



WORK EXPERIENCE

CURRENT Italy

ASSOCIATED PROFESSOR MED 41 UNICAMILLUS INTERNATIONAL HEALTH UNIVERSITY .HEAD OF ANESTHESIOLOGY SEVICE AND INTENSIVE CARE UNIT G.GIGLIO FOUNDATION CEFALU',ITALY

30/10/2015 – 24/07/2024 Palermo, Italy

ASSOCIATED PROFESSOR MED 41 UNIVERSITY

17/05/2020 – 05/02/2023

CHIEF CLINICIAN OF ICU G.GIGLIO FOUNDATION CEFALU',ITALY

19/01/2018 – 16/05/2020 Italy

CHIEF CLINICIAN OF NEUROSURGICAL ICU POLICLINICO P.GIACCOME ,UNIVERSITY OF PALERMO

30/10/2015 – 18/01/2018 Italy

SENIOR ICU STAFF (CONSULTANT) POLICLINICO P.GIACCOME ,UNIVERSITY OF PALERMO

01/05/2013 – 29/10/2015 Torino, Italy

COORDINATOR HOME CRITICAL CARE PROGRAM AZIENDA OSPEDALIERA «CITTÀ DELLA SALUTE E DELLA SCIENZA DI TORINO»

04/06/2001 – 30/04/2013 Torino, Italy

HEAD ANESTHESIOLOGY SERVICE AZIENDA OSPEDALIERA «C.T.O. - MARIA ADELAIDE»

01/01/2000 – 03/06/2001 Torino, Italy

COORDINATOR SPINAL UNIT AND VENTILATOR HOME PROGRAM AZIENDA OSPEDALIERA «C.T.O. - MARIA ADELAIDE»

01/01/1995 – 31/01/1999 Torino, Italy

SENIOR ICU STAFF (CONSULTANT) AZIENDA OSPEDALIERA «C.T.O. - MARIA ADELAIDE»

01/01/1989 – 31/12/1994 Torino, Italy

SENIOR ICU STAFF (CONSULTANT) UNITÀ SOCIO-SANITARIA LOCALE TORINO IX (PRESIDIO OSPEDALLERO C.T.O.)

01/01/1988 – 31/01/1988 Torino, Italy

ATTENDING PHYSICIAN ANESTHESIOLOGIST UNITÀ SOCIO-SANITARIA LOCALE TORINO IX (PRESIDIO OSPEDALLERO C.T.O.)

01/08/1984 – 31/12/1987 Torino, Italy

ATTENDING PHYSICIAN ANESTHESIOLOGIST UNITÀ SOCIO-SANITARIA LOCALE TORINO 1-23 (PRESIDIO OSPEDALLERO C.T.O.)

TEACHING ACTIVITIES

2001 – 2011

Specialisation School in Anesthesia, Pain and Intensive Care University of Turin, Italy

2001 – 2006

Specialisation School in Anesthesia, Pain and Intensive Care University A.Avogadro, Novara, Italy

2011 – 2015

Specialisation School in Anesthesia, Pain and Intensive Care University A.Avogadro, Novara, Italy

Other activities

Appointed professor of Anesthesia University of Palermo **Nursing School** (2nd year) 3 CFU , 2016-2017,2017-2018,2018-2019,2019-2020

Appointed professor of Anesthesia University of Palermo **Nursing School** (2nd year) NIGHTMALE 3 CFU 2021-2022 , 2022-2023

Appointed professor of Anesthesia **Dental School** University of Palermo IV year CFU 6 + 3 2017-2018, 2018-2019,2019-2020, 2020-2021, 2021-2022,

Appointed professor of Anesthesia **Specialization School in Plastic Surgery** University of Palermo 3 CFU 2016-2017,2017-2018,2018-2019,2019-2020, 2020-2021,2021-2022

Appointed professor of Anesthesia **Specialization School in Pneumology** University of Palermo 2018 -2019,2019-2020,2020-2021,2021-2022, 2021-2022 1 CFU

