

Matthew Semler

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

4,008
citations

30
h-index

62
g-index

132
ext. papers

5,725
ext. citations

8.8
avg, IF

5.41
L-index

#	Paper	IF	Citations
113	Balanced Crystalloids versus Saline in Critically Ill Adults [A Systematic Review with Meta-Analysis 2022 , 1,		6
112	Saline Compared to Balanced Crystalloid in Patients With Diabetic Ketoacidosis: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. 2022 , 4, e0613		0
111	Association Between Availability of ECMO and Mortality in COVID-19 Patients Eligible for ECMO: A Natural Experiment.. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022 ,	10.2	5
110	Intravenous Fluids-A Test Case for Learning Health Systems.. <i>JAMA Network Open</i> , 2022 , 5, e2210054	10.4	
109	Protocol and statistical analysis plan for the Pragmatic Investigation of optimal Oxygen Targets (PILOT) clinical trial. <i>BMJ Open</i> , 2021 , 11, e052013	3	0
108	Balanced Crystalloids versus Saline in Critically Ill Adults with Hyperkalemia or Acute Kidney Injury: Secondary Analysis of a Clinical Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 203, 1322-1325	10.2	5
107	BOugie or stilet in patients UnderGoing Intubation Emergently (BOUGIE): protocol and statistical analysis plan for a randomised clinical trial. <i>BMJ Open</i> , 2021 , 11, e047790	3	2
106	Thrombosis, Bleeding, and the Observational Effect of Early Therapeutic Anticoagulation on Survival in Critically Ill Patients With COVID-19. <i>Annals of Internal Medicine</i> , 2021 , 174, 622-632	8	41
105	Safety and Feasibility of a Protocolized Daily Assessment of Readiness for Liberation From Venovenous Extracorporeal Membrane Oxygenation. <i>Chest</i> , 2021 , 160, 1693-1703	5.3	6
104	Balanced crystalloids versus saline in critically ill adults with low plasma bicarbonate: A secondary analysis of a clinical trial. <i>Journal of Critical Care</i> , 2021 , 63, 250-253	4	1
103	Association Between Early Treatment With Tocilizumab and Mortality Among Critically Ill Patients With COVID-19. <i>JAMA Internal Medicine</i> , 2021 , 181, 41-51	11.5	213
102	Pneumomediastinum in Acute Respiratory Distress Syndrome from COVID-19. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 203, 237-238	10.2	8
101	Effect of Early Balanced Crystalloids Before ICU Admission on Sepsis Outcomes. <i>Chest</i> , 2021 , 159, 585-595	5.3	8
100	Severity of illness scores at presentation predict ICU admission and mortality in COVID-19. <i>Journal of Emergency and Critical Care Medicine</i> , 2021 , 5,	0.6	5
99	Extracorporeal membrane oxygenation in patients with severe respiratory failure from COVID-19. <i>Intensive Care Medicine</i> , 2021 , 47, 208-221	14.5	44
98	Effect of balanced crystalloids versus saline on urinary biomarkers of acute kidney injury in critically ill adults. <i>BMC Nephrology</i> , 2021 , 22, 54	2.7	2
97	What can a learning healthcare system teach us about improving outcomes?. <i>Current Opinion in Critical Care</i> , 2021 , 27, 527-536	3.5	1

