

# Fernando Suarez Sipmann

## List of Publications by Citations

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101  
papers

3,960  
citations

27  
h-index

62  
g-index

114  
ext. papers

4,753  
ext. citations

4.4  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
101	Monitoring dead space during recruitment and PEEP titration in an experimental model. <i>Intensive Care Medicine</i> , <b>2006</b> , 32, 1863-71	14.5	577
100	Imbalances in regional lung ventilation: a validation study on electrical impedance tomography. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2004</b> , 169, 791-800	10.2	433
99	Bedside estimation of recruitable alveolar collapse and hyperdistension by electrical impedance tomography. <i>Intensive Care Medicine</i> , <b>2009</b> , 35, 1132-7	14.5	246
98	An early PEEP/FIO <sub>2</sub> trial identifies different degrees of lung injury in patients with acute respiratory distress syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2007</b> , 176, 795-804	10.2	215
97	Use of dynamic compliance for open lung positive end-expiratory pressure titration in an experimental study. <i>Critical Care Medicine</i> , <b>2007</b> , 35, 214-21	1.4	191
96	Rationale of dead space measurement by volumetric capnography. <i>Anesthesia and Analgesia</i> , <b>2012</b> , 114, 866-74	3.9	167
95	Clinical features, ventilatory management, and outcome of ARDS caused by COVID-19 are similar to other causes of ARDS. <i>Intensive Care Medicine</i> , <b>2020</b> , 46, 2200-2211	14.5	166
94	Open Lung Approach for the Acute Respiratory Distress Syndrome: A Pilot, Randomized Controlled Trial. <i>Critical Care Medicine</i> , <b>2016</b> , 44, 32-42	1.4	159
93	Effects of hydroxyethyl starch administration on renal function in critically ill patients. <i>British Journal of Anaesthesia</i> , <b>2007</b> , 98, 216-24	5.4	124
92	Lung recruitment improves the efficiency of ventilation and gas exchange during one-lung ventilation anesthesia. <i>Anesthesia and Analgesia</i> , <b>2004</b> , 98, 1604-1609	3.9	117
91	Regional lung perfusion estimated by electrical impedance tomography in a piglet model of lung collapse. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 225-36	3.7	100
90	Individualised perioperative open-lung approach versus standard protective ventilation in abdominal surgery (iPROVE): a randomised controlled trial. <i>Lancet Respiratory Medicine</i> , <b>2018</b> , 6, 193-203	35.1	89
89	Alveolar recruitment improves ventilatory efficiency of the lungs during anesthesia. <i>Canadian Journal of Anaesthesia</i> , <b>2004</b> , 51, 723-7	3	87
88	Alveolar recruitment improves ventilation during thoracic surgery: a randomized controlled trial. <i>British Journal of Anaesthesia</i> , <b>2012</b> , 108, 517-24	5.4	81
87	Assessment of PaO <sub>2</sub> /FIO <sub>2</sub> for stratification of patients with moderate and severe acute respiratory distress syndrome. <i>BMJ Open</i> , <b>2015</b> , 5, e006812	3	65
86	Volumetric capnography: the time has come. <i>Current Opinion in Critical Care</i> , <b>2014</b> , 20, 333-9	3.5	62
85	A Quantile Analysis of Plateau and Driving Pressures: Effects on Mortality in Patients With Acute Respiratory Distress Syndrome Receiving Lung-Protective Ventilation. <i>Critical Care Medicine</i> , <b>2017</b> , 45, 843-850	1.4	56