Appointed professor of Anesthesia **Specialization School in Forensic Medicine** University of Palermo. 2022-2023 1 CFU

Appointed professor (Art. 23 L. 240/10) **Specialization School in anesthesia, Pain and Intensive Care** University of Palermo. 5 CFU 2015-2016,2016-2017,2017-2018,2018-2019,2019-2020, 2020-2021,2021-2022

Appointed professor **Master I Level in Advanced Nursing Critical Care** University of Palermo 2016-2017,2017-2018-2019,, 2020-2021,2021-2022m2022-2023 12 hours

Appointed professor **Master I Level in Pain Therapy** University of Palermo 2016-2017,2017-2018-2019,2019-2020, 2020-2021,2021-2022m2022-2023 12 hours

Director **Master I Level in Palliative Care** University of Palermo l2015-2016.2016-2017

● ACTUAL AND PAST SCIENTIFIC POSITION IN ITALIAN AND INTERNATIONAL SOCIETY

Actual and past scientific position in italian and international society

From dal January 2009, to December 2011 member “Committee for reviewing fellowship applications” of ERS (European Respiratory Society)

From June 2011 member of subcommittee (5) “Respiration” of ESA (European Society of Anesthesiology)

From September 2012 secretary of Acute critical care Assembly (2.1) “Respiratory Intensive Care” of ERS (European Respiratory Society) and from September 2014 to 2017 Chairman of Assembly 2.1 “Acute Critical Care”

From January 2016 to December 2020 Chairman of subcommittee (9) “Intensive Care medicine ” of ESA (European Society of Anesthesiology)

From January 2020 to December 2021 Past Chairman of subcommittee (9) “Intensive Care medicine ” of ESA (European Society of Anesthesiology)

From January 2022 responsible of the postgraduatecourses on Mechanical ventilation of SIAARTI (Italian Society of Anaesthesia and Intensive Care)

From January 2022 Italian Member of the ESAIC (European Society of Anesthesia and Intensive Care- ESAIC) council

From January 2023 actual chairman of FORUM-2 PATIENTS of the scientific committee of the European Society of Anaesthesia and Intensive Care-ESAIC)

● CONGRESS ACTIVITIES

Congress activities

Speaker and/or chairman in more than 300 national and international meetings and courses.

● EDITORIAL ACTIVITIES AND INDEPENDENT REFEREE ACTIVITY

Editorial activities and independent referee activity

Associated Editor from February 2023 della rivista Journal of Clinical Medicine -JCM. Independent referee for national and international "peer review journals" as Intensive Care Medicine, European Respiratory Journal, Critical Care Medicine, Critical Care, Chest, Respiratory Care, Pediatrics, Minerva Anestesiologica, Portuguese Journal of Pulmonology, Respiratory Medicine, Respirology, Pneumology , respiratory medicine etc

● RESPONSABILITY IN CLINICAL TRIALS AND PATENTS

Responsability in clinical trials and patents

·Patent(No 102019000020532—Ministero Italiani dello Sviluppo Economico), CONTROLLING TIDAL VOLUMES DURING NON-INVASIVE HELMET VENTILATION

● PUBLICATIONS

See attached publications list

Scopus author identifier: <https://www.scopus.com/authid/detail.uri?authorId=55917239300> <https://www.scopus.com/authid/detail.uri?authorId=6701692023>

Hirsh Index (H-Index) 41 (Scopus) citation index 7093 (Scopus)

● LANGUAGE SKILLS

Mother tongue(s): **ITALIANO**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

