

SHORT VERSION CURRICULUM VITAE



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Denise Battaglini born in Genoa (GE), Italy on 25/03/1987, lives in Genoa Viale Primavera 31/1, 16148 (GE), Italy, declare that the information contained in this document are true (art. 76 del D.P.R. 445/00).

Study Degrees

Degree in Medicine and Surgery University of Genoa, 110/110 cum Laude on 26/07/2013

Specialization in Anesthesia, Intensive Care and Pain Therapy University of Genoa, 50/50 cum Laude on 12/12/2019

Current position

Consultant in anesthesia and Intensive Care at San Martino Policlinico Hospital, IRCCS for Oncology and Neuroscience, Genoa, Italy

PhD candidate *at University of Barcelona, Spain*. Renal, cardiovascular and respiratory physiopathology – Translational Medicine.

National Habilitation as Associate Professor from 06/02/2023 to 06/02/2034

Actual roles in Scientific Societies

ESICM – Mentorship program member (NEXT elected representative of the program)

ESICM - NEXT Committee member

ESICM – NEXT representative Translational Biology section

ESICM – NEXT representative Research Committee

SIAARTI – Airway board member

SIAARTI – Regional representative Liguria and regional representative Proxima Liguria

SIAARTI – Active member of “gruppo di studio vie aeree”, “neuroanestesia e neurorianimazione”, “infezioni e sepsi”

EAMS – Active member

Airway Management group SIAARTI – Board member

Airway Management group SIAARTI – Selected as expert literature reviewer for the development of Recommendations (PICO) on Difficult Airway Management

iWIN – Scientific committee

Covid-19 Critical Care Consortium – writing committee

ISARIC clinical characterization group member

Others

Research Fellowship at Department of Pulmonary and Critical Care Medicine, Division of Animal Experimentation. Hospital Clinic, Barcelona (ES), University of Barcelona, ES. Carrer de Villarroel, 170, Barcelona, ES, from October 2nd, 2017, to December 31st, 2018.

Research Fellowship at Laboratory of Pulmonary Investigation, Carlos Chagas Filho Institute of Biophysics, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, from August 1st, 2019 to September 29th, 2019.

Medical abilitation

Medici Chirurghi e degli Odontoiatri della Provincia di Genova (GE) from 04/03/2014 n. 16246; abilitazione alla Professione di Medico Chirurgo.

Associate Professor Italian habilitation – from 06/02/2023 to 06/02/2033

More information about Denise Battaglini's background:

As of March 2023, I am currently working as Consultant in Intensive Care, but I always support my research group as a highly competitive research assistant, for my continuing commitment to supporting my passion for research at San Martino Policlinico Hospital in Genoa, Italy. I am proceeding as senior PhD student in Translational Medicine at the Department of Medicine, University of Barcelona, Spain. I am assistant professor in Critical Care Medicine and Emergency Medicine for the Faculty of Medicine and Surgery and in Anesthesiology for the Faculty of Ophthalmology, and I have recently got the Italian habilitation as associate professor in Critical Care and Anesthesiology (ending in 2033). I am currently involved as principal investigator with a project concerning lung and intestinal dysbiosis in critically ill patients with and without brain injury, with which I have won a Ministerial Grant. I am principal investigator of a monocentric project that will contribute to pulmonary critical care within the context of respiratory physiotherapy, and international multicenter projects concerning tracheostomy practice, and neurological complications of ARDS COVID-19. Further, I am working on several project as investigator and collaborator, both locally and abroad with well-known International groups.

During my residency in Anesthesiology and Critical Care, I served as *National Italian representative of the national referred scientific society (SIAARTI) and European Society of Anesthesia and Intensive Care (ESAIC) Trainees representative member, young Proxima SIAARTI Regional representative*. During these years, I organized many clinical and research teaching activities, I attended many national congresses as part of the organizing committee and I planned and organized as principal investigator a research project concerning the role of high-fidelity Simulation in Emergency Critical Care Medicine among Italian residents in SIAARTI, highlighting the role of technical and non-technical skills as an essential part of the training of anesthesiologists and critical care physicians. I also promoted many activities of the society during International Congresses, and I supported young investigators and clinicians as their mentor during this process.

As specialist and active researcher in Anesthesiology and Critical Care, I am now member or representative of many national and international communities, including the *"airway management*

group" in SIAARTI, iWIN scientific committee, NEXT European Society of Intensive Care Medicine (ESICM) Committee Member, Regional Representative of SIAARTI for Liguria Region, NEXT representative of Translational Biology section in ESICM, and active member of the European Airway Management Society (EAMS), COVID-19 Critical Care Consortium, where I am trying to enhance the partnership, growth, and value of young and worth members within the Anesthesiology and Intensive Care Communities.

My research career started in 2016, when I had the opportunity to perform a research fellowship in Infectious Disease and Pulmonary Medicine at Hospital Clinic of Barcelona, Spain. I started approaching experimental, clinical, and animal research, where I acquired essential skills in research methodology, basic statistics, pulmonary infectious disease, respiratory physiotherapy, and pulmonary critical care under the supervision of Prof. Torres and Prof. Li Bassi. During the fellowship I published several research papers on high impacted journals, and I had the opportunity to perform and manage my own experimental study on ventilator-associated pneumonia in animal model.

When I returned to Genoa, I started focusing on airway management, respiratory aspects and pulmonology, mechanical ventilation in ARDS and Neurocritical Care. Moreover, I was immersed in many aspects of healthcare simulation-based education and/or quality and safety improvement, advancing my skills as an instructor, debriefer of healthcare simulation-based activities both in SIAARTI (airway management group tutor at national courses) and University of Genoa, Italy. This experience has allowed me to acquire skills as leader and in order to apply for Representative positions. In 2019, I had the opportunity to perform a research fellowship at the Federal University of Rio de Janeiro, Brazil with international experts like Prof Rocco, Prof Silva, and Prof Cruz. During my fellowship, I planned and manage my own research project investigating the impact of hypothermia and sedation on the lung and peripheral organs in stroke animals. I was immersed in many aspects of translational research, learning how to organize and manage from the basis a new research project. I learned a lot about pulmonary mechanics, histology, brain physiology, and stroke management, thus enlarging my own clinical and experimental translational expertise.

At the same time, I was serving as National Italian representative of the Italian scientific society SIAARTI, being very busy but always focused and totally committed to all my tasks. In 2019 I graduated as Anesthesiologist and Intensive Care physician with Laude. In 2020, the COVID-19 pandemic changed our lives. I started working on the front line as Intensivist, feeling (as all of you) that our profession is a sort of mission with the final goal of care for our patients best we can despite the difficulties, the lack of resources and the fear. The Pandemic made me curious about airway management, pulmonary critical care, and viral infectious disease, therefore I decided the focus on many aspects of COVID-19 critically ill patients, taking part to Local, International and National research projects in order to enrich the literature, to understand how to treat my patients, and to help the community facing this difficult moment.

Even now, I am running several projects on ARDS management, airway management, mechanical ventilation and physiotherapy both in neurocritically ill and ARDS patients, making my main research topic brain-lung crosstalk.

In 2021, I had also the honor to be choose as Editor of a handbook in COVID-19 critical care Springer. I am now editing my second book on Inter-organ crosstalk in critical illness. I have been recently selected as expert literature reviewer for the development of *Airway Management Recommendations in SIAARTI* and panelist of international guidelines on airway management from Chinese society of Crit Care and Anesthesiology and Guidelines on dyspnea management from the ESICM/ ERS societies. In 2022 I have won by competition and started in 2023 an Editorial fellowship for the British Journal of Anesthesia. Additionally, I am Associate Editor of many scientific journals like ICM Experimental, Journal of Clinical Medicine – Critical Care section, BMC Pulmonary Medicine, Frontiers in Medicine - Anesthesiology and Critical Care section, Frontiers in Neurology, Frontiers in Physiology. I am serving as Guest Editor for many journals including Diagnostics, Journal of Clinical Medicine, BMC Pulmonary Medicine, and Frontiers journals.

Publications / abstracts / posters / others

Research metrics

Scopus H-index: 25

Publications: 144 on PubMed + 10 not on PubMed + 9 book chapters

Start year: 2016

Editorial Board Member: ICM Experimental (associate), BMC Pulmonary Medicine (associate and guest), British Journal of Anesthesia (Editorial Fellow 2022-2023 by competition), Frontiers in Medicine (section Anesthesiology and Critical Care) (associate and guest), Frontiers in Physiology (guest), Frontiers in Neurology (associate and guest), Frontiers in Neuroscience (associate), Journal of Clinical Medicine (associate and guest), Springer® Handbook COVID-19 Critical Care, Diagnostics (guest) MDPI, Faculty Opinion (Associate Editorial Member),

Grant/award: 5x1000 Italian Ministry of Health, about microbiota modulation in neurocritically ill patients; ISICEM poster award.

Editor of the Month 2022 March BMC Pulmonary Medicine.

PNRR: on Microbiota in neurocritical care as collaborator under 40 y/o (1 million euro).

Project evaluation: selected for research experience as Assessor of Grants for the German Ministry of Research and Science – March 2023, and for the French Ministry of Research and Science – May 2023.

Evaluation for Research Committee ESICM Awards (2023) and Abstracts (2022, 2023).

You can find my scientific contributions at: <https://pubmed.ncbi.nlm.nih.gov/?term=battaglini+d&sort=date>
<https://www.researchgate.net/profile/Denise-Battaglini>

Publications:

Tracheostomy timing and outcome in critically ill patients with stroke: a meta-analysis and meta-regression Laviénraj Premraj # 1 2, Christopher Camarda # 1, Nicole White 3, Daniel Agustin Godoy 4, Brian H Cuthbertson 5 6, Patricia R M Rocco 7, Paolo Pelosi 8 9, Chiara Robba 8 9, Jose I Suarez 10, Sung-Min Cho # 10, Denise **Battaglini** Crit Care 2023. Apr 1;27(1):132. doi: 10.1186/s13054-023-04417-6.

Crosstalk Between the Nervous System and Systemic Organs in Acute Brain Injury. **Battaglini D**, De Rosa S, Godoy DA. Neurocrit Care. 2023 Apr 20. doi: 10.1007/s12028-023-01725-1.

External validation of unsupervised COVID-19 clinical phenotypes and their prognostic impact. Giacobbe DR, Di Maria E, Tagliafico AS, Bavastro M, Trombetta CS, Marelli C, Di Meo G, Cattardico G, Mora S, Signori A, Vena A, Mikulska M, Dentone C, Bruzzone B, Bignotti B, Orsi A, Robba C, Ball L, Brunetti I, **Battaglini D**, Di Biagio A, Sormani MP, Pelosi P, Giacomini M, Icardi G, Bassetti M. Ann Med. 2023 Dec;55(1):2195204. doi: 10.1080/07853890.2023.2195204.

Validation of extracorporeal membrane oxygenation mortality prediction and severity of illness scores in an international COVID-19 cohort. Shah N, Xue B, Xu Z, Yang H, Marwali E, Dalton H, Payne PPR, Lu C, Said AS; ISARIC Clinical Characterisation Group. Artif Organs. 2023 Apr 9. doi: 10.1111/aor.14542.

Biomarkers as predictors of mortality in critically ill obese patients with COVID-19 at high altitude. Vélez-Páez JL, Aguayo-MoscOSO SX, Castro-Bustamante C, Montalvo-Villagómez M, Jara-González F, Baldeón-Rojas L, Zubieta-DeUrioste N, **Battaglini D**, Zubieta-Calleja GR. BMC Pulm Med. 2023 Apr 6;23(1):112. doi: 10.1186/s12890-023-02399-3.

Cerebrovascular Complications of COVID-19 on Venovenous Extracorporeal Membrane Oxygenation. Zaaqoq AM, Griffée MJ, Kelly TL, Fanning JP, Heinsar S, Suen JY, Mariani S, Li Bassi G, Jacobs JP, White N, Fraser JF, Lorusso R, Peek GJ, Cho SM; COVID-19 Critical Care Consortium (COVID Critical). Crit Care Med. 2023 Apr 3. doi: 10.1097/CCM.0000000000005861.

The importance of monitoring cerebral oxygenation in non brain injured patients. Robba C, **Battaglini D**, Rasulo F, Lobo FA, Matta B. *J Clin Monit Comput*. 2023 Apr 12:1-7. doi: 10.1007/s10877-023-01002-8.

Monitoring of Brain Tissue Oxygen Tension in Cardiac Arrest: a Translational Systematic Review from Experimental to Clinical Evidence. **Battaglini D**, Bogossian EG, Anania P, Premraj L, Cho SM, Taccone FS, Sekhon M, Robba C. *Neurocrit Care*. 2023 Apr 20. doi: 10.1007/s12028-023-01721-5.

Utilization of mechanical power and associations with clinical outcomes in brain injured patients: a secondary analysis of the extubation strategies in neuro-intensive care unit patients and associations with outcome (ENIO) trial. Wahlster S, Sharma M, Taran S, Town JA, Stevens RD, Cinotti R, Asehoune K, Pelosi P, Robba C; ENIO Study Group Collaborators. *Crit Care*. 2023 Apr 20;27(1):156. doi: 10.1186/s13054-023-04410-z.

Cerebro-spinal fluid glucose and lactate concentrations changes in response to therapies in patients with primary brain injury: the START-TRIP study Elisa Gouvêa Bogossian 1, Chahnez Taleb 2, Raffaele Aspide 3, Rafael Badenes 4, Denise **Battaglini** 5 6, Federico Bilotta 7, Aaron Blandino Ortiz 8, Anselmo Caricato 9, Carlo Alberto Castioni 3, Giuseppe Citerio 10, Gioconda Ferraro 2, Costanza Martino 11, Isabella Melchionda 7, Federica Montanaro 2, Berta Monleon Lopez 4, Consolato Gianluca Nato 7, Michael Piagnerelli 12 13, Edoardo Picetti 14, Chiara Robba 5 6, Olivier Simonet 15, Aurelie Thooft 12, Fabio Silvio Taccone 2 *Crit Care*. 2023 Mar 31;27(1):130. doi: 10.1186/s13054-023-04409-6.

The importance of monitoring cerebral oxygenation in non brain injured patients Chiara Robba 1 2, Denise **Battaglini** 3, Francesco Rasulo 4, Francisco A Lobo 5, Basil Matta. *J Clin Monit Comput*. 2023 Apr 12. doi: 10.1007/s10877-023-01002-8.

External validation of unsupervised COVID-19 clinical phenotypes and their prognostic impact Daniele Roberto Giacobbe 1 2, Emilio Di Maria 1 3, Alberto Stefano Tagliafico 1 4, Martina Bavastro 1 2, Carlo Simone Trombetta 1 5, Cristina Marelli 2, Gabriele Di Meco 2, Greta Cattardico 1 2, Sara Mora 6, Alessio Signori 7, Antonio Vena 1 2, Malgorzata Mikulska 1 2, Chiara Dentone 2, Bianca Bruzzone 5, Bianca Bignotti 4 8, Andrea Orsi 1 5, Chiara Robba 9 10, Lorenzo Ball 9 10, Iole Brunetti 10, **Denise Battaglini** 10, Antonio Di Biagio 1 2, Maria Pia Sormani 7, Paolo Pelosi 9 10, Mauro Giacomini 6, Giancarlo Icardi 1 5, Matteo Bassetti. *Ann Med* . 2023 Dec;55(1):2195204. doi: 10.1080/07853890.2023.2195204.

Update on Lean Body Mass Diagnostic Assessment in Critical Illness. De Rosa S, Umbrello M, Pelosi P, **Battaglini D**. *Diagnostics* 2023, 13(5), 888; <https://doi.org/10.3390/diagnostics13050888>.

