

Tommaso Tonetti – Curriculum vitae

General data

➤ Name	Tommaso
➤ Surname	Tonetti
➤ Place and date of birth	Venice (Italy), 23 rd May 1987
➤ Office number	+39.051.2144309
➤ E-mail	tommaso.tonetti@unibo.it
➤ Citizenship	Italian

Education

High School Diploma (classical studies)	June 2006	“Marco Polo” High School, Venice, Italy	Full marks
Degree in Medicine	September 2012	University of Padua, Italy	Full marks and honor
Medical Authorization in Italy	February 2013	University of Padua, Italy	
Medical Authorization in Germany (“Approbation”)	August 2016	Lower Saxony Authorization Board, Hannover, Germany	
Specialty in Anesthesia and Intensive Care Medicine	August 2018	University of Padua, Italy	Full marks and honor
Undergraduate exchange program (Erasmus)	2010-2011	University of Heidelberg, Germany	
Post-graduate fellowship	2016-2017	University of Göttingen, Germany	Acute Lung Injury Lab (Directed by Prof. Quintel and Gattinoni)

Professional appointment• **Academic**

Assistant professor in Anesthesia and Intensive Care	November 2019 – October 2022	Alma Mater Studiorum University of Bologna
Associate professor in Anesthesia and Intensive Care	November 2022 - now	Alma Mater Studiorum University of Bologna
National qualification for Full Professorship	November 2023	

• **Institutional**

Scientific Secretary (deputy director) of the Residency program (“Specialization school”) in Anesthesia, Critical Care and Pain Medicine	November 2019 – September 2023	Alma Mater Studiorum University of Bologna
Director of the Residency program (“Specialization school”) in Anesthesia, Critical Care and Pain Medicine	September 2023 - now	Alma Mater Studiorum University of Bologna
Contact person for the ERASMUS+ exchange with SFUCHAS College, Ifakara, Tanzania	January 2025 - now	Alma Mater Studiorum University of Bologna
Member of the Clinical Trials Quality Team (CTQT)	June 2023 - now	Sant’Orsola University Hospital, Bologna

- Teaching

Anesthesia and Emergency Medicine course for combined Bachelor/Master's in Medicine and Surgery (Italian course)	November 2023 - now	Alma Mater Studiorum University of Bologna
Anesthesia and Emergency Medicine course for combined Bachelor/Master's in Medicine and Surgery (English course)	November 2023 - now	Alma Mater Studiorum University of Bologna
Anesthesia and Emergency Medicine course for combined Bachelor/Master's in Dentistry and Dental Prosthetics	November 2023 - now	Alma Mater Studiorum University of Bologna
Anesthesia and Emergency Medicine course for Bachelor's in Dental Hygiene	November 2019 - now	Alma Mater Studiorum University of Bologna
Anesthesia and Emergency Medicine course for Bachelor's in Podiatry	November 2022 - now	Alma Mater Studiorum University of Bologna

- Clinical

Resident, Anesthesia and Intensive Care	August 2013 – August 2018	University Hospital of Padua, Italy
Consultant, Anesthesia and Intensive Care	September 2018 – October 2019	University Hospital of Parma, Italy
Consultant, Intensive Care	November 2019 - now	University Hospital of Bologna, Italy
Acting Director, Department of Anesthesia and General Intensive Care Unit	April 2024 – October 2025	University Hospital of Bologna, Italy
Medico-legal activity	February 2020 - ongoing	Court-appointed expert witness (CTU) and party-appointed consultant (CTP) in criminal and civil medicolegal cases

- Scientific societies and journals

Member	2018 - now	European Society of Intensive Care Medicine (ESICM)
Member	2019 - now	Italian Society of Anesthesia, Analgesia, Resuscitation and Critical Care (SIAARTI)
Review Editor	August 2020 – June 2022	Frontiers in Medicine
Associate Editor	June 2022 - now	Frontiers in Medicine
Academic Editor	December 2022 - now	PLOS ONE

- National and international networks

Study Principal Investigator	2020 - now	SUPERNOVA trial
Member of the scientific committee	2024 - now	Area Critica annual congress
Funding member, vice-president	2025 - now	CONNECT Network
Coordinator	2025 - now	BRIDGE project

Grants and awards

- Fondazione Cassa di Risparmio di Bologna, Bando Ricerca scientifica e alta tecnologia 2024 – Project ID 2024.0332 - Trapianto di microbiota fecale in pazienti con shock settico ricoverati in terapia intensiva: un trial pilota (Role: project coordinator, amount: 10,000 euros)
- European Commission - ERASMUS-EDU-2025-CBHE-STRAND-1 – Project ID 101237925 – BRIDGE: Building Resilient Institutions for Development in Global Health Education (Role: project coordinator, amount: 400,000 euros)

Congresses and meetings

- **Invited speaker:**
 - ICARE – 79° Congresso Nazionale SIAARTI (2025 October 23-25, Rome, Italy)
 - 34° Meeting GiViTI (2025, October 8-10, Pesaro, Italy)
 - 8th TPM (Transplant Procurement Management) Emilia-Romagna (2025 May 26-28, Bologna, Italy)
 - 36th SMART Meeting (2025 May 7-9, Milan, Italy)
 - VAM Course “I fondamentali della ventilazione meccanica” (2025 May 5-6, Milan, Italy)
 - Outbreaks in Pneumology 2025 (2025 March 13-14, Modena, Italy)
 - Area Critica 2024 (2024 November 28-29, Rome, Italy)
 - DONARTE 2024 – 3rd International Conference (2024 September 29 – October 1, Messina, Italy)
 - 35th SMART Meeting (2024 May 29-31, Milan, Italy)
 - Un’ora d’aria – 3° edizione (2024 May 10, Bologna Italy)
 - Area Critica 2023 (2023 November 30-December 01, Rome Italy)
 - Le giornate ferraresi di ventilazione meccanica (2023 November 18, Ferrara, Italy)
 - Anestesia e Rianimazione: dall’Università all’Ospedale e al Territorio (2023 September 22-23, Modena, Italy)
 - Orizzonti di Terapia del Dolore (2023 September 21-23, Bologna, Italy)
 - Congresso Nazionale FederDolore-SICD (2023 September 13-15, Bologna, Italy)
 - Euroanesthesia 2023 – ESAIC (2023 June 2-5, Glasgow, UK)
 - 34th SMART Meeting (2023 May 24-26, Milan, Italy)
 - 7th Annual International ECMO Network Scientific Meeting – ECMONet (2023 February 8-9, Barcelona, Spain)
 - Outbreaks in Pneumology 2022 (2022 November 25-26, Modena, Italy)
 - 5th International Symposium on Translational Research on Acute Lung Injury (INSPIRES) (2022 November 17-18, Getafe, Madrid, Spain)
 - 33rd SMART Meeting (2022 May 4-6, Milan, Italy)
 - XXII Congresso Nazionale della Pneumologia Italiana - XLVI AIPO-ITS (2021 November 19, online);
 - e-SMART 2021 (2021 May 24-28, online);
 - International Meeting on Simulation in Healthcare IMSH 2021 (2021 March 03, online);
 - Area Critica 2020 (2020 December 10, online);
 - e-SMART 2020 (2020 November 13-15, online);
 - COVID Critical Conference (2020 October 08, online);
 - Area Critica 2019 (2019 December 05-06, Bologna, Italy);

- Outbreaks in Pneumology 2019 (2019 November 28, Modena, Italy);
- 3° Apuane Meeting Intensive Care Unit (2019 September 27-28, Massa (MC), Italy);
- 14° Incontro: Territorio e Ospedale senza Dolore (2019 June 01, Pordenone, Italy);
- 28th SMART Meeting (2017 May 10-12, Milan, Italy).
- Invited moderator:
 - 34° Meeting GiViTI (2025, October 8-10, Pesaro, Italy)
 - 36th SMART Meeting (2025 May 7-9, Milan, Italy)
 - 5° Meeting “Anestesia e Terapia Intensiva nella terra dei motori” (2025 April 5, Modena, Italy)
 - Orizzonti di Terapia del Dolore (2024 November 15-16, Bologna, Italy)
 - PAIN/RER Symposium 2024 (2024 October 04, Cervia (RA), Italy)
 - 35th SMART Meeting (2024 May 29-31, Milan, Italy)
 - 34th SMART Meeting (2023 May 24-26, Milan, Italy);
 - Area Critica 2022 (2022 December 01-02, Bologna, Italy);
 - PAIN/RER Symposium 2022 (2022 October 8, Cervia (RA), Italy);
 - Chest Congress 2022 (2022 June 27-29, Bologna, Italy);
 - Area Critica 2021 (2021 December 02-03, Bologna, Italy);
 - World Day of the Critical Lung (2019 December 05).

Bibliometrics

- Scopus

Total documents: **111**; total citations: **5681**; h-index: **37**.

- Web of Science

Total documents: **101**; total citations: **4853**; h-index: **34**.

