days of mechanical ventilation. *PLoS ONE*, **2021**, 16, e0253443	3.7	4
170	Lower household income is associated with an increased risk of hospital readmission in patients with decompensated cirrhosis. *Journal of Gastroenterology and Hepatology (Australia)*, **2021**, 36, 1088-1094	4	1
169	Scores to Predict Long-term Mortality in Patients With Severe Pneumonia Still Lacking. *Clinical Infectious Diseases*, **2021**, 72, e442-e443	11.6	1
168	The Minimal Effect of Zinc on the Survival of Hospitalized Patients With COVID-19: An Observational Study. *Chest*, **2021**, 159, 108-111	5.3	42
167	MIT COVID-19 Datathon: data without boundaries. *BMJ Innovations*, **2021**, 7, 231-234	1.8	7
166	Distance-learning collaborations for rapid knowledge sharing to the occupied Palestinian territory during the COVID-19 response: experience from the OxPal partnership. *Medicine, Conflict and Survival*, **2021**, 37, 55-68	0.6	0
165	Artificial intelligence-based prediction of transfusion in the intensive care unit in patients with gastrointestinal bleeding. *BMJ Health and Care Informatics*, **2021**, 28,	2.6	4
164	Response. *Chest*, **2021**, 159, 450-451	5.3	1
163	AIM and Business Models of Healthcare **2021**, 1-9		
162	Real-time prediction of COVID-19 related mortality using electronic health records. *Nature Communications*, **2021**, 12, 1058	17.4	11
161	Development and validation of a reinforcement learning algorithm to dynamically optimize mechanical ventilation in critical care. *Npj Digital Medicine*, **2021**, 4, 32	15.7	7
160	Recalibration of deep learning models for abnormality detection in smartphone-captured chest radiograph. *Npj Digital Medicine*, **2021**, 4, 25	15.7	3
159	Prediction of blood lactate values in critically ill patients: a retrospective multi-center cohort study. *Journal of Clinical Monitoring and Computing*, **2021**, 1	2	0
158	Cardio-pulmonary-renal interactions in ICU patients. Role of mechanical ventilation, venous congestion and perfusion deficit on worsening of renal function: Insights from the MIMIC-III database. *Journal of Critical Care*, **2021**, 64, 100-107	4	3
157	A scoping review of artificial intelligence applications in thoracic surgery. *European Journal of Cardio-thoracic Surgery*, **2021**,	3	1
156	AIM and Patient Safety **2021**, 1-11		
155	Scalable data systems require creating a culture of continuous learning.. *EBioMedicine*, **2021**, 74, 103738	8.8	0

154	Incidence and Risk Model Development for Severe Tachypnea Following Terminal Extubation. *Chest* , **2020**, 158, 1456-1463	5.3	2
153	The weekend effect for stroke patients admitted to intensive care: A retrospective cohort analysis. *PLoS ONE*, **2020**, 15, e0234521	3.7	
152	Data sharing in the era of COVID-19. *The Lancet Digital Health*, **2020**, 2, e224	14.4	32
151	Predicting Intensive Care Unit admission among patients presenting to the emergency department using machine learning and natural language processing. *PLoS ONE*, **2020**, 15, e0229331	3.7	13
150	Real-world characterization of blood glucose control and insulin use in the intensive care unit. *Scientific Reports*, **2020**, 10, 10718	4.9	5
149	Treatment in Disproportionately Minority Hospitals Is Associated With Increased Risk of Mortality in Sepsis: A National Analysis. *Critical Care Medicine*, **2020**, 48, 962-967	1.4	5
148	What do medical students actually need to know about artificial intelligence?. *Npj Digital Medicine*, **2020**, 3, 86	15.7	33
147	Do Hyponatremia or Its Underlying Mechanisms Associate With Mortality Risk in Observational Data? **2020**, 2, e0074		
146	Temporal Trends in Critical Care Outcomes in U.S. Minority-Serving Hospitals. *American Journal of Respiratory and Critical Care Medicine*, **2020**, 201, 681-687	10.2	20
145	Risk of mortality and cardiopulmonary arrest in critical patients presenting to the emergency department using machine learning and natural language processing. *PLoS ONE*, **2020**, 15, e0230876	3.7	12
