

Tommaso Tonetti – Curriculum vitae

General data

➤ Name	Tommaso
➤ Surname	Tonetti
➤ Place and date of birth	Venice (Italy), 23 rd May 1987
➤ Home address	Via Luigi Cherubini 4 40141 Bologna (Italy)
➤ Mobile number	+39.348.5448161
➤ 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
Member of the Clinical Trials Quality Team (CTQT)	June 2023 - now	Sant’Orsola University Hospital, Bologna

- Teaching

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
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

- 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

- 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

Member of the steering committee	2019 - now	ORION trial
Study co-Principal Investigator	2020 - now	SUPERNOVA trial

Congresses and meetings

- **Invited speaker:**
 - 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:**
 - 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: **90**; total citations: **4107**; h-index: **33**.
- Web of Science
Total documents: **83**; total citations: **3554**; h-index: **31**.

List of publications

A. Publications on scientific journals

1. 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.
2. 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, Mellingshoff 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.
3. 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.
4. 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 Venovenous Hemodiafiltration. *Antibiotics (Basel)*. 2023 Oct 10;12(10):1524. doi: 10.3390/antibiotics12101524. PMID: 37887225; PMCID: PMC10604776.
5. 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.
6. 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.
7. 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.
 8. 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.
 9. 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.
 10. 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.
 11. 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.
 12. 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.
 13. 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.
 14. Benedetto M, Piccone G, Baiocchi M, Cerchierini E, Adversi 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.
15. 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.
16. Alessandri F, Tonetti T, Pistidda L, Busani S, Borrazzo C, Fanelli V, Polzoni M, Piazza O, Lorini L, Cattaneo S, Ricci D, Zanoni 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.
17. Conway Morris A, Kohler K, De Corte T, Ercole A, De Grooth HJ, Elbers PWG, Povoia P, Morais R, Kouleli 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. Busani S, Coloretti I, Baciarello M, Bellini V, Sarti M, Biagioni E, Tonelli R, Marchioni A, Clini 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.

23. 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.
24. Dalpiaz G, Gamberini L, Carnevale A, Spadaro S, Mazzoli CA, Piciucchi S, Allegri D, Capozzi C, Neziric 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, Scaramuzza 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. Gamberini L, Mazzoli CA, Prediletto I, Sintonen H, Scaramuzza 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.

31. 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.
32. [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.
33. [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.
34. 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.
35. Colombo SM, Battistin M, Carlesso E, Vivona L, Carfagna F, Valsecchi C, Florio G, Careno 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.
36. 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.
37. Gamberini L, Mazzoli CA, Sintonen H, Colombo D, Scaramuzza 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.
38. Scaramuzza 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.
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B. Abstracts and posters at congresses and meetings (presenter)

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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.
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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.
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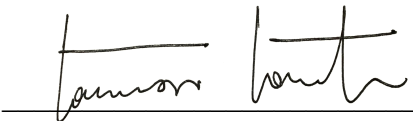
D. Book chapters

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, January 26th, 2024



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