

Curriculum Vitae

Dott. Roberto Tonelli

Indirizzo: Via Del Pozzo 71, 41125 Modena

Telefono: +390594225934

E-mail: roberto.tonelli@unimore.it

FORMAZIONE

2023 – presente

Ricercatore

Unità di Terapia Intensiva, Amsterdam University Medical Center,
Amsterdam, Olanda

2022 – presente

Assegnista di Ricerca Senior

Dipartimento di Scienze Mediche e Chirurgiche Materno Infantili e
dell'Adulto, Università degli Studi di Modena e Reggio Emilia

2019 - presente

**PhD Course in Clinical and Experimental Medicine – Corso di
Dottorato in Medicina Clinica e Sperimentale**

Università degli Studi di Modena e Reggio Emilia

2019

Laurea Specialistica in Malattie dell'Apparato Respiratorio

Unità Operativa Complessa di Malattie dell'Apparato Respiratorio,
Università degli Studi di Modena e Reggio Emilia
Voto 110/100 con lode

2013

**Abilitazione alla Professione di Medico Chirurgo in Medicina e
Chirurgia**

Università degli Studi di Modena e Reggio Emilia – Ordine dei Medici
di Modena
Voto: 270/270

2014

Laurea in Medicina e Chirurgia

Università degli Studi di Modena e Reggio Emilia
Voto: 110/110 con lode

2002 – 2017

Diploma di Maturità Classica

Liceo Classico Ludovico Antonio Muratori, Modena
Voto: 100/100 con lode

ESPERIENZE PROFESSIONALI

- 2022 – presente **Socio fondatore di IREC S.r.l. (C.F./P.I. 02959080355)**
- 2021 – presente **Tutor e Docente di Metodologia Clinica, CdL in Medicina e Chirurgia**
Università degli Studi di Modena e Reggio Emilia
- 2020 – presente **Membro del Laboratorio di Pneumologia Sperimentale,**
Dipartimento di Scienze Mediche e Chirurgiche Materno Infantili e
dell'Adulto, Università degli Studi di Modena e Reggio Emilia
(<http://www.experimentalpneumology.unimore.it/site/home.html>)
- 2020 - presente **Membro del COvid Neural Self-Triage App – National Telemedicine**
Interdisciplinary Network (CONSTANTINE) task force
(<https://www.constantinetaskforce.com>) per lo sviluppo di COVID-
GUIDE chatbot (<https://covidguide.smass.ch/#/pathfinder/chatbot>)
- 2019 - presente **Medico contrattista nel ruolo di Specialista in Malattie**
dell'Apparato Respiratorio
Unità Operativa Complessa di Malattie dell'Apparato Respiratorio,
Azienda Ospedaliero-Universitaria Policlinico di Modena
- 2014 – 2019 **Medico in Formazione Specialistica**
Azienda Ospedaliero-Universitaria Policlinico di Modena, Modena
- 2013 (Agosto-Settembre) **Visiting Scholar**
Interstitial Lung Disease Program, Division of Pulmonary, Critical Care,
Allergy and Sleep Medicine, University of California San Francisco,
San Francisco (CA, USA)
- 2013 **Tutor per studenti della facoltà di Medicina e Chirurgia – Progetto**
Tutoriamo
Università degli Studi di Modena e Reggio Emilia – Facoltà di
Medicina e Chirurgia, Modena
- 2012 (Agosto) **Medical Student Observer**
Respiratory Disease Unit, Royal Brompton Hospital, Londra (UK)