List of publications

A. Publications on scientific journals

1. Raschi E, Tonetti T, Khouri C, Poluzzi E, De Ponti F. Contemporary local anaesthetic-associated adverse events and mortality: searching for the root causes of the pharmacovigilance signal. *Br J Anaesth* 2025; S0007-0912(25)00493-3. doi: 10.1016/j.bja.2025.06.044b. *Br J Anaesth*. 2025 Oct 29:S0007-0912(25)00713-5. doi: 10.1016/j.bja.2025.09.044. Epub ahead of print. PMID: 41168082.
2. Pai MP, Cojutti PG, Gatti M, Rinaldi M, Tonetti T, Siniscalchi A, Viale P, Pea F. Keeping the horse with the cart: are we underdosing tazobactam even when using continuous-infusion ceftolozane/tazobactam for effectively preventing resistance development by ESBL-producing Enterobacterales? *Antimicrob Agents Chemother*. 2025 Oct 29:e0121525. doi: 10.1128/aac.01215-25. Epub ahead of print. PMID: 41159735.
3. Tonetti T, Gatti M, Pea F. Personalizing beta-lactams therapy in critical patients undergoing RRT: moving a further step forward? *Intensive Care Med*. 2025 Oct 13. doi: 10.1007/s00134-025-08165-9. Epub ahead of print. PMID: 41081797.
4. Cojutti PG, Pai MP, Gatti M, Rinaldi M, Tonetti T, Siniscalchi A, Viale P, Pea F. Targeting *Pseudomonas aeruginosa* resistance at the exposure frontier: a population PK/PD blueprint for ceftolozane/tazobactam continuous infusion. *Antimicrob Agents Chemother*. 2025 Nov 5;69(11):e0104225. doi: 10.1128/aac.01042-25. Epub 2025 Sep 22. PMID: 40980909; PMCID: PMC12587603.
5. Sambri V, Agnoletti V, Ambretti S, Bartoletti M, Bernaschi P, Bignami EG, Busani S, Campoli C, Carretto E, Catena F, Coloretto I, Cricca M, De Pascale G, De Rosa FG, Fontana C, Gherardi G, Giannella M, Girardis M, Mancini N, Oliva A, Podda M, Piazza O, Portunato F, Poletti V, Viceconte G, Rocchetti A, Santonastaso DP, Serapide F, Stefani S, Tascini C, Tebano G, Tosi M, Tumbarello M, Viaggi B, Viale P, Cristini F; Russo Multidisciplinary Collaborative Group. The role of rapid and advanced microbiological methods in critical care: 2025 Emanuele Russo Delphi consensus. *Clin Microbiol Infect*. 2025 Aug 28:S1198-743X(25)00420-3. doi: 10.1016/j.cmi.2025.08.022. Epub ahead of print. PMID: 40885382.
6. Gatti M, Rinaldi M, De Paola R, Siniscalchi A, Tonetti T, Viale P, Pea F. TDM-Based Approach for Properly Managing Intravenous Isavuconazole Treatment in a Complex Case Mix of Critically Ill Patients. *Antibiotics (Basel)*. 2025 Aug 1;14(8):777. doi: 10.3390/antibiotics14080777. PMID: 40867972; PMCID: PMC12383137.
7. Pasero D, Costamagna A, Filippini C, Blangetti I, Cattaneo S, Baiocchi M, Balata A, Bottiroli M, Dambruoso P, De Paulis S, Grazioli L, Locatelli A, Lorini FL, Mascotti A, Mondino MG, Paparella D, Salvi L, Tonetti T,

- Tritapepe L, Ranieri VM. Continuous positive airway pressure to prevent reintubation in patients recovering from cardiac surgery: A multicentre randomised clinical trial. *Eur J Anaesthesiol*. 2025 Jun 27. doi: 10.1097/EJA.0000000000002229. Epub ahead of print. PMID: 40574561.
8. Gatti M, Rinaldi M, Cojutti PG, Bonazzetti C, Siniscalchi A, Tonetti T, Ambretti S, Tedeschi S, Giannella M, Viale P, Pea F. A pre-post quasi-experimental study of antimicrobial stewardship exploring the impact of a multidisciplinary approach aimed at attaining an aggressive joint pharmacokinetic/pharmacodynamic target with ceftazidime/avibactam on treatment outcome of KPC-producing *Klebsiella pneumoniae* infections and on ceftazidime/avibactam resistance development. *Antimicrob Agents Chemother*. 2025 Jul 2;69(7):e0048825. doi: 10.1128/aac.00488-25. Epub 2025 Jun 6. PMID: 40476843; PMCID: PMC12217479.
 9. Sbaraini Zernini I, Nocera D, D'Albo R, Tonetti T. Acute Respiratory Distress Syndrome and Fluid Management: Finding the Perfect Balance. *J Clin Med*. 2025 Mar 18;14(6):2067. doi: 10.3390/jcm14062067. PMID: 40142875; PMCID: PMC11942663.
 10. Gatti M, Rinaldi M, Bonazzetti C, Siniscalchi A, Tonetti T, Ambretti S, Giannella M, Viale P, Pea F. A pre-post quasi-experimental study of the impact of TDM-guided aggressive pharmacokinetic/pharmacodynamic target attainment of continuous infusion ceftolozane/tazobactam monotherapy in treating severe *Pseudomonas aeruginosa* infections: a strategy useful for raising the bar? *J Antimicrob Chemother*. 2025 Jun 3;80(6):1543-1551. doi: 10.1093/jac/dkaf098. PMID: 40126532; PMCID: PMC12129583.
 11. Asioli GM, Urbinati G, Tonetti T, Guarino M. Generalized Periodic Discharges related to Anaesthesia Withdrawal (GRAWs) after status epilepticus in herpetic encephalitis: when less is more. *Neurol Sci*. 2025 Jul;46(7):3353-3356. doi: 10.1007/s10072-025-08103-z. Epub 2025 Mar 17. PMID: 40095164.
 12. Tonetti T, Marini JJ. Mechanical power and VILI: modeling limits and unknowns. *Intensive Care Med Exp*. 2025 Jan 6;13(1):1. doi: 10.1186/s40635-024-00712-w. PMID: 39760961; PMCID: PMC11704099.
 13. Mascia L, Tonetti T. Reply to Yang and to Xie and Wang. *Am J Respir Crit Care Med*. 2024 Nov 5;211(1):138. doi: 10.1164/rccm.202410-1926LE. Epub ahead of print. PMID: 39499945; PMCID: PMC11755366.
 14. Troisi C, Cojutti PG, Rinaldi M, Tonetti T, Siniscalchi A, van Hasselt C, Viale P, Pea F. Impact of Continuous Infusion Meropenem PK/PD Target Attainment on C-Reactive Protein Dynamics in Critically Ill Patients With Documented Gram-Negative Hospital-Acquired or Ventilator-Associated Pneumonia. *Clin Pharmacokinet*. 2024 Nov;63(11):1573-1583. doi: 10.1007/s40262-024-01436-6. Epub 2024 Oct 25. PMID: 39455501; PMCID: PMC11573875.
 15. Gamberini L, Rucci P, Dolcini C, Masi M, Simoncini L, Tartaglione M, Del Giudice D, Domina R, Fagiolini A, Salucci P; Collaborators. ENFORCER, internet-based interventions for cardiac arrest survivors: A study protocol for a randomised, parallel-group, multicentre clinical trial. *Resusc Plus*. 2024 Sep 18;20:100772. doi: 10.1016/j.resplu.2024.100772. PMID: 39328897; PMCID: PMC11426058.
 16. Mascia L, Fanelli V, Mistretta A, Filippini M, Zanin M, Berardino M, Mazzeo AT, Caricato A, Antonelli M, Della Corte F, Grossi F, Munari M, Caravello M, Alessandri F, Cavalli I, Mezzapesa M, Silvestri L, Casartelli Liviero M, Zanatta P, Pelosi P, Citerio G, Filippini C, Rucci P, Rasulo FA, Tonetti T. Lung Protective Mechanical Ventilation in Severe Acute Brain Injured Patients: A Multicenter, Randomized Clinical Trial (PROLABI). *Am J Respir Crit Care Med*. 2024 Sep 17. doi: 10.1164/rccm.202402-0375OC. Epub ahead of print. PMID: 39288368.