Hemorrhage, Disseminated Intravascular Coagulopathy, and Thrombosis Complications Among Critically Ill Patients with COVID-19: An International COVID-19 Critical Care Consortium Study. Fanning JP, Weaver N, Fanning RB, Griffie MJ, Cho SM, Panigada M, Obonyo NG, Zaaqoq AM, Rando H, Chia YW, Fan BE, Sela D, Chiumello D, Coppola S, Labib A, Whitman GJR, Arora RC, Kim BS, Motos A, Torres A, Barbé F, Grasselli G, Zanella A, Etchill E, Usman AA, Feth M, White NM, Suen JY, Li Bassi G, Peek GJ, Fraser JF, Dalton H; COVID-19 Critical Care Consortium. *Crit Care Med*. 2023 Feb 28:e005798. doi: 10.1097/CCM.0000000000005798. Online ahead of print. PMID: 36867727

Characteristics and outcomes of an international cohort of 600 000 hospitalized patients with COVID-19. Kartsonaki C, Baillie JK, Barrio NG, Baruch J, Beane A, Blumberg L, Bozza F, Broadley T, Burrell A, Carson G, Citarella BW, Dagens A, Dankwa EA, Donnelly CA, Dunning J, Elotmani L, Escher M, Farshait N, Goffard JC, Gonçalves BP, Hall M, Hashmi M, Sim Lim Heng B, Ho A, Jassat W, Pedrera Jiménez M, Laouenan C, Lissauer S, Martin-Loeches I, Mentré F, Merson L, Morton B, Munblit D, Nekliudov NA, Nichol AD, Singh Oinam BC, Ong D, Panda PK, Petrovic M, Pritchard MG, Ramakrishnan N, Ramos GV, Roger C, Sandulescu O, Semple MG, Sharma P, Sigfrid L, Somers EC, Streinu-Cercel A, Taccone F, Vecham PK, Kumar Tirupakuzhi Vijayaraghavan B, Wei J, Wils EJ, Ci Wong X, Horby P, Rojek A, Olliaro PL; ISARIC Clinical Characterisation Group. *Int J Epidemiol*. 2023 Feb 28:dyad012. doi: 10.1093/ije/dyad012. Online ahead of print. PMID: 36850054

Effects of short-term hyperoxemia on cerebral autoregulation and tissue oxygenation in acute brain injured patients. Ciliberti P, Cardim D, Giardina A, Groznik M, Ball L, Giovannini M, **Battaglini D**, Beqiri E, Matta B, Smielewski P, Czosnyka M, Pelosi P, Robba C. *Front Physiol.* 2023 Feb 8;14:1113386. doi: 10.3389/fphys.2023.1113386. eCollection 2023. PMID: 36846344 Free PMC article.

Challenges in ARDS Definition, Management, and Identification of Effective Personalized Therapies. **Battaglini D**, Fazzini B, Silva PL, Cruz FF, Ball L, Robba C, Rocco PRM, Pelosi P. *J Clin Med.* 2023 Feb 9;12(4):1381. doi: 10.3390/jcm12041381. PMID: 36835919 Free PMC article. Review.

Systemic and Cerebral Effects of Physiotherapy in Mechanically Ventilated Subjects. **Battaglini D**, Ciaravolo E, Caiffa S, Delpiano L, Ball L, Vena A, Giacobbe DR, Bassetti M, Matta B, Pelosi P, Robba C; GECOVID Collaborators; GECOVID collaborators:. *Respir Care.* 2023 Feb 21:respcare.10227. doi: 10.4187/respcare.10227. Online ahead of print. PMID: 36810363

The Role of Brain Tissue Oxygenation Monitoring in the Management of Subarachnoid Hemorrhage: A Scoping Review. Gouvea Bogossian E, **Battaglini D**, Fratino S, Minini A, Gianni G, Fiore M, Robba C, Taccone FS. *Neurocrit Care.* 2023 Feb 17. doi: 10.1007/s12028-023-01680-x. Online ahead of print. PMID: 36802011 Review.

Inhaled amikacin for pneumonia treatment and dissemination prevention: an experimental model of severe monolateral *Pseudomonas aeruginosa* pneumonia. Motos A, Yang H, Li Bassi G, Yang M, Meli A, **Battaglini D**, Cabrera R, Bobi J, Pagliara F, Frigola G, Camprubí-Rimblas M, Fernández-Barat L, Rigol M, Ferrer-Segarra A, Kiarostami K, Martinez D, Nicolau DP, Artigas A, Pelosi P, Vila J, Torres A. *Crit Care.* 2023 Feb 14;27(1):60. doi: 10.1186/s13054-023-04331-x. PMID: 36788582 Free PMC article. Clinical Trial.

Epidemiology and outcomes of hospital-acquired bloodstream infections in intensive care unit patients: the EUROBACT-2 international cohort study. Tabah A, Buetti N, Staiquily Q, Ruckly S, Akova M, Aslan AT, Leone M, Conway Morris A, Bassetti M, Arvaniti K, Lipman J, Ferrer R, Qiu H, Paiva JA, Povoia P, De Bus L, De Waele J, Zand F, Gurjar M, Alsisi A, Abidi K, Bracht H, Hayashi Y, Jeon K, Elhadi M, Barbier F, Timsit JF; EUROBACT-2 Study Group, ESICM, ESCMID ESGCIP and the OUTCOMEREA Network. *Intensive Care Med.* 2023 Feb;49(2):178-190. doi: 10.1007/s00134-022-06944-2. Epub 2023 Feb 10. PMID: 36764959 Free PMC article.

Editorial: Personalized therapy in ARDS. **Battaglini D**, Barbeta E, Torres A, Rocco PRM. *Front Med (Lausanne).* 2023 Jan 23;10:1136708. doi: 10.3389/fmed.2023.1136708. eCollection 2023. PMID: 36756178 Free PMC article. No abstract available.

Biological Markers to Predict Outcome in Mechanically Ventilated Patients with Severe COVID-19 Living at High Altitude. Vélez-Páez JL, Pelosi P, **Battaglini D**, Best I. *J Clin Med.* 2023 Jan 13;12(2):644. doi: 10.3390/jcm12020644. PMID: 36675573 Free PMC article.

Short Course of Antifungal Therapy in Patients With Uncomplicated *Candida* Bloodstream Infection: Another Case of Less Is More in the Clinical Setting? Vena A, Bovis F, Tutino S, Santagostino Barbone A, Mezzogori L, Ponzano M, Taramasso L, Baldi F, Dettori S, Labate L, Russo C, Giacobbe DR, Mikulska M, Dentone C, Magnasco L, Marchese A, Robba C, Ball L, Battaglini D, Pelosi P, Crea F, Di Pilato V, Di Biagio A, Bouza E, Muñoz P, Bassetti M. *Open Forum Infect Dis.* 2022 Dec 8;10(1):ofac656. doi: 10.1093/ofid/ofac656. eCollection 2023 Jan. PMID: 36655192 Free PMC article.

High Flow Nasal Oxygen and Awake Prone Positioning. Two allies against COVID-19: A systematic review. Godoy DA, Longhitano Y, Fazzini B, Robba C, **Battaglini D**. *Respir Physiol Neurobiol.* 2023 Jan 13:104015. doi: 10.1016/j.resp.2023.104015. Online ahead of print. PMID: 36646354 Review.

T2Bacteria and T2Resistance Assays in Critically Ill Patients with Sepsis or Septic Shock: A Descriptive Experience. Giacobbe DR, Crea F, Morici P, Magnasco L, Di Pilato V, Briano F, Willison E, Pincino R, Dettori S,

Tutino S, Esposito S, Coppo E, Dentone C, Portunato F, Mikulska M, Robba C, Vena A, Battaglini D, Brunetti I, Ball L, Pelosi P, Marchese A, Bassetti M. *Antibiotics (Basel)*. 2022 Dec 15;11(12):1823. doi: 10.3390/antibiotics11121823. PMID: 36551480 Free PMC article.

Mild hypothermia combined with dexmedetomidine reduced brain, lung, and kidney damage in experimental acute focal ischemic stroke. **Battaglini D**, da Silva AL, Felix NS, Rodrigues G, Antunes MA, Rocha NN, Capelozzi VL, Morales MM, Cruz FF, Robba C, Silva PL, Pelosi P, Rocco PRM. *Intensive Care Med Exp*. 2022 Dec 19;10(1):53. doi: 10.1186/s40635-022-00481-4. PMID: 36529842 Free PMC article.

Ten rules for optimizing ventilatory settings and targets in post-cardiac arrest patients. **Battaglini D**, Pelosi P, Robba C. *Crit Care*. 2022 Dec 17;26(1):390. doi: 10.1186/s13054-022-04268-7. PMID: 36527126 Free PMC article. Review.

Morphological and functional findings in COVID-19 lung disease as compared to Pneumonia, ARDS, and High-Altitude Pulmonary Edema. Zubieta-Calleja GR, Zubieta-DeUrioste N, de Jesús Montelongo F, Sanchez MGR, Campoverdi AF, Rocco PRM, **Battaglini D**, Ball L, Pelosi P. *Respir Physiol Neurobiol*. 2022 Nov 29;309:104000. doi: 10.1016/j.resp.2022.104000. Online ahead of print. PMID: 36460252 Free PMC article. Review.

Personalized medicine using omics approaches in acute respiratory distress syndrome to identify biological phenotypes. **Battaglini D**, Al-Husinat L, Normando AG, Leme AP, Franchini K, Morales M, Pelosi P, Rocco PR. *Respir Res*. 2022 Nov 19;23(1):318. doi: 10.1186/s12931-022-02233-0. PMID: 36403043 Free PMC article. Review.

Oxygen targets and 6-month outcome after out of hospital cardiac arrest: a pre-planned sub-analysis of the targeted hypothermia versus targeted normothermia after Out-of-Hospital Cardiac Arrest (TTM2) trial. Robba C, Badenes R, **Battaglini D**, Ball L, Sanfilippo F, Brunetti I, Jakobsen JC, Lilja G, Friberg H, Wendel-Garcia PD, Young PJ, Eastwood G, Chew MS, Uden J, Thomas M, Joannidis M, Nichol A, Lundin A, Hollenberg J, Hammond N, Saxena M, Martin A, Solar M, Taccone FS, Dankiewicz J, Nielsen N, Grejs AM, Ebner F, Pelosi P; TTM2 Trial collaborators. *Crit Care*. 2022 Oct 21;26(1):323. doi: 10.1186/s13054-022-04186-8. PMID: 36271410 Free PMC article. Clinical Trial.

Post-COVID-19 syndrome symptoms after mild and moderate SARS-CoV-2 infection. Al-Husinat L, Nusir M, Al-Gharaibeh H, Alomari AA, Smadi MM, **Battaglini D**, Pelosi P. *Front Med (Lausanne)*. 2022 Oct 3;9:1017257. doi: 10.3389/fmed.2022.1017257. eCollection 2022. PMID: 36262270 Free PMC article.

Tracheostomy outcomes in critically ill patients with COVID-19: a systematic review, meta-analysis, and meta-regression. **Battaglini D**, Premraj L, White N, Sutt AL, Robba C, Cho SM, Di Giacinto I, Bressan F, Sorbello M, Cuthbertson BH, Bassi GL, Suen J, Fraser JF, Pelosi P. *Br J Anaesth*. 2022 Nov;129(5):679-692. doi: 10.1016/j.bja.2022.07.032. Epub 2022 Aug 3. PMID: 36182551 Free PMC article. Review.

Airway management in cardiac arrest and outcomes. Author's reply. Robba C, **Battaglini D**, Badenes R, Nielsen N, Pelosi P. *Intensive Care Med*. 2022 Dec;48(12):1829-1832. doi: 10.1007/s00134-022-06888-7. Epub 2022 Sep 29. PMID: 36173414 Free PMC article. No abstract available.

Association of ventilator-free days with respiratory physiotherapy in critically ill patients with Coronavirus Disease 2019 (COVID-19) during the first pandemic wave. A propensity score-weighted analysis. Privitera E, Gambazza S, Rossi V, Santambrogio M, Binda F, Tarello D, Caiffa S, Turrin V, Casagrande C, **Battaglini D**, Panigada M, Fumagalli R, Pelosi P, Grasselli G. *Front Med (Lausanne)*. 2022 Sep 12;9:994900. doi: 10.3389/fmed.2022.994900. eCollection 2022. PMID: 36172535 Free PMC article.

Physical and psychological impairment in survivors of acute respiratory distress syndrome: a systematic review and meta-analysis. Fazzini B, **Battaglini** D, Careno L, Pelosi P, Cecconi M, Puthuchery Z. *Br J Anaesth.* 2022 Nov;129(5):801-814. doi: 10.1016/j.bja.2022.08.013. Epub 2022 Aug 26. PMID: 36116979 Review.

Respiratory support in patients with severe COVID-19 in the International Severe Acute Respiratory and Emerging Infection (ISARIC) COVID-19 study: a prospective, multinational, observational study. Reyes LF, Murthy S, Garcia-Gallo E, Merson L, Ibáñez-Prada ED, Rello J, Fuentes YV, Martin-Loeches I, Bozza F, Duque S, Taccone FS, Fowler RA, Kartsonaki C, Gonçalves BP, Citarella BW, Aryal D, Burhan E, Cummings MJ, Delmas C, Diaz R, Figueiredo-Mello C, Hashmi M, Panda PK, Jiménez MP, Rincon DFB, Thomson D, Nichol A, Marshall JC, Olliaro PL; ISARIC Characterization Group. *Crit Care.* 2022 Sep 13;26(1):276. doi: 10.1186/s13054-022-04155-1. PMID: 36100904 Free PMC article.

Neurological manifestations of COVID-19 in adults and children. Cho SM, White N, Premraj L, **Battaglini** D, Fanning J, Suen J, Bassi GL, Fraser J, Robba C, Griffiee M, Singh B, Citarella BW, Merson L, Solomon T, Thomson D; ISARIC Clinical Characterisation Group. *Brain.* 2022 Sep 10:awac332. doi: 10.1093/brain/awac332. Online ahead of print. PMID: 36087305 Free PMC article.

Failed clinical trials on COVID-19 acute respiratory distress syndrome in hospitalized patients: common oversights and streamlining the development of clinically effective therapeutics. **Battaglini** D, Cruz F, Robba C, Pelosi P, Rocco PRM. *Expert Opin Investig Drugs.* 2022 Oct;31(10):995-1015. doi: 10.1080/13543784.2022.2120801. Epub 2022 Sep 13. PMID: 36047644 Review.

Effects of Mechanical Insufflation-Exsufflation With Different Pressure Settings on Respiratory Mucus Displacement During Invasive Ventilation. Martí JD, Martínez-Alejos R, Pilar-Díaz X, Yang H, Pagliara F, **Battaglini** D, Meli A, Yang M, Bobi J, Rigol M, Tronstad O, Volpe MS, Passos Amato MB, Bassi GL, Torres A. *Respir Care.* 2022 Dec;67(12):1508-1516. doi: 10.4187/respcare.10173. Epub 2022 Aug 30. PMID: 36041752

Extubation in neurocritical care patients: the ENIO international prospective study. Cinotti R, Mijangos JC, Pelosi P, Haenggi M, Gurjar M, Schultz MJ, Kaye C, Godoy DA, Alvarez P, Ioakeimidou A, Ueno Y, Badenes R, Suel Elbuzidi AA, Piagnerelli M, Elhadi M, Reza ST, Azab MA, McCredie V, Stevens RD, Digitale JC, Fong N, Asehnoune K; ENIO Study Group, the PROtective VENTilation network, the European Society of Intensive Care Medicine, the Colegio Mexicano de Medicina Critica, the Atlanréa group and the Société Française d'Anesthésie-Réanimation-SFAR research network. *Intensive Care Med.* 2022 Nov;48(11):1539-1550. doi: 10.1007/s00134-022-06825-8. Epub 2022 Aug 29. PMID: 36038713

The value of EEG attenuation in the prediction of outcome in COVID-19 patients. Marinelli L, Pappalardo I, Robba C, Saitta L, Cabona C, **Battaglini** D, Casaleggio M, Bellini A, Ferrari A, Brunetti I, Villani F. *Neurol Sci.* 2022 Nov;43(11):6159-6166. doi: 10.1007/s10072-022-06354-8. Epub 2022 Aug 27. PMID: 36029386 Free PMC article.