144	The advent of medical artificial intelligence: lessons from the Japanese approach. *Journal of Intensive Care*, **2020**, 8, 35	7	6
143	How Can Artificial Intelligence Make Medicine More Preemptive?. *Journal of Medical Internet Research*, **2020**, 22, e17211	7.6	4
142	Reinforcement Learning for Clinical Decision Support in Critical Care: Comprehensive Review. *Journal of Medical Internet Research*, **2020**, 22, e18477	7.6	26
141	Urban Intelligence for Pandemic Response: Viewpoint. *JMIR Public Health and Surveillance*, **2020**, 6, e18873	11.4	26
140	COVID-19: Putting the General Data Protection Regulation to the Test. *JMIR Public Health and Surveillance*, **2020**, 6, e19279	11.4	12
139	Starting the path of Digital Transformation in Health Innovation in Digital Health: Conference proceeding **2020**, e74, 68-75		0
138	Machine Learning for Pulmonary and Critical Care Medicine: A Narrative Review. *Pulmonary Therapy* , **2020**, 6, 67-77	3	17
137	Lower 90-day Hospital Readmission Rates for Esophageal Variceal Bleeding After TIPS: A Nationwide Linked Analysis. *Journal of Clinical Gastroenterology*, **2020**, 54, 90-95	3	2

136	Exploiting temporal relationships in the prediction of mortality. *The Lancet Digital Health*, **2020**, 2, e152-e153	14.4	1
135	"Yes, but will it work for patients?" Driving clinically relevant research with benchmark datasets. *Npj Digital Medicine*, **2020**, 3, 87	15.7	7
134	Ensuring machine learning for healthcare works for all. *BMJ Health and Care Informatics*, **2020**, 27,	2.6	4
133	The clinical artificial intelligence department: a prerequisite for success. *BMJ Health and Care Informatics*, **2020**, 27,	2.6	17
132	Accelerating ophthalmic artificial intelligence research: the role of an open access data repository. *Current Opinion in Ophthalmology*, **2020**, 31, 337-350	5.1	7
131	AI Ethics Is Not a Panacea. *American Journal of Bioethics*, **2020**, 20, 20-22	1.1	8
130	Mortality prediction models, causal effects, and end-of-life decision making in the intensive care unit. *BMJ Health and Care Informatics*, **2020**, 27,	2.6	3
129	Unsupervised learning for county-level typological classification for COVID-19 research. *Intelligence-based Medicine*, **2020**, 1, 100002	2.7	3
128	Data science to analyse the largest natural experiment of our time. *BMJ Health and Care Informatics* , **2020**, 27,	2.6	2
127	Use of Do-Not-Resuscitate Orders for Critically Ill Patients with ESKD. *Journal of the American Society of Nephrology: JASN*, **2020**, 31, 2393-2399	12.7	5
126	The myth of generalisability in clinical research and machine learning in health care. *The Lancet Digital Health*, **2020**, 2, e489-e492	14.4	69
125	The Impact of Chronic Ozone and Particulate Air Pollution on Mortality in Patients With Sepsis Across the United States. *Journal of Intensive Care Medicine*, **2020**, 35, 1002-1007	3.3	8
124	Vasopressin Administration Is Associated With Rising Serum Lactate Levels in Patients With Sepsis. *Journal of Intensive Care Medicine*, **2020**, 35, 881-888	3.3	3
123	An awakening in medicine: the partnership of humanity and intelligent machines. *The Lancet Digital Health*, **2019**, 1, e255-e257	14.4	23
122	Normalization of mechanical power to anthropometric indices: impact on its association with mortality in critically ill patients. *Intensive Care Medicine*, **2019**, 45, 1835-1837	14.5	3
121	An Evaluation of the Influence of Body Mass Index on Severity Scoring. *Critical Care Medicine*, **2019**, 47, 247-253	1.4	7
120	Critical Care, Critical Data. *Biomedical Engineering and Computational Biology*, **2019**, 10, 1179597219856564	3.6	24
119	Association of hypokalemia with an increased risk for medically treated arrhythmias. *PLoS ONE*, **2019**, 14, e0217432	3.7	4

118	Intensive Care Unit Telemedicine in the Era of Big Data, Artificial Intelligence, and Computer Clinical Decision Support Systems. *Critical Care Clinics*, **2019**, 35, 483-495	4.5	24
