

Matthew Semler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6063558/publications.pdf>

Version: 2024-02-01

129
papers

7,045
citations

109137

35
h-index

62479

80
g-index

132
all docs

132
docs citations

132
times ranked

9499
citing authors

#	ARTICLE	IF	CITATIONS
1	Balanced Crystalloids versus Saline in Critically Ill Adults. <i>New England Journal of Medicine</i> , 2018, 378, 829-839.	13.9	969
2	Factors Associated With Death in Critically Ill Patients With Coronavirus Disease 2019 in the US. <i>JAMA Internal Medicine</i> , 2020, 180, 1436.	2.6	711
3	Balanced Crystalloids versus Saline in Noncritically Ill Adults. <i>New England Journal of Medicine</i> , 2018, 378, 819-828.	13.9	652
4	Association Between Early Treatment With Tocilizumab and Mortality Among Critically Ill Patients With COVID-19. <i>JAMA Internal Medicine</i> , 2021, 181, 41.	2.6	385
5	Effect of Hydroxychloroquine on Clinical Status at 14 Days in Hospitalized Patients With COVID-19. <i>JAMA - Journal of the American Medical Association</i> , 2020, 324, 2165.	3.8	352
6	Effect of an Early Resuscitation Protocol on In-hospital Mortality Among Adults With Sepsis and Hypotension. <i>JAMA - Journal of the American Medical Association</i> , 2017, 318, 1233.	3.8	288
7	Severity scoring of lung oedema on the chest radiograph is associated with clinical outcomes in ARDS. <i>Thorax</i> , 2018, 73, 840-846.	2.7	244
8	Dietary zinc alters the microbiota and decreases resistance to <i>Clostridium difficile</i> infection. <i>Nature Medicine</i> , 2016, 22, 1330-1334.	15.2	201
9	Randomized Trial of Apneic Oxygenation during Endotracheal Intubation of the Critically Ill. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 273-280.	2.5	183
10	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.	2.5	183
11	Extracorporeal membrane oxygenation in patients with severe respiratory failure from COVID-19. <i>Intensive Care Medicine</i> , 2021, 47, 208-221.	3.9	143
12	Bag-Mask Ventilation during Tracheal Intubation of Critically Ill Adults. <i>New England Journal of Medicine</i> , 2019, 380, 811-821.	13.9	134
13	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.	2.5	129
14	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.	2.5	116
15	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.	0.3	115
16	Randomized trial of automated, electronic monitoring to facilitate early detection of sepsis in the intensive care unit*. <i>Critical Care Medicine</i> , 2012, 40, 2096-2101.	0.4	109
17	A Multicenter, Randomized Trial of Ramped Position vs Sniffing Position During Endotracheal Intubation of Critically Ill Adults. <i>Chest</i> , 2017, 152, 712-722.	0.4	92
18	Randomized Trial of Video Laryngoscopy for Endotracheal Intubation of Critically Ill Adults*. <i>Critical Care Medicine</i> , 2016, 44, 1980-1987.	0.4	91

#	ARTICLE	IF	CITATIONS
19	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.	2.0	89
20	Balanced Crystalloid Solutions. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 952-960.	2.5	86
21	Fluid Management in Sepsis. <i>Journal of Intensive Care Medicine</i> , 2019, 34, 364-373.	1.3	75
22	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.	5.2	73
23	An Electronic Tool for the Evaluation and Treatment of Sepsis in the ICU. <i>Critical Care Medicine</i> , 2015, 43, 1595-1602.	0.4	70
24	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.	0.3	69
25	Balanced Crystalloids versus Saline in Critically Ill Adults – A Systematic Review with Meta-Analysis. , 2022, 1, .		65
26	A Multicenter Randomized Trial of a Checklist for Endotracheal Intubation of Critically Ill Adults. <i>Chest</i> , 2018, 153, 816-824.	0.4	61
27	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, 782-789.	0.4	57
28	Randomized Clinical Trial of an ICU Recovery Pilot Program for Survivors of Critical Illness*. <i>Critical Care Medicine</i> , 2019, 47, 1337-1345.	0.4	57
29	Clinical Effects of Balanced Crystalloids vs Saline in Adults With Diabetic Ketoacidosis. <i>JAMA Network Open</i> , 2020, 3, e2024596.	2.8	56
30	Flash Mob Research. <i>Chest</i> , 2013, 143, 1740-1744.	0.4	55
31	Outcomes of Nurse Practitioner-Delivered Critical Care. <i>Chest</i> , 2016, 149, 1146-1154.	0.4	55
32	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. <i>JAMA - Journal of the American Medical Association</i> , 2021, 326, 2488.	3.8	49
33	Sepsis Resuscitation. <i>Clinics in Chest Medicine</i> , 2016, 37, 241-250.	0.8	48
34	Identification of Major Adverse Kidney Events Within the Electronic Health Record. <i>Journal of Medical Systems</i> , 2016, 40, 167.	2.2	46
35	Effect of Fluid Bolus Administration on Cardiovascular Collapse Among Critically Ill Patients Undergoing Tracheal Intubation. <i>JAMA - Journal of the American Medical Association</i> , 2022, 328, 270.	3.8	46
36	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.	1.5	41