Neurological Manifestations of SARS-CoV-2 Infection: Protocol for a Sub-analysis of the COVID-19 Critical Care Consortium Observational Study. **Battaglini** D, Premraj L, Griffiee M, Huth S, Fanning J, Whitman G, Bastos Porto D, Arora R, Durham L, Gnall E, Amato M, Williams V, Noel A, De Franca SA, Samoukovic G, Pujo B, Kent D, Marwali E, Al-Fares A, Stecher SS, Panigada M, Giani M, Foti G, Pelosi P, Pesenti A, White NM, Li Bassi G, Suen J, Fraser JF, Robba C, Cho SM. *Front Med (Lausanne).* 2022 Jul 22;9:930217. doi: 10.3389/fmed.2022.930217. eCollection 2022. PMID: 35935771 Free PMC article.

ISARIC-COVID-19 dataset: A Prospective, Standardized, Global Dataset of Patients Hospitalized with COVID-19.

ISARIC Clinical Characterization Group; Garcia-Gallo E, Merson L, Kennon K, Kelly S, Citarella BW, Fryer DV, Shrapnel S, Lee J, Duque S, Fuentes YV, Balan V, Smith S, Wei J, Gonçalves BP, Russell CD, Sigfrid L, Dagens A, Olliaro PL, Baruch J, Kartsonaki C, Dunning J, Rojek A, Rashan A, Beane A, Murthy S, Reyes LF. *Sci Data*. 2022 Jul 30;9(1):454. doi: 10.1038/s41597-022-01534-9. PMID: 35908040 Free PMC article.

Treatment for acute respiratory distress syndrome in adults: a narrative review of phase 2 and 3 trials. **Battaglini D**, Robba C, Pelosi P, Rocco PRM. *Expert Opin Emerg Drugs*. 2022 Jun;27(2):187-209. doi: 10.1080/14728214.2022.2105833. Epub 2022 Jul 28. PMID: 35868654

Neurological Manifestations of SARS-CoV-2 Infection: Protocol for a Sub-analysis of the COVID-19 Critical Care Consortium Observational Study. **Battaglini D**, Premraj L, Griffiee M, Huth S, Fanning J, Whitman G, Bastos Porto D, Arora R, Durham L, Gnall E, Amato M, Williams V, Noel A, De Franca SA, Samoukovic G, Pujo B, Kent D, Marwali E, Al-Fares A, Stecher SS, Panigada M, Giani M, Foti G, Pelosi P, Pesenti A, White NM, Li Bassi G, Suen J, Fraser JF, Robba C, Cho SM. *Front Med (Lausanne)*. 2022 Jul 22;9:930217. doi: 10.3389/fmed.2022.930217. eCollection 2022. PMID: 35935771

The value of EEG attenuation in the prediction of outcome in COVID-19 patients. Marinelli L, Pappalardo I, Robba C, Saitta L, Cabona C, **Battaglini D**, Casaleggio M, Bellini A, Ferrari A, Brunetti I, Villani F. *Neurol Sci*. 2022 Aug 27:1-8. doi: 10.1007/s10072-022-06354-8. Online ahead of print. PMID: 36029386

Extubation in neurocritical care patients: the ENIO international prospective study. Cinotti R, Mijangos JC, Pelosi P, Haenggi M, Gurjar M, Schultz MJ, Kaye C, Godoy DA, Alvarez P, Ioakeimidou A, Ueno Y, Badenes R, Swei Elbuzidi AA, Piagnerelli M, Elhadi M, Reza ST, Azab MA, McCredie V, Stevens RD, Digitale JC, Fong N, Asehnoune K; ENIO Study Group, the PROtective VENTilation network, the European Society of Intensive Care Medicine, the Colegio Mexicano de Medicina Critica, the Atlanréa group and the Société Française d'Anesthésie-Réanimation-SFAR research network. *Intensive Care Med*. 2022 Nov;48(11):1539-1550. doi: 10.1007/s00134-022-06825-8. Epub 2022 Aug 29. PMID: 36038713

Effects of Mechanical Insufflation-Exsufflation With Different Pressure Settings on Respiratory Mucus Displacement During Invasive Ventilation. Martí JD, Martínez-Alejos R, Pilar-Diaz X, Yang H, Pagliara F, Battaglini D, Meli A, Yang M, Bobi J, Rigol M, Tronstad O, Volpe MS, Passos Amato MB, Bassi GL, Torres A. *Respir Care*. 2022 Aug 30:respcare.10173. doi: 10.4187/respcare.10173. Online ahead of print. PMID: 36041752

Failed clinical trials on COVID-19 acute respiratory distress syndrome in hospitalized patients: common oversights and streamlining the development of clinically effective therapeutics. Battaglini D, Cruz F, Robba C, Pelosi P, Rocco PRM. *Expert Opin Investig Drugs*. 2022 Oct;31(10):995-1015. doi: 10.1080/13543784.2022.2120801. Epub 2022 Sep 13. PMID: 36047644

Neurological manifestations of COVID-19 in adults and children. Cho SM, White N, Premraj L, Battaglini D, Fanning J, Suen J, Bassi GL, Fraser J, Robba C, Griffiee M, Singh B, Citarella BW, Merson L, Solomon T, Thomson D; ISARIC Clinical Characterisation Group. *Brain*. 2022 Sep 10:awac332. doi: 10.1093/brain/awac332. Online ahead of print. PMID: 36087305

Post-COVID-19 syndrome symptoms after mild and moderate SARS-CoV-2 infection. Al-Husinat L, Nusir M, Al-Gharaibeh H, Alomari AA, Smadi MM, Battaglini D, Pelosi P. *Front Med (Lausanne)*. 2022 Oct 3;9:1017257. doi: 10.3389/fmed.2022.1017257. eCollection 2022. PMID: 36262270

Oxygen targets and 6-month outcome after out of hospital cardiac arrest: a pre-planned sub-analysis of the targeted hypothermia versus targeted normothermia after Out-of-Hospital Cardiac Arrest (TTM2) trial. Robba C, Badenes R, **Battaglini D**, Ball L, Sanfilippo F, Brunetti I, Jakobsen JC, Lilja G, Friberg H, Wendel-Garcia PD, Young PJ, Eastwood G, Chew MS, Uden J, Thomas M, Joannidis M, Nichol A, Lundin A, Hollenberg J,

Hammond N, Saxena M, Martin A, Solar M, Taccone FS, Dankiewicz J, Nielsen N, Grejs AM, Ebner F, Pelosi P; TTM2 Trial collaborators. *Crit Care*. 2022 Oct 21;26(1):323. doi: 10.1186/s13054-022-04186-8.

Ventilatory settings in the initial 72 h and their association with outcome in out-of-hospital cardiac arrest patients: a preplanned secondary analysis of the targeted hypothermia versus targeted normothermia after out-of-hospital cardiac arrest (TTM2) trial. Chiara Robba 1 2, Rafael Badenes 3 4, Denise **Battaglini** 5 6, Lorenzo Ball 5 7, Iole Brunetti 5, Janus C Jakobsen 8 9, Gisela Lilja 10, Hans Friberg 11, Pedro D Wendel-Garcia 12, Paul J Young 13 14 15 16, Glenn Eastwood 17, Michelle S Chew 18, Johan Unden 19 20, Matthew Thomas 21, Michael Joannidis 22, Alistair Nichol 23, Andreas Lundin 24, Jacob Hollenberg 25, Naomi Hammond 26, Manoj Saxena 27, Martin Annborn 28, Miroslav Solar 29 30, Fabio S Taccone 31, Josef Dankiewicz 32, Niklas Nielsen # 33, Paolo Pelosi. *Intensive Care Med*. 2022. Online ahead of print.

Effect of Automated Closed-loop ventilation versus conventional Ventilation on duration and quality of ventilation in critically ill patients (ACTIVE) - study protocol of a randomized clinical trial. Michela Botta 1, Anissa M Tsonas 2, Jante S Sinnige 2, Ashley J R De Bie 3, Alexander J G H Bindels 3, Lorenzo Ball 4, Denise **Battaglini** 4, Iole Brunetti 4, Laura A Buiteman-Kruizinga 2 5, Pim L J van der Heiden 5, Evert de Jonge 6, Francesco Mojoli 7, Chiara Robba 4, Abraham Schoe 6, Frederique Paulus 2 8, Paolo Pelosi 4 9, Ary Serpa Neto 10 11, Janneke Horn 2 12, Marcus J Schultz. *Trials*. 2022. 23(1):348. PMID: 35461264 Free PMC article.

Laboratory Biomarkers for Diagnosis and Prognosis in COVID-19. Denise **Battaglini** 1 2 3, Miquéias Lopes-Pacheco 4, Hugo C Castro-Faria-Neto 5, Paolo Pelosi 1 2, Patricia R M Rocco 4 *Front Immunol*. 2022. 13:857573. PMID: 35572561 Free PMC article. Review.

Venovenous extracorporeal membrane oxygenation in patients with acute covid-19 associated respiratory failure: comparative effectiveness study. Urner M, et al. *BMJ*. 2022. PMID: 35508314 Free PMC article.

The Impact of Different Ventilatory Strategies on Clinical Outcomes in Patients with COVID-19 Pneumonia. Rocans RP, et al. Rihards P Rocans 1 2, Agnese Ozolina 1 2, Denise **Battaglini** 3, Evita Bine 1 4, Janis V Birnbaums 1 2, Anastasija Tsarevskaya 2 4, Sintija Udre 5, Marija Aleksejeva 5, Biruta Mamaja 1 2, Paolo Pelosi. *J Clin Med*. 2022. 11(10):2710. PMID: 35628835

Prone positioning in COVID-19 ARDS: more pros than cons. Denise **Battaglini** 1, Paolo Pelosi 1 2, Patricia R M Rocco 3 *Bras Pneumol*. 2022. 48(2):e20220065. PMID: 35584468 Free PMC article. No abstract available.

Early short course of neuromuscular blocking agents in patients with COVID-19 ARDS: a propensity score analysis. Li Bassi G, et al. *Crit Care*. 2022. PMID: 35581612 Free PMC article.

Neurological long-COVID in the outpatient clinic: Two subtypes, two courses. Stefano Giuseppe Grisanti 1, Sara Garbarino 2, Emanuela Barisione 3, Teresita Aloè 3, Marco Grosso 3, Cristina Schenone 1, Matteo Pardini 4, Erica Biassoni 1, Federico Zaottini 3, Riccardo Picasso 3, Silvia Morbelli 3, Cristina Campi 5, Giampaola Pesce 3, Federico Massa 1, Nicola Girtler 4, Denise **Battaglini** 6, Corrado Cabona 3, Matteo Bassetti 3, Antonio Uccelli 4, Angelo Schenone 4, Michele Piana 5, Luana Benedetti 7 *J Neurol Sci*. 2022. 439:120315. PMID: 35717880

The Use of Noninvasive Multimodal Neuromonitoring in Adult Critically Ill Patients With COVID-19 Infection. Denise **Battaglini** 1 2, Laviensraj Premraj 3, Samuel Huth 4 5, Jonathon Fanning 4 5 6, Glenn Whitman 7, Rakesh C Arora 8, Judith Bellapart 4 9, Diego Bastos Porto 10, Fabio S Taccone 11, Jacky Y Suen 4 5, Gianluigi Li Bassi 12 4 5 13, John F Fraser 4 5 6 13, Sung-Min Cho 7, Chiara Robba. *J Neurosurg Anesthesiol*. 2022. PMID: 35695738

Individualized positive end-expiratory pressure guided by end-expiratory lung volume in early acute respiratory distress syndrome: study protocol for the multicenter, randomized IPERPEEP trial. Domenico Luca Grieco 1 2, Salvatore Maurizio Maggiore 3, Giacomo Bellani 4 5, Savino Spadaro 6, Elena Spinelli 7, Tommaso Tonetti 8, Luca S Menga 9 10, Marco Pozzi 11, Denise **Battaglini** 12 13, Rosa Di Mussi 14, Andrea Bruni 15, Andrea De Gaetano 16, Carmine Giovanni Iovino 3, Matteo Brioni 7, Francesco Mojoli 11, Giuseppe Foti 4 5,

Carlo Aberto Volta 6, Paolo Pelosi 12 13, Paolo Navalesi 17 18, Salvatore Grasso 14, V Marco Ranieri 8, Massimo Antonelli 9 *Trials*. 2022. 23(1):63. PMID: 35057852

Effects of positive end-expiratory pressure on lung ultrasound patterns and their correlation with intracranial pressure in mechanically ventilated brain injured patients. Chiara Robba 1 2, Lorenzo Ball 3 4, Denise **Battaglini** 3, Francesca Iannuzzi 3, Iole Brunetti 3, Pietro Fiaschi 5, Gianluigi Zona 5, Fabio Silvio Taccone 6, Antonio Messina 7, Silvia Mongodi 8, Paolo Pelosi *Crit Care*. 2022. 26(1):31. PMID: 35090525

ICONIC study-conservative versus conventional oxygenation targets in intensive care patients: study protocol for a randomized clinical trial. Grim CCA, et al. *Trials*. 2022. PMID: 35152909 Free PMC article.

Reactivation of Herpes Simplex Virus Type 1 (HSV-1) Detected on Bronchoalveolar Lavage Fluid (BALF) Samples in Critically Ill COVID-19 Patients Undergoing Invasive Mechanical Ventilation: Preliminary Results from Two Italian Centers. Daniele Roberto Giacobbe 1 2, Stefano Di Bella 3, Silvia Dettori 1 2, Giorgia Brucci 1 2, Verena Zerbato 4, Riccardo Pol 4, Ludovica Segat 5, Pierlanfranco D'Agaro 5, Erik Roman-Pognuz 3, Federica Friso 6, Luigi Principe 7, Umberto Lucangelo 6, Lorenzo Ball 8 9, Chiara Robba 8 9, Denise **Battaglini** 9 10, Andrea De Maria 1 2, Iole Brunetti 9, Nicolò Patroniti 8 9, Federica Briano 1 2, Bianca Bruzzone 11, Giulia Guarona 11, Laura Magnasco 2, Chiara Dentone 2, Giancarlo Icardi 1 11, Paolo Pelosi 8 9, Roberto Luzzati 3, Matteo Bassetti 1 2. *Microorganisms*. 2022. 10 (2):362. PMID: 35208817

Ventilation management and outcomes in out-of-hospital cardiac arrest: a protocol for a preplanned secondary analysis of the TTM2 trial. Chiara Robba 1 2, Niklas Nielsen 3, Josef Dankiewicz 4, Rafael Badenes 5, Denise **Battaglini** 6 2 7, Lorenzo Ball 6 2, Iole Brunetti 6, Wendel-Garcia Pedro David 8, Paul Young 9, Glenn Eastwood 10, Michelle S Chew 11, Janus Jakobsen 12, Johan Unden 13 14, Matthew Thomas 15, Michael Joannidis 16, Alistair Nichol 17, Andreas Lundin 18, Jacob Hollenberg 19, Gisela Lilja 13, Naomi E Hammond 20, Manoj Saxena 21, Annborn Martin 22, Miroslav Solar 23, Fabio Silvio Taccone 24, Hans A Friberg 25, Paolo Pelosi *BMJ Open*. 2022. 12(3): e058001. PMID: 35241476

Early versus late intubation in COVID-19 patients failing helmet CPAP: A quantitative computed tomography study. Lorenzo Ball 1, Chiara Robba 2, Jacob Herrmann 3, Sarah E Gerard 4, Yi Xin 5, Maria Pigati 6, Andrea Berardino 7, Francesca Iannuzzi 7, Denise **Battaglini** 8, Iole Brunetti 8, Giuseppe Minetti 9, Sara Seitun 9, Antonio Vena 10, Daniele Roberto Giacobbe 10, Matteo Bassetti 10, Patricia R M Rocco 11, Maurizio Cereda 12, Lucio Castellani 9, Nicolò Patroniti 2, Paolo Pelosi. *Respir Physiol Neurobiol*. 2022. P301:103889. MID: 35307564

Different Methods to Improve the Monitoring of Noninvasive Respiratory Support of Patients with Severe Pneumonia/ARDS Due to COVID-19: An Update. Paolo Pelosi 1 2, Roberto Tonelli 3 4, Chiara Torregiani 5, Elisa Baratella 6, Marco Confalonieri 5, Denise **Battaglini** 1 2, Alessandro Marchioni 3, Paola Confalonieri 5, Enrico Clini 3, Francesco Salton 5, Barbara Ruaro 5 *J Clin Med*. 2022. 11(6):1704. PMID: 35330029

The Importance of Neuromonitoring in Non Brain Injured Patients. **Battaglini D**, et al. *Crit Care*. 2022. 26(1):78 PMID: 35337357 Free PMC article. Review.