117	Outcomes of in-hospital cardiopulmonary resuscitation for patients with end-stage liver disease. *Liver International*, **2019**, 39, 1256-1262	7.9	13
116	The reproducibility crisis in the age of digital medicine. *Npj Digital Medicine*, **2019**, 2, 2	15.7	43
115	Palliative medicine and hospital readmissions in end-stage liver disease. *BMJ Supportive and Palliative Care*, **2019**,	2.2	5
114	Withholding or withdrawing invasive interventions may not accelerate time to death among dying ICU patients. *PLoS ONE*, **2019**, 14, e0212439	3.7	2
113	The challenge of local consent requirements for global critical care databases. *Intensive Care Medicine*, **2019**, 45, 246-248	14.5	8
112	The "inconvenient truth" about AI in healthcare. *Npj Digital Medicine*, **2019**, 2, 77	15.7	99
111	Developing well-calibrated illness severity scores for decision support in the critically ill. *Npj Digital Medicine*, **2019**, 2, 76	15.7	11
110	The PLOS ONE collection on machine learning in health and biomedicine: Towards open code and open data. *PLoS ONE*, **2019**, 14, e0210232	3.7	14
109	Counterintuitive results from observational data: a case study and discussion. *BMJ Open*, **2019**, 9, e026447	3	1
108	Machine learning can accurately predict pre-admission baseline hemoglobin and creatinine in intensive care patients. *Npj Digital Medicine*, **2019**, 2, 116	15.7	8
107	Applying machine learning to continuously monitored physiological data. *Journal of Clinical Monitoring and Computing*, **2019**, 33, 887-893	2	24
106	Post-extrasystolic characteristics in the arterial blood pressure waveform are associated with right ventricular dysfunction in intensive care patients. *Journal of Clinical Monitoring and Computing*, **2019**, 33, 565-571	2	1
105	Guidelines for reinforcement learning in healthcare. *Nature Medicine*, **2019**, 25, 16-18	50.5	87
104	Impact of Intensive Care Unit Discharge Delays on Patient Outcomes: A Retrospective Cohort Study. *Journal of Intensive Care Medicine*, **2019**, 34, 924-929	3.3	10
103	The Effect of ARDS on Survival: Do Patients Die From ARDS or With ARDS?. *Journal of Intensive Care Medicine*, **2019**, 34, 374-382	3.3	13
102	Reply. *Hepatology*, **2019**, 69, 920-921	11.2	
101	Hacking Hackathons: Preparing the next generation for the multidisciplinary world of healthcare technology. *International Journal of Medical Informatics*, **2018**, 112, 1-5	5.3	24

100	Assessing team effectiveness and affective learning in a datathon. *International Journal of Medical Informatics*, **2018**, 112, 40-44	5.3	9
99	Racial and Geographic Disparities in Interhospital ICU Transfers. *Critical Care Medicine*, **2018**, 46, e76-e80	1.4	17
98	Behind the scenes: A medical natural language processing project. *International Journal of Medical Informatics*, **2018**, 112, 68-73	5.3	16
97	Effect of Boarding on Mortality in ICUs. *Critical Care Medicine*, **2018**, 46, 525-531	1.4	17
96	Potential Adverse Effects of Broad-Spectrum Antimicrobial Exposure in the Intensive Care Unit. *Open Forum Infectious Diseases*, **2018**, 5, ofx270	1	3
95	Association of Household Income Level and In-Hospital Mortality in Patients With Sepsis: A Nationwide Retrospective Cohort Analysis. *Journal of Intensive Care Medicine*, **2018**, 33, 551-556	3.3	14
94	The MIMIC Code Repository: enabling reproducibility in critical care research. *Journal of the American Medical Informatics Association: JAMIA*, **2018**, 25, 32-39	8.6	125
93	Access to Palliative Care for Patients Undergoing Mechanical Ventilation With Idiopathic Pulmonary Fibrosis in the United States. *American Journal of Hospice and Palliative Medicine*, **2018**, 35, 492-496	2.6	12
92	Comparing deep learning and concept extraction based methods for patient phenotyping from clinical narratives. *PLoS ONE*, **2018**, 13, e0192360	3.7	75
91	The eICU Collaborative Research Database, a freely available multi-center database for critical care research. *Scientific Data*, **2018**, 5, 180178	8.2	265
