

# Eduardo L V Costa

## List of Publications by Year in descending order

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Version: 2024-02-01

93  
papers

6,651  
citations

172386

29  
h-index

64755

79  
g-index

96  
all docs

96  
docs citations

96  
times ranked

6642  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Intraoperative open lung condition and postoperative pulmonary complications. A secondary analysis of iPROVE and iPROVE+O <sub>2</sub> trials. <i>Acta Anaesthesiologica Scandinavica</i> , 2022, 66, 30-39.                              | 0.7 | 7         |
| 2  | Prone Positioning During Venovenous Extracorporeal Membrane Oxygenation*. <i>Critical Care Medicine</i> , 2022, 50, 343-345.  | 0.4 | 0         |
| 3  | Controlled Mechanical Ventilation: Modes and Monitoring. , 2022, , 37-48.   |     | 1         |
| 4  | Phrenic Nerve Block and Respiratory Effort in Pigs and Critically Ill Patients with Acute Lung Injury. <i>Anesthesiology</i> , 2022, 136, 763-778.  | 1.3 | 0         |
| 5  | Burnout syndrome in intensive care physicians in time of the COVID-19: a cross-sectional study. <i>BMJ Open</i> , 2022, 12, e057272.  | 0.8 | 8         |
| 6  | Lung perfusion during veno-venous extracorporeal membrane oxygenation in a model of hypoxemic respiratory failure. <i>Intensive Care Medicine Experimental</i> , 2022, 10, 15.  | 0.9 | 3         |
| 7  | Association between intraoperative tidal volume and postoperative respiratory complications is dependent on respiratory elastance: a retrospective, multicentre cohort study. <i>British Journal of Anaesthesia</i> , 2022, 129, 263-272. | 1.5 | 15        |
| 8  | Caring for patients at risk of ARDS: the role of driving pressure. <i>Jornal Brasileiro De Pneumologia</i> , 2021, 47, e20210013-e20210013.   | 0.4 | 0         |
| 9  | What is the optimal large airway size reduction value to determine malacia: exploratory bronchoscopic analysis in patients in Mounier-Kuhn syndrome. <i>Journal of Thoracic Disease</i> , 2021, 13, 425-429.                              | 0.6 | 0         |
| 10 | Electrical impedance tomography in pulmonary arterial hypertension. <i>PLoS ONE</i> , 2021, 16, e0248214.   | 1.1 | 6         |
| 11 | Effect of Lowering V <sub>t</sub> on Mortality in Acute Respiratory Distress Syndrome Varies with Respiratory System Elastance. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 1378-1385.                 | 2.5 | 118       |
| 12 | Reply to Tobin. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 869-870.   | 2.5 | 4         |
| 13 | Reply to Camporota etÂal.: The 4DPRR Index and Mechanical Power: A Step Ahead or 4 Steps Backward?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 492-493.   | 2.5 | 0         |
| 14 | Ventilatory Variables and Mechanical Power in Patients with Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 303-311.  | 2.5 | 148       |
| 15 | Protective ventilation and outcomes of critically ill patients with COVID-19: a cohort study. <i>Annals of Intensive Care</i> , 2021, 11, 92.   | 2.2 | 42        |
| 16 | Cancer-Related Characteristics Associated With Invasive Mechanical Ventilation or In-Hospital Mortality in Patients With COVID-19 Admitted to ICU: A Cohort Multicenter Study. <i>Frontiers in Oncology</i> , 2021, 11, 746431.           | 1.3 | 2         |
| 17 | Outcomes and prognostic factors of decompensated pulmonary hypertension in the intensive care unit. <i>Respiratory Medicine</i> , 2021, 190, 106685.  | 1.3 | 11        |
| 18 | Mechanical ventilation during thoracic surgery: towards individualized medicine. <i>Annals of Translational Medicine</i> , 2020, 8, 842-842.  | 0.7 | 0         |

