

Carlo Alberto Volta

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

6,408
citations

101543

36
h-index

71685

76
g-index

135
all docs

135
docs citations

135
times ranked

7665
citing authors

#	ARTICLE	IF	CITATIONS
1	Focus on renal blood flow in mechanically ventilated patients with SARS-CoV-2: a prospective pilot study. <i>Journal of Clinical Monitoring and Computing</i> , 2022, 36, 161-167.	1.6	15
2	Associations Between Expiratory Flow Limitation and Postoperative Pulmonary Complications in Patients Undergoing Cardiac Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2022, 36, 815-824.	1.3	4
3	Phenotypic heterogeneity of COVID-19 pneumonia: clinical and pathophysiological relevance of the vascular phenotype. <i>ESC Heart Failure</i> , 2022, 9, 263-269.	3.1	3
4	The Underestimated Role of Platelets in Severe Infection a Narrative Review. <i>Cells</i> , 2022, 11, 424.	4.1	9
5	Clinical implications of microvascular CT scan signs in COVID-19 patients requiring invasive mechanical ventilation. <i>Radiologia Medica</i> , 2022, 127, 162-173.	7.7	9
6	Transparent decision support for mechanical ventilation using visualization of clinical preferences. <i>BioMedical Engineering OnLine</i> , 2022, 21, 5.	2.7	0
7	Over time relationship between platelet reactivity, myocardial injury and mortality in patients with SARS-CoV-2-associated respiratory failure. <i>Platelets</i> , 2021, 32, 560-567.	2.3	31
8	Physiological effects of two driving pressure-based methods to set positive end-expiratory pressure during one lung ventilation. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 1149-1157.	1.6	16
9	Sigh in Patients With Acute Hypoxemic Respiratory Failure and ARDS. <i>Chest</i> , 2021, 159, 1426-1436.	0.8	16
10	Enhanced Recovery Program in Laparoscopic Colorectal Surgery: An Observational Controlled Trial. <i>Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A</i> , 2021, 31, 363-370.	1.0	0
11	Platelet morphological indices on Intensive Care Unit admission predict mortality in septic but not in non-septic patients. <i>Minerva Anestesiologica</i> , 2021, 87, 184-192.	1.0	7
12	Markers of endothelial and epithelial pulmonary injury in mechanically ventilated COVID-19 ICU patients. <i>Critical Care</i> , 2021, 25, 74.	5.8	94
13	Time course of endothelial dysfunction markers and mortality in COVID-19 patients: A pilot study. <i>Clinical and Translational Medicine</i> , 2021, 11, e283.	4.0	41
14	Blood Interferon- γ Levels and Severity, Outcomes, and Inflammatory Profiles in Hospitalized COVID-19 Patients. <i>Frontiers in Immunology</i> , 2021, 12, 648004.	4.8	60
15	Co-Infections in Critically Ill Patients with or without COVID-19: A Comparison of Clinical Microbial Culture Findings. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 4358.	2.6	37
16	Sustained oxygenation improvement after first prone positioning is associated with liberation from mechanical ventilation and mortality in critically ill COVID-19 patients: a cohort study. <i>Annals of Intensive Care</i> , 2021, 11, 63.	4.6	44
17	Effect of Helmet Noninvasive Ventilation vs High-Flow Nasal Oxygen on Days Free of Respiratory Support in Patients With COVID-19 and Moderate to Severe Hypoxemic Respiratory Failure. <i>JAMA - Journal of the American Medical Association</i> , 2021, 325, 1731.	7.4	295
18	Quality of life of COVID-19 critically ill survivors after ICU discharge: 90 days follow-up. <i>Quality of Life Research</i> , 2021, 30, 2805-2817.	3.1	42