2. Mattioli F, Serafini E, Andreani A, Cappiello G, Marchioni D, Pinelli M, Tonelli R, Clini E and Marchioni A, Endoscopic closure with double stenting and autologous fascia lata graft of large trachea-esophageal fistula, *Front. Surg.* 2023. doi.org/10.3389/fsurg.2023.1107461
3. Biagioni E, Ferrari E, Gatto I, Serio L, Farinelli C, Coloretti I, Talamonti M, Tosi M, Meschiari M, Tonelli R, Role of Selective Digestive Decontamination in the Prevention of Ventilator-Associated Pneumonia in COVID-19 Patients: A Pre-Post Observational Study. *J. Clin. Med.* 2023, 12, x. <https://doi.org/10.3390/xxxxx>
4. Mussini C, Cozzi-Lepri A, Meschiari M, Franceschini E, Burastero G, Faltoni M, Franceschi G, Iadernia V, Volpi S, Dessilani A et al. Do All Critically Ill Patients with COVID-19 Disease Benefit from Adding Tocilizumab to Glucocorticoids? A Retrospective Cohort Study. *Viruses* 2023, 15, 294. <https://doi.org/10.3390/v15020294>.
5. Tonelli R, Cortegiani A, Fantini R, Tabbì L, Castaniere I, Bruzzi G, Busani S, Ball L, Marchioni A, Clini E Accuracy of Nasal Pressure Swing to Predict Failure of High Flow Nasal Oxygen in Patients with Acute Hypoxemic Respiratory Failure. *Am J of Resp Crit Care Med*, 2022. doi: <https://doi.org/10.1164/rccm.202210-1848LE>.
6. Tonelli R, Castaniere I, Cortegiani A, Tabbì L, Fantini R, Andrisani D, Gozzi F, Moretti A, Bruzzi G, Manicardi L, Cerbone C, Nani C, Biagioni E, Cerri S, Samarelli V, Busani S, Girardis M, Marchioni A, Clini E. Inspiratory Effort and Respiratory Mechanics in Patients with Acute Exacerbation of Idiopathic Pulmonary fibrosis: A Preliminary Matched Control Study. *Pulmonology*. 2022 Sep 27:S2531-0437(22)00204-5. doi: 10.1016/j.pulmoe.2022.08.004. Epub ahead of print. PMID: 36180352.
7. Aramini B, Masciale V, Samarelli AV, Tonelli R, Cerri S, Clini E, Stella F and Dominici M Biological effects of COVID-19 on lung cancer: Can we drive our decisions. *Front. Oncol* 2022. 12:1029830. doi: 10.3389/fonc.2022.1029830.
8. Spagnolo P, Tonelli R, Samarelli AV, Castelli G, Coconcelli E, Petrarulo S, Cerri S, Bernardinello N, Clini E, Saetta M, Balestro E. The role of immune response in the pathogenesis of idiopathic pulmonary fibrosis: far beyond the Th1/Th2 imbalance. *Expert Opin Ther Targets*. 2022 Aug 19. doi: 10.1080/14728222.2022.2114897. Epub ahead of print. PMID: 35983984.
9. Tabbì L, Tonelli R, Comellini V, Dongilli R, Sorgentone S, Spacone A, et al; for the Respiratory Intensive Care Study group. Delirium incidence and risk factors in patients undergoing non-invasive ventilation for acute respiratory failure: a multicenter observational trial. *Minerva Anestesiol* 2022 Jun 15. DOI: 10.23736/S0375-9393.22.16511-9
10. Verduri A, Hewitt J, Carter B, Tonelli R, Clini E, Beghè B, Prevalence of asthma and COPD in a cohort of patients at the follow up after COVID-19 pneumonia, *Pulmonology* 2022, <https://doi.org/10.1016/j.pulmoe.2022.05.005>
11. Caputo F, Gelsomino F, Spallanzani A, Pettorelli E, Benatti S, Ghidini M, Grizzi G, Ratti M, Merz V, Messina C, Tonelli R, Luppi G, Melisi D, Dominici M, Salati M. Multicentre match-paired analysis of advanced biliary cancer long-term survivors: the BILONG study. *Clin Res Hepatol Gastroenterol*. 2022 May 21:101955. doi: 10.1016/j.clinre.2022.101955. Epub ahead of print. PMID: 35609824.
12. Gatto I, Biagioni E, Coloretti I, Farinelli C, Avoni C, Caciagli V, Busani S, Sarti M, Pecorari M, Gennari W, Guaraldi G, Franceschini E, Meschiari M, Mussini C, Tonelli R, Clini E, Cossarizza A, Girardis M; Modena COVID-19 Working Group. Cytomegalovirus blood reactivation in COVID-19 critically ill patients: risk factors and impact on mortality. *Intensive Care Med*. 2022 May 18:1–8. doi: 10.1007/s00134-022-06716-y. Epub ahead of print. PMID: 35583676; PMCID: PMC9116062.
13. 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 P, Nava S, Bignami E, Ranieri MV, MD, Girardis M, Association between respiratory distress time and invasive mechanical ventilation in COVID-19 patients: a multicentre regional cohort study., *Pulmonology* (2022), doi: <https://doi.org/10.1016/j.pulmoe.2022.03.004>
14. Alfano G, Morisi N, Frisina M, Ferrari A, Fontana F, Tonelli R, Franceschini E, Meschiari M, Donati G, Guaraldi G. Awaiting a cure for COVID-19: therapeutic approach in patients with different severity levels of COVID-19. *Infez Med.* 2022 Mar 1;30(1):11-21. doi: 10.53854/liim-3001-2. PMID: 35350263; PMCID: PMC8929729.
 15. Tonelli R, Bruzzi G, Manicardi L, Tabbì L, Fantini R, Castaniere I, Andrisani D, Gozzi F, Pellegrino MR, Trentacosti F, Dall'Ara L, Busani S, Franceschini E, Baroncini S, Manco G, Meschiari M, Mussini C, Girardis M, Beghè B, Marchioni A and Clini E (2022) Risk Factors for Pulmonary Air Leak and Clinical Prognosis in Patients With COVID-19 Related Acute Respiratory Failure: A Retrospective Matched Control Study. *Front. Med.* 9:848639. doi: 10.3389/fmed.2022.848639
 16. Tonelli R, Cortegiani A, Marchioni A. et al. Nasal pressure swings as the measure of inspiratory effort in spontaneously breathing patients with de novo acute respiratory failure. *Crit Care* 26, 70 (2022). <https://doi.org/10.1186/s13054-022-03938-w>
 17. Pelosi P, Tonelli R, Torregiani C, Baratella E, Confalonieri M, Battaglini D, Marchioni A, Confalonieri P, Clini E, Salton F, Pelosi P, Ruaro B. Different Methods to Improve the Monitoring of Noninvasive Respiratory Support of Patients with Severe Pneumonia/ARDS Due to COVID-19: An Update. *J. Clin. Med.* 2022, 11, 1704. <https://doi.org/10.3390/jcm11061704>
 18. Mattioli F, Martone A, Andreani A, Cappiello G, Tonelli R, Clini E, Marchioni A, Extensive Tracheal Injuries: A Reasoned Multistep Approach to Guarantee Mechanical Ventilatory Support Developed During the COVID-19 Pandemic, *OTO Open* 2022, 6(1) 1–3.
 19. Costi S, Brogneri A, Bagni C, Pennacchi G, Beneventi C, Tabbì L, Dell'Orso D, Fantini R, Tonelli R, Beghi GM et al. Rehabilitation of Difficult-to-Wean, Tracheostomized Patients Admitted to Specialized Unit: Retrospective Analyses over 10-Years. *Int. J. Environ. Res Public Health* 2022, 19, 2982. <https://doi.org/10.3390/ijerph19052982>.
 20. Donatelli, P., Trentacosti, F., Pellegrino, M.R. et al. Correction: Endobronchial valve positioning for alveolar-pleural fistula following ICU management complicating COVID-19 pneumonia. *BMC Pulm Med* 22, 50 (2022). <https://doi.org/10.1186/s12890-022-01845-y>
 21. Marchioni A, Mattioli F, Tonelli R, Andreani A, Cappiello GF, Serafini E, Stefani A, Marchioni D, Clini E, Endoscopic Bronchopleural Fistula Repair Using Autologous Fat Graft. *The Annals of Thoracic Surgery*, 2022 <https://doi.org/10.1016/j.athoracsur.2022.02.014>.
 22. Marchioni A, Tonelli R, Andreani A, Cappiello GF, Fermi M, Trentacosti F, Castaniere I, Fantini R, Tabbì L, Andrisani D, et al. Molecular Mechanisms and Physiological Changes behind Benign Tracheal and Subglottic Stenosis in Adults. *Int. J. Mol. Sci.* 2022, 23, 2421. <https://doi.org/10.3390/ijms 23052421>
 23. Marchioni A, Andrisani D, Tonelli R, et al. Stenting versus balloon dilatation in patients with tracheal benign stenosis: The STROBE trial. *Laryngoscope Investigative Otolaryngology.* 2022;1-9. doi:10.1002/lio2.734
 24. Meschiari M, Cozzi-Lepri A, Tonelli R, et al. First and second waves among hospitalised patients with COVID-19 with severe pneumonia: a comparison of 28-day mortality over the 1-year pandemic in a tertiary university hospital in Italy. *BMJ Open* 2022;12:e054069. doi:10.1136/bmjopen-2021-054069.
 25. Samarelli AV, Masciale V, Aramini B, Coló GP, Tonelli R, Marchioni A, Bruzzi G, Gozzi F, Andrisani D, Castaniere I, Manicardi L, Moretti A, Tabbì L, Guaitoli G, Cerri S, Dominici M,