96	Impact of Clinician Recognition of Acute Respiratory Distress Syndrome on Evidenced-Based Interventions in the Medical ICU 2021 , 3, e0457		1
95	Machine Learning Prediction of Death in Critically Ill Patients With Coronavirus Disease 2019 2021 , 3, e0515		1
94	Protocolized Postextubation Respiratory Support to Prevent Reintubation: A Randomized Clinical Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 204, 294-302	10.2	1
93	Effect of Early High-Dose Vitamin D3 Repletion on Cognitive Outcomes in Critically Ill Adults. <i>Chest</i> , 2021 , 160, 909-918	5.3	3
92	Oxygen Toxicity in Critically Ill Adults. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 204, 632-641	10.2	3
91	Respiratory Non-Invasive Venous Waveform Analysis for Assessment of Respiratory Distress in Coronavirus Disease 2019 Patients: An Observational Study 2021 , 3, e0539		0
90	Bag-Mask Ventilation Versus Apneic Oxygenation During Tracheal Intubation in Critically Ill Adults: A Secondary Analysis of 2 Randomized Trials.. <i>Journal of Intensive Care Medicine</i> , 2021 , 8850666211058648	3.3	1
89	Effect of Use of a Bougie vs Endotracheal Tube With Stylet on Successful Intubation on the First Attempt Among Critically Ill Patients Undergoing Tracheal Intubation: A Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , 2021 ,	27.4	7
88	Bleeding, Thromboembolism, and Clinical Outcomes in Venovenous Extracorporeal Membrane Oxygenation 2020 , 2, e0267		5
87	Effect of Hydroxychloroquine on Clinical Status at 14 Days in Hospitalized Patients With COVID-19: A Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , 2020 , 324, 2165-2176	27.4	206
86	Rationale and Design of ORCHID: A Randomized Placebo-controlled Clinical Trial of Hydroxychloroquine for Adults Hospitalized with COVID-19. <i>Annals of the American Thoracic Society</i> , 2020 , 17, 1144-1153	4.7	13
85	Identifying Clinical Research Priorities in Adult Pulmonary and Critical Care: NHLBI Working Group Report. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 ,	10.2	20
84	Reply to Gueret and to Hammond. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 201, 1163-1164	10.2	
83	Risk Factors for Cardiovascular Collapse during Tracheal Intubation of Critically Ill Adults. <i>Annals of the American Thoracic Society</i> , 2020 , 17, 1021-1024	4.7	5
82	Conservative Fluid Management After Sepsis Resuscitation: A Pilot Randomized Trial. <i>Journal of Intensive Care Medicine</i> , 2020 , 35, 1374-1382	3.3	8
81	Factors Associated With Death in Critically Ill Patients With Coronavirus Disease 2019 in the US. <i>JAMA Internal Medicine</i> , 2020 , 180, 1436-1447	11.5	426
80	Clinical Effects of Balanced Crystalloids vs Saline in Adults With Diabetic Ketoacidosis: A Subgroup Analysis of Cluster Randomized Clinical Trials. <i>JAMA Network Open</i> , 2020 , 3, e2024596	10.4	18
79	Big Data for Clinical Trials: Automated Collection of SpO ₂ for a Trial of Oxygen Targets during Mechanical Ventilation. <i>Journal of Medical Systems</i> , 2020 , 44, 153	5.1	0