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19	Albumin replacement therapy in immunocompromised patients with sepsis – Secondary analysis of the ALBIOS trial. <i>Journal of Critical Care</i> , 2021, 63, 83-91.	2.2	1
20	Management of Intraoperative Mechanical Ventilation to Prevent Postoperative Complications after General Anesthesia: A Narrative Review. <i>Journal of Clinical Medicine</i> , 2021, 10, 2656.	2.4	9
21	Calculation of Transpulmonary Pressure From Regional Ventilation Displayed by Electrical Impedance Tomography in Acute Respiratory Distress Syndrome. <i>Frontiers in Physiology</i> , 2021, 12, 693736.	2.8	4
22	Respiratory Drive in Patients with Sepsis and Septic Shock: Modulation by High-flow Nasal Cannula. <i>Anesthesiology</i> , 2021, 135, 1066-1075.	2.5	16
23	Can Abdominal Muscle Ultrasonography During Spontaneous Breathing and Cough Predict Reintubation in Mechanically Ventilated Patients?. <i>Chest</i> , 2021, 160, 1163-1164.	0.8	2
24	Health-related quality of life profiles, trajectories, persistent symptoms and pulmonary function one year after ICU discharge in invasively ventilated COVID-19 patients, a prospective follow-up study. <i>Respiratory Medicine</i> , 2021, 189, 106665.	2.9	46
25	Circulating Skeletal Troponin During Weaning From Mechanical Ventilation and Their Association to Diaphragmatic Function: A Pilot Study. <i>Frontiers in Medicine</i> , 2021, 8, 770408.	2.6	2
26	Impaired platelet reactivity in patients with septic shock: a proof-of-concept study. <i>Platelets</i> , 2020, 31, 652-660.	2.3	7
27	Factors influencing liberation from mechanical ventilation in coronavirus disease 2019: multicenter observational study in fifteen Italian ICUs. <i>Journal of Intensive Care</i> , 2020, 8, 80.	2.9	67
28	Continuous assessment of neuro-ventilatory drive during 12h of pressure support ventilation in critically ill patients. <i>Critical Care</i> , 2020, 24, 652.	5.8	16
29	Personalized Positive End-Expiratory Pressure in Acute Respiratory Distress Syndrome: Comparison Between Optimal Distribution of Regional Ventilation and Positive Transpulmonary Pressure. <i>Critical Care Medicine</i> , 2020, 48, 1148-1156.	0.9	30
30	Gravitational distribution of regional opening and closing pressures, hysteresis and atelectrauma in ARDS evaluated by electrical impedance tomography. <i>Critical Care</i> , 2020, 24, 622.	5.8	16
31	Electrocardiographic features of 431 consecutive, critically ill COVID-19 patients: an insight into the mechanisms of cardiac involvement. <i>Europace</i> , 2020, 22, 1848-1854.	1.7	74
32	Fatigue of ICU Survivors, No Longer to Be Neglected. <i>Chest</i> , 2020, 158, 848-849.	0.8	4
33	Predictors of severe or lethal COVID-19, including Angiotensin Converting Enzyme inhibitors and Angiotensin II Receptor Blockers, in a sample of infected Italian citizens. <i>PLoS ONE</i> , 2020, 15, e0235248.	2.5	71
34	Spontaneous Breathing Patterns During Maximum Extracorporeal CO ₂ Removal in Subjects With Early Severe ARDS. <i>Respiratory Care</i> , 2020, 65, 911-919.	1.6	12
35	Pathophysiology of hypoxic-ischemic encephalopathy: a review of the past and a view on the future. <i>Acta Neurologica Belgica</i> , 2020, 120, 277-288.	1.1	98
36	Using arterial-venous oxygen difference to guide red blood cell transfusion strategy. <i>Critical Care</i> , 2020, 24, 160.	5.8	19