Cefalu' (PA) 13.8.24



Publication list

171. *New noninvasive modalities in long-term pediatric ventilation: a scoping review* Pavone M., Misseri G Ippolito MC, **Gregoretti C.**, Cutrera R **Monaldi Archives for Chest Disease 2024 (in press)**
170. Effects of high-flow nasal therapy on swallowing function: a scoping review Crimi C, Chiaramonte R, Vignera F, e Vancheri C, Vecchio M, Cesare Gregoretti C, Carlucci A, Andersen T, Cortegiani A Effects of high-flow nasal therapy on swallowing function: a scoping review. *ERJ Open Res* 2024; in press (<https://doi.org/10.1183/23120541.00075-2024>).
169. Review of Evaluation and Treatment of Knee Pain Lo Bianco G Misseri G, **Gregoretti C** *JAMA*, 2024 331(8):706
168. Miceli G, Cassataro G, Volpe V, Fertitta E, Canale C, Tomaiuolo L, Blasco M, Stella M, Rizzo G, Velardo M, **Gregoretti C**, Renda M Postprandial hypotension as a predictor of respiratory failure in patients with foodborne botulinum intoxication – a case-control study in outbreak investigation *J Infect Dis* 2023 Nov;136:111-114.doi: 10.1016/j.ijid.2023.09.014. Epub 2023 Sep 21.
167. [A pragmatic, open-label, multi-center, randomized controlled clinical trial on the rotational use of interfaces vs standard of care in patients treated with noninvasive positive pressure ventilation for acute hypercapnic respiratory failure: the ROTational-USE of interface STUDY \(ROTA-USE STUDY\)](#). Vaschetto R, **Gregoretti C**, Scotti L, De Vita N, Carlucci A, Cortegiani A, Crimi C, Mattei A, Scala R, Rocca E, Longhini F, Cammarota G, Misseri G, Dal Molin A, Scolletta S, Nava S, Maggiore SM, Navalesi P. *Trials*. 2023 Aug 13;24(1):527. doi: 10.1186/s13063-023-07560-1.
166. [Peri-partum respiratory management of pregnant women with neuro-muscular disorders: a prospective observational study \(IT-NEUMA-Pregn study\)](#). Racca F, Longhitano Y, Zanza C, Balzanelli MG, Draisci G, Stoia PA, Gollo E, Maio M, Grattarola C, Astuto M, Ciccarelli A, Racca G, Romenskaya T, Giordano B, Serraino A, Sansone VAM, **Gregoretti C**, Conti G, Piccolella F, Vaschetto R *BMC Anesthesiology* 23(1),342
165. [Peri-Partum respiratory management in neuro-muscular disorders \(IT-NEUMA-Pregn study\): A proposal by an italian panel and a call for an international collaboration](#). **Racca F**, Longhitano Y, Zanza C, Draisci G, Stoia PA, Gollo E, Maio M, Grattarola C, Astuto M, Vaschetto R, Sansone VAM, Conti G, **Gregoretti C**. *Pulmonology*. 2023 Mar 10:S2531-0437(23)00041-7. doi: 10.1016/j.pulmoe.2023.02.006. Online ahead of print.