78	Protocol and statistical analysis plan for the PREventing cardiovascular collaPse with Administration of fluid RESuscitation during Induction and Intubation (PREPARE II) randomised clinical trial. <i>BMJ Open</i> , 2020 , 10, e036671	3	2
77	Time to First Culture Positivity Among Critically Ill Adults With Methicillin-Resistant Growth in Respiratory or Blood Cultures. <i>Annals of Pharmacotherapy</i> , 2020 , 54, 131-137	2.9	3
76	Balanced Crystalloids versus Saline in Sepsis. A Secondary Analysis of the SMART Clinical Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 200, 1487-1495	10.2	50
75	Beginning of the End? End-tidal Oxygen as an Outcome in Airway Management Research. <i>EClinicalMedicine</i> , 2019 , 13, 10-11	11.3	1
74	Bag-Mask Ventilation during Tracheal Intubation of Critically Ill Adults. Reply. <i>New England Journal of Medicine</i> , 2019 , 380, 2482	59.2	1
73	Deconstructing Hyperlactatemia in Sepsis Using Central Venous Oxygen Saturation and Base Deficit. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 200, 526-527	10.2	3
72	Emulating a Novel Clinical Trial Using Existing Observational Data. Predicting Results of the PreVent Study. <i>Annals of the American Thoracic Society</i> , 2019 , 16, 998-1007	4.7	16
71	How I manage a difficult intubation. <i>Critical Care</i> , 2019 , 23, 177	10.8	2
70	Fluid Management in Acute Respiratory Distress Syndrome. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2019 , 40, 57-65	3.9	13
69	Ventilation before intubation: how to prevent hypoxaemia?. <i>Lancet Respiratory Medicine</i> , 2019 , 7, 284-285	35.1	1
68	Sodium bicarbonate for severe metabolic acidaemia. <i>Lancet, The</i> , 2019 , 393, 1414-1415	40	1
67	Fluid Management in Sepsis. <i>Journal of Intensive Care Medicine</i> , 2019 , 34, 364-373	3.3	35
66	Protocolized Post-Extubation Respiratory Support to prevent reintubation: protocol and statistical analysis plan for a clinical trial. <i>BMJ Open</i> , 2019 , 9, e030476	3	3
65	Effect of a fluid bolus on cardiovascular collapse among critically ill adults undergoing tracheal intubation (PrePARE): a randomised controlled trial. <i>Lancet Respiratory Medicine</i> , 2019 , 7, 1039-1047	35.1	26
64	Bag-Mask Ventilation during Tracheal Intubation of Critically Ill Adults. <i>New England Journal of Medicine</i> , 2019 , 380, 811-821	59.2	83
63	Randomized Clinical Trial of an ICU Recovery Pilot Program for Survivors of Critical Illness. <i>Critical Care Medicine</i> , 2019 , 47, 1337-1345	1.4	18
62	Balanced Crystalloid Solutions. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 952-960	10.2	33
61	Charge Reductions Associated With Shorter Time to Recovery in Septic Shock. <i>Chest</i> , 2019 , 155, 315-321	5.3	1

60	Effect of Interhospital ICU Relocation on Patient Physiology and Clinical Outcomes. <i>Journal of Intensive Care Medicine</i> , 2019 , 34, 1010-1016	3.3	3
59	Lung Recruitment and Positive End-Expiratory Pressure Titration in Patients With Acute Respiratory Distress Syndrome. <i>JAMA - Journal of the American Medical Association</i> , 2018 , 319, 932-933	27.4	
58	Reply to Vincent and De Backer: We Do Not Appreciate SALT. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 1362	10.2	
57	Balanced Crystalloids versus Saline in Critically Ill Adults. <i>New England Journal of Medicine</i> , 2018 , 378, 829-839	59.2	576
56	Balanced Crystalloids versus Saline in Noncritically Ill Adults. <i>New England Journal of Medicine</i> , 2018 , 378, 819-828	59.2	299
55	Response. <i>Chest</i> , 2018 , 153, 1076-1077	5.3	
54	Response. <i>Chest</i> , 2018 , 153, 568-569	5.3	
53	Early Resuscitation for Adults With Sepsis in a Low-income Country-Reply. <i>JAMA - Journal of the American Medical Association</i> , 2018 , 319, 614-615	27.4	
52	Five-Year Experience of an Inpatient Palliative Care Unit at an Academic Referral Center. <i>American Journal of Hospice and Palliative Medicine</i> , 2018 , 35, 1057-1062	2.6	5
51	A Multicenter Randomized Trial of a Checklist for Endotracheal Intubation of Critically Ill Adults. <i>Chest</i> , 2018 , 153, 816-824	5.3	33
50	Tranexamic acid for refractory gastrointestinal bleeds: A cohort study. <i>Journal of Critical Care</i> , 2018 , 43, 128-132	4	4
49	Best PEEP trials are dependent on tidal volume. <i>Critical Care</i> , 2018 , 22, 115	10.8	5
48	Liberal Versus Restrictive Intravenous Fluid Therapy for Early Septic Shock: Rationale for a Randomized Trial. <i>Annals of Emergency Medicine</i> , 2018 , 72, 457-466	2.1	74
47	Manual ventilation to prevent hypoxaemia during endotracheal intubation of critically ill adults: protocol and statistical analysis plan for a multicentre randomised trial. <i>BMJ Open</i> , 2018 , 8, e022139	3	4
46	Risk Factors for and Prediction of Hypoxemia during Tracheal Intubation of Critically Ill Adults. <i>Annals of the American Thoracic Society</i> , 2018 , 15, 1320-1327	4.7	21
45	Heterogeneity of Treatment Effect by Baseline Risk in a Trial of Balanced Crystalloids versus Saline. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 810-813	10.2	8
44	Severity scoring of lung oedema on the chest radiograph is associated with clinical outcomes in ARDS. <i>Thorax</i> , 2018 , 73, 840-846	7.3	134
43	Low- Versus High-Chloride Content Intravenous Solutions for Critically Ill and Perioperative Adult Patients: A Systematic Review and Meta-analysis. <i>Anesthesia and Analgesia</i> , 2018 , 126, 513-521	3.9	19