17. Tonetti T, Di Staso R, Bambini L, Bordini M, D'Albo R, Nocera D, Zernini IS, Turriziani I, Mascia L, Rucci P, Ranieri VM. Role of age as eligibility criterion for ECMO in patients with ARDS: meta-regression analysis. *Crit Care*. 2024 Aug 27;28(1):278. doi: 10.1186/s13054-024-05074-z. PMID: 39192302; PMCID: PMC11348734.
18. De Corte T, Kohler K, Cecconi M, De Waele JJ, Conway Morris A; UNITE-COVID investigators. Characteristics of co-infection and secondary infection amongst critically ill COVID-19 patients in the first two waves of the pandemic. *Intensive Care Med*. 2024 Jun;50(6):989-993. doi: 10.1007/s00134-024-07444-1. Epub 2024 May 6. PMID: 38709296.
19. Gatti M, Rinaldi M, Tonetti T, Siniscalchi A, Viale P, Pea F. Comparative Impact of an Optimized PK/PD Target Attainment of Piperacillin-Tazobactam vs. Meropenem on the Trend over Time of SOFA Score and Inflammatory Biomarkers in Critically Ill Patients Receiving Continuous Infusion Monotherapy for Treating Documented Gram-Negative BSIs and/or VAP. *Antibiotics (Basel)*. 2024 Mar 25;13(4):296. doi: 10.3390/antibiotics13040296. PMID: 38666972; PMCID: PMC11047331.
20. Rinaldi M, Gatti M, Tonetti T, Nocera D, Ambretti S, Berlingeri A, Nigrisoli G, Pierucci E, Siniscalchi A, Pea F, Viale P, Giannella M. Impact of a multidisciplinary management team on clinical outcome in ICU patients affected by Gram-negative bloodstream infections: a pre-post quasi-experimental study. *Ann Intensive Care*. 2024 Mar 6;14(1):36. doi: 10.1186/s13613-024-01271-9. PMID: 38448761; PMCID: PMC10917714.
21. Cojutti PG, Pai MP, Tonetti T, Siniscalchi A, Viale P, Pea F. Balancing the scales: achieving the optimal beta-lactam to beta-lactamase inhibitor ratio with continuous infusion piperacillin/tazobactam against extended spectrum beta-lactamase producing *Enterobacterales*. *Antimicrob Agents Chemother*. 2024 Apr 3;68(4):e0140423. doi: 10.1128/aac.01404-23. Epub 2024 Feb 27. PMID: 38411995; PMCID: PMC10994818.
22. Polo Friz M, Rezoagli E, Safae Fakhr B, Florio G, Carlesso E, Giudici R, Forlini C, Tardini F, Langer T, Laratta M, Casella G, Forastieri Molinari A, Protti A, Cecconi M, Cabrini L, Biagioni E, Berselli A, Mirabella L, Tonetti T, De Robertis E, Grieco DL, Antonelli M, Citerio G, Fumagalli R, Foti G, Zanella A, Grasselli G, Bellani G. Successful Versus Failed Transition From Controlled Ventilation to Pressure Support Ventilation in COVID-19 Patients: A Retrospective Cohort Study. *Crit Care Explor*. 2024 Feb 8;6(2):e1039. doi: 10.1097/CCE.0000000000001039. PMID: 38343444; PMCID: PMC10857659.
23. Gatti M, Rinaldi M, Tonetti T, Siniscalchi A, Viale P, Pea F. Could an Optimized Joint Pharmacokinetic/Pharmacodynamic Target Attainment of Continuous Infusion Piperacillin-Tazobactam Be a Valuable Innovative Approach for Maximizing the Effectiveness of Monotherapy Even in the Treatment of Critically Ill Patients with Documented Extended-Spectrum Beta-Lactamase-Producing *Enterobacterales* Bloodstream Infections and/or Ventilator-Associated Pneumonia? *Antibiotics (Basel)*. 2023 Dec 14;12(12):1736. doi: 10.3390/antibiotics12121736. PMID: 38136770; PMCID: PMC10740629.
24. Kloss P, Lindholz M, Milnik A, Azoulay E, Cecconi M, Citerio G, De Corte T, Duska F, Galarza L, Greco M, Girbes ARJ, Kesecioglu J, Mellinghoff J, Ostermann M, Pellegrini M, Teboul JL, De Waele J, Wong A, Schaller SJ; ESICM UNITE COVID Investigators. Early mobilisation in critically ill COVID-19 patients: a subanalysis of the ESICM-initiated UNITE-COVID observational study. *Ann Intensive Care*. 2023 Nov 14;13(1):112. doi: 10.1186/s13613-023-01201-1. PMID: 37962748; PMCID: PMC10645963.

25. Tonetti T, Zanella A, Pérez-Torres D, Grasselli G, Ranieri VM. Current knowledge gaps in extracorporeal respiratory support. *Intensive Care Med Exp*. 2023 Nov 14;11(1):77. doi: 10.1186/s40635-023-00563-x. PMID: 37962702; PMCID: PMC10645840.
26. Gatti M, Rinaldi M, Tonetti T, Siniscalchi A, Viale P, Pea F. Real-Time TDM-Based Expert Clinical Pharmacological Advice Program for Attaining Aggressive Pharmacokinetic/Pharmacodynamic Target of Continuous Infusion Meropenem in the Treatment of Critically Ill Patients with Documented Gram-Negative Infections Undergoing Continuous Veno-Venous Hemodiafiltration. *Antibiotics (Basel)*. 2023 Oct 10;12(10):1524. doi: 10.3390/antibiotics12101524. PMID: 37887225; PMCID: PMC10604776.
27. Gatti M, Rinaldi M, Gaibani P, Siniscalchi A, Tonetti T, Viale P, Pea F. A descriptive pharmacokinetic/pharmacodynamic analysis of continuous infusion meropenem/vaborbactam in the treatment of critically ill patients with documented KPC-producing *Klebsiella pneumoniae* ventilator-associated pneumonia. *Int J Antimicrob Agents*. 2023 Nov;62(5):106992. doi: 10.1016/j.ijantimicag.2023.106992. Epub 2023 Sep 29. PMID: 37778429.
28. Cojutti PG, Gatti M, Bonifazi F, Caramelli F, Castelli A, Cavo M, Cescon M, Corvaglia LT, Lanari M, Marinelli S, Morelli MC, Pession A, Poggioli G, Ramirez S, Siniscalchi A, Tonetti T, Trevisani F, Zanoni A, Zinzani PL, Gibertoni C, Viale P, Pea F. Impact of a newly established expert clinical pharmacological advice program based on TDM results in tailoring antimicrobial therapies hospital-wide in a tertiary university hospital: findings after the first-year of implementation. *Int J Antimicrob Agents*. 2023 Jun 9:106884. doi: 10.1016/j.ijantimicag.2023.106884. Epub ahead of print. PMID: 37302773.
29. Michi T, Mattana C, Menga LS, Bocci MG, Cesarano M, Rosà T, Gualano MR, Montomoli J, Spadaro S, Tosato M, Rota E, Landi F, Cutuli SL, Tanzarella ES, Pintaudi G, Piervincenzi E, Bello G, Tonetti T, Rucci P, De Pascale G, Maggiore SM, Grieco DL, Conti G, Antonelli M; Gemelli COVID-ICU study group. Long-term outcome of COVID-19 patients treated with helmet noninvasive ventilation vs. high-flow nasal oxygen: a randomized trial. *J Intensive Care*. 2023 May 19;11(1):21. doi: 10.1186/s40560-023-00669-0. PMID: 37208787; PMCID: PMC10195662.
30. Forte D, Pellegrino RM, Trabanelli S, Tonetti T, Ricci F, Cenerenti M, Comai G, Tazzari P, Lazzarotto T, Buratta S, Urbanelli L, Narimanfar G, Alabed HBR, Mecucci C, La Manna G, Emiliani C, Jandus C, Ranieri VM, Cavo M, Catani L, Palandri F. Circulating extracellular particles from severe COVID-19 patients show altered profiling and innate lymphoid cell-modulating ability. *Front Immunol*. 2023 May 3;14:1085610. doi: 10.3389/fimmu.2023.1085610. PMID: 37207201; PMCID: PMC10189636.
31. Gatti M, Rinaldi M, Tonetti T, Gaibani P, Siniscalchi A, Viale P, Pea F. Pharmacokinetics/pharmacodynamics of cefiderocol administered by continuous infusion in a case series of critically ill patients with carbapenem-resistant *Acinetobacter baumannii* infections undergoing continuous venovenous haemodiafiltration (CVVHDF). *Int J Antimicrob Agents*. 2023 May 14:106852. doi: 10.1016/j.ijantimicag.2023.106852. Epub ahead of print. PMID: 37192727.
32. Gatti M, Rinaldi M, Gaibani P, Siniscalchi A, Tonetti T, Giannella M, Viale P, Pea F. A descriptive pharmacokinetic/pharmacodynamic analysis of continuous infusion ceftazidime-avibactam for treating DTR gram-negative infections in a case series of critically ill patients undergoing continuous veno-venous haemodiafiltration (CVVHDF). *J Crit Care*. 2023 Aug;76:154301. doi: 10.1016/j.jcrc.2023.154301. Epub 2023 Apr 12. PMID: 37059003.