Patients With Suspected Severe Adverse Reactions to COVID-19 Vaccination Admitted to Intensive Care Unit: A Case Report. **Battaglini D**, et al. *Front Med (Lausanne)*. 2022. 9:823837. PMID: 35372434 Free PMC article.

Effect of Automated Closed-loop ventilation versus conventional Ventilation on duration and quality of ventilation in critically ill patients (ACTIVE) - study protocol of a randomized clinical trial. Botta M, et al. Among authors: battaglini d. *Trials*. 2022. PMID: 35461264

Acquisition of skills in Critical Emergency Medicine: an experimental study on the SIAARTI Academy CREM experience. **Battaglini D**, Ionescu Maddalena A, Caporusso RR, Garofalo E, Bruni A, Bocci MG, Cingolani E, Giarratano A, Petrini F; SIAARTI ACADEMY CREM Group. *Minerva Anestesiol*. 2021 Jun 25. doi: 10.23736/S0375-9393.21.15427-6. Online ahead of print. PMID: 34170097

Tracheostomy Timing and Outcome in Severe COVID-19: The WeanTrach Multicenter Study. **Battaglini D**, Missale F, Schiavetti I, Filauro M, Iannuzzi F, Ascoli A, Bertazzoli A, Pascucci F, Grasso S, Murgolo F, Binda S, Maraggia D, Montrucchio G, Sales G, Pascarella G, Agrò FE, Faccio G, Ferraris S, Spadaro S, Falò G, Mereto N, Uva A, Maugeri JG, Agrippino B, Vargas M, Servillo G, Robba C, Ball L, Mora F, Signori A, Torres A, Giacobbe DR, Vena A, Bassetti M, Peretti G, Rocco PRM, Pelosi P. *J Clin Med*. 2021 Jun 16;10(12):2651. doi: 10.3390/jcm10122651. PMID: 34208672

Noninvasive respiratory support and patient self-inflicted lung injury in COVID-19: a narrative review. **Battaglini D**, Robba C, Ball L, Silva PL, Cruz FF, Pelosi P, Rocco PRM. *Br J Anaesth*. 2021 Sep;127(3):353-364. doi: 10.1016/j.bja.2021.05.024. Epub 2021 Jun 3. PMID: 34217468
Current pharmacotherapy for methicillin-resistant *Staphylococcus aureus* (MRSA) pneumonia. Bassetti M, Labate L, Melchio M, Robba C, **Battaglini D**, Ball L, Pelosi P, Giacobbe DR. *Expert Opin Pharmacother*. 2021 Dec 9:1-14. doi: 10.1080/14656566.2021.2010706.

Comparative effects of dexmedetomidine and propofol on brain and lung damage in experimental acute ischemic stroke. Sousa GC, Fernandes MV, Cruz FF, Antunes MA, da Silva CM, Takyia C, **Battaglini D**, Samary CS, Robba C, Pelosi P, Rocco PRM, Silva PL. *Sci Rep*. 2021 Nov 30;11(1):23133. doi: 10.1038/s41598-021-02608-1.

Effects of Positive End-Expiratory Pressure on Lung Recruitment, Respiratory Mechanics, and Intracranial Pressure in Mechanically Ventilated Brain-Injured Patients. Robba C, Ball L, Nogas S, **Battaglini D**, Messina A, Brunetti I, Minetti G, Castellan L, Rocco PRM, Pelosi P. *Front Physiol*. 2021 Oct 18;12:711273. doi: 10.3389/fphys.2021.711273. eCollection 2021.

Early Administration of Bamlanivimab in Combination with Etesevimab Increases the Benefits of COVID-19 Treatment: Real-World Experience from the Liguria Region. Vena A, Cenderello G, Balletto E, Mezzogori L, Santagostino Barbone A, Berruti M, Ball L, **Battaglini D**, Bonsignore A, Dentone C, Giacobbe DR, Eldin TK, Mikulska M, Rebesco B, Robba C, Scintu A, Stimamiglio A, Taramasso L, Pelosi P, Artioli S, Bassetti M. *J Clin Med*. 2021 Oct 13;10(20):4682. doi: 10.3390/jcm10204682.

Enterococcal bloodstream infections in critically ill patients with COVID-19: a case series. Giacobbe DR, Labate L, Tutino S, Baldi F, Russo C, Robba C, Ball L, Dettori S, Marchese A, Dentone C, Magnasco L, Crea F, Willison E, Briano F, **Battaglini D**, Patroniti N, Brunetti I, Pelosi P, Bassetti M. *Ann Med*. 2021 Dec;53(1):1779-1786. doi: 10.1080/07853890.2021.1988695.

The value of open-source clinical science in pandemic response: lessons from ISARIC. ISARIC Clinical Characterisation Group. *Lancet Infect Dis*. 2021 Dec;21(12):1623-1624. doi: 10.1016/S1473-3099(21)00565-X. Epub 2021 Oct 4.

Clinical significance of inflammatory markers of bacterial infection in critically ill patients with COVID-19 after treatment with anti-inflammatory and immunomodulatory drugs: a complex new scenario. Giacobbe DR, Ball L, Magnasco L, Dentone C, **Battaglini D**, Robba C, Pelosi P, Bassetti M. *Front Biosci (Landmark Ed)*. 2021 Sep 30;(9):405-408. doi: 10.52586/4954.

Design and Rationale of a Prospective International Follow-Up Study on Intensive Care Survivors of COVID-19: The Long-Term Impact in Intensive Care Survivors of Coronavirus Disease-19-AFTERCOR. Wildi K, Li Bassi G, Barnett A, Panigada M, Colombo SM, Bandera A, Muscatello A, McNicholas B, Laffey JG, **Battaglini D**, Robba C, Torres A, Motos A, Luna CM, Rainieri F, Hodgson C, Burrell AJC, Buscher H, Dalton H, Cho SM, Choi HA, Thomson D, Suen J, Fraser JF. *Front Med (Lausanne)*. 2021 Sep 8;8:738086. doi: 10.3389/fmed.2021.738086. eCollection 2021.

Neurological Manifestations of Coronavirus Disease 2019: A Comprehensive Review and Meta-Analysis of the First 6 Months of Pandemic Reporting. Huth SF, Cho SM, Robba C, Highton D, **Battaglini D**, Bellapart J, Suen JY, Li Bassi G, Taccone FS, Arora RC, Whitman G, Fraser JF, Fanning JP. *Front Neurol.* 2021 Aug 12;12:664599. doi: 10.3389/fneur.2021.664599. eCollection 2021.

Coronavirus Disease 2019 Phenotypes, Lung Ultrasound, Chest Computed Tomography and Clinical Features in Critically Ill Mechanically Ventilated Patients. Orlandi D, **Battaglini D**, Robba C, Viganò M, Bergamaschi G, Mignatti T, Radice ML, Lapolla A, Turtulici G, Pelosi P. *Ultrasound Med Biol.* 2021 Jul 24:S0301-5629(21)00311-2. doi: 10.1016/j.ultrasmedbio.2021.07.014. Online ahead of print.

Design and Rationale of a Prospective International Follow-Up Study on Intensive Care Survivors of COVID-19: The Long-Term Impact in Intensive Care Survivors of Coronavirus Disease-19-AFTERCOR. Wildi K, Li Bassi G, Barnett A, Panigada M, Colombo SM, Bandera A, Muscatello A, McNicholas B, Laffey JG, **Battaglini D**, Robba C, Torres A, Motos A, Luna CM, Rainieri F, Hodgson C, Burrell AJC, Buscher H, Dalton H, Cho SM, Choi HA, Thomson D, Suen J, Fraser JF. *Front Med (Lausanne).* 2021 Sep 8;8:738086. doi: 10.3389/fmed.2021.738086. eCollection 2021.

Clinical significance of inflammatory markers of bacterial infection in critically ill patients with COVID-19 after treatment with anti-inflammatory and immunomodulatory drugs: a complex new scenario. Giacobbe DR, Ball L, Magnasco L, Dentone C, **Battaglini D**, Robba C, Pelosi P, Bassetti M. *Front Biosci (Landmark Ed).* 2021 Sep 30;(9):405-408. doi: 10.52586/4954.

Lung distribution of gas and blood volume in critically ill COVID-19 patients: a quantitative dual-energy computed tomography study. Ball L, Robba C, Herrmann J, Gerard SE, Xin Y, Mandelli M, **Battaglini D**, Brunetti I, Minetti G, Seitun S, Bovio G, Vena A, Giacobbe DR, Bassetti M, Rocco PRM, Cereda M, Rizi RR, Castellan L, Patroniti N, Pelosi P; Collaborators of the GECOVID Group. *Crit Care.* 2021 Jun 21;25(1):214. doi: 10.1186/s13054-021-03610-9. PMID: 34154635

Early Effects of Passive Leg-Raising Test, Fluid Challenge, and Norepinephrine on Cerebral Autoregulation and Oxygenation in COVID-19 Critically Ill Patients. Robba C, Messina A, **Battaglini D**, Ball L, Brunetti I, Bassetti M, Giacobbe DR, Vena A, Patroniti N, Cecconi M, Matta BF, Liu X, Rocco PRM, Czosnyka M, Pelosi P. *Front Neurol.* 2021 Jun 16;12:674466. doi: 10.3389/fneur.2021.674466. eCollection 2021. PMID: 34220684

Infectious disease-associated encephalopathies. Barbosa-Silva MC, Lima MN, **Battaglini D**, Robba C, Pelosi P, Rocco PRM, Maron-Gutierrez T. *Crit Care.* 2021 Jul 6;25(1):236. doi: 10.1186/s13054-021-03659-6. PMID: 34229735

Ischemic and Hemorrhagic Stroke Among Critically Ill Patients With Coronavirus Disease 2019: An International Multicenter Coronavirus Disease 2019 Critical Care Consortium Study. Cho SM, Premraj L, Fanning J, Huth S, Barnett A, Whitman G, Arora RC, **Battaglini D**, Porto DB, Choi H, Suen J, Bassi GL, Fraser JF, Robba C, Griffiee M. *Crit Care Med.* 2021 Jul 28. doi: 10.1097/CCM.0000000000005209. Online ahead of print. PMID: 34269719

Extension of Collagen Deposition in COVID-19 Post Mortem Lung Samples and Computed Tomography Analysis Findings. Ball L, Barisione E, Mastracci L, Campora M, Costa D, Robba C, **Battaglini D**, Micali M, Costantino F, Cittadini G, Patroniti N, Pelosi P, Fiocca R, Grillo F. *Int J Mol Sci.* 2021 Jul 13;22(14):7498. doi: 10.3390/ijms22147498. PMID: 34299124

Neurological Manifestations of Coronavirus Disease 2019: A Comprehensive Review and Meta-Analysis of the First 6 Months of Pandemic Reporting. Huth SF, Cho SM, Robba C, Highton D, **Battaglini D**, Bellapart J, Suen JY, Li Bassi G, Taccone FS, Arora RC, Whitman G, Fraser JF, Fanning JP. *Front Neurol.* 2021 Aug 12;12:664599. doi: 10.3389/fneur.2021.664599. eCollection 2021. PMID: 34456840

Robba C, **Battaglini D**, Samary CS, Silva PL, Ball L, Rocco PRM, Pelosi P. Ischaemic stroke-induced distal organ damage: pathophysiology and new therapeutic strategies. *Intensive Care Med Exp*. 2020 Dec 18;8(Suppl 1):23. doi: 10.1186/s40635-020-00305-3. PMID: 33336314; PMCID: PMC7746424

Robba C, Siwicki-Gieroba D, Sikter A, **Battaglini D**, Dąbrowski W, Schultz MJ, de Jonge E, Grim C, Rocco PR, Pelosi P. Pathophysiology and clinical consequences of arterial blood gases and pH after cardiac arrest. *Intensive Care Med Exp*. 2020 Dec 18;8(Suppl 1):19. doi: 10.1186/s40635-020-00307-1. PMID: 33336311; PMCID: PMC7746422.

Anania P, **Battaglini D**, Miller JP, Balestrino A, Prior A, D'Andrea A, Badaloni F, Pelosi P, Robba C, Zona G, Fiaschi P. Escalation therapy in severe traumatic brain injury: how long is intracranial pressure monitoring necessary? *Neurosurg Rev*. 2020 Nov 19:1–9. doi: 10.1007/s10143-020-01438-5. Epub ahead of print. PMID: 33215367; PMCID: PMC7676754.

Mechanical ventilation in neurocritical care setting: A clinical approach. **Denise Battaglini MD** (Consultant in Intensive Care) Dorota Siwicki Gieroba MD (Consultant in Intensive Care) Iole Brunetti MD (Consultant in Intensive Care) Nicolò Patroniti MD (Associate Professor) Giulia Bonatti MD (Consultant in Intensive Care) Patricia Rieken Macedo Rocco MD, PhD (Full Professor) Paolo Pelosi MD, FERS (Full Professor) Chiara Robba MD, PhD (Consultant in Intensive Care). *Best Practice Research in Anesthesiology*, 2020.

Neuromonitoring during general anesthesia in non-neurologic surgery. Giulia Bonatti MD (Consultant in Anesthesia and Intensive Care) Francesca Iannuzzi MD (Consultant in Anesthesia and Intensive Care) Sara Amodio MD (Consultant in Anesthesia and Intensive Care) Maura Mandelli MD (Consultant in Anesthesia and Intensive Care) Stefano Noga MD (Consultant in Anesthesia and Intensive Care) Marco Sottano MD (Consultant in Anesthesia and Intensive Care) Iole Brunetti MD (Consultant in Anesthesia and Intensive Care) **Denise Battaglini MD** (Consultant in Anesthesia and Intensive Care) Paolo Pelosi MD, FERS (Professor in Anesthesia and Intensive Care) Chiara Robba MD, PhD (Consultant in Anesthesia and Intensive Care). *Best Practice Research in Anesthesiology*, 2020.

An appraisal of respiratory system compliance in mechanically ventilated COVID-19 patients.

Li Bassi G, Suen JY, Dalton HJ, White N, Shrapnel S, Fanning JP, Lique B, Hinton S, Vuorinen A, Booth G, Millar JE, Forsyth S, Panigada M, Laffey J, Brodie D, Fan E, Torres A, Chiumello D, Corley A, Elhazmi A, Hodgson C, Ichiba S, Luna C, Murthy S, Nichol A, Ng PY, Ogino M, Pesenti A, Trieu HT, Fraser JF; COVID-19 Critical Care Consortium. *Crit Care*. 2021 Jun 9;25(1):199. doi: 10.1186/s13054-021-03518-4

Perioperative liberal versus restrictive fluid strategies and postoperative outcomes: a systematic review and meta-analysis on randomised-controlled trials in major abdominal elective surgery.