164. Personalized Noninvasive Respiratory Support in the Perioperative Setting: State of the Art and Future Perspectives Misseri G , Frassanito L , Simonte R Tommaso Rosà T, Grieco DL, Piersanti A , De Robertis E, **Gregoretti C** *J. Pers. Med.* 2024, 14, 56. <https://doi.org/10.3390/jpm14010056>
163. Performance of helmet CPAP using different configurations: Turbine-driven ventilators vs Venturi devices A. Noto, A. Cortegiani, G. Genoese, L. Appendini, **C. Gregoretti**, A. Carlucci, C. Crimi *Pulmonology* 2023 <https://doi.org/10.1016/j.pulmoe.2023.04.009>
162. Radiofrequency Ablation for Chronic Lumbar Zygapophyseal Joint Pain Using a V-Shaped ActiveTip Needle: An Observational Retrospective Study Giuliano Lo Bianco , Giovanni Misseri , Agnes R Stogicza , **Gregoretti C** , Sean Li , Miles Day, David J Kennedy, Michael E Schatman *Journal of Pain Research* 2023;16 1243–1255
161. Early pronation, protective lung ventilation and use of awake-prone-HFNO therapy after extubation in near-fatal drowning. Misseri G, Pierucci P, Bellina D, Ippolito M, Ingoglia G, **Gregoretti C**. *Pulmonology*. 2023 Mar 10:S2531-0437(23)00010-7. doi: 10.1016/j.pulmoe.2022.12.006. Online ahead of print. PMID: 36907818
160. Distribution of ventilation and oxygenation in surgical obese patients ventilated with high versus low positive end-expiratory pressure: A substudy of a randomised controlled trial Ellenberger C, Pelosi P, de Abreu MG, Wrigge H, Diaper J, Hagerman A, Adam Y, Schultz MJ, Licker M; PROBESE investigators, of the PROtective VEntilation Network (PROVENet); **Clinical Trial Network of the European Society of Anaesthesiology and Intensive Care (ESAIC)**. Steering Committee for the PROBESE Collaborative Group: Thomas Bluth, Ilona Bobek, Jaume C. Canet, Luc de Baerde- maeker, **Cesare Gregoretti**, G. ran Hedenstierna, Sabine N. T. Hemmes, Michael Hiesmayr, Markus Hollmann, Samir Jaber, John Laffey, Marc J. Licker, Klaus Markstaller, Idit Matot, Gary Mills, Jan Paul Mulier, Christian Putensen, Rolf Rossaint, Jochen Schmitt, Mert Senturk, Paolo Severgnini, Juraj Sprung, Marcos Francisco Vidal Melo, Hermann Wrigge, Ary Serpa Neto, Marcus J. Schultz, Paolo Pelosi, and Marcelo Gama de Abreu (chair). *Eur J Anaesthesiol.* 2022 Nov 1;39(11):875-884. doi: 10.1097/EJA.0000000000001741. Epub 2022 Sep 12.
159. Nasal pressure swings as the measure of inspiratory effort in spontaneously breathing patients with de novo acute respiratory failure. Tonelli R, Cortegiani A, Marchioni A, Fantini R, Tabbi L, Castaniere I, Biagioni E, Busani S, Nani C, Cerbone C, Vermi M, Gozzi F, Bruzzi G, Manicardi L, Pellegrino MR, Beghè B, Girardis M, Pelosi P, **Gregoretti C**, Ball L, Clini E. *Crit Care.* 2022 Mar 24;26(1):70. doi: 10.1186/s13054-022-03938-w. PMID: 35331323
158. Sequential use of noninvasive ventilation and high flow nasal therapy after early extubation in chest trauma patients recovering from acute hypoxaemic respiratory failure. Accurso G, Cracchiolo AN, Palma DM, Misseri G, Ippolito M, Alvino V, Raineri SM, Giarratano A, Cortegiani A, **Gregoretti C**. *Pulmonology*. 2023 Jan-Feb;29(1):79-82. doi: 10.1016/j.pulmoe.2022.06.006. Epub 2022 Sep 16. PMID: 36117099