33. Alagna L, Mancabelli L, Magni F, Chatenoud L, Bassi G, Del Bianco S, Fumagalli R, Turrone F, Mangioni D, Migliorino GM, Milani C, Muscatello A, Nattino G, Picetti E, Pinciroli R, Rossi S, Tonetti T, Vargiolu A, Bandera A, Ventura M, Citerio G, Gori A. Changes in upper airways microbiota in ventilator-associated pneumonia. *Intensive Care Med Exp*. 2023 Mar 2;11(1):17. doi: 10.1186/s40635-023-00496-5. PMID: 36862343; PMCID: PMC9981834.
34. Pham T, Heunks L, Bellani G, Madotto F, Aragao I, Beduneau G, Goligher EC, Grasselli G, Laake JH, Mancebo J, Peñuelas O, Piquilloud L, Pesenti A, Wunsch H, van Haren F, Brochard L, Laffey JG; WEAN SAFE Investigators. Weaning from mechanical ventilation in intensive care units across 50 countries (WEAN SAFE): a multicentre, prospective, observational cohort study. *Lancet Respir Med*. 2023 May;11(5):465-476. doi: 10.1016/S2213-2600(22)00449-0. Epub 2023 Jan 21. Erratum in: *Lancet Respir Med*. 2023 Mar;11(3):e25. PMID: 36693401.
35. Persona P, Tonetti T, Valeri I, Pivetta E, Zarantonello F, Pettenuzzo T, De Cassai A, Navalesi P. Dynamic Arterial Elastance to Predict Mean Arterial Pressure Decrease after Reduction of Vasopressor in Septic Shock Patients. *Life (Basel)*. 2022 Dec 22;13(1):28. doi: 10.3390/life13010028. PMID: 36675977; PMCID: PMC9862728.
36. Benedetto M, Piccone G, Baiocchi M, Cerchierini E, Adversì M, Rossi A, Dell'Olio A, Di Luca D, Castelli A, Ranieri VM, Tonetti T. Increased duration and similar outcomes of V-V ECLS in patients with COVID-19 ARDS compared to non-COVID ARDS: Single center experience. *Artif Organs*. 2023 Apr;47(4):731-739. doi: 10.1111/aor.14463. Epub 2022 Dec 2. PMID: 36394379.
37. Dell'Olio A, Vocale C, Primavera A, Pisani L, Altavilla S, Roncarati G, Tumietto F, Viale P, Re MC, Lazzarotto T, Nava S, Ranieri VM, Tonetti T. Environmental Contamination by SARS-CoV-2 During Noninvasive Ventilation in COVID-19. *Respir Care*. 2023 Jan;68(1):1-7. doi: 10.4187/respcare.10323. Epub 2022 Nov 15. PMID: 36379641; PMCID: PMC9993510.
38. Alessandri F, Tonetti T, Pistidda L, Busani S, Borrazzo C, Fanelli V, Polzoni M, Piazza O, Lorini L, Cattaneo S, Ricci D, Zaroni A, Girardis M, Terragni P, Tempesta M, Di Luca M, Pugliese F, Ranieri VM; RECORD Group. Extracorporeal CO₂ Removal During Renal Replacement Therapy to Allow Lung-Protective Ventilation in Patients With COVID-19-Associated Acute Respiratory Distress Syndrome. *ASAIO J*. 2023 Jan 1;69(1):36-42. doi: 10.1097/MAT.0000000000001803. Epub 2022 Dec 28. PMID: 35998214; PMCID: PMC9797119.
39. Conway Morris A, Kohler K, De Corte T, Ercole A, De Grooth HJ, Elbers PWG, Povoas P, Morais R, Koulenti D, Jog S, Nielsen N, Jubb A, Cecconi M, De Waele J; ESICM UNITE COVID investigators. Co-infection and ICU-acquired infection in COVID-19 ICU patients: a secondary analysis of the UNITE-COVID data set. *Crit Care*. 2022 Aug 3;26(1):236. doi: 10.1186/s13054-022-04108-8. Erratum in: *Crit Care*. 2022 Aug 17;26(1):249. PMID: 35922860; PMCID: PMC9347163.
40. Gatti M, Cojutti PG, Bartoletti M, Tonetti T, Bianchini A, Ramirez S, Pizzilli G, Ambretti S, Giannella M, Mancini R, Siniscalchi A, Viale P, Pea F. Expert clinical pharmacological advice may make an antimicrobial TDM program for emerging candidates more clinically useful in tailoring therapy of critically ill patients. *Crit Care*. 2022 Jun 14;26(1):178. doi: 10.1186/s13054-022-04050-9. PMID: 35701812; PMCID: PMC9199203.
41. Greco M, De Corte T, Ercole A, Antonelli M, Azoulay E, Citerio G, Morris AC, De Pascale G, Duska F, Elbers P, Einav S, Forni L, Galarza L, Girbes ARJ, Grasselli G, Gusarov V, Jubb A, Kesecioglu J, Lavinio

- A, Delgado MCM, Mellinshoff J, Myatra SN, Ostermann M, Pellegrini M, Povoia P, Schaller SJ, Teboul JL, Wong A, De Waele JJ, Cecconi M; [ESICM UNITE-COVID investigators](#). Clinical and organizational factors associated with mortality during the peak of first COVID-19 wave: the global UNITE-COVID study. *Intensive Care Med*. 2022 May 21:1–16. doi: 10.1007/s00134-022-06705-1. Epub ahead of print. PMID: 35596752; PMCID: PMC9123859.
42. [Tonetti T](#), Ranieri VM, Navalesi P, Nava S, Slutsky AS. Reply to Barahona-Correa et al.: High-Flow Oxygen Therapy for Severe Hypoxemia: Moving toward a More Inclusive Definition of Acute Respiratory Distress Syndrome. *Am J Respir Crit Care Med*. 2022 Aug 15;206(4):515-516. doi: 10.1164/rccm.202202-0332LE. PMID: 35549642.
 43. Arjuna A, Mazzeo AT, [Tonetti T](#), Walia R, Mascia L. Management of the Potential Lung Donor. *Thorac Surg Clin*. 2022 May;32(2):143-151. doi: 10.1016/j.thorsurg.2021.11.005. PMID: 35512933.
 44. Busani S, Coloretti I, Baciarello M, Bellini V, Sarti M, Biagioni E, Tonelli R, Marchioni A, Cline E, Guaraldi G, Mussini C, Meschiari M, [Tonetti T](#), Pisani L, Nava S, Bignami E, Ranieri MV, Girardis M. Association between respiratory distress time and invasive mechanical ventilation in COVID-19 patients: A multicentre regional cohort study. *Pulmonology*. 2022 Mar 28:S2531-0437(22)00075-7. doi: 10.1016/j.pulmoe.2022.03.004. Epub ahead of print. PMID: 35501277; PMCID: PMC8958102.
 45. Grieco DL, Maggiore SM, Bellani G, Spadaro S, Spinelli E, [Tonetti T](#), Menga LS, Pozzi M, Battaglini D, Di Mussi R, Bruni A, De Gaetano A, Iovino CG, Brioni M, Mojoli F, Foti G, Volta CA, Pelosi P, Navalesi P, Grasso S, Ranieri VM, Antonelli M; IPERPEEP study group. 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. *Trials*. 2022 Jan 20;23(1):63. doi: 10.1186/s13063-021-05993-0. PMID: 35057852; PMCID: PMC8772175.
 46. Dalpiaz G, Gamberini L, Carnevale A, Spadaro S, Mazzoli CA, Piciucchi S, Allegri D, Capozzi C, Neziri E, Bartolucci M, Muratore F, Coppola F, Poerio A, Giampalma E, Baldini L, [Tonetti T](#), Cappellini I, Colombo D, Zani G, Mellini L, Agnoletti V, Damiani F, Gordini G, Laici C, Gola G, Potalivo A, Montomoli J, Ranieri VM, Russo E, Taddei S, Volta CA, Scaramuzzo G. Clinical implications of microvascular CT scan signs in COVID-19 patients requiring invasive mechanical ventilation. *Radiol Med*. 2022 Feb;127(2):162-173. doi: 10.1007/s11547-021-01444-7. Epub 2022 Jan 16. PMID: 35034320; PMCID: PMC8761248.
 47. Cojutti PG, Gatti M, Rinaldi M, [Tonetti T](#), Laici C, Mega C, Siniscalchi A, Giannella M, Viale P, Pea F. Impact of Maximizing C_{ss}/MIC Ratio on Efficacy of Continuous Infusion Meropenem Against Documented Gram-Negative Infections in Critically Ill Patients and Population Pharmacokinetic/Pharmacodynamic Analysis to Support Treatment Optimization. *Front Pharmacol*. 2021 Dec 8;12:781892. doi: 10.3389/fphar.2021.781892.
 48. Ranieri VM, [Tonetti T](#), Navalesi P, Nava S, Antonelli M, Pesenti A, Grasselli G, Grieco DL, Menga LS, Pisani L, Boscolo A, Sella N, Pasin L, Mega C, Pizzilli G, Dell'Olio A, Dongilli R, Rucci P, Slutsky AS. High Flow Nasal Oxygen for Severe Hypoxemia: Oxygenation Response and Outcome in COVID-19 Patients. *Am J Respir Crit Care Med*. 2021 Dec 3. doi: 10.1164/rccm.202109-2163OC.
 49. Gatti M, Cojutti PG, Pascale R, [Tonetti T](#), Laici C, Dell'Olio A, Siniscalchi A, Giannella M, Viale P, Pea F. Assessment of a PK/PD Target of Continuous Infusion Beta-Lactams Useful for Preventing Microbiological Failure and/or Resistance Development in Critically Ill Patients Affected by Documented Gram-Negative Infections. *Antibiotics (Basel)*. 2021 Oct 27;10(11):1311. doi: 10.3390/antibiotics10111311.