Messina A, Robba C, Calabrò L, Zambelli D, Iannuzzi F, Molinari E, Scarano S, **Battaglini D**, Baggiani M, De Mattei G, Saderi L, Sotgiu G, Pelosi P, Cecconi M. *Crit Care*. 2021 Jun 11;25(1):205. doi: 10.1186/s13054-021-03629-y

Non-invasive respiratory support and patient self-inflicted lung injury in COVID-19: a narrative review. **Denise Battaglini**, Chiara Robba, Lorenzo Ball, Pedro Leme Silva, Fernanda Ferreira Cruz, Paolo Pelosi, Patricia Rieken Macedo Rocco. *Br J Anaesth*. 2021. Doi: 10.1016/j.bja.2021.05.024. In press.

Lung distribution of gas and blood volume in critically ill COVID-19 patients: a quantitative dual-energy computed tomography study. Lorenzo Ball; Chiara Robba; Jacob Herrmann; Sarah E Gerard; Yi Xin; Maura Mandelli; **Denise Battaglini**; Iole Brunetti; Giuseppe Minetti; Sara Seitun; Giulio Bovio; Antonio Vena; Daniele Roberto Giacobbe; Matteo Bassetti; Patricia RM Rocco; Maurizio Cereda; Rahim R Rizzi; Lucio Castellan; Nicolò Patroniti; Paolo Pelosi. *Critical Care*. 2021. In press.

Ischemic and Hemorrhagic Stroke Among Critically Ill Patients with COVID-19: An International Multicenter COVID-19 Critical Care Consortium Study. Sung-Min Cho, Laviénraj Premraj, Jonathon Fanning, Samuel Huth, Adrian Barnett, Glenn Whitman, Rakesh C. Arora, Judith Bellapart-Rubio, **Denise Battaglini**, Diego Bastos,

HuiMahn Choi, Jacky Suen, Gianluigi Li Bassi, John Fraser, Chiara Robba, Matthew Griffee. Crit Care Med 2021. In press.

The Role of Dysbiosis in Critically Ill Patients with COVID-19 and Acute Respiratory Distress Syndrome. **Denise Battaglini**, Chiara Robba, Andrea Fedele, Sebastian Tranca, Samir Giuseppe Sukkar, Matteo Bassetti, Daniele Roberto Giacobbe, Antonio Vena, Nicolò Patroniti, Lorenzo Ball, Iole Brunetti, Antoni Torres Martí, Patricia R. M. Rocco and Paolo Pelosi. Front Medicine. 2021. Doi: 10.3389/fmed.2021.671714. In press.

Effects of passive leg raising test, fluid challenge and norepinephrine on cerebral autoregulation in COVID-19 critically ill patients Chiara Robba, Antonio Messina, **Denise Battaglini**, Lorenzo Ball, Iole Brunetti, Matteo Bassetti, Daniele Roberto Giacobbe, Antonio Vena, Nicolò Patroniti, Maurizio Cecconi, Basil F Matta, Xiuyun Liu, Patricia R. M. Rocco, Marek Czosnyka and Paolo Pelosi. Front Neurol. 2021. In press

An Experimental Pre-Post Study on the Efficacy of Respiratory Physiotherapy in Severe Critically Ill COVID-19 Patients. **Denise Battaglini**, Salvatore Caiffa, Giovanni Gasti, Elena Ciaravolo, Chiara Robba, Jacob Herrmann, Sarah E. Gerard, Matteo Bassetti, Paolo Pelosi, Lorenzo Ball on behalf of the GECOVID Group. Journal of Clinical Medicine. 2021. 10(10), 2139; <https://doi.org/10.3390/jcm10102139>. In press.

Ten golden rules for individualized mechanical ventilation in acute respiratory distress syndrome. **Denise Battaglini**, Marco Sottano, Lorenzo Ball, Chiara Robba, Patricia R.M. Rocco, Paolo Pelosi. Journal of Intensive Medicine. 2021. In press. <https://doi.org/10.1016/j.jointm.2021.01.003>

Computed tomography assessment of PEEP-induced alveolar recruitment in patients with severe COVID-19 pneumonia. Ball L, Robba C, Maiello L, Herrmann J, Gerard SE, Xin Y, **Battaglini D**, Brunetti I, Minetti G, Seitun S, Vena A, Giacobbe DR, Bassetti M, Rocco PRM, Cereda M, Castellan L, Patroniti N, Pelosi P; GECOVID (GEnoa COVID-19) group. Crit Care. 2021 Feb 24;25(1):81. doi: 10.1186/s13054-021-03477-w

Novel Synthetic and Natural Therapies for Traumatic Brain Injury. **Battaglini D**, Siwicka-Gieroba D, Rocco PR, Cruz FF, Silva PL, Dabrowski W, Brunetti I, Patroniti N, Pelosi P, Robba C. Curr Neuropharmacol. 2021 Feb 25. doi: 10.2174/1570159X19666210225145957. Online ahead of print.

How do you manage ANTICOagulant therapy in neurosurgery? The ANTICO survey of the Italian Society of Neurosurgery (SINCH). Prior A, Fiaschi P, Iaccarino C, Stefani R, **Battaglini D**, Balestrino A, Anania P, Prior E, Zona G. BMC Neurol. 2021 Mar 3;21(1):98. doi: 10.1186/s12883-021-02126-7.

Ten things you need to know about intensive care unit management of mechanically ventilated patients with COVID-19. Robba C, **Battaglini D**, Ball L, Pelosi P, Rocco PRM. Expert Rev Respir Med. 2021 Apr 6:1-10. doi: 10.1080/17476348.2021.1906226. Online ahead of print.

Early effects of ventilatory rescue therapies on systemic and cerebral oxygenation in mechanically ventilated COVID-19 patients with acute respiratory distress syndrome: a prospective observational study. Robba C, Ball L, **Battaglini D**, Cardim D, Moncalvo E, Brunetti I, Bassetti M, Giacobbe DR, Vena A, Patroniti N, Rocco PRM, Matta BF, Pelosi P; collaborators. Crit Care. 2021 Mar 19;25(1):111. doi: 10.1186/s13054-021-03537-1

Effects of distancing and pattern of breathing on the filtering capability of commercial and custom-made facial masks: An in-vitro study. Ball L, Alberti S, Belfortini C, Almondo C, Robba C, **Battaglini D**, Cravero C, Pelosi P, Caratto V, Ferretti M. PLoS One. 2021 Apr 22;16(4):e0250432. doi: 10.1371/journal.pone.0250432. eCollection 2021

Safety profile of enhanced thromboprophylaxis strategies for critically ill COVID-19 patients during the first wave of the pandemic: observational report from 28 European intensive care units. Lavinio A, Ercole A, **Battaglini D**, Magnoni S, Badenes R, Taccone FS, Helbok R, Thomas W, Pelosi P, Robba C; collaborators. Crit Care. 2021 Apr 22;25(1):155. doi: 10.1186/s13054-021-03543-3.

Battaglini D, Santori G, Chandratham K, Iannuzzi F, Bastianello M, Tarantino F, Ball L, Giacobbe DR, Vena A, Bassetti M, Inglese M, Uccelli A, Rocco PRM, Patroniti N, Brunetti I, Pelosi P, Robba C. Neurological Complications and Noninvasive Multimodal Neuromonitoring in Critically Ill Mechanically Ventilated COVID-19 Patients. *Front Neurol.* 2020 Nov 27;11:602114. doi: 10.3389/fneur.2020.602114. PMID: 33329361; PMCID: PMC7729072.

Battaglini D, Ball L, Wittenstein J, Cohen E, Gama de Abreu M, Pelosi P. PEEP in thoracic anesthesia: PROS and CONS. *Minerva Anesthesiol.* 2020 Dec 10. doi: 10.23736/S0375-9393.20.14797-7. Epub ahead of print. PMID: 33300325.

Battaglini D, Anania P, Rocco PRM, Brunetti I, Prior A, Zona G, Pelosi P, Fiaschi P. Escalate and De-Escalate Therapies for Intracranial Pressure Control in Traumatic Brain Injury. *Front Neurol.* 2020 Nov 24;11:564751. doi: 10.3389/fneur.2020.564751. PMID: 33324317; PMCID: PMC7724991

Battaglini D, Motos A, Li Bassi G, Yang H, Pagliara F, Yang M, Aguilera Xiol E, Meli A, Bobi J, Frigola G, Senussi T, Idone F, Travierso C, Chiurazzi C, Fernandez-Barat L, Rigol M, Ramirez J, Pelosi P, Chiumello D, Antonelli M, Nicolau DP, Bringue J, Artigas A, Guerrero L, Soy D, Torres A. Efficacy of Telavancin in Comparison to Linezolid in a Porcine Model of Severe Methicillin-Resistant *Staphylococcus aureus* Pneumonia. *Antimicrob Agents Chemother.* 2020 Dec 16;65(1):e01009-20. doi: 10.1128/AAC.01009-20. PMID: 33046500

Pathogenesis of Multiple Organ Injury in COVID-19 and Potential Therapeutic Strategies. Lopes-Pacheco Miquéias, Silva Pedro Leme, Cruz Fernanda Ferreira, **Battaglini Denise**, Robba Chiara, Pelosi Paolo, Morales Marcelo Marcos, Caruso Neves Celso, Rocco Patricia Rieken Macedo. *Frontiers in Medicine.* Feb 2021.

Incidence and Prognosis of Ventilator-Associated Pneumonia in Critically Ill Patients with COVID-19: A Multicenter Study. Daniele Roberto Giacobbe 1, **Denise Battaglini**2, Elisa Martina Enrile 2,3, Chiara Dentone 1, Antonio Vena 1, Chiara Robba 2,3, Lorenzo Ball 2,3, Michele Bartoletti 4, Irene Coloretti 5, Stefano Di Bella 6, Antonio Di Biagio 1,7, Iole Brunetti 2, Malgorzata Mikulska 1,7, Novella Carannante 8, Andrea De Maria 1,7, Laura Magnasco 1,7OrclD, Alberto Enrico Maraolo 9, Michele Mirabella 1,7, Giorgia Montrucchio 10,11OrclD, Nicolò Patroniti 2,3, Lucia Taramasso 1, Giusy Tiseo 12, Giacomo Fornaro 4, Fiorentino Fraganza 13, Luca Monastra 13, Erik Roman-Pognuz 6,14, Giacomo Paluzzano 6, Giuseppe Fiorentino 15, Antonio Corcione 16, Linda Bussini 4, Renato Pascale 4, Silvia Corcione 17, Tommaso Tonetti 18, Matteo Rinaldi 4, Marco Falcone 12, Emanuela Biagioni 5, Vito Marco Ranieri 18, Maddalena Giannella 4, Francesco Giuseppe De Rosa 17OrclD, Massimo Girardis 5, Francesco Menichetti 12, Pierluigi Viale 4, Paolo Pelosi 2,3 and Matteo Bassetti 1,7. *J Clin Med.* Feb 2021.

Association between perioperative fluid administration and postoperative outcomes: a 20-year systematic review and a meta-analysis of randomized goal-directed trials in major visceral/noncardiac surgery. Antonio Messina, Chiara Robba, Lorenzo Calabrò, Daniel Zambelli, Francesca Iannuzzi, Edoardo Molinari, Silvia Scarano, **Denise Battaglini**, Marta Baggiani, Giacomo De Mattei, Laura Saderi, Giovanni Sotgiu, Paolo Pelosi, Maurizio Cecconi. *Crit Care Jan* 2021.

Pun BT, Badenes R, Heras La Calle G, Orun OM, Chen W, Raman R, Simpson BK, Wilson-Linville S, Hinojal Olmedillo B, Vallejo de la Cueva A, van der Jagt M, Navarro Casado R, Leal Sanz P, Orhun G, Ferrer Gómez C, Núñez Vázquez K, Piñeiro Otero P, Taccone FS, Gallego Curto E, Caricato A, Woien H, Lacave G, O'Neal HR Jr, Peterson SJ, Brummel NE, Girard TD, Ely EW, Pandharipande PP; COVID-19 Intensive Care International Study Group. Prevalence and risk factors for delirium in critically ill patients with COVID-19 (COVID-D): a multicentre cohort study. *Lancet Respir Med.* 2021 Jan 8:S2213-2600(20)30552-X. doi: 10.1016/S2213-2600(20)30552-X.

Vena A, Taramasso L, Di Biagio A, Mikulska M, Dentone C, De Maria A, Magnasco L, Nicolini LA, Bruzzone B, Icardi G, Orsi A, Pelosi P, Ball L, **Battaglini D**, Brunetti I, Loconte M, Patroniti NA, Robba C, Bavastro M, Cerchiaro

M, Giacobbe DR, Schiavetti I, Berruti M, Bassetti M; GECOVID study group. Prevalence and Clinical Significance of Persistent Viral Shedding in Hospitalized Adult

Patients with SARS-CoV-2 Infection: A Prospective Observational Study. *Infect Dis Ther.* 2021 Jan 8:1–12. doi: 10.1007/s40121-020-00381-8. Epub ahead of print. PMID: 33417230; PMCID: PMC7791162

Robba C, **Battaglini D**, Ball L, Valbusa A, Porto I, Della Bona R, La Malfa G, Patroniti N, Brunetti I, Loconte M, Bassetti M, Giacobbe DR, Vena A, Silva CLM, Rocco PRM, Pelosi P. Coagulative Disorders in Critically Ill COVID-19 Patients with Acute Distress Respiratory Syndrome: A Critical Review. *J Clin Med.* 2021 Jan 3;10(1):140. doi: 10.3390/jcm10010140. PMID: 33401632; PMCID: PMC7795033

Mauri T, Foti G, Fornari C, Grasselli G, Pinciroli R, Lovisari F, Tubiolo D, Volta CA, Spadaro S, Rona R, Rondelli E, Navalesi P, Garofalo E, Knafelj R, Gorjup V, Colombo R, Cortegiani A, Zhou JX, D'Andrea R, Calamai I, González ÁV, Roca O, Grieco DL, Jovaisa T, Bampalis D, Becher T, **Battaglini D**, Ge H, Luz M, Constantin JM, Ranieri M, Guerin C, Mancebo J, Pelosi P, Fumagalli R, Brochard L, Pesenti A. Sigh in patients with acute hypoxemic respiratory failure and acute respiratory distress syndrome: the PROTECTION pilot randomized clinical trial. *Chest.* 2020 Nov 13:S0012-3692(20)35138-2. doi: 10.1016/j.chest.2020.10.079. Epub ahead of print. PMID: 33197403; PMCID: PMC7664474.

Meli A, Barbeta Viñas E, **Battaglini D**, Li Bassi G, Yang H, Yang M, Bobi J, Motos A, Fernández-Barat L, Chiumello D, Pelosi P, Torres A. Lateral position during severe mono-lateral pneumonia: an experimental study. *Sci Rep.* 2020 Nov 9;10(1):19372. doi: 10.1038/s41598-020-76216-w. PMID: 33168922; PMCID: PMC7653044

Bassetti M, Vena A, **Battaglini D**, Pelosi P, Giacobbe DR. The role of new antimicrobials for Gram-negative infections in daily clinical practice. *Curr Opin Infect Dis.* 2020 Dec;33(6):495-500. doi: 10.1097/QCO.0000000000000686. PMID: 33009142

Battaglini D, Brunetti I, Anania P, Fiaschi P, Zona G, Ball L, Giacobbe DR, Vena A, Bassetti M, Patroniti N, Schenone A, Pelosi P, Rocco PRM, Robba C. Neurological Manifestations of Severe SARS-CoV-2 Infection: Potential Mechanisms and Implications of Individualized Mechanical Ventilation Settings. *Front Neurol.* 2020 Aug 12;11:845. doi: 10.3389/fneur.2020.00845. PMID: 32903391; PMCID: PMC7434832

Vena A, Berruti M, Adessi A, Blumetti P, Brignole M, Colognato R, Gaggioli G, Giacobbe DR, Bracci-Laudiero L, Magnasco L, Signori A, Taramasso L, Varelli M, Vendola N, Ball L, Robba C, **Battaglini D**, Brunetti I, Pelosi P, Bassetti M. Prevalence of Antibodies to SARS-CoV-2 in Italian Adults and Associated Risk Factors. *J Clin Med.* 2020 Aug 27;9(9):2780. doi: 10.3390/jcm9092780. PMID: 32867328; PMCID: PMC7563864.