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|----|---|-----|-----------|
| 19 | Effect of Dexamethasone on Days Alive and Ventilator-Free in Patients With Moderate or Severe Acute Respiratory Distress Syndrome and COVID-19. JAMA - Journal of the American Medical Association, 2020, 324, 1307.  | 3.8 | 983       |
| 20 | Lung Recruitment and Pendelluft Resolution after Less Invasive Surfactant Administration in a Preterm Infant. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 766-769.   | 2.5 | 4         |
| 21 | Inflammatory Activity in Atelectatic and Normally Aerated Regions During Early Acute Lung Injury. Academic Radiology, 2020, 27, 1679-1690.  | 1.3 | 1         |
| 22 | Epidemiology, outcomes, and the use of intensive care unit resources of critically ill patients diagnosed with COVID-19 in Sao Paulo, Brazil: A cohort study. PLoS ONE, 2020, 15, e0243269.   | 1.1 | 13        |
| 23 | Improving Airways Patency and Ventilation Through Optimal Positive Pressure Identified by Noninvasive Mechanical Ventilation Titration in Mounier-Kuhn Syndrome: Protocol for an Interventional, Open-Label, Single-Arm Clinical Trial. JMIR Research Protocols, 2020, 9, e14786. | 0.5 | 2         |
| 24 | Impact of a respiratory ICU rotation on resident knowledge and confidence in managing mechanical ventilation. Jornal Brasileiro De Pneumologia, 2020, 46, e20190108-e20190108.  | 0.4 | 3         |
| 25 | Title is missing!. , 2020, 15, e0243269.  |     | 0         |
| 26 | Title is missing!. , 2020, 15, e0243269.  |     | 0         |
| 27 | Title is missing!. , 2020, 15, e0243269.  |     | 0         |
| 28 | Title is missing!. , 2020, 15, e0243269.  |     | 0         |
| 29 | Pendelluft Detection Using Electrical Impedance Tomography in an Infant. Keep Those Images in Mind. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 1427-1429.   | 2.5 | 9         |
| 30 | High PEEP may have reduced injurious transpulmonary pressure swings in the ROSE trial. Critical Care, 2019, 23, 404.  | 2.5 | 10        |
| 31 | High Positive End-Expiratory Pressure Renders Spontaneous Effort Noninjurious. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 1285-1296.  | 2.5 | 156       |
| 32 | Esophageal Manometry and Regional Transpulmonary Pressure in Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 1018-1026.   | 2.5 | 161       |
| 33 | Does Regional Lung Strain Correlate With Regional Inflammation in Acute Respiratory Distress Syndrome During Nonprotective Ventilation? An Experimental Porcine Study*. Critical Care Medicine, 2018, 46, e591-e599.  | 0.4 | 44        |
| 34 | Estimation of Stroke Volume and Stroke Volume Changes by Electrical Impedance Tomography. Anesthesia and Analgesia, 2018, 126, 102-110.   | 1.1 | 16        |
| 35 | Electrical impedance tomography in acute respiratory distress syndrome. Critical Care, 2018, 22, 263.   | 2.5 | 112       |
| 36 | Transportation of patients on extracorporeal membrane oxygenation: a tertiary medical center experience and systematic review of the literature. Annals of Intensive Care, 2017, 7, 14.   | 2.2 | 35        |