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37	A Physiological Point of View on Expiratory (Re)action during Mechanical Ventilation. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 1170-1172.	5.6	1
38	Prognostic factors in older patients admitted in ICU with diagnosis of abdominal sepsis (sepsis-3) Tj ETQq0 0 0 rgBT, Overlock 10 Tf 50	0.5	1
39	Title is missing!. , 2020, 15, e0235248.		0
40	Title is missing!. , 2020, 15, e0235248.		0
41	Title is missing!. , 2020, 15, e0235248.		0
42	Title is missing!. , 2020, 15, e0235248.		0
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44	Title is missing!. , 2020, 15, e0235248.		0
45	Title is missing!. , 2020, 15, e0235248.		0
46	Title is missing!. , 2020, 15, e0235248.		0
47	Electrical impedance tomography in perioperative medicine: careful respiratory monitoring for tailored interventions. BMC Anesthesiology, 2019, 19, 140.	1.8	38
48	Biomarkers for Acute Respiratory Distress syndrome and prospects for personalised medicine. Journal of Inflammation, 2019, 16, 1.	3.4	180
49	Routine practice in mechanical ventilation in cardiac surgery in Italy. Journal of Thoracic Disease, 2019, 11, 1571-1579.	1.4	15
50	Heterogeneity of regional inflection points from pressure-volume curves assessed by electrical impedance tomography. Critical Care, 2019, 23, 119.	5.8	31
51	Association between night-time surgery and occurrence of intraoperative adverse events and postoperative pulmonary complications. British Journal of Anaesthesia, 2019, 122, 361-369.	3.4	39
52	Hydroxyethyl Starch 130/0.4 Binds to Neutrophils Impairing Their Chemotaxis through a Mac-1 Dependent Interaction. International Journal of Molecular Sciences, 2019, 20, 817.	4.1	5
53	Point of Care Ultrasound to Identify Diaphragmatic Dysfunction after Thoracic Surgery. Anesthesiology, 2019, 131, 266-278.	2.5	38
54	Expiratory flow limitation in intensive care: prevalence and risk factors. Critical Care, 2019, 23, 395.	5.8	24

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55	Post-anaesthesia pulmonary complications after use of muscle relaxants (POPULAR): a multicentre, prospective observational study. <i>Lancet Respiratory Medicine</i> , 2019, 7, 129-140.	10.7	241
56	High-flow oxygen therapy in tracheostomized patients at high risk of weaning failure. <i>Annals of Intensive Care</i> , 2019, 9, 4.	4.6	31
57	The prognostic role of red blood cell distribution width in transfused and non-transfused critically ill patients. <i>Minerva Anestesiologica</i> , 2019, 85, 1159-1167.	1.0	11
58	Fast skeletal troponin I, but not the slow isoform, is increased in patients under statin therapy: a pilot study. <i>Biochemia Medica</i> , 2019, 29, 68-76.	2.7	5
59	An Open-Loop, Physiologic Model-Based Decision Support System Can Provide Appropriate Ventilator Settings. <i>Critical Care Medicine</i> , 2018, 46, e642-e648.	0.9	24
60	Impact of a colorectal enhanced recovery program implementation on clinical outcomes and institutional costs: A prospective cohort study with retrospective control. <i>International Journal of Surgery</i> , 2018, 53, 206-213.	2.7	13
61	Red Cell Distribution Width After Subarachnoid Hemorrhage. <i>Journal of Neurosurgical Anesthesiology</i> , 2018, 30, 319-327.	1.2	18
62	A prospective international observational prevalence study on prone positioning of ARDS patients: the APRONET (ARDS Prone Position Network) study. <i>Intensive Care Medicine</i> , 2018, 44, 22-37.	8.2	226
63	Physiologic Evaluation of Ventilation Perfusion Mismatch and Respiratory Mechanics at Different Positive End-expiratory Pressure in Patients Undergoing Protective One-lung Ventilation. <i>Anesthesiology</i> , 2018, 128, 531-538.	2.5	55
64	Positive end-expiratory pressure (PEEP) level to prevent expiratory flow limitation during cardiac surgery: study protocol for a randomized clinical trial (EFLcore study). <i>Trials</i> , 2018, 19, 654.	1.6	4
65	Capsaicin patch for persistent postoperative pain after thoracoscopic surgery, report of two cases. <i>Journal of Visualized Surgery</i> , 2018, 4, 51-51.	0.2	7
66	An open-loop, physiological model based decision support system can reduce pressure support while acting to preserve respiratory muscle function. <i>Journal of Critical Care</i> , 2018, 48, 407-413.	2.2	13
67	The effects of blood transfusion on red blood cell distribution width in critically ill patients: a pilot study. <i>Transfusion</i> , 2018, 58, 1863-1869.	1.6	27
68	High-flow nasal cannula oxygen therapy decreases postextubation neuroventilatory drive and work of breathing in patients with chronic obstructive pulmonary disease. <i>Critical Care</i> , 2018, 22, 180.	5.8	72
69	Variation of poorly ventilated lung units (silent spaces) measured by electrical impedance tomography to dynamically assess recruitment. <i>Critical Care</i> , 2018, 22, 26.	5.8	82
70	Impact of flow and temperature on patient comfort during respiratory support by high-flow nasal cannula. <i>Critical Care</i> , 2018, 22, 120.	5.8	88
71	Individualized, perioperative, hemodynamic goal-directed therapy in major abdominal surgery (iPEGASUS trial): study protocol for a randomized controlled trial. <i>Trials</i> , 2018, 19, 273.	1.6	14
72	A Versatile Ultrasound Simulation System for Education and Training in High-Fidelity Emergency Scenarios. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2017, 5, 1-9.	3.7	14