Battaglini D, Robba C, Caiffa S, Ball L, Brunetti I, Loconte M, Giacobbe DR, Vena A, Patroniti N, Bassetti M, Torres A, Rocco PR, Pelosi P. Chest physiotherapy: An important adjuvant in critically ill mechanically ventilated patients with COVID-19. *Respir Physiol Neurobiol.* 2020 Nov;282:103529. doi: 10.1016/j.resp.2020.103529. Epub 2020 Aug 17. PMID: 32818606; PMCID: PMC7430249.

Escalate and de-escalate therapies for intracranial pressure control in traumatic brain injury

Denise Battaglini, Pasquale Anania, Patricia Rieken Macedo Rocco, Alessandro Prior, Gianluigi Zona, Paolo Pelosi and Pietro Fiaschi. *Front Neurol* 2020.

Neurological complications and noninvasive multimodal neuromonitoring in critically ill COVID-19 patients.

Denise Battaglini, Gregorio Santori, Karthikka Chandratham, Francesca Iannuzzi, Matilde Bastianello, Fabio Tarantino, Lorenzo Ball, Daniele Roberto Giacobbe, Antonio Vena, Matteo Bassetti, Matilde Inglese, Antonio Uccelli, Patricia R. M. Rocco, Nicolò Patroniti, Iole Brunetti, Paolo Pelosi and Chiara Robba. *Front Neurol* 2020.

Escalation therapy in severe traumatic brain injury: how long is intracranial pressure monitoring necessary? Anania P, et al. Among authors: **Battaglini D**. *Neurosurg Rev.* 2020. PMID: 33215367 Review.

Sigh in patients with acute hypoxemic respiratory failure and acute respiratory distress syndrome: the PROTECTION pilot randomized clinical trial. Mauri T, et al. Among authors: **Battaglini D**. *Chest*. 2020. PMID: 33197403 Free PMC article.

Efficacy of telavancin in comparison to linezolid in a porcine model of severe methicillin-resistant *Staphylococcus aureus* (MRSA) pneumonia. **Battaglini D**, et al. *Antimicrob Agents Chemother*. 2020. PMID: 33046500

The role of new antimicrobials for Gram-negative infections in daily clinical practice. Bassetti M, et al. Among authors: **Battaglini D**. *Curr Opin Infect Dis*. 2020. PMID: 33009142

Lateral position during severe mono-lateral pneumonia: an experimental study. Meli A, et al. Among authors: **Battaglini D**. *Sci Rep*. 2020. PMID: 33168922 Free PMC article.

Response to letter to the editor: catastrophic antiphospholipid antibody syndrome and multiple organ dysfunctions in critically ill patients with COVID-19. Robba C, et al. Among authors: **Battaglini D**. *Expert Rev Respir Med*. 2020. PMID: 32713214

Pituitary Dysfunction After Aneurysmal Subarachnoid Hemorrhage: A Prospective Cohort Study. Robba C, et al. Among authors: **Battaglini D**. *J Neurosurg Anesthesiol*. 2020. PMID: 32604221

The role of external ventricular drainage for the management of posterior cranial fossa tumours: a systematic review. Anania P, et al. Among authors: **Battaglini D**. *Neurosurg Rev*. 2020. PMID: 32494987 Review.

Prevalence of Antibodies to SARS-CoV-2 in Italian Adults and Associated Risk Factors. Vena A, et al. Among authors: **Battaglini D**. *J Clin Med*. 2020. PMID: 32867328 Free PMC article.

Neurological Manifestations of Severe SARS-CoV-2 Infection: Potential Mechanisms and Implications of Individualized Mechanical Ventilation Settings. **Battaglini D**, et al. *Front Neurol*. 2020. PMID: 32903391 Free PMC article. Review.

The renin-angiotensin-aldosterone system: Role in pathogenesis and potential therapeutic target in COVID-19. Braga CL, et al. Among authors: **Battaglini D**. *Pharmacol Res Perspect*. 2020. PMID: 32658389

Multiple organ dysfunction in SARS-CoV-2: MODS-CoV-2. Robba C, et al. Among authors: **Battaglini D**. *Expert Rev Respir Med*. 2020. PMID: 32567404

Gut Microbiota in Acute Ischemic Stroke: From Pathophysiology to Therapeutic Implications. **Battaglini D**, et al. *Front Neurol*. 2020. PMID: 32670191 Free PMC article. Review.

Bloodstream infections in critically ill patients with COVID-19. Giacobbe DR, et al. Among authors: **Battaglini D**. *Eur J Clin Invest*. 2020. PMID: 32535894

Chest physiotherapy: An important adjuvant in critically ill mechanically ventilated patients with COVID-19. **Battaglini D**, et al. *Respir Physiol Neurobiol*. 2020. PMID: 32818606 Free PMC article. Review.

Pros and cons of corticosteroid therapy for COVID-19 patients. Mattos-Silva P, et al. Among authors: **Battaglini D**. *Respir Physiol Neurobiol*. 2020. PMID: 32659271

Title: Distinct phenotypes require distinct respiratory management strategies in severe COVID-19
Chiara Robba, Chiara Robba, **Denise Battaglini**, Lorenzo Ball, Nicolo' Patroniti, Maurizio Loconte, Iole Brunetti, Antonio Vena, Daniele Giacobbe, Matteo Bassetti, Patricia Rieken Macedo Rocco, Paolo Pelosi. *Respiratory Physiology and Neurobiology*. 2020. DOI: 10.1016/j.resp.2020.103455

Title: Emerging therapies for COVID-19 pneumonia. **Denise Battaglini**, Chiara Robba, Lorenzo Ball, Fernanda Ferreira Cruz, Pedro Leme Silva, Paolo Pelosi & Patricia Rieken Macedo Rocco. Expert Opinion on Investigational Drugs, 2020. DOI: 10.1080/13543784.2020.1771694

Title: Author response to: Mechanical ventilation in patients with acute ischemic stroke: from pathophysiology to clinical practice. **Denise Battaglini**, Giulia Bonatti, Chiara Robba, Patricia RM Rocco, Paolo Pelosi. Rivista scientifica: Crit Care, 2020. 24:139. 10.1186/s13054-020-2806-x

Title: Brain–heart interaction after acute ischemic stroke. **Denise Battaglini**, Chiara Robba, Adriana Lopes da Silva, Cynthia dos Santos Samary, Pedro Leme Silva, Felipe Dal Pizzol, Paolo Pelosi and Patricia Rieken Macedo Rocco. Rivista scientifica: Crit Care, 2020. 24:163. 10.1186/s13054-020-02885-8

Title: Intraoperative ventilator settings and their association with postoperative pulmonary complications in neurosurgical patients: post-hoc analysis of LAS VEGAS study. Chiara Robba, Sabine N. T. Hemmes, Ary Serpa Neto, Thomas Bluth, Jaime Canet, Michael Hiesmayr, M. Wiersma Hollmann, Gary H. Mills, Marcos F. Vidal Melo, Christian Putensen, Samir Jaber, Werner Schmid, Paolo Severgnini, Hermann Wrigge, **Denise Battaglini**, Lorenzo Ball, Marcelo Gama de Abreu, Marcus J. Schultz, Paolo Pelosi, FERS for the LAS VEGAS investigators and the PROtective VEntilation Network and the Clinical Trial Network of the European Society of Anaesthesiology. BMC Anesthesiology, 2020. DOI: 10.1186/s12871-020-00988-x

Title: Driving Pressure During General Anesthesia for Open Abdominal Surgery (DESIGNATION): study protocol of a randomized clinical trial. Hol L, Nijbroek SGLH, Neto AS, de Abreu MG, Pelosi P, Hemmes SNT, Aarts LPHJ, Akkerman RDL, Albersen JJE, Aurilio C, **Battaglini D**, de Boer HD, Boom A, Boer C, Brouwer T, Buhre WFFA, Bulte CSE, Edward-Rutten GM, Godfried MB, Helmerhorst HJF, Hofland J, Hoogenboom H, Ten Hoop W, Houweling BM, Huhn R, Konijn W, Koopman-van Gemert AWMM, de Korte-de Boer DJ, Kortekaas MC, van Lier F, Preckel B, Rad M, Sansone P, Stamkot A, Stolker RJ, Thiel B, Ubben JFH, Struys MMRF, In 't Veld BA, Wrigge H, Zeillemaker-Hoekstra M, van der Zwan T, Zwijsen JHMJ, Hollmann MW, Schultz MJ. Rivista scientifica / altro: Trials. 2020 Feb 18;21(1):198. 10.1186/s13063-020-4075-z.

Title: Author's response to "Mechanical ventilation and neurocritical patients: is there a role for anti-neuroinflammatory therapies?" **D. Battaglini**, G. Bonatti, D. Robba, P.R.M. Rocco, P. Pelosi. Crit Care, 2020. 24:22. doi: 10.1186/s13054-020-2737-6

Title: Mechanical ventilation in patients with acute ischemic stroke: from pathophysiology to clinical practice. C. Robba, G. Bonatti, **D. Battaglini**, P. RM Rocco, P. Pelosi Critical Care, 2019 Dec 2;23(1):388. doi: 10.1186/s13054-019-2662-8. Review.

Title: Setting intraoperative positive end expiratory pressure: how to be protective. A. Iachi, **D. Battaglini**, C. Robba, P. Pelosi, L. Ball. JECM, 2019. doi: 10.21037/jecm.2019.09.11

Title: Optimal approaches to preventing severe community-acquired pneumonia. G. Tanzella, A. Motos, **D. Battaglini**, A. Meli, A. Torres. Expert Review of Respiratory Medicine, 2019. Oct;13(10):1005-1018. doi: 10.1080/17476348.2019.1656531

Title: Perioperative anaesthetic management of patients with or at risk of acute distress respiratory syndrome undergoing emergency surgery. **D. Battaglini**, C. Robba, P.R.M. Rocco, M. Gama de Abreu, L. Ball. BMC Anesthesiology, 2019. Aug 14;19(1):153. doi: 10.1186/s12871-019-0804-9. Review.

Title: Risk and Prognostic Factors in Very Old Patients with Sepsis Secondary to Community-Acquired Pneumonia. Catia Cillóniz, Cristina Dominedò, Antonella Ielpo, Miquel Ferrer, Albert Gabarrús, **Denise Battaglini**, Jesús Bermejo-Martin, Andrea Meli,

Carolina García-Vidal, Adamantia Liapikou, Mervyn Singer and Antoni Torres. J Clin Med. 2019 Jul 2;8(7). pii: E961. doi: 10.3390/jcm8070961

Title: Short-Term Appraisal of the Effects and Safety of Manual Versus Ventilator Hyperinflation in an Animal Model of Severe Pneumonia Gianluigi Li Bassi, Joan Daniel Martí, Talitha Comaru, Eli Aguilera-Xiol, Montserrat Rigol, George Ntoumenopoulos, Silvia Terraneo, Francesca De Rosa, Mariano Rinaudo, Laia Fernandez-Barat, **Denise Battaglini**, Andrea Meli, Miguel Ferrer, Paolo Pelosi, Davide Chiumello, and Antoni Torres. Respir Care. 2019 Jul;64(7):760-770. doi: 10.4187/respcare.06487.

Title: An in-vitro study to evaluate high-volume low-pressure endotracheal tube cuff deflation dynamics. JD. Marti, G. Li Bassi, V. Isetta, MR. Lazaro, E. Aguilera Xiol, T. Comaru, **D. Battaglini**, A. Meli, M. Ferrer, D. Navajas, P. Pelosi, D. Chiumello, A. Torres, R. Farre. *Minerva Anesthesiol.* 2019. 2019 Aug;85(8):846-853 doi: 10.23736/S0375-9393.19.13133-1

Title: Inhaled amikacin for severe Gram-negative pulmonary infections in the intensive care unit: current status and future prospects. A. Torres, A. Motos, **D. Battaglini**, G. Li Bassi. Crit Care. 2018 Dec 17;22(1):343. doi: 10.1186/s13054-018-1958-4. Review

Title: Appraisal of systemic inflammation and diagnostic markers in a porcine model of VAP: secondary analysis from a study on novel preventive strategies. G. Li Bassi, R. Guillamat Prats, A. Artigas, E. Aguilera Xiol, JD. Marti, O.T. Ranzani, M. Rigol, L. Fernandez, A. Meli, **D. Battaglini**, N. Luque, M. Ferrer, I. Martin-Loeches, P. Póvoa, D. Chiumello, P. Pelosi and A. Torres. Intensive Care Med Exp. 2018 Oct 20;6(1):42. doi: 10.1186/s40635-018-0206-1.

Title: In-vitro analysis of a novel 'add-on' silicone cuff to improve sealing properties of tracheal tubes. G. Li Bassi, C. Chiurazzi, E. Aguilera, C. Traverso, **D. Battaglini**, M. Yang, A. Motos, H. Yang, A. Meli, D. Marti, O.T. Ranzani, F. Blasi, P. Pelosi, D. Chiumello, A. Torres. Anaesthesia. 2018 Nov;73(11):1372-1381. doi: 10.1111/anae.14413.

Title: Postintubation tracheal stenosis: a case report. **D. Battaglini**, I. Brunetti, A. Molin, F. Tarantino, M. Sorbello, F. Mora, G. Peretti, P. Pelosi. TAAC. Ottobre 2017.

Title: Postoperative respiratory disorders. L. Ball, **D. Battaglini**, P. Pelosi. Curr Opin Crit Care. 2016 Aug;22(4):379-85. doi: 10.1097/MCC.0000000000000312. Review

Title: Respiratory Care of Neurologic Patient. L. Ball, **D. Battaglini**, P. Pelosi Springer, 2019. Textbook of Neuroanesthesia and Neurocritical Care, Volume II - Neurocritical Care. ISBN 978-981-13-3389-7

Title: Ten false beliefs on mechanical ventilation in brain injured patients. Book Chapter. **D. Battaglini**, C. Robba, P. Pelosi. Springer Nature Switzerland AG 2020 1 J.-L. Vincent (ed.), *Annual Update in Intensive Care and Emergency Medicine 2020*, AUICEM, https://doi.org/10.1007/978-3-030-37323-8_34.

Abstract *International Congress Society of Critical Care Medicine 2023: Earlier tracheostomy does not improve outcome in stroke patients: a meta-regression. Premraj, L, et al. and Battaglini D.*

Abstract *International Congress ESICM 2022: Tracheostomy outcomes in critically ill patients with COVID-19: a systematic review, meta-analysis and meta-regression. Premraj, L, Sutt AL, Robba, C, Cho, SM, Di Giacinto I, Bressan, F, Sorbello, M, Cuthbertson, B, White, N, Li Bassi, G., Suen, J, Pelosi, P, Battaglini, D.*

Abstract *International Congress ESICM 2022:*

Abstract *International Congress ESICM 2022:*

Abstract *International Congress ESICM 2021: The effect of rescue therapies on systemic and cerebral O2 in COVID-19* Iannuzzi F, Ball L, **Battaglini D**, Brunetti I et al.

Abstract *National Congress 73° SIAARTI-ICARE, Roma 2019 – Efficacy of multimodal specialistic training on technical and non-technical skills in critical emergency medicine (CREM): the role of SIAARTI Academy.* A. Ionescu Maddalena, R. R. Caporusso, E. Garofalo, A. Bruni, M. G. Bocci, F. Petrini, **D. Battaglini**.

Abstract *International Congress ERS (European Respiratory Society). Madrid, 28/09-02/09/2019 - Telavancin vs. linezolid in an animal model of severe MRSA pneumonia.* M. Yang, G. Li Bassi, A. Motos, H. Yang, J. Bobi, A. Meli, **D. Battaglini**, R. Cabrera, G. Tanzella, C.R. Vargas, L. Fernandez, M. Rigol, A. Torres.