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|----|---|------|-----------|
| 37 | Monitoring of Pneumothorax Appearance with Electrical Impedance Tomography during Recruitment Maneuvers. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 1070-1073.  | 2.5  | 19        |
| 38 | Monitoring the electric activity of the diaphragm during noninvasive positive pressure ventilation: a case report. <i>BMC Pulmonary Medicine</i> , 2017, 17, 91.  | 0.8  | 2         |
| 39 | Effect of continuous dialysis on blood pH in acidemic hypercapnic animals with severe acute kidney injury: a randomized experimental study comparing high vs. low bicarbonate affluent. <i>Intensive Care Medicine Experimental</i> , 2017, 5, 28.                              | 0.9  | 3         |
| 40 | Extracorporeal respiratory support in adult patients. <i>Jornal Brasileiro De Pneumologia</i> , 2017, 43, 60-70.  | 0.4  | 11        |
| 41 | Physiologic effects of alveolar recruitment and inspiratory pauses during moderately-high-frequency ventilation delivered by a conventional ventilator in a severe lung injury model. <i>PLoS ONE</i> , 2017, 12, e0185769.   | 1.1  | 2         |
| 42 | Noninvasive ventilation for acute respiratory distress syndrome: the importance of ventilator settings. <i>Journal of Thoracic Disease</i> , 2016, 8, E982-E986.  | 0.6  | 14        |
| 43 | Spontaneous Effort During Mechanical Ventilation: Maximal Injury With Less Positive End-Expiratory Pressure*. <i>Critical Care Medicine</i> , 2016, 44, e678-e688.  | 0.4  | 142       |
| 44 | Associations between ventilator settings during extracorporeal membrane oxygenation for refractory hypoxemia and outcome in patients with acute respiratory distress syndrome: a pooled individual patient data analysis. <i>Intensive Care Medicine</i> , 2016, 42, 1672-1684. | 3.9  | 176       |
| 45 | Kinetics of arterial carbon dioxide during veno-venous extracorporeal membrane oxygenation support in an apnoeic porcine model. <i>Intensive Care Medicine Experimental</i> , 2016, 4, 1.   | 0.9  | 18        |
| 46 | Association between driving pressure and development of postoperative pulmonary complications in patients undergoing mechanical ventilation for general anaesthesia: a meta-analysis of individual patient data. <i>Lancet Respiratory Medicine</i> , 2016, 4, 272-280.         | 5.2  | 404       |
| 47 | Factors associated with blood oxygen partial pressure and carbon dioxide partial pressure regulation during respiratory extracorporeal membrane oxygenation support: data from a swine model. <i>Revista Brasileira De Terapia Intensiva</i> , 2016, 28, 11-8.                  | 0.1  | 9         |
| 48 | Adjunctive therapy with inhaled nitric oxide for severe acute chest syndrome in patients with sickle cell disease. <i>Intensive Care Medicine</i> , 2015, 41, 2213-2215.  | 3.9  | 1         |
| 49 | Driving Pressure as a Key Ventilation Variable. <i>New England Journal of Medicine</i> , 2015, 372, 2071-2072.  | 13.9 | 6         |
| 50 | Driving Pressure and Survival in the Acute Respiratory Distress Syndrome. <i>New England Journal of Medicine</i> , 2015, 372, 747-755.  | 13.9 | 1,905     |
| 51 | 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> , 2015, 43, e123-e132.   | 0.4  | 30        |
| 52 | Humidification During Invasive Mechanical Ventilation: Less Lung Inflammation With Optimal Gas Conditioning. <i>Respiratory Care</i> , 2015, 60, 1854-1855.   | 0.8  | 7         |
| 53 | Correlation of Lung Collapse and Gas Exchange - A Computer Tomographic Study in Sheep and Pigs with Atelectasis in Otherwise Normal Lungs. <i>PLoS ONE</i> , 2015, 10, e0135272.  | 1.1  | 12        |
| 54 | Blood flow/pump rotation ratio as an artificial lung performance monitoring tool during extracorporeal respiratory support using centrifugal pumps. <i>Revista Brasileira De Terapia Intensiva</i> , 2015, 27, 178-84.  | 0.1  | 5         |