50. Mega C, Cavalli I, Ranieri VM, Tonetti T. Protective ventilation in patients with acute respiratory distress syndrome related to COVID-19: always, sometimes or never? *Curr Opin Crit Care*. 2022 Feb 1;28(1):51-56. doi: 10.1097/MCC.0000000000000904.
51. Grieco DL, Menga LS, Cesarano M, Spadaro S, Bitondo MM, Berardi C, Rosà T, Bongiovanni F, Maggiore SM, Antonelli M; COVID-ICU Gemelli Study Group. Phenotypes of Patients with COVID-19 Who Have a Positive Clinical Response to Helmet Noninvasive Ventilation. *Am J Respir Crit Care Med*. 2022 Feb 1;205(3):360-364. doi: 10.1164/rccm.202105-1212LE. PMID: 34788583; PMCID: PMC8887003.
52. Gamberini L, Mazzoli CA, Prediletto I, Sintonen H, Scaramuzzo G, Allegri D, Colombo D, Tonetti T, Zani G, Capozzi C, Dalpiaz G, Agnoletti V, Cappellini I, Melegari G, Damiani F, Fusari M, Gordini G, Laici C, Lanza MC, Leo M, Marudi A, Papa R, Potalivo A, Montomoli J, Taddei S, Mazzolini M, Ferravante AF, Nicali R, Ranieri VM, Russo E, Volta CA, Spadaro S; ICU-RER COVID-19 Collaboration; Radiology Collaborators (to be indexed and searchable into PubMed); Pneumology Collaborators (to be indexed and searchable into PubMed). Health-related quality of life profiles, trajectories, persistent symptoms and pulmonary function one year after ICU discharge in invasively ventilated COVID-19 patients, a prospective follow-up study. *Respir Med*. 2021 Nov-Dec;189:106665. doi: 10.1016/j.rmed.2021.106665.
53. Ranieri VM, Tonetti T, Nava S. Transpulmonary Pressure to Guide Mechanical Ventilation: Art or Science? *Am J Respir Crit Care Med*. 2021 Nov 15;204(10):1120-1121. doi: 10.1164/rccm.202109-2116ED.
54. Tonetti T, Pisani L, Cavalli I, Vega ML, Maietti E, Filippini C, Nava S, Ranieri VM. Extracorporeal carbon dioxide removal for treatment of exacerbated chronic obstructive pulmonary disease (ORION): study protocol for a randomised controlled trial. *Trials*. 2021 Oct 19;22(1):718. doi: 10.1186/s13063-021-05692-w.
55. Tonetti T, Grasselli G, Rucci P, Alessandri F, Dell'Olio A, Boscolo A, Pasin L, Sella N, Mega C, Melotti RM, Girardis M, Busani S, Bellani G, Foti G, Grieco DL, Scaravilli V, Protti A, Langer T, Mascia L, Pugliese F, Cecconi M, Fumagalli R, Nava S, Antonelli M, Slutsky AS, Navalesi P, Pesenti A, Ranieri VM. Synergistic Effect of Static Compliance and D-dimers to Predict Outcome of Patients with COVID-19-ARDS: A Prospective Multicenter Study. *Biomedicines*. 2021 Sep 15;9(9):1228. doi: 10.3390/biomedicines9091228.
56. Zanella A, Florio G, Antonelli M, Bellani G, Berselli A, Bove T, Cabrini L, Carlesso E, Castelli GP, Cecconi M, Citerio G, Coloretti I, Corti D, Dalla Corte F, De Robertis E, Foti G, Fumagalli R, Girardis M, Giudici R, Guiotto L, Langer T, Mirabella L, Pasero D, Protti A, Ranieri MV, Rona R, Scudeller L, Severgnini P, Spadaro S, Stocchetti N, Viganò M, Pesenti A, Grasselli G; COVID-19 Italian ICU Network. Time course of risk factors associated with mortality of 1260 critically ill patients with COVID-19 admitted to 24 Italian intensive care units. *Intensive Care Med*. 2021 Sep;47(9):995-1008. doi: 10.1007/s00134-021-06495-y.
57. Colombo SM, Battistin M, Carlesso E, Vivona L, Carfagna F, Valsecchi C, Florio G, Carenzo L, Tonetti T, Ranieri VM, Cecconi M, Pesenti A, Grasselli G, Zanella A. Sharing Mechanical Ventilator: In Vitro Evaluation of Circuit Cross-Flows and Patient Interactions. *Membranes (Basel)*. 2021 Jul 20;11(7):547. doi: 10.3390/membranes11070547.
58. Gaibani P, Viciani E, Bartoletti M, Lewis RE, Tonetti T, Lombardo D, Castagnetti A, Bovo F, Horna CS, Ranieri M, Viale P, Re MC, Ambretti S. The lower respiratory tract microbiome of critically ill patients with COVID-19. *Sci Rep*. 2021 May 12;11(1):10103. doi: 10.1038/s41598-021-89516-6.
59. Gamberini L, Mazzoli CA, Sintonen H, Colombo D, Scaramuzzo G, Allegri D, Tonetti T, Zani G, Capozzi C, Giampalma E, Agnoletti V, Becherucci F, Bertellini E, Castelli A, Cappellini I, Cavalli I, Crimaldi F,

- Damiani F, Fusari M, Gordini G, Laici C, Lanza MC, Leo M, Marudi A, Nardi G, Ottaviani I, Papa R, Potalivo A, Ranieri VM, Russo E, Taddei S, Volta CA, Spadaro S; ICU-RER COVID-19 Collaboration. Quality of life of COVID-19 critically ill survivors after ICU discharge: 90 days follow-up. *Qual Life Res.* 2021 May 12:1–13. doi: 10.1007/s11136-021-02865-7.
60. Scaramuzzo G, Gamberini L, Tonetti T, Zani G, Ottaviani I, Mazzoli CA, Capozzi C, Giampalma E, Bacchi Reggiani ML, Bertellini E, Castelli A, Cavalli I, Colombo D, Crimaldi F, Damiani F, Fusari M, Gamberini E, Gordini G, Laici C, Lanza MC, Leo M, Marudi A, Nardi G, Papa R, Potalivo A, Russo E, Taddei S, Consales G, Cappellini I, Ranieri VM, Volta CA, Guerin C, Spadaro S; ICU-RER COVID-19 Collaboration. Sustained oxygenation improvement after first prone positioning is associated with liberation from mechanical ventilation and mortality in critically ill COVID-19 patients: a cohort study. *Ann Intensive Care.* 2021 Apr 26;11(1):63. doi: 10.1186/s13613-021-00853-1.
 61. Grasselli G, Scaravilli V, Mangioni D, Scudeller L, Alagna L, Bartoletti M, Bellani G, Biagioni E, Bonfanti P, Bottino N, Coloretti I, Cutuli SL, De Pascale G, Ferlicca D, Fior G, Forastieri A, Franzetti M, Greco M, Guzzardella A, Linguadoca S, Meschiari M, Messina A, Monti G, Morelli P, Muscatello A, Redaelli S, Stefanini F, Tonetti T, Antonelli M, Cecconi M, Foti G, Fumagalli R, Girardis M, Ranieri M, Viale P, Ravigione M, Pesenti A, Gori A, Bandera A. Hospital-acquired infections in critically-ill COVID-19 patients. *Chest.* 2021 Apr 12:S0012-3692(21)00679-6. doi: 10.1016/j.chest.2021.04.002.
 62. Langer T, Brioni M, Guzzardella A, Carlesso E, Cabrini L, Castelli G, Dalla Corte F, De Robertis E, Favaro M, Forastieri A, Forlini C, Girardis M, Grieco DL, Mirabella L, Noseda V, Previtali P, Protti A, Rona R, Tardini F, Tonetti T, Zannoni F, Antonelli M, Foti G, Ranieri M, Pesenti A, Fumagalli R, Grasselli G; PRONA-COVID Group. Prone position in intubated, mechanically ventilated patients with COVID-19: a multi-centric study of more than 1000 patients. *Crit Care.* 2021 Apr 6;25(1):128. doi: 10.1186/s13054-021-03552-2.
 63. Grieco DL, Menga LS, Cesarano M, Rosà T, Spadaro S, Bitondo MM, Montomoli J, Falò G, Tonetti T, Cutuli SL, Pintauro G, Tanzarella ES, Piervincenzi E, Bongiovanni F, Dell'Anna AM, Delle Cese L, Berardi C, Carelli S, Bocci MG, Montini L, Bello G, Natalini D, De Pascale G, Velardo M, Volta CA, Ranieri VM, Conti G, Maggiore SM, Antonelli M; COVID-ICU Gemelli Study Group. Effect of Helmet Noninvasive Ventilation vs High-Flow Nasal Oxygen on Days Free of Respiratory Support in Patients With COVID-19 and Moderate to Severe Hypoxemic Respiratory Failure: The HENIVOT Randomized Clinical Trial. *JAMA.* 2021 Mar 25. doi: 10.1001/jama.2021.4682. PMID: 33764378.
 64. Giacobbe DR, Battaglini D, Enrile EM, Dentone C, Vena A, Robba C, Ball L, Bartoletti M, Coloretti I, Di Bella S, Di Biagio A, Brunetti I, Mikulska M, Carannante N, De Maria A, Magnasco L, Maraolo AE, Mirabella M, Montrucchio G, Patroniti N, Taramasso L, Tiseo G, Fornaro G, Fraganza F, Monasta L, Roman-Pognuz E, Paluzzano G, Fiorentino G, Corcione A, Bussini L, Pascale R, Corcione S, Tonetti T, Rinaldi M, Falcone M, Biagioni E, Ranieri VM, Giannella M, De Rosa FG, Girardis M, Menichetti F, Viale P, Pelosi P, Bassetti M. Incidence and Prognosis of Ventilator-Associated Pneumonia in Critically Ill Patients with COVID-19: A Multicenter Study. *J Clin Med.* 2021 Feb 3;10(4):555. doi: 10.3390/jcm10040555. PMID: 33546093.
 65. Gaibani P, Tonetti T, Bartoletti M, Re MC, Viale P, Ranieri VM. Antiviral activity of interferon-based combination therapy in critically ill patients with Covid-19: preliminary observations. *J Glob Antimicrob*