90	Outcomes of Ventilated Patients With Sepsis Who Undergo Interhospital Transfer: A Nationwide Linked Analysis. *Critical Care Medicine*, **2018**, 46, e81-e86	1.4	14
89	Severity of Illness Scores May Misclassify Critically Ill Obese Patients. *Critical Care Medicine*, **2018**, 46, 394-400	1.4	11
88	Patterns of Palliative Care Referral in Patients Admitted With Heart Failure Requiring Mechanical Ventilation. *American Journal of Hospice and Palliative Medicine*, **2018**, 35, 620-626	2.6	13
87	Assessment of Intensive Care Unit Laboratory Values That Differ From Reference Ranges and Association With Patient Mortality and Length of Stay. *JAMA Network Open*, **2018**, 1, e184521	10.4	12
86	Feature selection and prediction of treatment failure in tuberculosis. *PLoS ONE*, **2018**, 13, e0207491	3.7	18
85	Authors' Response to the Intensive Care Unit Discharge Delay and In-Hospital Mortality. *Journal of Intensive Care Medicine*, **2018**, 885066618816686	3.3	
84	Mechanical power of ventilation is associated with mortality in critically ill patients: an analysis of patients in two observational cohorts. *Intensive Care Medicine*, **2018**, 44, 1914-1922	14.5	143
83	The Artificial Intelligence Clinician learns optimal treatment strategies for sepsis in intensive care. *Nature Medicine*, **2018**, 24, 1716-1720	50.5	324

82	Transthoracic echocardiography and mortality in sepsis: analysis of the MIMIC-III database. *Intensive Care Medicine*, **2018**, 44, 884-892	14.5	71
81	A hackathon promoting Taiwanese health-IoT innovation. *Computer Methods and Programs in Biomedicine*, **2018**, 163, 29-32	6.9	3
80	Use of Palliative Care in Patients With End-Stage COPD and Receiving Home Oxygen: National Trends and Barriers to Care in the United States. *Chest*, **2017**, 151, 41-46	5.3	59
79	The association between sodium fluctuations and mortality in surgical patients requiring intensive care. *Journal of Critical Care*, **2017**, 40, 63-68	4	12
78	Association between chronic exposure to air pollution and mortality in the acute respiratory distress syndrome. *Environmental Pollution*, **2017**, 224, 352-356	9.3	22
77	Response. *Chest*, **2017**, 151, 1184	5.3	1
76	Acute Respiratory Distress Syndrome in Pregnant Women. *Obstetrics and Gynecology*, **2017**, 129, 530-535	4.9	31
75	Analyzing the eICU Collaborative Research Database **2017**,		5
74	Right Ventricular Function, Peripheral Edema, and Acute Kidney Injury in Critical Illness. *Kidney International Reports*, **2017**, 2, 1059-1065	4.1	20
73	Palliative care access for hospitalized patients with end-stage liver disease across the United States. *Hepatology*, **2017**, 66, 1585-1591	11.2	52
72	In Reply. *Obstetrics and Gynecology*, **2017**, 130, 218-219	4.9	
71	Understanding vasopressor intervention and weaning: risk prediction in a public heterogeneous clinical time series database. *Journal of the American Medical Informatics Association: JAMIA*, **2017**, 24, 488-495	8.6	24
70	Impact of hospital case-volume on subarachnoid hemorrhage outcomes: A nationwide analysis adjusting for hemorrhage severity. *Journal of Critical Care*, **2017**, 37, 240-243	4	27
69	Enabling Machine Learning in Critical Care **2017**, 17, 198-199		4
68	Promoting Secondary Analysis of Electronic Medical Records in China: Summary of the PLAGH-MIT Critical Data Conference and Health Datathon. *JMIR Medical Informatics*, **2017**, 5, e43	3.6	13
67	Clinical Note Creation, Binning, and Artificial Intelligence. *JMIR Medical Informatics*, **2017**, 5, e24	3.6	9
66	Tackling Regional Public Health Issues Using Mobile Health Technology: Event Report of an mHealth Hackathon in Thailand. *JMIR MHealth and UHealth*, **2017**, 5, e155	5.5	8
65	Physician satisfaction with a multi-platform digital scheduling system. *PLoS ONE*, **2017**, 12, e0174127	3.7	4

64	Time-Limited Trials of Intensive Care for Critically Ill Patients With Cancer: How Long Is Long Enough?. *JAMA Oncology*, **2016**, 2, 76-83	13.4	51