Abstract *Tracheal intubation in operating room in adult patients at risk for cervical spinal cord injury: a systematic review and meta-analysis of randomized trials. SMART Meeting 2019.* P. De Domenico, L. Maiello, **D. Battaglini**, M. Pintaudi, C. Notte, D. Mamo, M. Filippini, P. Pelosi, A. Zangrillo.

Abstract *Congresso internazionale 39° ISICEM, Brussels, 2019 – Risk Factors for sepsis in very old patients with community-acquired pneumonia - C. Dominedò, C. Cilloniz, A. Ielpo, M. Ferrer, A. Gabarrús, D. Battaglini, J. Bermejo-Martin, A. Meli, C. Garcia-Vidal, A. Liapikou, A. Torres.*

Abstract *Congresso internazionale 29° ECCMID. Amsterdam 2019. Effect of aerosolized amikacin (BAY41-6551) within endotracheal tubes biofilm from pigs with severe Pseudomonas aeruginosa pneumonia.* L. Fernandez-Barat, R. Cabrera, A. Motos, H. Yang; M. Yang, G. Li Bassi, J. Bobi, A. Meli, **D. Battaglini**, F. Pagliara, T. Ferrer, N. Vázquez, D. Chiumello, P. Pelosi, M. Rigol, M. Ferrer, A. Torres.

Abstract *Congresso internazionale 29° ECCMID. Amsterdam 2019. Bactericidal efficacy of antibiotic combinations associated with corticosteroids in a porcine model of severe Streptococcus pneumoniae pneumonia.* A. Motos, M. Yang, A. Meli, **D. Battaglini**, H. Yang, J. Bobi, R. Cabrera, G. Tanzella, C. Rosa-Vargas, O. Renzani, L. Fernandez-Barat, M. Rigol, D. Nicolau, D. Chiumello, P. Pelosi, A. Torres.

Abstract *Congresso internazionale 29° ECCMID. Amsterdam 2019. Inhaled amikacin in association with systemic meropenem reduces proximal airways bacterial burden and hinders antibiotic resistance in a swine model of unilateral MDR.* H. Yang, G. Li Bassi, M. Yang, A. Meli, **D. Battaglini**, J. Bobi, R. Cabrera, A. Motos, A. Ferrer, F. Pagliara, L. Fernandez-Barat, M. Rigol, D. Nicolau, D. Chiumello, P. Pelosi, A. Torres.

Abstract *Congresso internazionale 29° ECCMID. Amsterdam 2019. Prevalence, risk and prognostic factors related to sepsis in very old patients with community-acquired pneumonia.* C. Cilloniz, C. Dominedò, A. Ielpo, M. Ferrer, A. Gabarrús, J. F. Bermejo-Martin, C. Garcia Vidal, A. Lipikou, A. Meli, **D. Battaglini**, A. Torres.

Abstract *Congresso SEPAR. Santiago de Compostela, 2019. Prevalencia, factores de riesgo y pronóstico relacionados con sepsis en el paciente anciano con neumonia adquirida en la comunidad.* C. Cilloniz, C. Dominedò, A. Ielpo, M. Ferrer, A. Gabarrús, **D. Battaglini**, J. Bermejo-Martin, A. Meli, C. Garcia-Vidal, D. Magdaleno.

Abstract *Congresso nazionale 29° SMART. Milano, 2018 - Cerebral blood flow assessed with color Doppler sonography during sedation with dexmedetomidine versus propofol in critically ill patients: a prospective case-crossover study.* G. Bonatti, F. Tarantino, A. Insorsi, A. De Ferrari A, T. Senussi Testa, G. Zucco, A. Galanti, A. Montevecchi, **D. Battaglini**, A. Molin, V. Pinasco, I. Brunetti, C. Robba, L. Ball, N. Patroniti, P. Pelosi. Maggio 2018.

Abstract *Congresso internazionale ERS (European Respiratory Society). Parigi, 2018 - Telavancin vs. linezolid in an animal model of severe MRSA pneumonia.* **D. Battaglini**, G. Li Bassi, F. Pagliara, A. Meli, H. Yang, M. Yang, A. Motos, J. Bobi, E. Aguilera, T. Senussi, J. Miller, L. Fernandez, E. Barbeta Viñas, A. Torres. Oral presentation, presenting author.

Abstract Congresso internazionale ERS (European Respiratory Society). Parigi, 2018 Preliminary evaluation of the dynamics of pulmonary function and mechanics after lateral positioning in an animal model of severe monolateral pneumonia. A. Meli, **D. Battaglini**, E. Barbeta Vinas, M. Yang, J. Bobi, A. Motos, G. Li Bassi, A. Torres.

Abstract Congresso internazionale ERS (European Respiratory Society). Parigi, 2018 Safety of cough assist set at different pressure levels in an animal model of mechanical ventilation. J. D. Martí Romeu, R. Martínez Alejos, G. Li Bassi, X. Pilar Diaz, H. Yang, F. Pagliara, **D. Battaglini**, A. Meli, M. Yang, J. Bobi, A. Motos, A. Torres.

Abstract Congresso Internazionale 31° ESICM. Parigi, 2018 - An experimental study on nebulized Amikacin as adjunctive therapy for multi-drug resistant *P. aeruginosa* right-sided pneumonia. G. Li Bassi, H. Yang, A. Motos, A. Meli, J. Bobi, **D. Battaglini**, M. Yang, E. F. Pagliara; E. Aguilera Xiol, J. Miller, T. Ferrer, M. Rigol, R. Cabrera, L. Fernández-Barat, A. San Jose; V. Rosario; D. Chiumello; P. Pelosi, A. Torres. Poster discussion.

Abstract Congresso Internazionale 31° ESICM. Parigi, 2018 - Bactericidal effect of telavancin in comparison with linezolid for the treatment of severe MRSA pneumonia: an experimental study. **D. Battaglini**, MD, G. Li Bassi, MD, PhD; L. Fernandez, PhD, A. Motos, MD, M. Yang, MD, A. Meli, MD, H. Yang, MD, F. Pagliara, MD, J. Bobi, DVM, E. Aguilera, PhD, T. Senussi, MD, J. Miller, MSc, E. Barbeta, MD¹ P. Pelosi, MD, FERS, D. Chiumello, MD, and A. Torres, MD, PhD, FERS.

Abstract Congresso Internazionale 31° ESICM. Parigi, 2018 - Lateral decubitus worsens lung ultrasound score of dependent lungs in an experimental model of right-sided pneumonia. A. Meli, **D. Battaglini**, E. Barbeta, G. Li Bassi, A. Motos, J. Bobi, M. Yang, H. Yang, J. Miller, L. Fernández-Barat, F. Pagliara, E. Aguilera Xiol, G. Frigola, M. Rigol, T. Ferrer, R. Cabrera, V. Rosero, D. Chiumello, P. Pelosi, J. Ramirez, A. Torres. Poster discussion.

Abstract 72° Congresso Nazionale SIAARTI. Palermo 2018. - Nebulized amikacin as adjunctive therapy in an experimental model of severe Pseudomonas Aeruginosa mono-lateral pneumonia. **D. Battaglini**, A. Meli, G. Li Bassi, H. Yang, L. Fernandez-Barat, A. Motos, J. Bobi, M. Yang, F. Pagliara, E. Aguilera-Xiol, J. Miller, G. Frigola, M. Rigol, R. Cabrera, A. San José, V. Rosero, D. Chiumello, P. Pelosi, J. Ramirez, A. Torres.

Abstract Congresso nazionale 23° IRC. Genova, 2017 - Management of Clinical Emergency: A survey on hi-fi simulation role according to students, physicians and nurses - A. Galanti Occulti, **D. Battaglini**, A. Insorsi, I. Brunetti, S. Maiani, P. Pelosi. Ottobre 2017.

Work experience

<i>Site</i>	<i>from</i>	<i>to</i>	<i>Mansion</i>	<i>Time</i>
ASL3 Sistema Sanitario Regione Liguria, Italy	13/06/2014	13/06/2014	Sostitition General practitioner	Partial
ASL3 Sistema Sanitario Regione Liguria, Italy	23/06/2014	27/06/2014	Sostitition General practitioner	Partial
ASL3 Sistema Sanitario Regione Liguria, Italy	04/08/2014	04/08/2014	Sostitition General practitioner	Partial
ASL3 Sistema Sanitario Regione Liguria, Italy	18/08/2014	29/08/2014	Sostitition General practitioner	Partial
ASL3 Sistema Sanitario Regione Liguria, Italy	01/11/2014	28/02/2015	Medico di Continuità Assistenziale	Partial
Ospedale Policlinico San Martino, IRCCS per Oncologia e Neuroscienze, Genoa, Italy	09/03/2020	15/10/2020	Consultant in Anesthesia and Intensive Care	Full time
Ospedale Policlinico San Martino, IRCCS per Oncologia e Neuroscienze, Genoa, Italy	16/10/2020	Indeterminate	Consultant in Anesthesia and Intensive Care	Full time

University of Barcelona, Barcelona, Spain	20/12/2019	ongoing	PhD researcher**	Partial
Department of Pulmonary and Critical Care Medicine, Division of Animal Experimentation. Hospital Clinic, Barcelona, University of Barcelona, Spain	02/10/2017	31/12/2018	Research Fellow	Full time
Laboratory of Pulmonary Investigation, Carlos Chagas Filho Institute of Biophysics, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil	31/08/2019	29/09/2019	Research Fellow	Full time

**without scholarship

Teaching activities:

Contract professor/ professore a contratto: Scuola di Scienze mediche e farmaceutiche, corso di Anestesiologia in Scienze chirurgiche integrate per Ortottica e Oftalmologia anno 2022-2023

Contract professor / professore a contratto: Scuola di Scienze mediche e farmaceutiche, corso di Anestesiologia in corso di laurea Medicina e Chirurgia 6 anno 2022-2024

Contract professor / professore a contratto: Scuola di Scienze mediche e farmaceutiche, corso di Anestesiologia in corso di laurea Medicina e Chirurgia 2 anno 2022-2024

Scientific Committee: Course on Airway Management - Level II – SIAARTI 2022-2024

Course Title: Gestione avanzata delle vie aeree. Gestione della tracheostomia nel paziente non-COVID-19 e COVID-19. SIAARTI, Mandragora. Online

Course Title: Quantify nutritional requests and goals. Hands on experiences: il ruolo di Q-NRG+ nella diagnostica nutrizionale avanzata. Online event. Baxter. 2021, online.

Course Title: iWIN International women in Intensive Care. 2021 Online course.

Course Title: Webinar ESICM. Getting started in experimental research in intensive care medicine: what do I need? Battaglini, Osuchowski, Lipcsey.

Course Title: Webinar ESICM. Noninvasive neuromonitoring in COVID-19 patients. 2020, November. N 1 hour.

Podcast ESICM. Translational biology 2022

Podcast ESICM Neuromonitoring 2021

Mechanical ventilation in COVID-19 2021- Congresso turco di emergenza e urgenza. Bodrum. Online

Course Title

Organized by Scuola di Scienze Mediche e Farmaceutiche, Università degli studi di Genova. BLSO per Scuola di Igiene Dentale, Università degli Studi di Genova. Centro di simulazione avanzata. a.a. / a.s. 2020 - 28/01/2020 n. 5 hours

Anesthesia and Intensive Care, Basic Life Support Defibrillation

Course Title *Induction course*

Organized by Scuola di Scienze Mediche e Farmaceutiche, Università degli Studi di Genova. Corso introduttivo per gli specializzandi di anestesia e rianimazione. Centro di Simulazione Avanzata, Genova a.a. / a.s. 2019/2020 - 11/2019 n. 10 hours
Anesthesia and Intensive Care

Course Title Basic Life Support and Defibrillation

Organized by Scuola di Scienze Mediche e Farmaceutiche, Università degli Studi di Genova. Centro di Simulazione Avanzata, Genova.

a.a. / a.s. 2015/2016 oppure: data di svolgimento n. 20 hours/y

Basic Life Support and Defibrillation

Course Title: Basic Life Support and Defibrillation

Scuola di Scienze Mediche e Farmaceutiche, Università degli Studi di Genova. Centro di Simulazione Avanzata, Genova.

a.a. / a.s. 2016/2017 n. 20 hours/anno

Anesthesia and Intensive Care, Basic Life Support and Defibrillation

Course Title Basic Life Support and Defibrillation

Scuola di Scienze Mediche e Farmaceutiche, Università degli Studi di Genova. Centro di Simulazione Avanzata, Genova.

a.a. / a.s. 2018/2019 n. 20 hours/anno

Anesthesia and Intensive Care, Basic Life Support and Defibrillation

Course Title Corso pratico di soccorso avanzato ALS

Scuola di Scienze Mediche e Farmaceutiche, Università degli Studi di Genova. Centro di Simulazione Avanzata, Genova.

a.a. / a.s. 2015/2016 n. 20 hours/anno

Anesthesia and Intensive Care, Advanced Life Support

Course Title Corso pratico di soccorso avanzato ALS

Scuola di Scienze Mediche e Farmaceutiche, Università degli Studi di Genova. Centro di Simulazione Avanzata, Genova.

a.a. / a.s. 2016/2017 n. 20 hours/anno

Anesthesia and Intensive Care, Advanced Life Support

Course Title Corso pratico di soccorso avanzato ALS

Scuola di Scienze Mediche e Farmaceutiche, Università degli Studi di Genova. Centro di Simulazione Avanzata, Genova.

a.a. / a.s. 2018/2019 n. 20 hours/anno

Anesthesia and Intensive Care, Advanced Life Support

Courses, seminars, lectures

JAMBOREE ESICM – Online congress 23/05/2023 – Topic: New modes of mechanical ventilation.

WEBINAR ESICM – Getting started in experimental research in intensive care medicine – M. Osuchowsky, Denise Battaglini, Miklos Lipcsey.

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 – Workshop Mechanical Ventilation course basics and advanced Hands-on Session: Controlled ventilation – Basic settings and respiratory mechanics (All experts) (45 min) SPEAKER

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 Assisted mechanical ventilation settings: Basics (30 min) SPEAKER

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 Hands-on Session: Assisted ventilation – The basics and advanced (All experts) (45 min) SPEAKER

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 Hands-on Session: Ventilation of an ARDS patient – Clinical Case (All experts) (45 min) SPEAKER

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 Long-term outcome of ARDS patients (30 min)

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 Hands-on Session: Ventilation of an obstructive patient (All experts) (45 min) SPEAKER

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 Workshop: Fundamentals (Track for young intensivists) - What does a young intensivist need to know about Neuro Intensive Care (30 min) SPEAKER

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 Tracheostomy timing and outcome in critical care (both COVID and non-COVID) (15 min) SPEAKER

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 Debate: Optimising brain perfusion after resuscitation (30 min) SPEAKER

ESICM/ EURO AFRICA Congress 2023 Cairo Egypt February 8-13 The emergent role of the microbiota in critical care and its impact on the outcome (15 min). SPEAKER

Webinar ESICM. Getting started in experimental research in intensive care medicine: what do I need? Battaglini, Osuchowski, Lipcsey. 16th March 2023. SPEAKER

The World Day of the Critical Lung - VI Edition Why is mentorship important? 30/11/2022 SPEAKER

ESICM Congress 2022 Paris France October 22-26 –ESICM chair – A star is raising – Burcin Halaci, Pisani Luigi SPEAKER

ESICM Congress 2022 Paris France October 22-26 –ESICM chair – Get the patient out of bed – Prof Stefan Shaller SPEAKER

ESICM Congress 2022 Paris France October 22-26 –ESICM chair with Ahmed Zaher– Dr Adrian Wong – Diaphragm ultrasound SPEAKER

ESICM Congress 2023 Paris France October 22-26 –ESICM talk – Debate with Prof Ranieri, Prof John Laffey, Prof Luigi Camporota, Prof Derek Angus. Do we need better pre-clinical models? Do we need better clinical trials? Do we need a better ARDS definition? SPEAKER

ESICM Congress 2022 Paris France October 22-26 –ESICM talk – Emergent therapies to treat ARDS: what we will be using in 2030 SPEAKER

ESICM Congress 2022 Paris France October 22-26 – Precourse Refresh course ESICM – PaO₂/FiO₂ ratio, don't get confused. Session with Prof Gattinoni, Brochard, Pellegrini, Piquillod. SPEAKER

Neuromonitoring in perioperative period. Podcast ESICM – with C. Robba 10/12/2021 SPEAKER

Quantify nutritional requests and goals. Hands on experiences: il ruolo di Q-NRG+ nella diagnostica nutrizionale avanzata. All day. 28/09/2021 SPEAKER

Gestione avanzata delle vie aeree. Gestione della tracheostomia nel paziente non-COVID-19 e COVID-19. SIAARTI, Mandragora. Rome 09/09/2021. All day. SPEAKER

iWIN International Women in Intensive Care. All day. Online course. 25-26/06/2021. SPEAKER

Gestione avanzata delle vie aeree. Gestione della tracheostomia nel paziente non-COVID-19 e COVID-19. Rome SIAARTI 09/09/2021, one day. SPEAKER

Frozen Shoulder: approccio conservativo e chirurgico BBV Italia srl 31/01/2020 num. Days 1 SPEAKER

What we need to know to win the battle against superbugs?