- Clini E. Molecular Mechanisms and Cellular Contribution from Lung Fibrosis to Lung Cancer Development. *Int J Mol Sci.* 2021 Nov 10;22(22):12179. doi: 10.3390/ijms222212179. PMID: 34830058; PMCID: PMC8624248.
26. Donatelli P, Trenatacosti F, Pellegrino MR, Tonelli R, Bruzzi G, Andreani A, Cappiello GF, Andrisani D, Gozzi F, Mussini C, Busani S, Cavaliere GV, Girardis M, Bertellini E, Clini E, Marchioni A. Endobronchial valve positioning for alveolar-pleural fistula following ICU management complicating COVID-19 pneumonia. *BMC Pulm Med.* 2021 Sep 27;21(1):307. doi: 10.1186/s12890-021-01653-w. PMID: 34579700.
 27. Franceschini E, Cozzi-Lepri A, Santoro A, Bacca E, Lancellotti G, Menozzi M, Gennari W, Meschiari M, Bedini A, Orlando G, Puzzolante C, Digaetano M, Milic J, Codeluppi M, Pecorari M, Carli F, Cuomo G, Alfano G, Corradi L, Tonelli R, De Maria N, Busani S, Biagioni E, Coloretti I, Guaraldi G, Sarti M, Luppi M, Clini E, Girardis M, Gysens IC, Mussini C. Herpes Simplex Virus Re-Activation in Patients with SARS-CoV-2 Pneumonia: A Prospective, Observational Study. *Microorganisms.* 2021; 9(9):1896. <https://doi.org/10.3390/microorganisms9091896>
 28. Faverio P, Stainer A, Conti S, Madotto F, De Giacomo F, Della Zoppa M, Vancheri A, Pellegrino MR, Tonelli R, Cerri S, Clini EM, Mantovani LG, Pesci A, Luppi F. Differences between Acute Exacerbations of Idiopathic Pulmonary Fibrosis and Other Interstitial Lung Diseases. *Diagnostics.* 2021; 11(9):1623. <https://doi.org/10.3390/diagnostics11091623>
 29. Samarelli AV, Tonelli R, Marchioni A, Bruzzi G, Gozzi F, Andrisani D, Castaniere I, Manicardi L, Moretti A, Tabbì L, Cerri S, Beghè B, Dominici M, Clini E. Fibrotic Idiopathic Interstitial Lung Disease: The Molecular and Cellular Key Players. *Int J Mol Sci.* 2021 Aug 19;22(16):8952. doi: 10.3390/ijms22168952. PMID: 34445658; PMCID: PMC8396471.
 30. Costi S, Tonelli R, Brogneri A, Florini F, Tilocca N, Vicentini M, Baroncini S, Cerulli M, Clini E. Changes of Clinical Characteristics and Outcomes in Patients Admitted to Inpatient Cardiac Rehabilitation. *Int. J. Environ. Res. Public Health* 2021, 18, 8871. <https://doi.org/10.3390/ijerph18168871>.
 31. Alfano G, Fontana F, Mori G, Giaroni F, Ferrari A, Giovanella S, Ligabue G, Ascione E, Cazzato S, Ballestri M, Di Gaetano M, Meschiari M, Menozzi M, Milic J, Andrea B, Franceschini E, Cuomo G, Magistrone R, Mussini C, Cappelli G, Guaraldi G; Modena Covid-19 Working Group (MoCo19). Acid base disorders in patients with COVID-19. *Int Urol Nephrol.* 2021 Jun 11:1–6. doi: 10.1007/s11255-021-02855-1. Epub ahead of print. PMID: 34115260; PMCID: PMC8193956.
 32. Alfano G, Fontana F, Morisi N, Giaroni F, Mori G, Guaraldi G, Magistrone R, Cappelli G; Modena Covid-19 Working Group (MoCo19). One-year persistence of neutralizing anti-SARS-CoV-2 antibodies in dialysis patients recovered from COVID-19. *Hemodial Int.* 2021 Jul 6. doi: 10.1111/hdi.12963. Epub ahead of print. PMID: 34231319.
 33. Tonelli R, Busani S, Tabbì L, Fantini R, Castaniere I, Biagioni E, Mussini C, Girardis M, Clini E, Marchioni A. Inspiratory Effort and Lung Mechanics in Spontaneously Breathing Patients with Acute Respiratory Failure Due to COVID-19: A Matched Control Study. *Am J Respir Crit Care Med.* 2021 Jul 2. doi: 10.1164/rccm.202104-1029LE. Epub ahead of print. PMID: 34214009.
 34. Samarelli AV*, Tonelli R*, Heijink I, Martin-Medina A, Marchioni A, Bruzzi G, Castaniere I, Andrisani D, Gozzi F, Manicardi L, Moretti A, Cerri S, Fantini R, Tabbì L, Nani C, Mastrolia I, Weiss DJ, Dominici M†, Clin E†. Dissecting the Role of Mesenchymal Stem Cells in Idiopathic Pulmonary Fibrosis: Cause or Solution. *Front Pharmacol.* July 2021. <https://doi.org/10.3389/fphar.2021.692551>