#	ARTICLE	IF	CITATIONS
37	Balanced Crystalloids versus Saline in Critically Ill Adults. <i>New England Journal of Medicine</i> , 2018, 378, 1949-1951.	13.9	40
38	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, 202, 511-523.	2.5	40
39	Saline Is Not the First Choice for Crystalloid Resuscitation Fluids. <i>Critical Care Medicine</i> , 2016, 44, 1541-1544.	0.4	39
40	Resuscitation fluids. <i>Current Opinion in Critical Care</i> , 2018, 24, 512-518.	1.6	36
41	Association between Availability of Extracorporeal Membrane Oxygenation and Mortality in Patients with COVID-19 Eligible for Extracorporeal Membrane Oxygenation: A Natural Experiment. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 1354-1357.	2.5	36
42	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.	1.5	35
43	Balanced crystalloids versus saline in the intensive care unit: study protocol for a cluster-randomized, multiple-crossover trial. <i>Trials</i> , 2017, 18, 129.	0.7	30
44	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.	0.8	28
45	Efficacy and Outcomes After Vasopressin Guideline Implementation in Septic Shock. <i>Annals of Pharmacotherapy</i> , 2017, 51, 13-20.	0.9	28
46	Effect of Early Balanced Crystalloids Before ICU Admission on Sepsis Outcomes. <i>Chest</i> , 2021, 159, 585-595.	0.4	28
47	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.	0.7	26
48	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.	1.1	24
49	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.	1.5	24
50	Oxygen Toxicity in Critically Ill Adults. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 632-641.	2.5	23
51	Safety and Feasibility of a Protocolized Daily Assessment of Readiness for Liberation From Venovenous Extracorporeal Membrane Oxygenation. <i>Chest</i> , 2021, 160, 1693-1703.	0.4	22
52	Fluid Management in Acute Respiratory Distress Syndrome. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2019, 40, 057-065.	0.8	21
53	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, 7-7.	0.7	19
54	Predicting Major Adverse Kidney Events among Critically Ill Adults Using the Electronic Health Record. <i>Journal of Medical Systems</i> , 2017, 41, 156.	2.2	18

#	ARTICLE	IF	CITATIONS
55	Bleeding, Thromboembolism, and Clinical Outcomes in Venovenous Extracorporeal Membrane Oxygenation. , 2020, 2, e0267.		18
56	B-Type Natriuretic Peptide, Aldosterone, and Fluid Management in ARDS. Chest, 2016, 150, 102-111.	0.4	17
57	Balanced Crystalloids versus Saline in Critically Ill Adults with Hyperkalemia or Acute Kidney Injury: Secondary Analysis of a Clinical Trial. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 1322-1325.	2.5	17
58	Conservative Fluid Management After Sepsis Resuscitation: A Pilot Randomized Trial. Journal of Intensive Care Medicine, 2020, 35, 1374-1382.	1.3	16
59	Protocolized Postextubation Respiratory Support to Prevent Reintubation: A Randomized Clinical Trial. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 294-302.	2.5	15
60	Preadmission Oral Corticosteroids Are Associated With Reduced Risk of Acute Respiratory Distress Syndrome in Critically Ill Adults With Sepsis*. Critical Care Medicine, 2017, 45, 774-780.	0.4	14
61	Pneumomediastinum in Acute Respiratory Distress Syndrome from COVID-19. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 237-238.	2.5	13
62	Machine Learning Prediction of Death in Critically Ill Patients With Coronavirus Disease 2019. , 2021, 3, e0515.		12
63	149. Critical Care Medicine, 2015, 43, 38-39.	0.4	11
64	Best PEEP trials are dependent on tidal volume. Critical Care, 2018, 22, 115.	2.5	11
65	Validation of a Sequential Organ Failure Assessment Score using Electronic Health Record Data. Journal of Medical Systems, 2018, 42, 199.	2.2	10
66	Oxygen-Free Days as an Outcome Measure in Clinical Trials of Therapies for COVID-19 and Other Causes of New-Onset Hypoxemia. Chest, 2022, 162, 804-814.	0.4	10
67	Heterogeneity of Treatment Effect by Baseline Risk in a Trial of Balanced Crystalloids versus Saline. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 810-813.	2.5	9
68	Saline Compared to Balanced Crystalloid in Patients With Diabetic Ketoacidosis: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. , 2022, 4, e0613.		9
69	Effect of Early High-Dose Vitamin D3 Repletion on Cognitive Outcomes in Critically Ill Adults. Chest, 2021, 160, 909-918.	0.4	8
70	Risk Factors for Cardiovascular Collapse during Tracheal Intubation of Critically Ill Adults. Annals of the American Thoracic Society, 2020, 17, 1021-1024.	1.5	8
71	Systemic Inflammatory Response Syndrome After Cardiac Surgery. Chest, 2014, 145, 1181-1182.	0.4	7
72	Effect of balanced crystalloids versus saline on urinary biomarkers of acute kidney injury in critically ill adults. BMC Nephrology, 2021, 22, 54.	0.8	7