157. Association between night-time extubation and clinical outcomes in adult patients: A systematic review and meta-analysis. Ippolito M, Catalisano G, Iozzo P, Raineri SM, **Gregoretti C**, Giarratano A, Einav S, Cortegiani A. *Eur J Anaesthesiol.* 2022 Feb 1;39(2):152-160. doi: 10.1097/EJA.0000000000001579. PMID: 34352806
156. Intensive care medicine in Europe: perspectives from the European Society of Anaesthesiology and Intensive Care. Zacharowski K, Filipescu D, Pelosi P, Åkeson J, Bubenek S, **Gregoretti C**, Sander M, de Robertis E. *Eur J Anaesthesiol.* 2022 Oct 1;39(10):795-800. doi: 10.1097/EJA.0000000000001706. Epub 2022 Jun 29. PMID: 35766247 .
155. ERS clinical practice guidelines: high-flow nasal cannula in acute respiratory failure. Oczkowski S, Ergan B, Bos L, Chatwin M, Ferrer M, **Gregoretti C**, Heunks L, Frat JP, Longhini F, Nava S, Navalesi P, Ozsancak Uğurlu A, Pisani L, Renda T, Thille AW, Winck JC, Windisch W, Tonia T, Boyd J, Sotgiu G, Scala R. *Eur Respir J.* 2022 Apr 14;59(4):2101574. doi: 10.1183/13993003.01574-2021. Print 2022 Apr. PMID: 34649974
154. Pierucci P, de Candia ML, Marzullo A, Mele F, Intra F, Agrisani C, Ingoglia G, **Gregoretti C**, Carpagnano GE The eye may be the spy of injury related to NIV interface and prone positioning. *Pulmonology.* 2022 Jul 4:S2531-0437(22)00120-9. doi: 10.1016/j.pulmoe.2022.05.001. Online ahead of print. PMID: 35798639
153. The right interface for the right patient in noninvasive ventilation: a systematic review. Pierucci P, Portacci A, Carpagnano GE, Banfi P, Crimi C, Misseri G, **Gregoretti C**. *Expert Rev Respir Med.* 2022 Aug;16(8):931-944. doi: 10.1080/17476348.2022.2121706. Epub 2022 Sep 23. PMID: 36093799
152. Cardiac arrest during a diving session: A case report and differential diagnosis. Ippolito M, Tubiolo M, Falletta A, Federico A, Simone B, Ingoglia G, **Gregoretti C**, Raineri SM, Cortegiani A, Giarratano A. *Clin Case Rep.* 2022 Dec 27;10(12):e6805. doi: 10.1002/ccr3.6805. eCollection 2022 Dec. PMID: 36590666
151. Effectiveness of a remote simulation training in mechanical ventilation among trainees. Ippolito M, Simone B, Safadi S, Spinuzza E, Catania T, Ingoglia G, Milazzo M, Raineri SM, Giarratano A, **Gregoretti C**, Cortegiani A. *Pulmonology.* 2022 Aug 10:S2531-0437(22)00129-5. doi: 10.1016/j.pulmoe.2022.05.007. Online ahead of print. PMID: 35963833 .
150. High-flow nasal oxygen versus conventional oxygen therapy in patients with COVID-19 pneumonia and mild hypoxaemia: a randomised controlled trial. Crimi C, Noto A, Madotto F, Ippolito M, Nolasco S, Campisi R, De Vuono S, Fiorentino G, Pantazopoulos I, Chalkias A, Libra A, Mattei A, Scala R, Clini EM, Ergan B,

Lujan M, Winck JC, Giarratano A, Carlucci A, **Gregoretti C**, Groff P, Cortegiani A; COVID-HIGH Investigators. *Thorax*. 2023 Apr;78(4):354-361. doi: 10.1136/thoraxjnl-2022-218806. Epub 2022 May 17. PMID: 35580898

149. Implementation of noninvasive neurally adjusted ventilatory assist in pediatric acute respiratory failure: a controlled before-after quality improvement study. Chidini G, De Luca D, Calderini E, Catenacci SS, Marchesi T, Langer T, **Gregoretti C**, Conti G. *J Anesth Analg Crit Care*. 2021 Sep 1;1(1):1. doi: 10.1186/s44158-021-00005-8.