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73	Protective intraoperative ventilation with higher versus lower levels of positive end-expiratory pressure in obese patients (PROBESE): study protocol for a randomized controlled trial. <i>Trials</i> , 2017, 18, 202.	1.6	40
74	Critical care admission following elective surgery was not associated with survival benefit: prospective analysis of data from 27 countries. <i>Intensive Care Medicine</i> , 2017, 43, 971-979.	8.2	108
75	Epidemiology, practice of ventilation and outcome for patients at increased risk of postoperative pulmonary complications. <i>European Journal of Anaesthesiology</i> , 2017, 34, 492-507.	1.7	189
76	Physiologic Effects of High-Flow Nasal Cannula in Acute Hypoxemic Respiratory Failure. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 1207-1215.	5.6	390
77	Simulation Training for Residents Focused on Mechanical Ventilation. <i>Simulation in Healthcare</i> , 2017, 12, 349-355.	1.2	43
78	Optimum support by high-flow nasal cannula in acute hypoxemic respiratory failure: effects of increasing flow rates. <i>Intensive Care Medicine</i> , 2017, 43, 1453-1463.	8.2	180
79	The effects of storage of red blood cells on the development of postoperative infections after noncardiac surgery. <i>Transfusion</i> , 2017, 57, 2727-2737.	1.6	17
80	Lower airways inflammation in patients with ARDS measured using endotracheal aspirates: a pilot study. <i>BMJ Open Respiratory Research</i> , 2017, 4, e000222.	3.0	5
81	Typical patterns of expiratory flow and carbon dioxide in mechanically ventilated patients with spontaneous breathing. <i>Journal of Clinical Monitoring and Computing</i> , 2017, 31, 773-781.	1.6	5
82	Noninvasive Ventilation of Patients with Acute Respiratory Distress Syndrome. Insights from the LUNG SAFE Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 67-77.	5.6	456
83	Expiratory Flow Limitation as a Risk Factor for Pulmonary Complications After Major Abdominal Surgery. <i>Anesthesia and Analgesia</i> , 2017, 124, 524-530.	2.2	27
84	Can pre-procedure neuroaxial ultrasound improve the identification of the potential epidural space when compared with anatomical landmarks? A prospective randomized study. <i>Minerva Anestesiologica</i> , 2017, 83, 41-49.	1.0	14
85	Oxidative Stress and Endometriosis: A Systematic Review of the Literature. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-7.	4.0	190
86	Serum Gelatinases Levels in Multiple Sclerosis Patients during 21 Months of Natalizumab Therapy. <i>Disease Markers</i> , 2016, 2016, 1-7.	1.3	6
87	Interplay between Matrix Metalloproteinase-9, Matrix Metalloproteinase-2, and Interleukins in Multiple Sclerosis Patients. <i>Disease Markers</i> , 2016, 2016, 1-9.	1.3	31
88	Vaginal Lactoferrin Modulates PGE ₂ , MMP-9, MMP-2, and TIMP-1 Amniotic Fluid Concentrations. <i>Mediators of Inflammation</i> , 2016, 2016, 1-7.	3.0	14
89	Fatigue in intensive care survivors one year after discharge. <i>Health and Quality of Life Outcomes</i> , 2016, 14, 148.	2.4	33
90	Impact of an ERAS programme on clinical outcomes and institutional costs in elective laparoscopic and open colorectal resections. <i>Clinical Nutrition ESPEN</i> , 2016, 12, e47-e48.	1.2	1