- Resist. 2020 Dec 29:S2213-7165(20)30325-8. doi: 10.1016/j.jgar.2020.12.011. Epub ahead of print. PMID: 33385588.
66. Grasselli G, Tonetti T, Filippini C, Slutsky AS, Pesenti A, Ranieri VM. Pathophysiology of COVID-19-associated acute respiratory distress syndrome – Authors’ reply. *Lancet Respir Med*. 2020 Nov 13:S2213-2600(20)30525-7. doi: 10.1016/S2213-2600(20)30525-7. Epub ahead of print. PMID: 33197387.
 67. Gamberini L, Tonetti T, Spadaro S, Zani G, Mazzoli CA, Capozzi C, Giampalma E, Bacchi Reggiani ML, Bertellini E, Castelli A, Cavalli I, Colombo D, Crimaldi F, Damiani F, Fogagnolo A, Fusari M, Gamberini E, Gordini G, Laici C, Lanza MC, Leo M, Marudi A, Nardi G, Ottaviani I, Papa R, Potalivo A, Russo E, Taddei S, Volta CA, Ranieri VM; ICU-RER COVID-19 Collaboration. Factors influencing liberation from mechanical ventilation in coronavirus disease 2019: multicenter observational study in fifteen Italian ICUs. *J Intensive Care*. 2020 Oct 15;8:80. doi: 10.1186/s40560-020-00499-4. PMID: 33078076; PMCID: PMC7558552.
 68. Sakr Y, Giovini M, Leone M, Pizzilli G, Kortgen A, Bauer M, Tonetti T, Duclos G, Zieleskiewicz L, Buschbeck S, Ranieri VM, Antonucci E. The clinical spectrum of pulmonary thromboembolism in patients with coronavirus disease-2019 (COVID-19) pneumonia: A European case series. *J Crit Care*. 2020 Sep 25;61:39-44. doi: 10.1016/j.jcrc.2020.09.021. Epub ahead of print. PMID: 33075608; PMCID: PMC7518181.
 69. Tonetti T, Grasselli G, Zanella A, Pizzilli G, Fumagalli R, Piva S, Lorini L, Iotti G, Foti G, Colombo S, Vivona L, Rossi S, Girardis M, Agnoletti V, Campagna A, Gordini G, Navalesi P, Boscolo A, Graziano A, Valeri I, Vianello A, Cereda D, Filippini C, Cecconi M, Locatelli F, Bartoletti M, Giannella M, Viale P, Antonelli M, Nava S, Pesenti A, Ranieri VM; COVID-19 Northern Italian ICU Network. Use of critical care resources during the first 2 weeks (February 24-March 8, 2020) of the Covid-19 outbreak in Italy. *Ann Intensive Care*. 2020 Oct 12;10(1):133. doi: 10.1186/s13613-020-00750-z. PMID: 33044646.
 70. Hahn G, Niewenhuis J, Just A, Tonetti T, Behnemann T, Rapetti F, Collino F, Vasques F, Maiolo G, Romitti F, Gattinoni L, Quintel M, Moerer O. Monitoring lung impedance changes during long-term ventilator-induced lung injury ventilation using electrical impedance tomography. *Physiol Meas*. 2020 Oct 9;41(9):095011. doi: 10.1088/1361-6579/abb1fb. PMID: 33035199.
 71. Bartoletti M, Marconi L, Scudeller L, Pancaldi L, Tedeschi S, Giannella M, Rinaldi M, Bussini L, Valentini I, Ferravante AF, Potalivo A, Marchionni E, Fornaro G, Pascale R, Pasquini Z, Puoti M, Merli M, Barchiesi F, Volpato F, Rubin A, Saracino A, Tonetti T, Gaibani P, Ranieri VM, Viale P, Cristini F; PREDICO study group. Efficacy of corticosteroid treatment for hospitalized patients with severe COVID-19: a multicenter study. *Clin Microbiol Infect*. 2020 Sep 21:S1198-743X(20)30563-2. doi: 10.1016/j.cmi.2020.09.014. Epub ahead of print. PMID: 32971254; PMCID: PMC7506332.
 72. Sakr Y, Giovini M, Leone M, Pizzilli G, Kortgen A, Bauer M, Tonetti T, Duclos G, Zieleskiewicz L, Buschbeck S, Ranieri VM, Antonucci E. Pulmonary embolism in patients with coronavirus disease-2019 (COVID-19) pneumonia: a narrative review. *Ann Intensive Care*. 2020 Sep 16;10(1):124. doi: 10.1186/s13613-020-00741-0. PMID: 32936400.
 73. Grasselli G, Tonetti T, Protti A, Langer T, Girardis M, Bellani G, Laffey J, Carrafiello G, Carsana L, Rizzuto C, Zanella A, Scaravilli V, Pizzilli G, Grieco DL, Di Meglio L, de Pascale G, Lanza E, Monteduro F, Zompatori M, Filippini C, Locatelli F, Cecconi M, Fumagalli R, Nava S, Vincent JL, Antonelli M, Slutsky AS, Pesenti A, Ranieri VM; collaborators. Pathophysiology of COVID-19-associated acute respiratory distress

- syndrome: a multicentre prospective observational study. *Lancet Respir Med.* 2020 Aug 27:S2213-2600(20)30370-2. doi: 10.1016/S2213-2600(20)30370-2. Epub ahead of print. PMID: 32861276.
74. Tonetti T, Picetti E, Taccone FS, Biondini S, Minardi F, Rossi S. Safety of Early Tracheostomy Performed by Intensivists in Acute Brain-injured Patients: A 1-Year Observational Study. *J Neurosurg Anesthesiol.* 2020 Aug 13. doi: 10.1097/ANA.0000000000000707. Epub ahead of print.
 75. Bartoletti M, Giannella M, Scudeller L, Tedeschi S, Rinaldi M, Bussini L, Fornaro G, Pascale R, Pancaldi L, Pasquini Z, Trapani F, Badia L, Campoli C, Tadolini M, Attard L, Puoti M, Merli M, Mussini C, Menozzi M, Meschiari M, Codeluppi M, Barchiesi F, Cristini F, Saracino A, Licci A, Rapuano S, Tonetti T, Gaibani P, Ranieri VM, Viale P; PREDICO study group. Development and validation of a prediction model for severe respiratory failure in hospitalized patients with SARS-CoV-2 infection: a multicentre cohort study (PREDICO study). *Clin Microbiol Infect.* 2020 Aug 8:S1198-743X(20)30479-1. doi: 10.1016/j.cmi.2020.08.003. Epub ahead of print. PMID: 32781244; PMCID: PMC7414420.
 76. Pisani L, Nava S, Desiderio E, Polverino M, Tonetti T, Ranieri VM. Extracorporeal CO₂ removal (ECCO₂R) in patients with stable COPD with chronic hypercapnia: a proof-of-concept study. *Thorax.* 2020 Aug 5:thoraxjnl-2020-214744. doi: 10.1136/thoraxjnl-2020-214744. Epub ahead of print.
 77. Bartoletti M, Pascale R, Cricca M, Rinaldi M, Maccaro A, Bussini L, Fornaro G, Tonetti T, Pizzilli G, Francalanci E, Giuntoli L, Rubin A, Moroni A, Ambretti S, Trapani F, Vatamanu O, Ranieri VM, Castelli A, Baiocchi M, Lewis R, Giannella M, Viale P; PREDICO study group. Epidemiology of invasive pulmonary aspergillosis among COVID-19 intubated patients: a prospective study. *Clin Infect Dis.* 2020 Jul 28:ciaa1065. doi: 10.1093/cid/ciaa1065. Epub ahead of print. PMID: 32719848.
 78. Rottoli M, Bernante P, Belvedere A, Balsamo F, Garelli S, Giannella M, Cascavilla A, Tedeschi S, Ianniruberto S, Rosselli Del Turco E, Tonetti T, Ranieri VM, Poggioli G, Manzoli L, Pagotto U, Viale P, Bartoletti M. How important is obesity as a risk factor for respiratory failure, intensive care admission and death in hospitalised COVID-19 patients? Results from a single Italian centre. *Eur J Endocrinol.* 2020 Jul 1:EJE-20-0541.R2. doi: 10.1530/EJE-20-0541. Epub ahead of print. PMID: 32674071.
 79. Tonetti T, Cavalli I, Ranieri VM, Mascia L. Respiratory consequences of intra-abdominal hypertension. *Minerva Anesthesiol.* 2020 Aug;86(8):877-883. doi: 10.23736/S0375-9393.20.14325-6.
 80. Tonetti T, Zanella A, Pizzilli G, Irvin Babcock C, Venturi S, Nava S, Pesenti A, Ranieri VM. One ventilator for two patients: feasibility and considerations of a last resort solution in case of equipment shortage. *Thorax.* 2020 Jun;75(6):517-519. doi: 10.1136/thoraxjnl-2020-214895.
 81. Picetti E, Rossi S, Abu-Zidan FM, Ansaloni L, Armonda R, Baiocchi GL, Bala M, Balogh ZJ, Berardino M, Biffi WL, Bouzat P, Buki A, Ceresoli M, Chesnut RM, Chiara O, Citerio G, Coccolini F, Coimbra R, Di Saverio S, Fraga GP, Gupta D, Helbok R, Hutchinson PJ, Kirkpatrick AW, Kinoshita T, Kluger Y, Leppaniemi A, Maas AIR, Maier RV, Minardi F, Moore EE, Myburgh JA, Okonkwo DO, Otomo Y, Rizoli S, Rubiano AM, Sahuquillo J, Sartelli M, Scalea TM, Servadei F, Stahel PF, Stocchetti N, Taccone FS, Tonetti T, Velmahos G, Weber D, Catena F. WSES consensus conference guidelines: monitoring and management of severe adult traumatic brain injury patients with polytrauma in the first 24 hours. *World J Emerg Surg.* 2019 Nov 29;14:53. doi: 10.1186/s13017-019-0270-1.