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|----|--|-----|-----------|
| 55 | A look at the diastolic function in severe sepsis and septic shock. <i>Revista Brasileira De Terapia Intensiva</i> , 2015, 27, 307-8.  | 0.1 | 6         |
| 56 | Tracheobronchomalacia in a patient on invasive mechanical ventilation: the role of electrical impedance tomography in its detection and positive end-expiratory pressure titration. <i>Jornal Brasileiro De Pneumologia</i> , 2015, 41, 203-205. | 0.4 | 1         |
| 57 | Severe hypoxemia during veno-venous extracorporeal membrane oxygenation: exploring the limits of extracorporeal respiratory support. <i>Clinics</i> , 2014, 69, 173-178.   | 0.6 | 38        |
| 58 | Performance of ICU ventilators during noninvasive ventilation with large leaks in a total face mask: a bench study. <i>Jornal Brasileiro De Pneumologia</i> , 2014, 40, 294-303.   | 0.4 | 12        |
| 59 | Moderately high frequency ventilation with a conventional ventilator allows reduction of tidal volume without increasing mean airway pressure. <i>Intensive Care Medicine Experimental</i> , 2014, 2, 13.  | 0.9 | 3         |
| 60 | Early Inflammation Mainly Affects Normally and Poorly Aerated Lung in Experimental Ventilator-Induced Lung Injury*. <i>Critical Care Medicine</i> , 2014, 42, e279-e287.   | 0.4 | 56        |
| 61 | Effect of Local Tidal Lung Strain on Inflammation in Normal and Lipopolysaccharide-Exposed Sheep*. <i>Critical Care Medicine</i> , 2014, 42, e491-e500.  | 0.4 | 90        |
| 62 | The economic effect of extracorporeal membrane oxygenation to support adults with severe respiratory failure in Brazil: a hypothetical analysis. <i>Revista Brasileira De Terapia Intensiva</i> , 2014, 26, 253-62.                              | 0.1 | 18        |
| 63 | Diaphragmatic Electrical Activity. <i>Anesthesiology</i> , 2014, 121, 447-449.   | 1.3 | 0         |
| 64 | Extracorporeal membrane oxygenation for severe respiratory failure in adult patients: A systematic review and meta-analysis of current evidence. <i>Journal of Critical Care</i> , 2013, 28, 998-1005.   | 1.0 | 49        |
| 65 | Ultra-protective tidal volume: how low should we go?. <i>Critical Care</i> , 2013, 17, 127.  | 2.5 | 13        |
| 66 | Spontaneous Effort Causes Occult Pendelluft during Mechanical Ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 1420-1427.   | 2.5 | 391       |
| 67 | The new definition for acute lung injury and acute respiratory distress syndrome. <i>Current Opinion in Critical Care</i> , 2013, 19, 16-23.   | 1.6 | 56        |
| 68 | Regional Lung Derecruitment and Inflammation during 16 Hours of Mechanical Ventilation in Supine Healthy Sheep. <i>Anesthesiology</i> , 2013, 119, 156-165.  | 1.3 | 19        |
| 69 | Bedside Estimation of Nonaerated Lung Tissue Using Blood Gas Analysis*. <i>Critical Care Medicine</i> , 2013, 41, 732-743.   | 0.4 | 36        |
| 70 | Assessment of regional lung ventilation by electrical impedance tomography in a patient with unilateral bronchial stenosis and a history of tuberculosis. <i>Jornal Brasileiro De Pneumologia</i> , 2013, 39, 742-746.                           | 0.4 | 3         |
| 71 | Determinants of Oxygen and Carbon Dioxide Transfer during Extracorporeal Membrane Oxygenation in an Experimental Model of Multiple Organ Dysfunction Syndrome. <i>PLoS ONE</i> , 2013, 8, e54954.  | 1.1 | 46        |
| 72 | Effect of regional lung inflation on ventilation heterogeneity at different length scales during mechanical ventilation of normal sheep lungs. <i>Journal of Applied Physiology</i> , 2012, 113, 947-957.  | 1.2 | 37        |