148. Use of Helmet CPAP in COVID-19 - A practical review. Amirfarzan H, Cereda M, Gaulton TG, Leissner KB, Cortegiani A, Schumann R, **Gregoretti C**. *Pulmonology*. 2021 Sep-Oct;27(5):413-422. doi: 10.1016/j.pulmoe.2021.01.008. Epub 2021 Feb 1. PMID: 33583765

147. Effectiveness and safety of a new helmet CPAP configuration allowing tidal volume monitoring in patients with COVID-19. Chiappero C, Misseri G, Mattei A, Ippolito M, Albera C, Pivetta E, Cortegiani A, **Gregoretti C**. *Pulmonology*. 2021 Jul 9:S2531-0437(21)00135-5. doi: 10.1016/j.pulmoe.2021.06.012. Online ahead of print. PMID: 34326019

146. Medical communications and writing for patients Vitale, F., Moscarelli, A., Cortegiani, A., Ippolito, Ranieri SM, Gregoretti, C., Giarratano, A. *Medical* 30, Issue 1, Pages 72 - 75 2021

145. Ventilator-Associated Pneumonia in Patients with COVID-19: A Systematic Review and Meta-Analysis. Ippolito M, Misseri G, Catalisano G, Marino C, Ingoglia G, Alessi M, Consiglio E, **Gregoretti C**, Giarratano A, Cortegiani A. *Antibiotics (Basel)*. 2021 May 7;10(5):545. doi: 10.3390/antibiotics10050545. PMID: 34067186

144. Tidal volume and helmet: Is the never ending story coming to an end? Cortegiani A, Ippolito M, Luján M, **Gregoretti C**. *Pulmonology*. 2021 Mar-Apr;27(2):107-109. doi: 10.1016/j.pulmoe.2020.02.001. Epub 2020 Feb 29. PMID: 32127308

143. Ventilator configuration in children on long term home ventilation during the COVID19 pandemic. Esposito I, Chatwin M, Accurso G, Cortegiani A, **Gregoretti C**, Bignamini E. *Pulmonology*. 2021 Sep-Oct;27(5):448-452. doi: 10.1016/j.pulmoe.2020.06.010. Epub 2020 Jul 16. PMID: 32828727

142. A New Configuration for Helmet Continuous Positive Airway Pressure Allowing Tidal Volume Monitoring. Cortegiani A, Accurso G, Ball L, Ippolito M, Ingoglia G, Vitale F, Giarratano A, **Gregoretti C**. *Am J Respir Crit Care Med*. 2020 Aug 15;202(4):612-614. doi: 10.1164/rccm.202003-0550LE. PMID: 32310679 .