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91	Effect of positive end-expiratory pressure on pulmonary shunt and dynamic compliance during abdominal surgery. <i>British Journal of Anaesthesia</i> , 2016, 116, 855-861.	3.4	51
92	In vivo calibration of esophageal pressure in the mechanically ventilated patient makes measurements reliable. <i>Critical Care</i> , 2016, 20, 98.	5.8	80
93	Can diaphragmatic ultrasonography performed during the T-tube trial predict weaning failure? The role of diaphragmatic rapid shallow breathing index. <i>Critical Care</i> , 2016, 20, 305.	5.8	82
94	Epidemiological characteristics, practice of ventilation, and clinical outcome in patients at risk of acute respiratory distress syndrome in intensive care units from 16 countries (PRoVENT): an international, multicentre, prospective study. <i>Lancet Respiratory Medicine</i> , 2016, 4, 882-893.	10.7	137
95	Bedside assessment of the effects of positive end-expiratory pressure on lung inflation and recruitment by the helium dilution technique and electrical impedance tomography. <i>Intensive Care Medicine</i> , 2016, 42, 1576-1587.	8.2	78
96	Global patient outcomes after elective surgery: prospective cohort study in 27 low-, middle- and high-income countries. <i>British Journal of Anaesthesia</i> , 2016, 117, 601-609.	3.4	400
97	The effect of an Enhanced Recovery Program in elective retroperitoneal abdominal aortic aneurysm repair. <i>Journal of Vascular Surgery</i> , 2016, 63, 888-894.	1.1	22
98	Anaesthesia and Emergency Laparoscopy. , 2016, , 185-201.		0
99	Diaphragmatic ultrasonography during spontaneous breathing trials in critically ill patients: Can it identify weaning failure?. , 2016, , .		0
100	Impact of an Enhanced Recovery after Surgery (ERAS) program on clinical outcomes and institutional costs in elective laparoscopic and open colorectal resections. <i>Journal of the American College of Surgeons</i> , 2015, 221, e61.	0.5	0
101	An unusual case of acute respiratory failure in a patient with pulmonary veins stenosis late after catheter ablation of atrial fibrillation: a case report and the review of the literature. <i>BMC Pulmonary Medicine</i> , 2015, 15, 128.	2.0	10
102	Impact of prolonged assisted ventilation on diaphragmatic efficiency: NAVA versus PSV. <i>Critical Care</i> , 2015, 20, 1.	5.8	208
103	Fluid challenges in intensive care: the FENICE study. <i>Intensive Care Medicine</i> , 2015, 41, 1529-1537.	8.2	442
104	TIMP-1 resistant matrix metalloproteinase-9 is the predominant serum active isoform associated with MRI activity in patients with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2015, 21, 1121-1130.	3.0	23
105	Evaluation of a protocol for vancomycin administration in critically patients with and without kidney dysfunction. <i>BMC Anesthesiology</i> , 2015, 15, 95.	1.8	26
106	A methodological approach for determination of maximal inspiratory pressure in patients undergoing invasive mechanical ventilation. <i>Minerva Anestesiologica</i> , 2015, 81, 33-8.	1.0	9
107	<i>Aeromonas sobria</i> necrotizing fasciitis and sepsis in an immunocompromised patient: a case report and review of the literature. <i>Journal of Medical Case Reports</i> , 2014, 8, 315.	0.8	24
108	Acute Respiratory Failure Onset in a Patient With Guillain-Barré Syndrome After Legionella-Associated Pneumonia. <i>Journal of Clinical Neuromuscular Disease</i> , 2014, 16, 74-78.	0.7	2