35. Marchioni A*, Tonelli R*, Cerri S, Castaniere I, Andrisani D, Gozzi F, Bruzzi G, Manicardi L, Moretti A, Demurtas J, Baroncini S, Andreani A, Cappiello GF, Busani S, Fantini R, Tabbì L, Samarelli AV, Clini E. Pulmonary Stretch and Lung Mechanotransduction: Implications for Progression in the Fibrotic Lung. *Int J Mol Sci.* 2021 Jun 16;22(12):6443. doi: 10.3390/ijms22126443. PMID: 34208586; PMCID: PMC8234308.
36. Tonelli R, Pisani L, Tabbì L, Comellini V, Prediletto I, Fantini R, Marchioni A, Andrisani D, Gozzi F, Bruzzi G, Manicardi L, Busani S, Mussini C, Castaniere I, Bassi I, Carpano M, Tagariello F, Corsi G, d'Amico R, Girardis M, Nava S, Clini E. Early awake prone in critical and severe COVID-19 patients undergoing noninvasive respiratory support: A retrospective multicenter cohort study. *Pulmonology.* 2021 Mar 22:S2531-0437(21)00077-5. doi: 10.1016/j.pulmoe.2021.03.002. Epub ahead of print. PMID: 33824084; PMCID: PMC7983422.
37. Bosi A, Tonelli R, Castaniere I, Clini E, Beghè B. Acute severe asthma: management and treatment. *Minerva Med.* 2021 Feb 26. doi: 10.23736/S0026-4806.21.07372-9. Epub ahead of print. PMID: 33634676.
38. Demurtas J, Tonelli R, Celotto S, Veronese N, Lagolio E, Rossi F, Clini E, Righi E, Meer A. COVID-Guide: an app for covid-19 triage and self-assessment. *Recenti progressi in medicina* 2021, 112(5), 387-391.
39. Coloretti I, Busani S, Biagioni E, Venturelli S, Munari E, Sita M, DallAra L, Tosi M, Clini E, Tonelli R, Fantini R, Mussini C, Meschiari M, Guaraldi G, Cossarizza A, Alfano G, Girardis M. Effects of cytokine blocking agents on hospital mortality in patients admitted to ICU with acute respiratory distress syndrome by SARS-CoV-2 infection: retrospective cohort study. *Multidiscip Respir Med.* 2021 May 17;16(1):737. doi: 10.4081/mrm.2021.737. PMID: 34040779; PMCID: PMC8139121.
40. Alfano G, Fontana F, Ferrari A, Guaraldi G, Mussini C, Magistrone R, Cappelli G; Modena Covid-19 Working Group (MoCo19). Peritoneal dialysis in the time of coronavirus disease 2019. *Clin Kidney J.* 2020 Jul 16;13(3):265-268. doi: 10.1093/ckj/sfaa093. PMID: 32699612; PMCID: PMC7367121.
41. Tonelli R, Marchioni A, Tabbì L, Fantini R, Busani S, Castaniere I, Andrisani D, Gozzi F, Bruzzi G, Manicardi L, Demurtas J, Andreani A, Cappiello GF, Samarelli AV, Clini E. Spontaneous Breathing and Evolving Phenotypes of Lung Damage in Patients with COVID-19: Review of Current Evidence and Forecast of a New Scenario. *Journal of Clinical Medicine.* 2021; 10(5):975. <https://doi.org/10.3390/jcm10050975>
42. Mussini C, Cozzi-Lepri A, Menozzi M, Meschiari M, Franceschini E, Milic J, Brugioni L, Pietrangelo A, Girardis M, Cossarizza A, Tonelli R, Clini E, Massari M, Bartoletti M, Ferrari A, Cattelan AM, Zuccalà P, Lichtner M, Rossotti R, Girardi E, Nicastrì E, Puoti M, Antinori A, Viale P, Guaraldi G. Development and validation of a prediction model for tocilizumab failure in hospitalized patients with SARS-CoV-2 infection. *PLoS One.* 2021 Feb 23;16(2):e0247275. doi: 10.1371/journal.pone.0247275. PMID: 33621264.
43. Mussini C, Cozzi-Lepri A, Menozzi M, Meschiari M, Franceschini E, Rogati C, Cuomo G, Bedini A, Iadisernia V, Volpi S, Milic J, Tonelli R, Brugioni L, Pietrangelo A, Girardis M, Cossarizza A, Clini E, Guaraldi G; Modena Covid-19 Working Group (MoCo19); Office of information and communication technologies of Policlinico di Modena. Better prognosis in