141. High Flow Nasal Therapy Use in Patients with Acute Exacerbation of COPD and Bronchiectasis: A Feasibility Study. Crimi C, Noto A, Cortegiani A, Campisi R, Heffler E, **Gregoretti C**, Crimi N. COPD. 2020 Apr;17(2):184-190. doi: 10.1080/15412555.2020.1728736. Epub 2020 Feb 24. PMID: 32088995
140. An Italian Guidance Model for the Management of Suspected or Confirmed COVID-19 Patients in the Primary Care Setting. Lopes N, Vernuccio F, Costantino C, Imburgia C, **Gregoretti C**, Salomone S, Drago F, Lo Bianco G. Front Public Health. 2020 Nov 24;8:572042. doi: 10.3389/fpubh.2020.572042. eCollection 2020. PMID: 33330317 **Free PMC article.** Review.
139. Noninvasive respiratory support in the hypoxaemic peri-operative/periprocedural patient: a joint ESA/ESICM guideline. Leone M, Einav S, Chiumello D, Constantin JM, De Robertis E, De Abreu MG, **Gregoretti C**, Jaber S, Maggiore SM, Pelosi P, Sorbello M, Afshari A; Guideline contributors. Intensive Care Med. 2020 Apr;46(4):697-713. doi: 10.1007/s00134-020-05948-0. Epub 2020 Mar 10. PMID: 32157356
138. Material and Technology: Back to the Future for the Choice of Interface for Non-Invasive Ventilation - A Concise Review. Scala R, Accurso G, Ippolito M, Cortegiani A, Iozzo P, Vitale F, Guidelli L, **Gregoretti C**. Respiration. 2020;99(9):800-817. doi: 10.1159/000509762. Epub 2020 Nov 18. PMID: 33207357 Review
137. Noninvasive respiratory support in the hypoxaemic peri-operative/periprocedural patient: A joint ESA/ESICM guideline. Leone M, Einav S, Chiumello D, Constantin JM, De Robertis E, Abreu MG, **Gregoretti C**, Jaber S, Maggiore SM, Pelosi P, Sorbello M, Afshari A. Eur J Anaesthesiol. 2020 Apr;37(4):265-279. doi: 10.1097/EJA.0000000000001166. PMID: 32132408
136. Citations and metrics of journals discontinued from Scopus for publication concerns: the GhoS(t)copus Project. Cortegiani A, Ippolito M, Ingoglia G, Manca A, Cugusi L, Severin A, Strinzel M, Panzarella V, Campisi G, Manoj L, **Gregoretti C**, Einav S, Moher D, Giarratano A. F1000Res. 2020 May 21;9:415. doi: 10.12688/f1000research.23847.2. eCollection 2020. PMID: 33024548
135. Facepiece filtering respirators with exhalation valve should not be used in the community to limit SARS-CoV-2 diffusion. Ippolito M, Iozzo P, **Gregoretti C**, Grasselli G, Cortegiani A. Infect Control Hosp Epidemiol. 2021 Mar;42(3):369-370. doi: 10.1017/ice.2020.244. Epub 2020 May 15. PMID: 32408923
134. Counterfeit filtering facepiece respirators are posing an additional risk to health care workers during COVID-19 pandemic. Ippolito M, **Gregoretti C**, Cortegiani A, Iozzo P. Am J Infect Control. 2020 Jul;48(7):853-854. doi: 10.1016/j.ajic.2020.04.020. Epub 2020 Apr 29. PMID: 32360745
133. Individualized versus Fixed Positive End-expiratory Pressure for Intraoperative Mechanical Ventilation in Obese Patients: A Secondary Analysis. Simon P, Gurrbach F, Petroff D, Schlieve N, Hempel G, Lange M, Bluth T, Gama de Abreu M, Beda A, Schultz MJ, Pelosi P, Reske AW, Wrigge H; **PROBESE Investigators of the Protective Ventilation Network* and the Clinical Trial Network of the European Society of Anesthesiology.** Thomas Bluth, M.D. (Department of Anesthesiology and Critical Care Medicine,