#	ARTICLE	IF	CITATIONS
73	Effect of Interhospital ICU Relocation on Patient Physiology and Clinical Outcomes. <i>Journal of Intensive Care Medicine</i> , 2019, 34, 1010-1016.	1.3	6
74	Balanced Crystalloid versus Saline in Adults with Traumatic Brain Injury: Secondary Analysis of a Clinical Trial. <i>Journal of Neurotrauma</i> , 2022, 39, 1159-1167.	1.7	6
75	Intravenous fluid therapy in sepsis. <i>Nutrition in Clinical Practice</i> , 2022, 37, 990-1003.	1.1	6
76	Leveraging Clinical Informatics in the Conduct of Clinical Trials. <i>Journal of Medical Systems</i> , 2015, 39, 112.	2.2	5
77	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.	0.8	5
78	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.	2.5	5
79	Oxygen Targets for Patients Who Are Critically Ill. <i>Chest</i> , 2020, 157, 487-488.	0.4	5
80	What can a learning healthcare system teach us about improving outcomes?. <i>Current Opinion in Critical Care</i> , 2021, 27, 527-536.	1.6	5
81	Impact of Clinician Recognition of Acute Respiratory Distress Syndrome on Evidenced-Based Interventions in the Medical ICU. , 2021, 3, e0457.		5
82	Tranexamic acid for refractory gastrointestinal bleeds: A cohort study. <i>Journal of Critical Care</i> , 2018, 43, 128-132.	1.0	4
83	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.	0.8	4
84	Protocolized Post-Extubation Respiratory Support to prevent reintubation: protocol and statistical analysis plan for a clinical trial. <i>BMJ Open</i> , 2019, 9, e030476.	0.8	4
85	How I manage a difficult intubation. <i>Critical Care</i> , 2019, 23, 177.	2.5	4
86	Time to First Culture Positivity Among Critically Ill Adults With Methicillin-Resistant <i>Staphylococcus aureus</i> Growth in Respiratory or Blood Cultures. <i>Annals of Pharmacotherapy</i> , 2020, 54, 131-137.	0.9	4
87	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.	0.8	4
88	Predicting Mortality for Patients Eligible for Extracorporeal Membrane Oxygenation for COVID-19. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 628-632.	2.5	4
89	Extracorporeal Membrane Oxygenation Selection by Multidisciplinary Consensus: The ECMO Council. <i>ASAIO Journal</i> , 2023, 69, 167-173.	0.9	4
90	A Standing Dilemma: Autonomic Failure Preceding Hodgkin's Lymphoma. <i>American Journal of Medicine</i> , 2014, 127, 284-287.	0.6	3