82. Del Sorbo L, Tonetti T, Ranieri VM. Alveolar recruitment in acute respiratory distress syndrome: should we open the lung (no matter what) or may accept (part of) the lung closed? *Intensive Care Med.* 2019. doi: 10.1007/s00134-019-05734-7. [Epub ahead of print].
83. Combes A, Tonetti T, Fanelli V, Pham T, Pesenti A, Mancebo J, Brodie D, Ranieri VM. Efficacy and safety of lower versus higher CO₂ extraction devices to allow ultraprotective ventilation: secondary analysis of the SUPERNOVA study. *Thorax.* 2019 Aug 13. pii: thoraxjnl-2019-213591. doi:10.1136/thoraxjnl-2019-213591.
84. De Cassai A, Tonetti T. Central Venous Line Placement and Ultrasound Probe Damage: A Word of Caution. *J Med Ultrasound.* 2019 Apr-Jun;27(2):110. doi: 10.4103/JMU.JMU_76_18.
85. Maiolo G, Tonetti T, Gattinoni L. Tailoring the cure: still science fiction? *J Thorac Dis* 2019;11(3):E32-E33. doi: 10.21037/jtd.2019.02.74
86. De Cassai A, Bonvicini D, Correale C, Sandei L, Tulgar S, Tonetti T. Erector spinae plane block: a systematic qualitative review. *Minerva Anesthesiol.* 2019 Jan 4. doi: 10.23736/S0375-9393.18.13341-4. [Epub ahead of print]
87. De Cassai A, Tonetti T, Galligioni H, Ori C. Erector spinae plane block as a multiple catheter technique for open esophagectomy: a case report. *Rev Bras Anesthesiol.* 2019 Jan - Feb;69(1):95-98. doi: 10.1016/j.bjan.2018.06.001.
88. De Cassai A, Boscolo A, Tonetti T, Ban I, Ori C. The assignment of ASA-physical status relates to anesthesiologist's experience: a survey-based national-study. *Korean J Anesthesiol.* 2019 Feb;72(1):53-59. doi: 10.4097/kja.d.18.00224.
89. Collino F, Rapetti F, Vasques F, Maiolo G, Tonetti T, Romitti F, Niewenhuys J, Behnemann T, Camporota L, Hahn G, Reupke V, Holke K, Herrmann P, Duscio E, Cipulli F, Moerer O, Marini JJ, Quintel M, Gattinoni L. Positive End-expiratory Pressure and Mechanical Power. *Anesthesiology.* 2019 Jan;130(1):119-130. doi: 10.1097/ALN.0000000000002458.
90. Duscio E, Cipulli F, Vasques F, Collino F, Rapetti F, Romitti F, Behnemann T, Niewenhuys J, Tonetti T, Pasticci I, Vassalli F, Reupke V, Moerer O, Quintel M, Gattinoni L. Extracorporeal CO₂ Removal: The Minimally Invasive Approach, Theory, and Practice. *Crit Care Med.* 2019 Jan;47(1):33-40. doi: 10.1097/CCM.0000000000003430.
91. De Cassai A, Tonetti T. Local anesthetic spread during erector spinae plane block. *J Clin Anesth.* 2018 Aug;48:60-61. doi: 10.1016/j.jclinane.2018.05.003.
92. De Cassai A, Tonetti T, Ori C. Quadratus Lumborum Block for Incarcerated Hernia Repair in a Multi-Morbid Elderly Patient: A Case Report. *J Anest & Inten Care Med.* 2018; 6(5): 555696. DOI: 10.19080/JAICM.2018.06.555696
93. Maiolo G, Collino F, Vasques F, Rapetti F, Tonetti T, Romitti F, Cressoni M, Chiumello D, Mörer O, Herrmann P, Friede T, Quintel M, Gattinoni L. Reclassifying Acute Respiratory Distress Syndrome. *Am J Respir Crit Care Med.* 2018 Jun 15;197(12):1586-1595. doi: 10.1164/rccm.201709-1804OC.
94. Gattinoni L, Tonetti T, Quintel M. Regional Physiology of ARDS. *Critical Care.* 2017 Dec 28;21(Suppl 3):312. doi: 10.1186/s13054-017-1905-9.
95. Tonetti T, De Cassai A, Ori C. Acute ischemia of the thumb caused by radial artery cannulation. *Intensive Care Med.* 2018 May;44(5):656-657. doi: 10.1007/s00134-017-5029-0.

96. Semeraro F, Colucci M, Caironi P, Masson S, Ammollo CT, Teli R, Semeraro N, Magnoli M, Salati G, Isetta M, Panigada M, [Tonetti T](#), Tognoni G, Latini R, Pesenti A, Gattinoni L. Platelet Drop and Fibrinolytic Shutdown in Patients With Sepsis. *Crit Care Med*. 2018 Mar;46(3):e221-e228. doi: 10.1097/CCM.0000000000002919.
97. Cambiaghi B, Vasques F, Moerer O, Ritter C, Mauri T, Kunze-Szikszay N, Holke K, Collino F, Maiolo G, Rapetti F, Schulze-Kalthoff E, [Tonetti T](#), Hahn G, Quintel M, Gattinoni L. Effects of regional perfusion block in healthy and injured lungs. *Int Care Med Experimental* 2017 Oct 13;5(1):46. doi: 10.1186/s40635-017-0161-2.
98. Gattinoni L, Collino F, Maiolo G, Rapetti F, Romitti F, [Tonetti T](#), Vasques F, Quintel M. Positive end-expiratory pressure: how to set it at the individual level. *Ann Transl Med*. 2017 Jul;5(14):288. doi: 10.21037/atm.2017.06.64.
99. [Tonetti T](#), Vasques F, Rapetti F, Maiolo G, Collino F, Romitti F, Camporota L, Cressoni M, Cadringer P, Quintel M, Gattinoni L. Driving pressure and mechanical power: new targets for VILI prevention. *Ann Transl Med*. 2017 Jul;5(14):286. doi: 10.21037/atm.2017.07.08.
100. Gattinoni L, Marini JJ, Collino F, Maiolo G, Rapetti F, [Tonetti T](#), Vasques F, Quintel M. The future of mechanical ventilation: lessons from the present and the past. *Critical Care*. 2017 Jul 12;21(1):183. doi: 10.1186/s13054-017-1750-x.
101. Gattinoni L, [Tonetti T](#), Quintel M. Intensive Care in 2050: Ventilator-Induced Lung Injury. *Intensive Care Med*. 2018 Jan;44(1):76-78. doi: 10.1007/s00134-017-4770-8.
102. Cressoni M, Chiumello D, Algieri I, Brioni M, Chiurazzi C, Colombo A, Colombo A, Crimella F, Guanzioli M, Tomic I, [Tonetti T](#), Vergani GL, Carlesso E, Gasparovic V, Gattinoni L. Opening pressures and atelectrauma in acute respiratory distress syndrome. *Intensive Care Med*. 2017 May;43(5):603-611. doi: 10.1007/s00134-017-4754-8.
103. [Tonetti T](#), Cressoni M, Collino F, Maiolo G, Rapetti F, Quintel M, Gattinoni L. Volutrauma, Atelectrauma, and Mechanical Power. *Crit Care Med*. 2017 Mar;45(3):e327-e328. doi: 10.1097/CCM.0000000000002193.
104. Moerer O, [Tonetti T](#), Quintel M. Rescue therapies for acute respiratory distress syndrome: what to try first? *Curr Opin Crit Care*. 2017 Feb;23(1):52-59. doi: 10.1097/MCC.0000000000000374.
105. Gattinoni L, [Tonetti T](#), Quintel M. How best to set the ventilator on extracorporeal membrane lung oxygenation. *Curr Opin Crit Care*. 2017 Feb;23(1):66-72. doi: 10.1097/MCC.0000000000000376.
106. Feltracco P, [Tonetti T](#), Barbieri S, Frigo AC, Ori C. Cisatracurium and rocuronium associated residual neuromuscular dysfunction under intraoperative neuromuscular monitoring and postoperative neostigmine reversal. A single-blind randomized trial. *Journal of Clinical Anesthesia*. *J Clin Anesth*. 2016 Dec;35:198-204. doi: 10.1016/j.jclinane.2016.07.031.
107. Gattinoni L, [Tonetti T](#), Quintel M. Improved survival in critically ill patients: are large RCTs more useful than personalized medicine? We are not sure. *Intensive Care Med*. *Intensive Care Med*. 2016 Nov;42(11):1781-3.
108. Gattinoni L, [Tonetti T](#), Cressoni M, Cadringer P, Herrmann P, Moerer O, Protti A, Gotti M, Chiurazzi C, Carlesso E, Chiumello D, Quintel M. Ventilator-related causes of lung injury: the mechanical power. *Intensive Care Med*. 2016 Oct;42(10):1567-75. doi: 10.1007/s00134-016-4505-2.

109. Quintel M, Tonetti T, Gattinoni L. Will all ARDS patients be receiving mechanical ventilation in 2035? – We are not sure. *Intensive Care Med.* 2017 Apr;43(4):573-574. doi: 10.1007/s00134-016-4456-7.
110. Feltracco P, Gaudio RM, Barbieri S, Tiano L, Iacobone M, Viel G, Tonetti T, Galligioni H, Bortolato A, Ori C, Avato FM. The perils of dental vacation: possible anaesthetic and medicolegal consequences. *Med Sci Law.* 2013 Jan;53(1):19-23. doi: 10.1258/msl.2012.012047.