Fondazione Internazionale Menarini

16-17/01/2020 num. Days 2

AUDITOR

Corso di ottimizzazione emodinamica in sala operatoria

SIAARTI, Genova

06/12/2019 num. Days 1

AUDITOR

Normotermia perioperatoria

SIAARTI, Genova

26/11/2019 num. Day 1

AUDITOR

Patient Blood Management

SIAARTI, Genova

22/11/2019 num. Day 1

AUDITOR

73° Congresso Nazionale ICARE SIAARTI

SIAARTI, Roma

15-18/10/2019 num. Days 4

SPEAKER

Gestione delle vie aeree

SIAARTI Proxima, Pisa

5-6/07/2019 num. Days 3

SPEAKER

ESA (European Society of Anesthesiology) Congress

ESA, Vienna

1-3/06/2019 num Days 3

AUDITOR

SIAARTI Academy CREM, Critical Emergency Medicine, gestione delle Maxi-Emergenze

SIAARTI, Lampedusa

24/05/2019 num. Days 6

SPEAKER

ACLS - Advanced Cardiovascular Life Support - Crisis Research Management (CRM) of American Heart Association (AHA)
AAROI e AHA, Bologna
6/7-05-2019 num. Day 2
AUDITOR

Safety Quality Realibility SAQURE
AAROI, Roma
4-6/04/2019 num. Days 3
AUDITOR

Evento *Pain Update* durante il convegno nazionale SIAARTI CAMP3-US
SIAARTI, Milano
23/03/2019 num. Day 1
AUDITOR

Convegno nazionale SIAARTI CAMP3-US
SIAARTI, Milano
22/03/2019 num. Day 1
SPEAKER

ESA Masterclass in Statistics and Research Methodology
ESA European Association of Anesthesiology, Athens
5-7/03/2019 num. Days 3
AUDITOR

Neurons Neurocritical care and management and Symposium
ACCMed, Genova
28/02-2/03/2019 num. Days 3
AUDITOR

Pain Academy, Corso per specialisti in formazione in anestesia
SIAARTI, Napoli
5-7/11/2018 num. Days 3
AUDITOR

72° Congresso Nazionale SIAARTI
SIAARTI, Palermo
10-13/10/2018 num. Days 4
SPEAKER

International Congress ERS (European Respiratory Society)
ERS, Parigi
15-19/09/2018 num. Days 5
SPEAKER

Congresso HeCo Update
SIAARTI, Palermo
23/06/2018 num. Day 1
SPEAKER

Congresso Scelte di Peso
SIAARTI, Palermo
22/06/2018 num. Day 1
SPEAKER

71° Congresso Nazionale SIAARTI
SIAARTI, Rimini
18-21/10/2017 num. Day 4
SPEAKER

Corso TAT- train the airway training. Istruttore certificato di gestione delle vie aeree
SIAARTI EAMS, Roma
08/09/2017 num. Day 1
AUDITOR

Corso di gestione avanzata delle vie aeree
SIAARTI, Roma
09/09/2017 num. Day 1
AUDITOR

Summer school Neurointensive Care, Milano Bicocca, Monza
Università Milano Bicocca, Monza
26-30/06/2017 num. Days 5
AUDITOR

SIAARTI Academy CREM, Critical Emergency Medicine, gestione delle Maxi-Emergenze
SIAARTI, Lampedusa
22-26/05/2017 num. Days 5
AUDITOR

Hi-fidelity simulation Dexmedetomidine
CISEF, Genova
16/05/2017 num. Day 1
SPEAKER

Congresso SMART
Meeting Anesthesia Resuscitation in Tensive care, Milano
10-12/05/2017 num. Days 3
AUDITOR

Gestione delle aritmie cardiache durante intervento chirurgico con sistemi di simulazione
AAROI, Bologna
15-16/02/2017 num. Days 2
AUDITOR

Ecografia in anestesia locoregionale con sistemi di simulazione
AAROI, Bologna
3-4/11/2016 num. Days 2
AUDITOR

Perioperative care and Analgesia in prosthetic surgery
Ospedale Santa Corona, Pietra Ligure
15/10/2016 num. Day 1
AUDITOR

H-MIMMS (Hospital- Major Incident Management and Support)
AAROI gruppo ALS, Bologna
6-7/10/2016 num. Days 2
AUDITOR

SIAARTI Academy Hospital
SIAARTI, Bologna
24-26/03/2018 num. Days 3
SPEAKER

Corso regionale di formazione per medici da adibire ai servizi di emergenza territoriale.
ASL3 Liguria
october 2015-april 2016, 6 months AUDITOR

MACRON 2016: analgesia per il travaglio ed il parto
CISEF, Genova
01/10/2016 num. Day 1
AUDITOR

ITLS (International Trauma Life Support), advanced provider course
IRC Italian Resuscitation Council, Genova
22/01/2016 num. Days 2
AUDITOR

ALS Advanced Life Support
IRC Italian Resuscitation Council, Genova
15-17/12/2015 num. Days 3
AUDITOR

P- BLS (Paediatric basic Life Support)
Italian Resuscitation Council, Genova
04/12/2015 num. Day 1
AUDITOR

BLS (Basic Life Support Defibrillation)
IRC Italian Resuscitation Council, Genova
20/11/2015 num. Day 1
AUDITOR

Raccomandazioni per il controllo delle vie aeree difficili
SIAARTI, Roma
2015 num. Day 1
AUDITOR

Congresso *SMART*
Smart Meeting Anesthesia Resuscitation in Tensive care, Milano
27-29/05/2015 num. 3 days
AUDITOR

Farmaci anticoagulanti di ultima generazione: gestione in anestesia generale, locoregionale ed emergenza
Ospedale Policlinico San Martino, Genova
05/05/2015 num. 1 day
AUDITOR

Il corso residenziale in Neuro-onco-Endocrinologia
NoGeRo, Genova
5-6/12/2013 num. 2 days
AUDITOR

Denominazione del corso: Hot topics in renal transplantation: late post-transplant course and complication
Ente organizzatore e luogo svolgimento: CISEF, Genova
Data/e di svolgimento 13/04/2013 num. Giorni 1 oppure ore compless
AUDITOR

Gestione Clinica della Malattia Renale Cronica nell'Ambulatorio di Nefrologia
Ospedale Policlinico San Martino, Genova
16/05/2013 num. 1 day
AUDITOR

Formazione generale sulla sicurezza e salute nei luoghi di lavoro. Prof. Umberto Benatti Prof. Paolo Durando.
Ospedale Policlinico san Martino, Genova (GE).
01/03/2018 num. Hours 4
AUDITOR

Corso sui rischi specifici in ambito sanitario. Responsabili scientifici: Prof. Umberto Benatti Prof. Paolo Durando.
Ospedale Policlinico san Martino, Genova (GE).
Data/e di svolgimento 05/03/2018 num. 8 hours
AUDITOR

Representative positions

- 2022 – 2024 NEXT representative of translational biology section of ESICM
 - 2022 – 2024 ESICM Research Committee member as NEXT representative
 - 2022 – 2024 NEXT Committee Member European Society of Intensive Care Medicine (ESICM)
 - 2021 – 2022 NEXT Elect Committee Member European Society of Intensive Care Medicine (ESICM)
 - 2022-2024 Board member Airway Management SIAARTI (2022-2024)
 - Regional Representative Liguria Region SIAARTI (2022-2024)
 - Regional Representative Liguria region neospecialists (2022-2024)
 - IWIN Congress Scientific Committee (2022-2024)
 - 2020 – 2021 Regional Representative Young Specialists Liguria region, Proxima SIAARTI (Società Italiana Anestesia Analgesia Rianimazione Terapia Intensiva).
 - 2019 – 2020 Member of Executive Committee SIAARTI (Società Italiana Anestesia Analgesia Rianimazione Terapia Intensiva).
 - 2017 – 2019 National Representative Proxima SIAARTI (Società Italiana Anestesia Analgesia Rianimazione Terapia Intensiva).
 - 2019 – 2020 National Trainee Representative European Society of Anesthesia and Intensive Care – ESAIC
 - Promotor of the network Neuroranimazioni e neuroanestesi italiane, NeurItaly (Prof P. Pelosi e Dr.ssa C. Robba)
 - Critical Care Consortium ECMOCARD COVID-19 member and promotor
 - ISARIC partner member
 - AFTERCORE steering committee member
- Protocols
- Protocol Ospedale Policlinico San Martino, Genova. Svezamento dalla ventilazione meccanica invasiva e ruolo della fisioterapia respiratoria nel setting critico.
 - Protocol interno Ospedale Policlinico San Martino, Genova. Gestione Emorragia Subaracnoidea.
 - Protocol Ospedale Policlinico San Martino, Genova. Gestione epilessia.
 - Protocol Ospedale Policlinico San Martino, Genova. Criteri di Ammissione, dimissione e triage in terapia intensiva.

- Protocol Ospedale Policlinico San Martino, Genova. Gestione del fine vita e cure palliative.
- Flow-chart - Protocollo di gestione del trauma, redatto in versione italiana sulla guida inglese BMJ, con approvazione. SIAARTI. Palermo, 2018.
- Guidelines
 - Dyspnea guidelines ongoing ESICM / ERS 2022
 - Airway management guidelines – Chinese society of Anesthesia and Crit Care 2022 ongoing
 - Airway Management Guidelines Italian Society of Anesthesia and Crit Care SIAARTI
- Scientific Committee
 - IWIN Congress Scientific Committee (2022-2024)
 - Translational Biology section NEXT Representative ESICM
 - Research committee ESICM 2022 - 2024
 - Collaborator PROTHOR trial
 - Steering Committee ATERCOR study
 - Steering Committee Critical Care Consortium COVID-19, Neurological Substudy.
 - Steering Committee DESIGNATION Trial
 - Scientific Committee 73° Congresso Nazionale SIAARTI 2019, ICARE.
 - Scientific Committee SIAARTI Academy Critical Emergency Medicine (CREM), anno 2020.
 - Scientific Committee Comitato dei congressi SIAARTI, anno 2019.
 - Steering Committee NeurITALY (Italian Network for research in Neuroanaesthesia and Neurointensive care)
 - Steering Committee Outcomes among hypoxemic patients receiving non-invasive ventilation in intensive care units: an Italian observational study – SPIRITUM
- Winner
 - Research Grant 5 x 1000 Ministero della Salute Italiano -- MICROB-ICU -- Identificazione e modulazione del microbiota in pazienti neurolesi ricoverati in Terapia Intensiva. Identification and modulation of Microbiota in Neurocritically ill patients (y 2021-2024)
 - Winner *Poster AWARD al 39° ISICEM*, Brussels, 2019 – Risk Factors for sepsis in very old patients with community-acquired pneumonia - C. Dominedò, C. Cillóniz, A. Ielpo, M. Ferrer, A. Gabarrús, **D. Battaglini**, J. Bermejo-Martin, A. Meli, C. García-Vidal, A. Liapikou, A. Torres.
 - Editor of the month – BMC Pulmonary medicine 2022
- Peer reviewer
 - Reviewer Critical Care, Reviewer ICM EXP, Reviewer JCM, Reviewer BJA, Reviewer Annals of Translational Medicine, Reviewer Respiratory Care, Reviewer Frontiers Neurology, Editor and Reviewer Frontiers in Medicine, Reviewer Current Neuropharmacology, Reviewer Intensive Care Medicine Experimental, Reviewer BMC Infectious Disease, Reviewer Medicina, Reviewer Expert Review Resp Medicine, Reviewer Journal of Clinical Medicine, Reviewer Infectious disease and therapy, Reviewer JECCM, Reviewer Molecular Medicine, Reviewer Dove press, Reviewer BMJ Open, Reviewer Scientific Reports, Nature, Editor and reviewer BMC Pulmonary Medicine, Reviewer BMC Anesthesiology, Reviewer Critical Ultrasound Journal, Reviewer JAAC SIAARTI
- Ongoing Projects
 - Microbiota in neurocritical care, monocentric (PI)
 - Tracheostomy in COVID-19 – COVID-19 WeanTrach (PI)
 - FIS-ICU respiratory physiotherapy, monocentric observational (PI)
 - Crit Care Consortium ELSO ECMOCARD Tracheostomy outcome in COVID-19 patients (PI)
 - Crit Care Consortium ELSO ECMOCARD Association between positive end-expiratory pressure (PEEP) and outcome in critically ill COVID-19 patients (PI)
 - Crit Care Consortium ELSO ECMOCARD Association between hemoglobin level, altitude, and outcome in critically ill COVID-19 patients (PI)
 - Substudy ENIO physiotherapy (PI)
 - Substudy TTM2 Airways management (PI)
 - Substudy ENIO VAP (PI)
 - Crit Care Consortium ELSO ECMOCARD neurological substudy (PI)
 - SR and Metanalysis on Tracheostomy practice in COVID-19 (PI)
 - The ENIO project (investigator) PROVE Net
 - Prespon (investigator)

- Prothor (investigator) PROVE Net
- ACTIVE (investigator)
- Designation (investigator) PROVE Net
- ICONIC (investigator) PROVE Net
- TTM-2 (investigator) Target Temperature Management-2
- Critical Care Consortium COVID-19, Neurological Sub-study group core member
- AFTERCOR study (steering committee)
- Tempo (investigator)
- Start Trip (investigator)
- Neuromonitoring during mechanical ventilation – CENEM, local project (investigator)
- Hypothermia in ischemic stroke rats during MV and deep sedation with dexmedetomidine/propofol (Rio de Janeiro, Brazil) (PI)
- Campagna sicura SIAARTI 2015, Ospedale Policlinico San Martino, Genova
- Member della Società Italiana di Anestesia Analgesia Rianimazione e Terapia Intensiva (SIAARTI) 2014-today
- Member European Society of Anesthesia and Intensive Care (ESAIC) dal 2017-today
- Member European Society of Intensive Care Medicine ESICM 2019-today
- Member study group SIAARTI di Gestione delle Vie aeree dal 2017-today
- Member study group SIAARTI di Neuroanestesia e Neurorianimazione 2017- today
- Member study group SIAARTI Insufficienza respiratoria 2018-2020
- Member European Airway Management Society (EAMS) 2019-today
- Member SIEC Società Italiana di Ecocardiografia e Cardiovascular Imaging dal 2017-today
- Selected for evaluation of ESICM AWARDS 2023
- Selected as Expert Researcher for Evaluation for German Ministry Research Grants – March 2023
- Selected as Expert Researcher for Evaluation French Ministry Research Grant s– April 2023

Languages

Italian mothertongue
 English listen C1, speak C1, write C1
 Spanish listen C2, speak C2, write B2
 Catalan listen A1
 Portuguese listen A1

Genoa, 13/05/2023

SIGNATURE

Denise Battaglini