84	Veno-venous extracorporeal CO2 removal for the treatment of severe respiratory acidosis: pathophysiological and technical considerations. <i>Critical Care</i> , <b>2014</b> , 18, R124	10.8	52
83	Validation of Bohr dead space measured by volumetric capnography. <i>Intensive Care Medicine</i> , <b>2011</b> , 37, 870-4	14.5	51
82	Noninvasive monitoring of lung recruitment maneuvers in morbidly obese patients: the role of pulse oximetry and volumetric capnography. <i>Anesthesia and Analgesia</i> , <b>2014</b> , 118, 137-44	3.9	44
81	Early inflammation mainly affects normally and poorly aerated lung in experimental ventilator-induced lung injury*. <i>Critical Care Medicine</i> , <b>2014</b> , 42, e279-87	1.4	43
80	Capnography reflects ventilation/perfusion distribution in a model of acute lung injury. <i>Acta Anaesthesiologica Scandinavica</i> , <b>2011</b> , 55, 597-606	1.9	40
79	Non-invasive monitoring of central blood pressure by electrical impedance tomography: first experimental evidence. <i>Medical and Biological Engineering and Computing</i> , <b>2011</b> , 49, 409-15	3.1	39
78	Model fitting of volumetric capnograms improves calculations of airway dead space and slope of phase III. <i>Journal of Clinical Monitoring and Computing</i> , <b>2009</b> , 23, 197-206	2	39
77	Effect of pulmonary perfusion on the slopes of single-breath test of CO2. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 650-5	3.7	35
76	Lung recruitment and positive end-expiratory pressure have different effects on CO2 elimination in healthy and sick lungs. <i>Anesthesia and Analgesia</i> , <b>2010</b> , 111, 968-77	3.9	33
75	Advanced Uses of Pulse Oximetry for Monitoring Mechanically Ventilated Patients. <i>Anesthesia and Analgesia</i> , <b>2017</b> , 124, 62-71	3.9	29
74	Open lung approach versus standard protective strategies: Effects on driving pressure and ventilatory efficiency during anesthesia - A pilot, randomized controlled trial. <i>PLoS ONE</i> , <b>2017</b> , 12, e0177399	3.7	27
73	Lung inflammation persists after 27 hours of protective Acute Respiratory Distress Syndrome Network Strategy and is concentrated in the nondependent lung. <i>Critical Care Medicine</i> , <b>2015</b> , 43, e123-324	1.4	25
72	The Sensitivity and Specificity of Pulmonary Carbon Dioxide Elimination for Noninvasive Assessment of Fluid Responsiveness. <i>Anesthesia and Analgesia</i> , <b>2016</b> , 122, 1404-11	3.9	24
71	Reference values for volumetric capnography-derived non-invasive parameters in healthy individuals. <i>Journal of Clinical Monitoring and Computing</i> , <b>2013</b> , 27, 281-8	2	23
70	The accuracy of postoperative, non-invasive Air-Test to diagnose atelectasis in healthy patients after surgery: a prospective, diagnostic pilot study. <i>BMJ Open</i> , <b>2017</b> , 7, e015560	3	21
69	Pulmonary blood flow generates cardiogenic oscillations. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 167, 247-54	2.8	20
68	Efficacy of dexamethasone treatment for patients with the acute respiratory distress syndrome caused by COVID-19: study protocol for a randomized controlled superiority trial. <i>Trials</i> , <b>2020</b> , 21, 717	2.8	20
67	States of low pulmonary blood flow can be detected non-invasively at the bedside measuring alveolar dead space. <i>Journal of Clinical Monitoring and Computing</i> , <b>2012</b> , 26, 183-90	2	17