Pulmonary Engineering Group, University Hospital Carl Gustav Carus, Dresden Institute of Technology [Technische Universität Dresden], Dresden, Germany); Ilona Bobek, M.D., Ph.D. (South Pest Central Hospital–National Institute of Hematology and Infectious Diseases, Budapest, Hungary); Jaume C. Canet, M.D., Ph.D. (Department of Anesthesiology and Postoperative Care, Germans Trias i Pujol University Hospital, Badalona, Barcelona, Spain); Luc De Baerdemaeker, M.D., Ph.D. (Department of Anesthesiology and Perioperative Medicine, Ghent University Hospital, Ghent, Belgium); **Cesare Gregoretti, M.D., Ph.D. (Department of Surgical, Oncological and Oral Science, University of Palermo, Palermo, Italy;** G. Giglio Institute of Cefalù Foundation, Palermo, Italy); Göran Hedenstierna, M.D., Ph.D. (Department of Medical Sciences Clinical Physiology, Academic Hospital–Uppsala, Uppsala, Sweden); Sabine N. T. Hemmes, M.D., Ph.D. (Department of Intensive Care, Amsterdam University Medical Centers, Location Academic Medical Center, Amsterdam, The Netherlands); Michael Hiesmayr, M.D., Ph.D. (Division Cardiac, Thoracic, Vascular Anesthesia and Intensive Care, Medical University Vienna, Vienna, Austria); Markus Hollmann, M.D., Ph.D. (Department of Anesthesiology, Amsterdam University Medical Centers, Location Academic Medical Center); Samir Jaber, M.D., Ph.D. (Department of Anesthesia and Intensive Care, Saint Eloi Montpellier University Hospital, Montpellier, France; Physiology and Experimental Medicine, University of Montpellier, Montpellier, France); John Laffey, M.D., Ph.D. (Department of Anesthesia and Intensive Care Medicine, Galway University Hospitals, Galway, Ireland; School of Medicine, Regenerative Medicine Institute at the CÚRAM Center for Medical Devices, National University of Ireland, Galway, Ireland); Marc J. Licker, M.D., Ph.D. (Department of Anesthesiology, Pharmacology and Intensive Care, Faculty of Medicine, University Hospital of Geneva, Geneva, Switzerland); Klaus Markstaller, M.D., Ph.D. (Department of Anesthesia, Intensive Care Medicine and Pain Medicine, Medical University of Vienna, Vienna, Austria); Idit Matot, M.D., Ph.D. (Division of Anesthesia, Intensive Care and Pain Medicine, Tel Aviv Medical Center Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel); Gary Mills, M.D., Ph.D. (Operating Services, Critical Care and Anesthesia, Sheffield Teaching Hospitals and University of Sheffield, Sheffield, United Kingdom); Jan Paul Mulier, M.D., Ph.D. (Department of Anesthesia, General Hospital Sint-Jan Brugge-Oostende AV, Campus Sint-Jan, Brugge, Belgium); Christian Putensen, M.D., Ph.D. (Department of Anesthesiology and Intensive Care Medicine, University Hospital Bonn, Bonn, Germany); Rolf Rossaint, M.D., Ph.D. (Department of Anesthesiology, Faculty of Medicine, Rheinisch-Westfälische Technische Hochschule Aachen University, Aachen, Germany); Jochen Schmitt, M.D., Ph.D. (Center for Evidence-Based Healthcare, University Hospital Dresden, Dresden Institute of Technology [Technische Universität Dresden]); Mert Senturk, M.D., Ph.D. (Department of Anesthesiology and Intensive Care of Istanbul Medical Faculty, Istanbul University, Istanbul, Turkey); Paolo Severgnini, M.D., Ph.D. (Department of Biotechnology and Sciences of Life, ASST Sette Laghi Circolo Hospital and Macchi Foundation, University of Insubria, Varese, Italy); Juraj Sprung, M.D., Ph.D. (Department of Anesthesiology and Perioperative Medicine, Mayo Clinic, Rochester, Minnesota); Marcos Francisco Vidal Melo, M.D., Ph.D. (Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts); Hermann Wrigge, M.D., Ph.D. (Integrated Research and Treatment Center Adiposity Diseases, University of Leipzig, Leipzig, Germany; Department of Anesthesiology, Intensive Care and Emergency Medicine, Pain Therapy, Bergmannstrost Hospital Halle, Halle, Germany); Ary Serpa Neto, M.D., M.Sc, Ph.D. (Department of Intensive Care, Amsterdam University Medical Centers, Location Academic Medical Center; Department of Critical Care Medicine, Hospital Israelita Albert Einstein, Sao Paulo, Brazil); Marcus J. Schultz, M.D.,

Ph.D. (Department of Intensive Care, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands); Paolo Pelosi, M.D., Ph.D. (Department of Surgical Sciences and Integrated Diagnostics, University of Genoa, Genoa, Italy; Anesthesia and Intensive Care, San Martino Policlinico Hospital, Scientific Institute for Research, Hospitalization and Healthcare for Oncology and Neurosciences, Genoa, Italy); and Marcelo Gama de Abreu, M.D., Ph.D. (Department of Anesthesiology and Critical Care Medicine, Pulmonary Engineering Group, University Hospital Carl Gustav Carus, Dresden Institute of Technology [Technische Universität Dresden]). **Anesthesiology**. 2021 Jun 1;134(6):887-900. doi: 10.1097/ALN.0000000000003762.PMID: 33843980

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