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|----|---|-----|-----------|
| 73 | Molecular Imaging In An Animal Model Of ARDS: Rethinking The Lung-Protective Mechanical Ventilation Strategy. , 2012, , .   |     | 0         |
| 74 | Regional lung perfusion estimated by electrical impedance tomography in a piglet model of lung collapse. Journal of Applied Physiology, 2012, 112, 225-236.   | 1.2 | 134       |
| 75 | Effects of arterial oxygen tension and cardiac output on venous saturation: a mathematical modeling approach. Clinics, 2012, 67, 897-900.   | 0.6 | 10        |
| 76 | Reply to Hellige and Hahn and Hellige. Journal of Applied Physiology, 2012, 112, 2128-2128.   | 1.2 | 1         |
| 77 | Oxigenação extracorpórea por membrana na hipoxemia grave: hora de revermos nossos conceitos?. Jornal Brasileiro De Pneumologia, 2012, 38, 7-12.   | 0.4 | 17        |
| 78 | First-year experience of a Brazilian tertiary medical center in supporting severely ill patients using extracorporeal membrane oxygenation. Clinics, 2012, 67, 1157-1163.   | 0.6 | 26        |
| 79 | Challenges in patients supported with extracorporeal membrane oxygenation in Brazil. Clinics, 2012, 67, 1511-1515.  | 0.6 | 9         |
| 80 | Acute hemodynamic, respiratory and metabolic alterations after blood contact with a volume priming and extracorporeal life support circuit: an experimental study. Revista Brasileira De Terapia Intensiva, 2012, 24, 137-42. | 0.1 | 5         |
| 81 | Central Neurogenic Respiratory Failure: A Challenging Diagnosis. Case Reports in Neurology, 2011, 3, 75-81.   | 0.3 | 8         |
| 82 | Extracorporeal membrane oxygenation as a bridge to pulmonary transplantation in Brazil: Are we ready to embark upon this new age?. Clinics, 2011, 66, 1659-1661.  | 0.6 | 6         |
| 83 | Hemodynamic and respiratory support using venoarterial extracorporeal membrane oxygenation (ECMO) in a polytrauma patient. Revista Brasileira De Terapia Intensiva, 2011, 23, 374-9.  | 0.1 | 6         |
| 84 | Mild Endotoxemia during Mechanical Ventilation Produces Spatially Heterogeneous Pulmonary Neutrophilic Inflammation in Sheep. Anesthesiology, 2010, 112, 658-669.   | 1.3 | 64        |
| 85 | Measurement of Regional Specific Lung Volume Change Using Respiratory-Gated PET of Inhaled <sup>13</sup> N-Nitrogen. Journal of Nuclear Medicine, 2010, 51, 646-653.  | 2.8 | 47        |
| 86 | Can heterogeneity in ventilation be good?. Critical Care, 2010, 14, 134.  | 2.5 | 13        |
| 87 | Prone position ventilation, recruitment maneuver and intravenous zanamivir in severe refractory hypoxemia caused by influenza a (H1N1). Clinics, 2010, 65, 1211-1213.   | 0.6 | 9         |
| 88 | Bedside estimation of recruitable alveolar collapse and hyperdistension by electrical impedance tomography. Intensive Care Medicine, 2009, 35, 1132-1137.   | 3.9 | 341       |
| 89 | Electrical impedance tomography. Current Opinion in Critical Care, 2009, 15, 18-24.   | 1.6 | 143       |
| 90 | Lung Water. Anesthesiology, 2009, 111, 933-935.   | 1.3 | 6         |

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|----|---|-----|-----------|
| 91 | Real-time detection of pneumothorax using electrical impedance tomography*. Critical Care Medicine, 2008, 36, 1230-1238.                      | 0.4 | 174       |
| 92 | Acute vasodilator test in pulmonary arterial hypertension: Evaluation of two response criteria. Vascular Pharmacology, 2005, 43, 143-147.     | 1.0 | 40        |
| 93 | The importance of ventilator settings and respiratory mechanics in patients resuscitated from cardiac arrest. Intensive Care Medicine, 0, , . | 3.9 | 4         |