66	Corrections of Enghoff's dead space formula for shunt effects still overestimate Bohr's dead space. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 189, 99-105	2.8	16
65	Pressure safety range of barotrauma with lung recruitment manoeuvres: a randomised experimental study in a healthy animal model. <i>European Journal of Anaesthesiology</i> , <b>2013</b> , 30, 567-74	2.3	16
64	Programming pressure support ventilation in pediatric patients in ambulatory surgery with a laryngeal mask airway. <i>Anesthesia and Analgesia</i> , <b>2007</b> , 105, 1585-91, table of contents	3.9	16
63	Individualized lung recruitment maneuver guided by pulse-oximetry in anesthetized patients undergoing laparoscopy: a feasibility study. <i>Acta Anaesthesiologica Scandinavica</i> , <b>2018</b> , 62, 608-619	1.9	15
62	Feasibility of (68)Ga-labeled Siglec-9 peptide for the imaging of acute lung inflammation: a pilot study in a porcine model of acute respiratory distress syndrome. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2016</b> , 6, 18-31	2.2	15
61	A novel continuous capnodynamic method for cardiac output assessment in a porcine model of lung lavage. <i>Acta Anaesthesiologica Scandinavica</i> , <b>2015</b> , 59, 1022-31	1.9	14
60	Recruit the lung before titrating the right positive end-expiratory pressure to protect it. <i>Critical Care</i> , <b>2009</b> , 13, 134	10.8	14
59	High respiratory rate is associated with early reduction of lung edema clearance in an experimental model of ARDS. <i>Acta Anaesthesiologica Scandinavica</i> , <b>2016</b> , 60, 79-92	1.9	14
58	Effects of oxygen on post-surgical infections during an individualised perioperative open-lung ventilatory strategy: a randomised controlled trial. <i>British Journal of Anaesthesia</i> , <b>2020</b> , 124, 110-120	5.4	13
57	Lung recruitment improves right ventricular performance after cardiopulmonary bypass: A randomised controlled trial. <i>European Journal of Anaesthesiology</i> , <b>2017</b> , 34, 66-74	2.3	12
56	Adjusting tidal volume to stress index in an open lung condition optimizes ventilation and prevents overdistension in an experimental model of lung injury and reduced chest wall compliance. <i>Critical Care</i> , <b>2015</b> , 19, 9	10.8	12
55	Dead space during one-lung ventilation. <i>Current Opinion in Anaesthesiology</i> , <b>2015</b> , 28, 10-7	2.9	12
54	Real-time images of tidal recruitment using lung ultrasound. <i>The Ultrasound Journal</i> , <b>2015</b> , 7, 19		12
53	Photoplethysmographic characterization of vascular tone mediated changes in arterial pressure: an observational study. <i>Journal of Clinical Monitoring and Computing</i> , <b>2019</b> , 33, 815-824	2	12
52	A modified breathing pattern improves the performance of a continuous capnodynamic method for estimation of effective pulmonary blood flow. <i>Journal of Clinical Monitoring and Computing</i> , <b>2017</b> , 31, 717-725	2	11
51	Altering the mechanical scenario to decrease the driving pressure. <i>Critical Care</i> , <b>2015</b> , 19, 342	10.8	11
50	Performance of a capnodynamic method estimating effective pulmonary blood flow during transient and sustained hypercapnia. <i>Journal of Clinical Monitoring and Computing</i> , <b>2018</b> , 32, 311-319	2	11
49	Capnodynamic assessment of effective lung volume during cardiac output manipulations in a porcine model. <i>Journal of Clinical Monitoring and Computing</i> , <b>2016</b> , 30, 761-769	2	11