B. Abstracts and posters at congresses and meetings (presenter)

1. M. Cressoni, D. Chiumello, C. Chiurazzi, M. Brioni, I. Algieri, M. Guanziroli, G. Vergani, T. Tonetti, I. Tomic, A. Colombo, F. Crimella, E. Carlesso, A. Colombo, V. Gasparovic, L. Gattinoni. Collapse and decollapse in acute respiratory distress syndrome. In: ESICM LIVES 2016: part one. *Intensive Care Medicine Experimental* 2016, 4(Suppl 1):A226.
2. C. Chiurazzi, M. Cressoni, D. Massari, M. Guanziroli, G. Vergani, M. Gotti, M. Brioni, I. Algieri, P. Cadringer, T. Tonetti, D. Chiumello, L. Gattinoni. Determinants of energy load in acute respiratory distress syndrome patients. In: ESICM LIVES 2016: part one. *Intensive Care Medicine Experimental* 2016, 4(Suppl 1):A240.
3. G. Vergani, M. Cressoni, D. Chiumello, C. Chiurazzi, M. Brioni, I. Algieri, T. Tonetti, M. Guanziroli, A. Colombo, I. Tomic, A. Colombo, F. Crimella, E. Carlesso, V. Gasparovic, L. Gattinoni. Inspiratory recruitment in acute respiratory distress syndrome. In: ESICM LIVES 2016: part three. *Intensive Care Medicine Experimental* 2016, 4(Suppl 1):A891.

C. Abstracts and posters at congresses and meetings (co-author)

1. A. Dell'Olio, C. Vocale, A. Primavera, S. Altavilla, G. Roncarati, C. Mega, F. Tumietto, P. Viale, M.C. Re, V.M. Ranieri, T. Lazzarotto, T. Tonetti. Environmental contamination by SARS-CoV-2 in COVID-19 patients undergoing noninvasive ventilation in the intensive care unit. Abstract presented at the Area Critica 2021 congress; 2021 December 02-03; Bologna, Italy.
2. M. Bordini, L. Mascia, E. Maietti, L. Bambini, I. Cavalli, G. Pizzilli, P. Rucci, V.M. Ranieri, T. Tonetti. Effect of age on mortality in patients undergoing veno-venous ECMO: a systematic review and meta-analysis. Abstract presented at the 40th ISICEM congress; 2021 August 31 – September 3; Brussels, Belgium.
3. L. Bambini, L. Mascia, E. Maietti, M. Bordini, I. Cavalli, G. Pizzilli, P. Rucci, V.M. Ranieri, T. Tonetti. Long-term survival and neurological outcome of adult patients with cardiac arrest treated with extracorporeal versus conventional CPR: a systematic review and meta-analysis. Abstract presented at the 40th ISICEM congress; 2021 August 31 – September 3; Brussels, Belgium.
4. C. Mega, T. Tonetti, S. Donnini, I. Cavalli, P. Rucci, G. Pizzilli, V.M. Ranieri, P. Malacarne, L. Mascia. Are current ventilatory settings still related to development of Acute Respiratory Distress Syndrome patients with severe acute brain injury? Abstract presented at the ESICM LIVES 2020 Digital Congress; 2020 December 06-09.
5. M. Della Giovampaola, T. Tonetti, P. Bottausci, L. Sambati, K. Mattarozzi, R. Santoro, L. Cretella, L. Romani, V.M. Ranieri, P. Cortelli, M. Guarino, L. Mascia. Neuropsychological outcome of patients with severe Covid-

- 19 infection admitted to ICU. Abstract presented at the ESICM LIVES 2020 Digital Congress; 2020 December 06-09.
6. I. Cavalli, A. Siniscalchi, D. Ricci, E. Mancini, A. Santoro, T. Tonetti, V.M. Ranieri. Extracorporeal CO₂ Removal Reduces Inspiratory Muscle Effort During Renal Replacement Therapy in a Difficult to Wean Patient After Orthotopic Liver Transplantation: A Case Report. Abstract presented at the e-ISICEM congress; 2020 September 15-18; Brussels, Belgium.
 7. E. Duscio, F. Cipulli, F. Vasques, F. Collino, F. Rapetti, T. Tonetti, F. Romitti, M. Quintel, L. Gattinoni. Extracorporeal CO₂ removal: The minimally invasive approach. Abstract presented at the 29th SMART Meeting; 2018 May 9-11; Milan, Italy.
 8. F. Vasques, F. Collino, F. Rapetti, T. Tonetti, G. Maiolo, E. Duscio, F. Cipulli, K. Holke, F. Romitti, M. Quintel, L. Gattinoni. The role of PEEP in ventilation-induced lung injury: histological evidence. Abstract presented at the 29th SMART Meeting; 2018 May 9-11; Milan, Italy.
 9. F. Collino, F. Rapetti, F. Vasques, G. Maiolo, T. Tonetti, F. Romitti, E. Duscio, F. Cipulli, M. Quintel, L. Gattinoni. Positive end expiratory pressure and mechanical power: new perspectives on ventilator induced lung injury. Abstract presented at the 29th SMART Meeting; 2018 May 9-11; Milan, Italy.
 10. F. Rapetti, J. Niewenhuys, F. Collino, G. Maiolo, T. Tonetti, F. Vasques, E. Duscio, F. Cipulli, L. Ball, G. Hahn, P. Pelosi, M. Quintel, L. Gattinoni. Effects of PEEP on the pathogenesis of acute respiratory distress syndrome in a porcine model: an electrical impedance tomography study. Abstract presented at the 29th SMART Meeting; 2018 May 9-11; Milan, Italy.
 11. G. Maiolo, F. Collino, F. Rapetti, T. Tonetti, F. Vasques, M. Quintel, L. Gattinoni. Integrating CT analysis in the decision process of starting extracorporeal membrane oxygenation (ECMO) in ARDS patients. Abstract presented at the 28th SMART Meeting; 2017 May 10-12; Milan, Italy.
 12. F. Rapetti, F. Collino, G. Maiolo, T. Tonetti, F. Vasques, J. Niewenhuys, M. Quintel, L. Gattinoni. Could the EIT be a good surrogate of the EVLW? Abstract presented at the 28th SMART Meeting; 2017 May 10-12; Milan, Italy.
 13. F. Collino, F. Rapetti, G. Maiolo, T. Tonetti, F. Vasques, T. Behnemann, M. Quintel, L. Gattinoni. Is lung edema the best parameter to monitor lung damage in patients ventilated with higher PEEP levels? Abstract presented at the 28th SMART Meeting; 2017 May 10-12; Milan, Italy.
 14. F. Facchin, F. Zarantonello, G. Panciera, A. De Cassai, A. Vendramin, A. Ballin, T. Tonetti, P. Persona, C. Ori, L. Del Sorbo, S. Rossi. ULTRAPEEP: lung ultrasound for the assessment of lung recruitment during esophageal pressure-guided PEEP in ARDS. In: ESICM LIVES 2016: part three. Intensive Care Medicine Experimental 2016, 4(Suppl 1):A890.
 15. A. Vendramin, M. Pizzi, T. Tonetti, A. Panelli, F. Facchin, M. Rugge, C. Ori, S. Rossi. Fungal infections in the ICU: clinical and histopathological findings. Abstract presented at the 26th SMART Meeting; 2015 May 27-29; Milan, Italy.

D. Book chapters

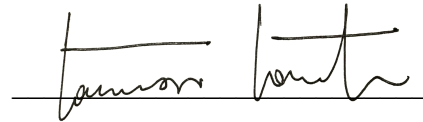
1. Tonetti T., Ranieri VM. "Cardiopulmonary Monitoring in the Patient with an Inflamed Lung". In *Cardiopulmonary Monitoring*, edited by Sheldon Magder, Atul Malhotra, Kathryn A. Hibbert, Charles Corey Hardin. Cham, Switzerland: Springer Nature, 2021.

2. Tonetti T, Biondini S, Minardi F, Rossi S, Picetti E. "Definition and Pathomechanism of the Intracranial Compartment Syndrome". In *Compartment Syndrome*, edited by Federico Coccolini, Manu L. N. G. Malbrain, Andrew W. Kirkpatrick and Emiliano Gamberini. Cham, Switzerland: Springer Nature, 2021.
3. Cavalli I, Tonetti T, Ranieri VM. "Effects of mechanical ventilation on the lungs". In *ERS Practical Handbook of Invasive Mechanical Ventilation*, edited by Leo Heunks and Marcus J. Schultz. Sheffield, UK: ERS Publications, 2019.
4. Zarantonello F, Tonetti T. "Complications of Mechanical Ventilation". In *Mechanical Ventilation: Applications, Technologies and Ethical Issues*, edited by Antonio M. Esquinas. New York: Nova Science Publishers, 2018.

E. Other editorial projects

1. Revision of sections 8.1 e 8.2 (chapters 293 to 299) of the 20th Italian edition of "Harrison's Principle of Internal Medicine" – Casa Editrice Ambrosiana (Zanichelli) – Rozzano (Milan, Italy)

Bologna, November 18th, 2025



(Tommaso Tonetti)