- females with severe COVID-19 pneumonia: possible role of inflammation as potential mediator. *Clin Microbiol Infect.* 2020 Dec 21:S1198-743X(20)30765-5. doi: 10.1016/j.cmi.2020.12.010. Epub ahead of print. PMID: 33359539.
44. Cortegiani A, Longhini F, Madotto F, Groff P, Scala R, Crimi C, Carlucci A, Bruni A, Garofalo E, Raineri SM, Tonelli R, Comellini V, Lupia E, Vetrugno L, Clini E, Giarratano A, Nava S, Navalesi P, Gregoretto C; H. F.-AECOPD study investigators. High flow nasal therapy versus noninvasive ventilation as initial ventilatory strategy in COPD exacerbation: a multicenter non-inferiority randomized trial. *Crit Care.* 2020 Dec 14;24(1):692. doi: 10.1186/s13054-020-03409-0. PMID: 33317579; PMCID: PMC7734463.
 45. Alfano G, Ferrari A, Fontana F, Perrone R, Mori G, Ascione E, Magistrone R, Venturi G, Pederzoli S, Margiotta G, Romeo M, Piccinini F, Franceschi G, Volpi S, Faltoni M, Ciusa G, Bacca E, Tutone M, Raimondi A, Menozzi M, Franceschini E, Cuomo G, Orlando G, Santoro A, Di Gaetano M, Puzzolante C, Carli F, Bedini A, Milic J, Meschiari M, Mussini C, Cappelli G, Guaraldi G; Modena Covid-19 Working Group (MoCo19). Hypokalemia in Patients with COVID-19. *Clin Exp Nephrol.* 2021 Jan 4:1–9. doi: 10.1007/s10157-020-01996-4. Epub ahead of print. PMID: 33398605; PMCID: PMC7781399.
 46. Celotto S, Veronese N, Barbagallo M, Ometto F, Smith L, Pardhan S, Barnett Y, Ilie PC, Soysal P, Lagolio E, Kurotschka PK, Tonelli R, Demurtas J. An umbrella review of systematic reviews with meta-analyses evaluating positive and negative outcomes of hydroxychloroquine and chloroquine therapy. *Int J Infect Dis.* 2020 Dec 11:S1201-9712(20)32541-8. doi: 10.1016/j.ijid.2020.12.018. Epub ahead of print. PMID: 33316389.
 47. Ferrari D, Milic J, Tonelli R, Ghinelli F, Meschiari M, Volpi S, Faltoni M, Franceschi G, Iadiserchia V, Yaacoub D, Ciusa G, Bacca E, Rogati C, Tutone M, Burastero G, Raimondi A, Menozzi M, Franceschini E, Cuomo G, Corradi L, Orlando G, Santoro A, Digaetano M, Puzzolante C, Carli F, Borghi V, Bedini A, Fantini R, Tabbì L, Castaniere I, Busani S, Clini E, Girardis M, Sarti M, Cossarizza A, Mussini C, Mandreoli F, Missier P, Guaraldi G. Machine learning in predicting respiratory failure in patients with COVID-19 pneumonia-Challenges, strengths, and opportunities in a global health emergency. *PLoS One.* 2020 Nov 12;15(11):e0239172. doi: 10.1371/journal.pone.0239172. PMID: 33180787; PMCID: PMC7660476.
 48. Piro R, Tonelli R, Cavazza A, Taddei S, Clini E, Facciolongo N. Echoendoscopic appearance of mediastinal metastasis from papillary renal carcinoma. *Thorac Cancer.* 2020 Dec;11(12):3631-3633. doi: 10.1111/1759-7714.13704. Epub 2020 Oct 20. PMID: 33078535; PMCID: PMC7705613.
 49. Manfredi A, Sebastiani M, Cerri S, Vacchi C, Tonelli R, Della Casa G, Cassone G, Spinella A, Pancaldi F, Luppi F, Salvarani C. Erratum to acute exacerbation of interstitial lung diseases secondary to systemic rheumatic diseases: a prospective study and review of the literature. *J Thorac Dis.* 2020 Oct;12(10):6411. doi: 10.21037/jtd-2020-64. Erratum for: *J Thorac Dis.* 2019 Apr;11(4):1621-1628. PMID: 33209478; PMCID: PMC7656429.
 50. Busani S, Dall'Ara L, Tonelli R, Clini E, Munari E, Venturelli S, Meschiari M, Guaraldi G, Cossarizza A, Ranieri VM, Girardis M. Surfactant replacement might help recovery of low-compliance lung in severe COVID-19 pneumonia. *Ther Adv Respir Dis.* 2020 Jan-

Dec;14:1753466620951043. doi: 10.1177/1753466620951043. PMID: 32865137; PMCID: PMC7466887.

51. Busani S, Bedini A, Biagioni E, Serio L, Tonelli R, Meschiari M, Franceschini E, Guaraldi G, Cossarizza A, Clini E, Maiorana A, Gennari W, De Maria N, Luppi M, Mussini C, Girardis M; Modena Covid-19 Working Group (MoCo19). Two fatal cases of acute liver failure due to HSV-1 infection in COVID-19 patients following immunomodulatory therapies. *Clin Infect Dis*. 2020 Aug 25:ciaa1246. doi: 10.1093/cid/ciaa1246. Epub ahead of print. PMID: 32840571; PMCID: PMC7499514.
52. Tonelli R, Castaniere I, Fantini R, Tabbì L, Busani S, Pisani L, Nava S, Clini E, Marchioni A. Reply to: Spinelli E, et al and Jha. *Am J Respir Crit Care Med*. 2020 Sep 18. doi: 10.1164/rccm.202008-3049LE. Epub ahead of print. PMID: 32945694.
53. Vacchi C, Meschiari M, Milic J, Marietta M, Tonelli R, Alfano G, Volpi S, Faltoni M, Franceschi G, Ciusa G, Bacca E, Tutone M, Raimondi A, Menozzi M, Franceschini E, Cuomo G, Orlando G, Santoro A, Di Gaetano M, Puzzolante C, Carli F, Bedini A, Cossarizza A, Castaniere I, Ligabue G, De Ruvo N, Manco G, Rolando G, Gelmini R, Maiorana A, Girardis M, Mascia MT, Mussini C, Salvarani C, Guaraldi G. COVID-19-associated vasculitis and thrombotic complications: from pathological findings to multidisciplinary discussion. *Rheumatology (Oxford)*. 2020 Sep 24:keaa581. doi: 10.1093/rheumatology/keaa581. Epub ahead of print. PMID: 32968761.
54. Franco C, Facciolo N, Tonelli R, Dongilli R, Vianello A, Pisani L, Clini E, Nava S. Feasibility and clinical impact of out-of-ICU non-invasive respiratory support in patients with COVID-19 related pneumonia. *European Respiratory Journal*. 2020
55. Marchioni A, Andrisani D, Tonelli R, Piro R, Andreani A, Cappiello GF & Clini E (2020). Integrated interventional bronchoscopy in the treatment of locally advanced non-small lung cancer with central malignant airway obstructions: a multicentric retrospective study (EVERMORE). *Lung Cancer*.
56. De Biasi, S., Meschiari, M., Gibellini, L. et al. Marked T cell activation, senescence, exhaustion and skewing towards TH17 in patients with COVID-19 pneumonia. *Nat Commun* 11, 3434 (2020). <https://doi.org/10.1038/s41467-020-17292-4>.
57. Guaraldi G, Meschiari M, Cozzi-Lepri A, Milic J, Tonelli R et al. Tocilizumab in patients with severe COVID-19: a retrospective cohort study. *Lancet Rheumatol* 2020, Published Online June 24, 2020 [https://doi.org/10.1016/S2665-9913\(20\)30173-9](https://doi.org/10.1016/S2665-9913(20)30173-9)
58. Tonelli R, Tabbì L, Fantini R, et al. Reply to Tuffet, et al. and Michard, et al [published online ahead of print, 2020 Jun 3]. *Am J Respir Crit Care Med*. 2020;10.1164/rccm.202005-1730LE. doi:10.1164/rccm.202005-1730LE.
59. Cocconcelli E, Tonelli R, Abbati G et al. Subclinical liver fibrosis in patients with idiopathic pulmonary fibrosis. *Intern Emerg Med* (2020). <https://doi.org/10.1007/s11739-020-02376-2>.
60. Tonelli R, Fantini R, Tabbì L, Castaniere I, Pisani L, Pellegrino MR, Della Casa G, D'Amico R, Girardis M, Nava S, Clini E, Marchioni A. Early Inspiratory Effort Assessment by Esophageal Manometry Predicts Noninvasive Ventilation Outcome in de novo Respiratory Failure: A Pilot Study. *Am J Respir Crit Care Med*. 2020 Apr 23. doi: 10.1164/rccm.201912-2512OC.