48	Alveolar recruitment during mechanical ventilation [Where are we in 2013?]. <i>Trends in Anaesthesia and Critical Care</i> , <b>2013</b> , 3, 238-245	0.4	11
47	Suctioning through a double-lumen endotracheal tube helps to prevent alveolar collapse and to preserve ventilation. <i>Intensive Care Medicine</i> , <b>2005</b> , 31, 431-40	14.5	11
46	Rationale and Study Design for an Individualized Perioperative Open Lung Ventilatory Strategy in Patients on One-Lung Ventilation (iPROVE-OLV). <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , <b>2019</b> , 33, 2492-2502	2.1	11
45	Dead space analysis at different levels of positive end-expiratory pressure in acute respiratory distress syndrome patients. <i>Journal of Critical Care</i> , <b>2018</b> , 45, 231-238	4	10
44	Postural lung recruitment assessed by lung ultrasound in mechanically ventilated children. <i>The Ultrasound Journal</i> , <b>2017</b> , 9, 22		9
43	Heart-lung interactions in acute respiratory distress syndrome: pathophysiology, detection and management strategies. <i>Annals of Translational Medicine</i> , <b>2018</b> , 6, 27	3.2	9
42	The Open Lung Approach Improves Pulmonary Vascular Mechanics in an Experimental Model of Acute Respiratory Distress Syndrome. <i>Critical Care Medicine</i> , <b>2017</b> , 45, e298-e305	1.4	7
41	Alveolar Recruitment Maneuvers for One-Lung Ventilation During Thoracic Anesthesia. <i>Current Anesthesiology Reports</i> , <b>2014</b> , 4, 160-169	1	7
40	Pulmonary artery pulsatility is the main cause of cardiogenic oscillations. <i>Journal of Clinical Monitoring and Computing</i> , <b>2013</b> , 27, 47-53	2	6
39	Open lung approach ventilation abolishes the negative effects of respiratory rate in experimental lung injury. <i>Acta Anaesthesiologica Scandinavica</i> , <b>2016</b> , 60, 1131-41	1.9	6
38	Neurally adjusted ventilatory assist in patients with acute respiratory failure: study protocol for a randomized controlled trial. <i>Trials</i> , <b>2016</b> , 17, 500	2.8	6
37	Performance of a capnodynamic method estimating cardiac output during respiratory failure - before and after lung recruitment. <i>Journal of Clinical Monitoring and Computing</i> , <b>2020</b> , 34, 1199-1207	2	5
36	Awake Prone Positioning Does Not Reduce the Risk of Intubation in COVID-19 Treated with High-Flow Nasal Oxygen Therapy. A Multicenter, Adjusted Cohort Study		4
35	A noninvasive postoperative clinical score to identify patients at risk for postoperative pulmonary complications: the Air-Test Score. <i>Minerva Anestesiologica</i> , <b>2020</b> , 86, 404-415	1.9	4
34	Multimodal non-invasive monitoring to apply an open lung approach strategy in morbidly obese patients during bariatric surgery. <i>Journal of Clinical Monitoring and Computing</i> , <b>2020</b> , 34, 1015-1024	2	4
33	Standardized Unloading of Respiratory Muscles during Neurally Adjusted Ventilatory Assist: A Randomized Crossover Pilot Study. <i>Anesthesiology</i> , <b>2018</b> , 129, 769-777	4.3	4
32	New modes of assisted mechanical ventilation. <i>Medicina Intensiva (English Edition)</i> , <b>2014</b> , 38, 249-260	0.2	3
31	Rationale and study design for an individualised perioperative open-lung ventilatory strategy with a high versus conventional inspiratory oxygen fraction (iPROVE-O2) and its effects on surgical site infection: study protocol for a randomised controlled trial. <i>BMJ Open</i> , <b>2017</b> , 7, e016765	3	3