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109	Balanced and unbalanced solutions modulate the release of Matrix Metalloproteinase-9 (MMP-9) from neutrophils in response to inflammatory stimuli: an in vitro study. <i>Inflammation Research</i> , 2014, 63, 325-328.	4.0	2
110	The impact of an Enhanced Recovery After Surgery (ERAS) program in elective retroperitoneal abdominal aortic aneurism repair. <i>Journal of the American College of Surgeons</i> , 2014, 219, e58.	0.5	1
111	Hospital mortality of adults admitted to Intensive Care Units in hospitals with and without Intermediate Care Units: a multicentre European cohort study. <i>Critical Care</i> , 2014, 18, 551.	5.8	154
112	Effects of two different strategies of fluid administration on inflammatory mediators, plasma electrolytes and acid/base disorders in patients undergoing major abdominal surgery: a randomized double blind study. <i>Journal of Inflammation</i> , 2013, 10, 29.	3.4	27
113	Successful nasal intubation with a laryngeal nerve monitoring tube using bronchoscopy in a patient with plunging goiter: a case report. <i>BMC Research Notes</i> , 2013, 6, 467.	1.4	1
114	Body Fluid Management in Abdominal Surgery Patients. , 2013, , 93-103.		0
115	Matrix metalloproteinase-9 activity detected in body fluids is the result of two different enzyme forms. <i>Journal of Biochemistry</i> , 2012, 151, 493-499.	1.7	19
116	Pulmonary Function and Expiratory Flow Limitation in Acute Cervical Spinal Cord Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2012, 93, 1950-1956.	0.9	15
117	LMA Supreme [®] vs iâ€gel [®] a comparison of insertion success in novices. <i>Anaesthesia</i> , 2012, 67, 384-388.	3.8	42
118	Influence of Different Strategies of Volume Replacement on the Activity of Matrix Metalloproteinases. <i>Anesthesiology</i> , 2007, 106, 85-91.	2.5	34
119	Acute effects of hyperoxemia on dyspnoea and respiratory variables during pressure support ventilation. <i>Intensive Care Medicine</i> , 2006, 32, 223-229.	8.2	12
120	Weaning from mechanical ventilation. <i>Current Anaesthesia and Critical Care</i> , 2006, 17, 321-327.	0.3	1
121	The Effect of Volatile Anesthetics on Respiratory System Resistance in Patients with Chronic Obstructive Pulmonary Disease. <i>Anesthesia and Analgesia</i> , 2005, 100, 348-353.	2.2	43
122	Emotional and interpersonal factors are most important for patient satisfaction with anaesthesia. <i>Acta Anaesthesiologica Scandinavica</i> , 2005, 49, 735-742.	1.6	65
123	Respiratory function after aortic aneurysm repair: a comparison between retroperitoneal and transperitoneal approaches. <i>Intensive Care Medicine</i> , 2003, 29, 1258-1264.	8.2	14
124	Respiratory mechanics by least squares fitting in mechanically ventilated patients: application on flow-limited COPD patients. <i>Intensive Care Medicine</i> , 2002, 28, 48-52.	8.2	24
125	Responsiveness to intravenous administration of salbutamol in chronic obstructive pulmonary disease patients with acute respiratory failure. <i>Intensive Care Medicine</i> , 2001, 27, 1949-1953.	8.2	6
126	Predictors of weaning outcome in chronic obstructive pulmonary disease patients. <i>European Respiratory Journal</i> , 2000, 15, 656-662.	6.7	46

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127	Respiratory mechanics during and after anaesthesia for major vascular surgery. <i>Anaesthesia</i> , 1999, 54, 1041-1047.	3.8	5
128	Sustained Oxygenation Improvement After First Prone Positioning Is Associated with Liberation from Mechanical Ventilation and Survival in Critically Ill COVID-19 Patients: A Cohort Study. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0