63	The Association Between Admission Magnesium Concentrations and Lactic Acidosis in Critical Illness. *Journal of Intensive Care Medicine*, **2016**, 31, 187-92	3.3	20
62	The hackathon model to spur innovation around global mHealth. *Journal of Medical Engineering and Technology*, **2016**, 40, 392-399	1.8	34
61	Challenges and Opportunities in Secondary Analyses of Electronic Health Record Data **2016**, 17-26		12
60	A "datathon" model to support cross-disciplinary collaboration. *Science Translational Medicine*, **2016**, 8, 333ps8	17.5	39
59	MIMIC-III, a freely accessible critical care database. *Scientific Data*, **2016**, 3, 160035	8.2	2048
58	Conversation prior to resuscitation: The new CPR. *Resuscitation*, **2016**, 99, e3	4	2
57	Admission Peripheral Edema, Central Venous Pressure, and Survival in Critically Ill Patients. *Annals of the American Thoracic Society*, **2016**, 13, 705-11	4.7	10
56	Peripheral Edema, Central Venous Pressure, and Risk of AKI in Critical Illness. *Clinical Journal of the American Society of Nephrology: CJASN*, **2016**, 11, 602-8	6.9	81
55	Datathons and Software to Promote Reproducible Research. *Journal of Medical Internet Research*, **2016**, 18, e230	7.6	5
54	Bridging the Health Data Divide. *Journal of Medical Internet Research*, **2016**, 18, e325	7.6	22
53	Big data in healthcare: are we close to it?. *Revista Brasileira De Terapia Intensiva*, **2016**, 28, 8-10	1.2	6
52	Scalable Predictive Analysis in Critically Ill Patients Using a Visual Open Data Analysis Platform. *PLoS ONE*, **2016**, 11, e0145791	3.7	22
51	Sodium modelling to reduce intradialytic hypotension during haemodialysis for acute kidney injury in the intensive care unit. *Nephrology*, **2016**, 21, 870-7	2.2	9
50	The organizational structure of an intensive care unit influences treatment of hypotension among critically ill patients: A retrospective cohort study. *Journal of Critical Care*, **2016**, 33, 14-8	4	3
49	Proton Pump Inhibitors Are Not Associated With Acute Kidney Injury in Critical Illness. *Journal of Clinical Pharmacology*, **2016**, 56, 1500-1506	2.9	17
48	Engineering control into medicine. *Journal of Critical Care*, **2015**, 30, 652.e1-7	4	8
47	The association between the neutrophil-to-lymphocyte ratio and mortality in critical illness: an observational cohort study. *Critical Care*, **2015**, 19, 13	10.8	75

46	Big data in global health: improving health in low- and middle-income countries. *Bulletin of the World Health Organization*, **2015**, 93, 203-8	8.2	145
45	Increased incidence of diuretic use in critically ill obese patients. *Journal of Critical Care*, **2015**, 30, 619-23	4	17
44	Effect of Protocolized Sedation on Clinical Outcomes in Mechanically Ventilated Intensive Care Unit Patients: A Systematic Review and Meta-analysis of Randomized Controlled Trials. *Mayo Clinic Proceedings*, **2015**, 90, 613-23	6.4	32
43	State of the art review: the data revolution in critical care. *Critical Care*, **2015**, 19, 118	10.8	65
42	Hyperdynamic left ventricular ejection fraction in the intensive care unit. *Critical Care*, **2015**, 19, 288	10.8	25
41	The Association Between Indwelling Arterial Catheters and Mortality in Hemodynamically Stable Patients With Respiratory Failure: A Propensity Score Analysis. *Chest*, **2015**, 148, 1470-1476	5.3	17
40	Fuzzy Modeling to Predict Severely Depressed Left Ventricular Ejection Fraction following Admission to the Intensive Care Unit Using Clinical Physiology. *Scientific World Journal, The*, **2015**, 2015, 212703	2.2	6
39	Proton pump inhibitor use is not associated with cardiac arrhythmia in critically ill patients. *Journal of Clinical Pharmacology*, **2015**, 55, 774-9	2.9	7
38	Preparing a New Generation of Clinicians for the Era of Big Data **2015**, 2, 24-27		18
37	Disrupting Electronic Health Records Systems: The Next Generation. *JMIR Medical Informatics*, **2015**, 3, e34	3.6	22