#	ARTICLE	IF	CITATIONS
91	Big Data for Clinical Trials: Automated Collection of SpO2 for a Trial of Oxygen Targets during Mechanical Ventilation. <i>Journal of Medical Systems</i> , 2020, 44, 153.	2.2	3
92	Renin, Angiotensin II, and the Journey to Evidence-based Individual Treatment Effects. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 1209-1211.	2.5	3
93	BOugie or stylet in patients UnderGoing Intubation Emergently (BOUGIE): protocol and statistical analysis plan for a randomised clinical trial. <i>BMJ Open</i> , 2021, 11, e047790.	0.8	3
94	Protocol and statistical analysis plan for the Pragmatic Investigation of optimal Oxygen Targets (PILOT) clinical trial. <i>BMJ Open</i> , 2021, 11, e052013.	0.8	3
95	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> , 2022, 37, 899-907.	1.3	3
96	Slow and Study. <i>Chest</i> , 2016, 149, 9-10.	0.4	2
97	Beginning of the End? End-tidal Oxygen as an Outcome in Airway Management Research. <i>EClinicalMedicine</i> , 2019, 13, 10-11.	3.2	2
98	Ventilation before intubation: how to prevent hypoxaemia?. <i>Lancet Respiratory Medicine</i> , 2019, 7, 284-285.	5.2	2
99	Charge Reductions Associated With Shorter Time to Recovery in Septic Shock. <i>Chest</i> , 2019, 155, 315-321.	0.4	2
100	1078. <i>Critical Care Medicine</i> , 2013, 41, A272.	0.4	1
101	667. <i>Critical Care Medicine</i> , 2015, 43, 168.	0.4	1
102	Walking on Water: Volume Overload and Ambulation in Survivors of Septic Shock. <i>Annals of the American Thoracic Society</i> , 2015, 12, 1745-1746.	1.5	1
103	If at First You Donâ€™t Succeed: Patient Characteristics Associated with First-Attempt Failure of Video Laryngoscopy in the Intensive Care Unit. <i>Annals of the American Thoracic Society</i> , 2017, 14, 305-306.	1.5	1
104	Hypothermia for the Treatment of Acute Respiratory Distress Syndrome? Cool It*. <i>Critical Care Medicine</i> , 2017, 45, 1244-1245.	0.4	1
105	Bag-Mask Ventilation during Tracheal Intubation of Critically Ill Adults. <i>New England Journal of Medicine</i> , 2019, 380, 2480-2482.	13.9	1
106	Sodium bicarbonate for severe metabolic acidaemia. <i>Lancet</i> , 2019, 393, 1414-1415.	6.3	1
107	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.	1.0	1
108	Respiratory Non-Invasive Venous Waveform Analysis for Assessment of Respiratory Distress in Coronavirus Disease 2019 Patients: An Observational Study. , 2021, 3, e0539.		1

#	ARTICLE	IF	CITATIONS
109	Simulation Versus Interactive Mobile Learning for Teaching Extracorporeal Membrane Oxygenation to Clinicians: A Randomized Trial. <i>Critical Care Medicine</i> , 2022, 50, e415-e425.	0.4	1
110	Back to BaSICS: Early Treatments Matter in Critical Illness. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 1372-1374.	2.5	1
111	694. <i>Critical Care Medicine</i> , 2014, 42, A1527.	0.4	0
112	259. <i>Critical Care Medicine</i> , 2015, 43, 66.	0.4	0
113	Response. <i>Chest</i> , 2016, 150, 746-747.	0.4	0
114	842: EFFICACY AND OUTCOMES OF A PRE- AND POST-VASOPRESSIN GUIDELINE IMPLEMENTATION. <i>Critical Care Medicine</i> , 2016, 44, 286-286.	0.4	0
115	Reply: Apneic Oxygenation Has Not Been Disproven. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 1316-1317.	2.5	0
116	The authors reply. <i>Critical Care Medicine</i> , 2017, 45, e463.	0.4	0
117	The authors reply. <i>Critical Care Medicine</i> , 2017, 45, e461.	0.4	0
118	The authors reply. <i>Critical Care Medicine</i> , 2017, 45, e326-e327.	0.4	0
119	Response. <i>Chest</i> , 2017, 152, 1351.	0.4	0
120	Response. <i>Chest</i> , 2017, 152, 1092-1093.	0.4	0
121	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.	3.8	0
122	Reply to Vincent and De Backer: We Do Not Appreciate SALT. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 1362-1362.	2.5	0
123	Response. <i>Chest</i> , 2018, 153, 1076-1077.	0.4	0
124	Response. <i>Chest</i> , 2018, 153, 568-569.	0.4	0
125	Early Resuscitation for Adults With Sepsis in a Low-income Country—Reply. <i>JAMA - Journal of the American Medical Association</i> , 2018, 319, 614.	3.8	0
126	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.	0.3	0

#	ARTICLE	IF	CITATIONS
127	Response. Chest, 2018, 153, 1506.	0.4	0
128	Reply to Gueret et al. and to Hammond et al.. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 1163-1164.	2.5	0
129	Intravenous Fluidsâ€™A Test Case for Learning Health Systems. JAMA Network Open, 2022, 5, e2210054.	2.8	0