30	THAM reduces CO2-associated increase in pulmonary vascular resistance - an experimental study in lung-injured piglets. <i>Critical Care</i> , <b>2015</b> , 19, 331	10.8	3
29	Prevention of atelectasis by continuous positive airway pressure in anaesthetised children: A randomised controlled study. <i>European Journal of Anaesthesiology</i> , <b>2021</b> , 38, 41-48	2.3	3
28	Awake prone positioning does not reduce the risk of intubation in COVID-19 treated with High-Flow Nasal Oxygen therapy. A multicenter, adjusted cohort study		3
27	Intraoperative open lung condition and postoperative pulmonary complications. A secondary analysis of iPROVE and iPROVE-O2 trials. <i>Acta Anaesthesiologica Scandinavica</i> , <b>2021</b> ,	1.9	3
26	Clinical perspectives of "the open lung concept". <i>Minerva Anestesiologica</i> , <b>1999</b> , 65, 310-2	1.9	3
25	Clinical and experimental validation of a capnodynamic method for end-expiratory lung volume assessment. <i>Acta Anaesthesiologica Scandinavica</i> , <b>2020</b> , 64, 670-676	1.9	2
24	Intraoperative Ventilation Strategies to Reduce Pulmonary Complications in Obese Patients. <i>JAMA - Journal of the American Medical Association</i> , <b>2019</b> , 322, 1828	27.4	2
23	New modes of assisted mechanical ventilation. <i>Medicina Intensiva</i> , <b>2014</b> , 38, 249-60	1.2	2
22	Effects on Pulmonary Vascular Mechanics of Two Different Lung-Protective Ventilation Strategies in an Experimental Model of Acute Respiratory Distress Syndrome. <i>Critical Care Medicine</i> , <b>2017</b> , 45, e1157-e1164	1.4	2
21	Unsuccessful and Successful Clinical Trials in Acute Respiratory Distress Syndrome: Addressing Physiology-Based Gaps.. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 774025	4.6	2
20	Monitoring Expired CO Kinetics to Individualize Lung-Protective Ventilation in Patients With the Acute Respiratory Distress Syndrome.. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 785014	4.6	2
19	Continuous monitoring of intrinsic PEEP based on expired CO kinetics: an experimental validation study. <i>Critical Care</i> , <b>2019</b> , 23, 192	10.8	1
18	Continuous Non-invasive Monitoring of Cardiac Output and Lung Volume Based on CO2 Kinetics. <i>Annual Update in Intensive Care and Emergency Medicine</i> , <b>2019</b> , 215-229	0.2	1
17	0985. Open lung ventilation improves conditions for right ventricle performance by decreasing pulmonary vascular wave reflections in an experimental model of ARDS. <i>Intensive Care Medicine Experimental</i> , <b>2014</b> , 2,	3.7	1
16	Reply to Hellige and Hahn and Hellige. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 2128-2128	3.7	1
15	Validation of Bohr dead space measured by volumetric capnography: reply to Graf. <i>Intensive Care Medicine</i> , <b>2011</b> , 37, 1397-1398	14.5	1
14	Volumetric Capnography for Monitoring Lung Function During Mechanical Ventilation. <i>Yearbook of Intensive Care and Emergency Medicine</i> , <b>2006</b> , 458-467		1
13	Bedside estimation of recruitable alveolar collapse and hyperdistension by electrical impedance tomography <b>2012</b> , 165-170		1

12	Validation of Bohr dead space measured by volumetric capnography <b>2012</b> , 195-199		1
11	Comparison between capnodynamic and thermodilution method for cardiac output monitoring during major abdominal surgery: An observational study. <i>European Journal of Anaesthesiology</i> , <b>2021</b> , 38, 1242-1252	2.3	1
10	Doppler images of intra-pulmonary shunt within atelectasis in anesthetized children. <i>The Ultrasound Journal</i> , <b>2016</b> , 8, 19		1
9	Sequential lateral positioning as a new lung recruitment maneuver: an exploratory study in early mechanically ventilated Covid-19 ARDS patients.. <i>Annals of Intensive Care</i> , <b>2022</b> , 12, 13	8.9	0
8	Positive end-expiratory pressure individualization guided by continuous end-expiratory lung volume monitoring during laparoscopic surgery.. <i>Journal of Clinical Monitoring and Computing</i> , <b>2021</b> , 1	2	0
7	Protective Ventilation during Anesthesia: Too Soon for Final Recommendations. <i>Anesthesiology</i> , <b>2015</b> , 123, 1478-9	4.3	
6	201. <i>Critical Care Medicine</i> , <b>2013</b> , 41, A45		1.4
5	202. <i>Critical Care Medicine</i> , <b>2013</b> , 41, A45		1.4
4	329. <i>Critical Care Medicine</i> , <b>2013</b> , 41, A77		1.4
3	Volumetric Capnography for Monitoring Lung Function during Mechanical Ventilation <b>2006</b> , 458-467		
2	In Response. <i>Anesthesia and Analgesia</i> , <b>2016</b> , 123, 1332-1333		3.9
1	Reply to: alveolar recruitment manoeuvres after cardiac surgery. <i>European Journal of Anaesthesiology</i> , <b>2018</b> , 35, 62-63	2.3	