61. Nava S, Tonelli R, Clini E. An Italian sacrifice to COVID-19 epidemic. *Eur Respir J* 2020; in press (<https://doi.org/10.1183/13993003.01445-2020>).
62. Tonelli R, Iattoni A, De Pietri L, Girardis M, Clini E, Mussini C. Never Give Up: Lesson learned from a severe COVID-19 patient. *Pulmonol.* 2020. <https://doi.org/10.1016/j.pulmoe.2020.04.012>.
63. Veronese N, Demurtas J, Yang L, Tonelli R, Barbagallo M, Lopalco P, Lagolio E, Celotto S, Pizzol D, Zou L, Tully MA, Ilie PC, Trott M, López-Sánchez GF and Smith L (2020) Use of Corticosteroids in Coronavirus Disease 2019 Pneumonia: A Systematic Review of the Literature. *Front. Med.* 7:170. doi: 10.3389/fmed.2020.00170.
64. Marchioni A, Tonelli R, Rossi G, et al. Ventilatory support and mechanical properties of the fibrotic lung acting as a "squishy ball". *Ann Intensive Care.* 2020 Feb 4;10(1):13. doi: 10.1186/s13613-020-0632-6. PMID: 32020548; PMCID: PMC7000609.
65. Fontana M, Cerri S, Bernardelli G, Brugioni L, Clini E, Tonelli R. Unusual effectiveness of systemic steroids in Whipple disease, *Pulmonology*, 2020, doi.org/10.1016/j.pulmoe.2020.02.007.
66. Marchioni A, Tonelli R, Fantini R, Tabbì L, Castaniere I, Livrieri F, Bedogni S, Ruggieri V, Pisani L, Nava S, Clini E. Respiratory Mechanics and Diaphragmatic Dysfunction in COPD Patients Who Failed Non-Invasive Mechanical Ventilation. *Int J Chron Obstruct Pulmon Dis.* 2019 Nov 22;14:2575-2585. doi: 10.2147/COPD.S219125.
67. Marchioni A, Tonelli R, Sdanganelli A, Gozzi F, Musarò L, Fantini R, Tabbì L, Andreani A, Cappiello G, Costi S, Castaniere I, Clini E. Prevalence and development of chronic critical illness in acute patients admitted to a respiratory intensive care setting, *Pulmonology*. 2020 May-Jun;26(3):151-158. doi: 10.1016/j.pulmoe.2019.09.006. Epub 2019 Oct 28. PMID: 31672594.
68. Cerri S, Monari M, Guerrieri A, Donatelli P, Bassi I, Garuti M, Luppi F, Betti S, Bandelli G, Carpano M, Bacchi Reggiani ML, Tonelli R, Clini E and Nava S. Real-life comparison of pirfenidone and nintedanib in patients with idiopathic pulmonary fibrosis: A 24-month assessment. *Respir Med.* 2019 Nov;159:105803. doi: 10.1016/j.rmed.2019.105803. Epub 2019 Oct 18. PMID: 31670147.
69. Piro R, Tonelli R, Taddei S, Marchioni A, Musci G, Clini E, Facciolongo N. Atypical diagnosis for typical lung carcinoid. *BMC Pulm Med.* 2019 Sep 2;19(1):168. doi: 10.1186/s12890-019-0929-0.
70. Fantini R, Tonelli R, Castaniere I, Tabbì L, Pellegrino MR, Cerri S, Livrieri F, Giaroni F, Monelli M, Ruggieri V, Fini N, Mandrioli J, Clini E and Marchioni A. Serial ultrasound assessment of diaphragmatic function and clinical outcome in patients with amyotrophic lateral sclerosis. *BMC Pulmonary Medicine*, 2019; 19:160 <https://doi.org/10.1186/s12890-019-0924-5>
71. Cerri S, Tonelli R, Faverio P, Sverzellati N, Clini E, Luppi F. Janus-faced amiodarone-induced pneumopathy. *Pulmonol.* 2019. DOI: [10.1016/j.pulmoe.2019.07.003](https://doi.org/10.1016/j.pulmoe.2019.07.003).
72. Manfredi A, Sebastiani S, Cerri S, Vacchi C, Tonelli R, Della Casa G, Cassone G, Amelia Spinella A, Pancaldi F, Luppi F, Salvarani C. Acute exacerbation of interstitial lung diseases secondary to systemic rheumatic diseases: a prospective study and review of the literature. *J of Thor Disease* 2019. doi: 10.21037/jtd.2019.03.28.