42	2034 Effect of balanced crystalloids on renal outcomes among critically ill adults does not differ from 0.9% saline across baseline risk of renal outcomes. <i>Journal of Clinical and Translational Science</i> , 2018 , 2, 42-42	0.4	78
41	Resuscitation fluids. <i>Current Opinion in Critical Care</i> , 2018 , 24, 512-518	3.5	14
40	Validation of a Sequential Organ Failure Assessment Score using Electronic Health Record Data. <i>Journal of Medical Systems</i> , 2018 , 42, 199	5.1	6
39	Balanced Crystalloids versus Saline in Critically Ill Adults. <i>New England Journal of Medicine</i> , 2018 , 378, 1951	59.2	27
38	Response. <i>Chest</i> , 2018 , 153, 1506	5.3	
37	Saline versus balanced crystalloids for intravenous fluid therapy in the emergency department: study protocol for a cluster-randomized, multiple-crossover trial. <i>Trials</i> , 2017 , 18, 178	2.8	14
36	Preadmission Oral Corticosteroids Are Associated With Reduced Risk of Acute Respiratory Distress Syndrome in Critically Ill Adults With Sepsis. <i>Critical Care Medicine</i> , 2017 , 45, 774-780	1.4	11
35	A Multicenter, Randomized Trial of Ramped Position vs Sniffing Position During Endotracheal Intubation of Critically Ill Adults. <i>Chest</i> , 2017 , 152, 712-722	5.3	63
34	The authors reply. <i>Critical Care Medicine</i> , 2017 , 45, e463	1.4	
33	Balanced crystalloids versus saline in the intensive care unit: study protocol for a cluster-randomized, multiple-crossover trial. <i>Trials</i> , 2017 , 18, 129	2.8	22
32	The authors reply. <i>Critical Care Medicine</i> , 2017 , 45, e461	1.4	
31	Comparison of Etomidate and Ketamine for Induction During Rapid Sequence Intubation of Adult Trauma Patients. <i>Annals of Emergency Medicine</i> , 2017 , 69, 24-33.e2	2.1	52
30	Effect of an Early Resuscitation Protocol on In-hospital Mortality Among Adults With Sepsis and Hypotension: A Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , 2017 , 318, 1233-1240	27.4	190
29	Derivation and validation of a two-biomarker panel for diagnosis of ARDS in patients with severe traumatic injuries. <i>Trauma Surgery and Acute Care Open</i> , 2017 , 2, e000121	2.4	18
28	Predicting Major Adverse Kidney Events among Critically Ill Adults Using the Electronic Health Record. <i>Journal of Medical Systems</i> , 2017 , 41, 156	5.1	8
27	The authors reply. <i>Critical Care Medicine</i> , 2017 , 45, e326-e327	1.4	
26	Balanced Crystalloids versus Saline in the Intensive Care Unit. The SALT Randomized Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017 , 195, 1362-1372	10.2	124
25	Efficacy and Outcomes After Vasopressin Guideline Implementation in Septic Shock. <i>Annals of Pharmacotherapy</i> , 2017 , 51, 13-20	2.9	24