36	A data-driven approach to optimized medication dosing: a focus on heparin. *Intensive Care Medicine*, **2014**, 40, 1332-9	14.5	31
35	Model for End-Stage Liver Disease score predicts mortality in critically ill cirrhotic patients. *Journal of Critical Care*, **2014**, 29, 881.e7-13	4	22
34	Leveraging a critical care database: selective serotonin reuptake inhibitor use prior to ICU admission is associated with increased hospital mortality. *Chest*, **2014**, 145, 745-752	5.3	29
33	From Pharmacovigilance to Clinical Care Optimization. *Big Data*, **2014**, 2, 134-141	3.1	7
32	Optimal data systems: the future of clinical predictions and decision support. *Current Opinion in Critical Care*, **2014**, 20, 573-80	3.5	21
31	Trends in severity of illness on ICU admission and mortality among the elderly. *PLoS ONE*, **2014**, 9, e93234	3.7	34
30	Crowdsourcing knowledge discovery and innovations in medicine. *Journal of Medical Internet Research*, **2014**, 16, e216	7.6	38
29	Beyond open big data: addressing unreliable research. *Journal of Medical Internet Research*, **2014**, 16, e259	7.6	11

28	Dynamic clinical data mining: search engine-based decision support. *JMIR Medical Informatics*, **2014**, 2, e13	3.6	31
27	Making big data useful for health care: a summary of the inaugural mit critical data conference. *JMIR Medical Informatics*, **2014**, 2, e22	3.6	55
26	Pharmacovigilance: an active surveillance system to proactively identify risks for adverse events. *Population Health Management*, **2013**, 16, 147-9	1.8	15
25	Proton-pump inhibitor use is associated with low serum magnesium concentrations. *Kidney International*, **2013**, 83, 692-9	9.9	117
24	Predicting ICU admissions from attempted suicide presentations at an Emergency Department in Central Queensland. *Australasian Medical Journal*, **2013**, 6, 536-41	2	4
23	Dynamic data during hypotensive episode improves mortality predictions among patients with sepsis and hypotension. *Critical Care Medicine*, **2013**, 41, 954-62	1.4	41
22	Association of hypermagnesemia and blood pressure in the critically ill. *Journal of Hypertension*, **2013**, 31, 2136-41; discussion 2141	1.9	15
21	Severity of acute kidney injury and two-year outcomes in critically ill patients. *Chest*, **2013**, 144, 866-875	5.3	26
20	Customized Prediction of Short Length of Stay Following Elective Cardiac Surgery in Elderly Patients Using a Genetic Algorithm. *World Journal of Cardiovascular Surgery*, **2013**, 3, 163-170	0	4
19	ICU admission characteristics and mortality rates among elderly and very elderly patients. *Intensive Care Medicine*, **2012**, 38, 1654-61	14.5	140
18	A Database-driven Decision Support System: Customized Mortality Prediction. *Journal of Personalized Medicine*, **2012**, 2, 138-48	3.6	42
17	Collective Experience: A Database-Fuelled, Inter-Disciplinary Team-Led Learning System. *Journal of Computing Science and Engineering*, **2012**, 6, 51-59	1.8	5
16	A Clinical Database-Driven Approach to Decision Support: Predicting Mortality Among Patients with Acute Kidney Injury. *Journal of Healthcare Engineering*, **2011**, 2, 97-110	3.7	34
15	Predicting laboratory testing in intensive care using fuzzy and neural modeling **2011**,		1
14	Early intervention with erythropoietin does not affect the outcome of acute kidney injury (the EARLYARF trial). *Kidney International*, **2010**, 77, 1020-30	9.9	189
13	Dynamic cerebral autoregulation and baroreflex sensitivity during modest and severe step changes in arterial PCO2. *Brain Research*, **2008**, 1230, 115-24	3.7	52
12	Healer, heal thyself: health care workers and the influenza vaccination. *American Journal of Infection Control*, **2008**, 36, 1-4	3.8	122
11	An artificial intelligence tool to predict fluid requirement in the intensive care unit: a proof-of-concept study. *Critical Care*, **2008**, 12, R151	10.8	27

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