73. Roversi S, Boschetto P, Beghè B, Schito M, Garofalo M; Stendardo M, Ruggieri V, Tonelli R, Fucili A, D'Amico R, Banchelli Fabbri L, Clini EM. Breathlessness, but not cough, suggests chronic obstructive pulmonary disease in elderly smokers with stable heart failure. *Multidisc Res Med* 2018 Oct; 1;13:35. DOI: [10.1186/s40248-018-0148-1](https://doi.org/10.1186/s40248-018-0148-1).
74. Roversi S, Tonelli R, Beghè B, Banchelli F, D'Amico R, Malerba M, Fabbri L, Clini EM. Use of adjunct cardiovascular therapy in patients hospitalised for acute exacerbations of COPD. *ERJ Open Res* 2018 Jul; 4(3): 00087-2018. DOI: [10.1183/23120541.00087-2018](https://doi.org/10.1183/23120541.00087-2018).
75. Fontana M, Tonelli R, Gozzi F, Castaniere I, Marchioni A, Fantini R, Coppi F, Natali F, Rovatti E, Clini EM, An uncommon cause of hemoptysis: aortobronchial fistula. *Multidisc Res Med* 2018; 13:25. DOI: [10.1186/s40248-018-0146-3](https://doi.org/10.1186/s40248-018-0146-3).
76. Castaniere I, Tonelli R, Fantini R, Marchioni A, Garofalo M, Clini EM, Cerri S. The encaged lung: rapidly progressive idiopathic pleurisy. *Oxford Medical Case Reports* 2018(8) Aug; 240–242. DOI: [10.1093/omcr/omy041](https://doi.org/10.1093/omcr/omy041).
77. Castaniere I, Tonelli R, Taddei S, Taschini S, Fantini R, Marchioni A, Covi M, Clini EM. Vanishing lung emphysema during chemotherapy for malignant pleural mesothelioma. *Chest Disease Reports* 2018 6:7307.
78. Marchioni A, Castaniere I, Tonelli R, Fantini R, Fontana M, Tabbì L, Viani A, Giaroni F, Ruggieri V, Cerri S, Clini E. Ultrasound assessed Diaphragm Impairment is a Predictor of Outcomes in Acute Exacerbation of Chronic Obstructive Pulmonary Disease undergoing Non-Invasive Ventilation. *Critical Care*. 2018 Apr; 27;22(1):10. DOI: [10.1186/s13054-018-2033-x](https://doi.org/10.1186/s13054-018-2033-x).
79. Marchioni A, Casalini E, Andreani A, Cappiello G, Castaniere I, Fantini R, Mengoli CM, Tonelli R, Clini EM, Rossi G. Incidence, Etiology, and Clinicopathologic Features of Endobronchial Benign Lesions: A 10-Year Consecutive Retrospective Study. *J Bronchology Interv Pulmonol*, 2018 Apr; 25(2):118-124. DOI: [10.1097/LBR.0000000000000460](https://doi.org/10.1097/LBR.0000000000000460).
80. Marchioni A, Tonelli R, Ball R, Fantini R, Castaniere I, Cerri S, Luppi F, Malerba M, Pelosi P, Clini E. Acute exacerbation of idiopathic pulmonary fibrosis: lessons learned from acute respiratory distress syndrome? 2018 Mar; 23;22(1):80. DOI: [10.1186/s13054-018-2002-4](https://doi.org/10.1186/s13054-018-2002-4).
81. Clini E, Castaniere I, Tonelli R. Looking for a chronic care model in COPD patients. *Eur Respir J* 2018; Jan 4; 51(1): 1702087. DOI: [10.1183/13993003.02087-2017](https://doi.org/10.1183/13993003.02087-2017).
82. Tonelli R, Coconcelli E, Lanini B, Romagnoli I, Florini F, Castaniere I, Andrisani D, Cerri S, Luppi F, Fantini R, Marchioni A, Beghè B, Gigliotti F, Clini EM, Effectiveness of pulmonary rehabilitation in patients with interstitial lung disease of different etiology: a multicenter prospective study. *BMC Pulmonary Medicine* 2017 Oct 10; 17(1):130. DOI: [10.1186/s12890-017-0476-5](https://doi.org/10.1186/s12890-017-0476-5).
83. Fabbri L, Tonelli R, Andreani A, Castaniere I, Fantini R, Marchioni A, Clini EM. Un uncommon cause of pneumonia: The golden diagnosis. *Respiratory Medicine Case Reports* 2017; 22:51-52. DOI: [10.1016/j.rmcr.2017.06.010](https://doi.org/10.1016/j.rmcr.2017.06.010).
84. Morisset J, Vittinghoff E, Lee B, Tonelli R, Hu X, Elicker BM, Ryu H, Jones KD, Cerri S, Manfredi A, Sebastiani M, Gross AJ, Wolters PJ, King TE, Kim DS, Collard HR, Lee JS, The performance of the GAP model in patients with rheumatoid arthritis associated interstitial lung disease. *Respiratory Medicine*. 2017 Jun; 127:51-56. DOI:

[10.1016/j.rmed.2017.04.012](https://doi.org/10.1016/j.rmed.2017.04.012).