24	Response. <i>Chest</i> , 2017 , 152, 1351		5.3
23	Response. <i>Chest</i> , 2017 , 152, 1092-1093		5.3
22	Randomized Trial of Video Laryngoscopy for Endotracheal Intubation of Critically Ill Adults. <i>Critical Care Medicine</i> , 2016 , 44, 1980-1987	1.4	57
21	Impact of Initial Central Venous Pressure on Outcomes of Conservative Versus Liberal Fluid Management in Acute Respiratory Distress Syndrome. <i>Critical Care Medicine</i> , 2016 , 44, 782-9	1.4	42
20	Reply: Apneic Oxygenation Has Not Been Disproven. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 193, 1316-7	10.2	
19	Sepsis Resuscitation: Fluid Choice and Dose. <i>Clinics in Chest Medicine</i> , 2016 , 37, 241-50	5.3	34
18	Randomized Trial of Apneic Oxygenation during Endotracheal Intubation of the Critically Ill. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 193, 273-80	10.2	140
17	Early goal-directed therapy in severe sepsis and septic shock: insights and comparisons to ProCESS, ProMISe, and ARISE. <i>Critical Care</i> , 2016 , 20, 160	10.8	85
16	Saline Is Not the First Choice for Crystalloid Resuscitation Fluids. <i>Critical Care Medicine</i> , 2016 , 44, 1541-4	1.4	33
15	Outcomes of Nurse Practitioner-Delivered Critical Care: A Prospective Cohort Study. <i>Chest</i> , 2016 , 149, 1146-54	5.3	44
14	B-Type Natriuretic Peptide, Aldosterone, and Fluid Management in ARDS. <i>Chest</i> , 2016 , 150, 102-11	5.3	15
13	Response. <i>Chest</i> , 2016 , 150, 746-7	5.3	
12	Dietary zinc alters the microbiota and decreases resistance to Clostridium difficile infection. <i>Nature Medicine</i> , 2016 , 22, 1330-1334	50.5	136
11	Identification of Major Adverse Kidney Events Within the Electronic Health Record. <i>Journal of Medical Systems</i> , 2016 , 40, 167	5.1	26
10	Leveraging Clinical Informatics in the Conduct of Clinical Trials. <i>Journal of Medical Systems</i> , 2015 , 39, 112	5.1	5
9	An Electronic Tool for the Evaluation and Treatment of Sepsis in the ICU: A Randomized Controlled Trial. <i>Critical Care Medicine</i> , 2015 , 43, 1595-602	1.4	47
8	149. <i>Critical Care Medicine</i> , 2015 , 43, 38-39	1.4	4
7	A standing dilemma: autonomic failure preceding Hodgkin's lymphoma. <i>American Journal of Medicine</i> , 2014 , 127, 284-7	2.4	2

6	694. <i>Critical Care Medicine</i> , 2014 , 42, A1527	1.4	
5	Flash mob research: a single-day, multicenter, resident-directed study of respiratory rate. <i>Chest</i> , 2013 , 143, 1740-1744	5.3	42
4	1078. <i>Critical Care Medicine</i> , 2013 , 41, A272	1.4	1
3	Randomized trial of automated, electronic monitoring to facilitate early detection of sepsis in the intensive care unit*. <i>Critical Care Medicine</i> , 2012 , 40, 2096-101	1.4	81
2	Balanced crystalloids compared to normal saline for fluid therapy in critically ill adult patients: Systematic review and meta-analysis protocol		1
1	Effect of Fluid Bolus Administration on Cardiovascular Collapse Among Critically Ill Patients Undergoing Tracheal Intubation. <i>JAMA - Journal of the American Medical Association</i> ,	27.4	5