85. Marchioni A, Tonelli R, Antenora F, Fantini R, Clini EM. COPD exacerbation and diaphragmatic dysfunction: Conditions with mutual influence influencing outcomes? - Reply. *Respirology* 2017 May; 22(4):830-831. DOI: [10.1111/resp.13018](https://doi.org/10.1111/resp.13018).
86. Tonelli R, Andreani A, Castaniere I, Fantini R, Mengoli C, Rossi G, Marchioni A. When Acute Respiratory Distress Syndrome is not ARDS. *Lung*. 2016 Oct; 194(5):865-6. DOI: [10.1007/s00408-016-9917-9](https://doi.org/10.1007/s00408-016-9917-9).
87. Antenora F, Fantini R, Iattoni A, Castaniere I, Sdanganelli A, Livrieri F, Tonelli R, Zona S, Monelli M, Clini EM, Marchioni A. Prevalence and outcomes of diaphragmatic dysfunction assessed by ultrasound technology during acute exacerbation of COPD: A pilot study. *Respirology* 2016 Feb; 22(2):338-344. (IF: 4.4. PMID: 27743430. DOI: [10.1111/resp.12916](https://doi.org/10.1111/resp.12916)).
88. Fantini R, Mandrioli J, Zona S, Antenora F, Iattoni A, Monelli M, Fini N, Tonelli R, Clini E, Marchioni A. Ultrasound assessment of diaphragmatic function in patients with amyotrophic lateral sclerosis. *Respirology*. 2016 Jul; 21(5):932-8. (IF: 4.4 PMID: 26994409. DOI: [10.1111/resp.12759](https://doi.org/10.1111/resp.12759)).
89. Sgalla G, Cocconcelli E, Tonelli R, Richeldi L. Novel drug targets for idiopathic pulmonary fibrosis. *Expert Rev Respir Med*. 2016 Feb; 26:1-13. DOI: [10.1586/17476348.2016.1152186](https://doi.org/10.1586/17476348.2016.1152186).
90. Roversi S, Tonelli R, Fabbri LM. Breakthroughs in internal and respiratory medicine. *Lancet Respir Med*. 2015 Aug; 3(8):600-2. DOI: [10.1016/S2213-2600\(15\)00251-9](https://doi.org/10.1016/S2213-2600(15)00251-9).
91. Tonelli R, Clini EM. Impaired function in the complex patient with COPD: a matter to be considered. *Rev Port Pneumol* 2015 Sep-Oct; 21(5):227-9. DOI: [10.1016/j.rppnen.2015.08.001](https://doi.org/10.1016/j.rppnen.2015.08.001).
92. Assayag D, Vittinghoff E, Ryerson CJ, Cocconcelli E, Tonelli R, Hu X, Elicker BM, Golden JA, Jones KD, King TE Jr, Koth LL, Lee JS, Ley B, Shum AK, Wolters PJ, Ryu JH, Collard HR. The effect of bronchodilators on forced vital capacity measurement in patients with idiopathic pulmonary fibrosis. *Respiratory Medicine*. 2015 Aug; 109(8):1058-62. DOI: [10.1016/j.rmed.2015.06.012](https://doi.org/10.1016/j.rmed.2015.06.012).
93. Spagnolo P, Tonelli R, Cocconcelli E, Stefani A, Richeldi L. Idiopathic pulmonary fibrosis: diagnostic pitfalls and therapeutic challenges. *Multidiscip Respir Med*. 2012 Nov 12; 7(1):42. DOI: [10.1186/2049-6958-7-42](https://doi.org/10.1186/2049-6958-7-42).
94. Sgalla G, Cerri S, Tonelli R, Cocconcelli E, Garuti M, Ori M, Richeldi L, Use of Pirfenidone in Idiopathic Pulmonary Fibrosis: A Case Study. *Int J Clin Rev* 2012; 08:07.

SELEZIONE DI ABSTRACTS SCIENTIFICI PUBBLICATI

1. Tonelli R, Ball L, Cortegiani A, Marchioni A, Fantini R, Luca T, Castaniere I, Manicardi L, Bruzzi G, Andrisani A, Gozzi F, Busani S, Girardis M, Gregoretto C, Pelosi P, Clini E. Nasal Pressure Swings As The Measure Of Inspiratory Effort In Spontaneously Breathing Patients With De Novo Acute Respiratory Failure. *Am J Respir Crit Care Med* 2022.
2. Andrisani D, Tonelli R, Marchioni A, Andreani A, G Cappiello, Ori M, Gozzi F, Bruzzi G, Nani C, Manicardi L, Mattioli F, Fermi M, Fantini R, Tabbì L, Castaniere I, Presutti L, Clini E. Stenting versus balloon dilatation in patients with tracheal benign stenosis – the STROBE

- trial. *European Respiratory Journal* 2021 58: OA237; DOI: 10.1183/13993003.congress-2021.OA237.
3. Gozzi F, Tonelli R, Andrisani A, Castaniere I, Donatelli P, Trentacosti F, Pellegrino MR, Bruzzi G, Manicardi L, Moretti A, Nani C, Cerbone C, Vermi M, Andreani A, Cappiello G, Clini E, Marchioni A. Endobronchial valve positioning for alveolar-pleural fistula complicating severe COVID-19 pneumonia. *European Respiratory Journal* 2021 58: PA842; DOI: 10.1183/13993003.congress-2021.PA842.
 4. Castaniere I, Tonelli R, Tabbì L, Pisani L, Prediletto I, Comellini V, Fantini R, Marchioni A, Andrisani D, Gozzi F, Bruzzi G, Manicardi L, Bassi I, Carpano M, Tagariello F, Corsi G, Nava S, Clini E. Awake prone position in critical and severe COVID-19 patients undergoing noninvasive respiratory support: a retrospective multicenter cohort study. *European Respiratory Journal* 2021 58: PA1094; DOI: 10.1183/13993003.congress-2021.PA1094.
 5. Tonelli R, Castaniere I, Marchioni A, Tabbì L, Fantini R, Andrisani A, Gozzi F, Bruzzi G, Manicardi L, Moretti A, Cerbone C, Vermi M, Biagioni E, Busani S, Girardis M, Clini E. Late Breaking Abstract - Inspiratory Effort And Respiratory Mechanics In Spontaneously Breathing Covid-19 Patients On Hospital Admission. *European Respiratory Journal* 2021 58: OA1632; DOI: 10.1183/13993003.congress-2021.OA1632
 6. Tabbì L, Tonelli R, Castaniere I, Fantini R, Sorgentone S, Paonessa MC, Sacchi M, Spacone A, Dongilli R, Boni E, Falsini L, Ribuffo V, Marchioni A, Pisani L, Nava S, Clini E. Onset and clinical predictors of delirium in patients undergoing non-invasive mechanical ventilation for acute respiratory failure – NIVILIUM multicenter trial *European Respiratory Journal* Sep 2020, 56 (suppl 64) 3415; DOI: 10.1183/13993003.congress-2020.3415
 7. Tonelli R, Marchioni A, Fantini R, Tabbì L, Castaniere I, Bedogni S, Pellegrino MR, Trentacosti F, Donatelli P, Gozzi F, Livrieri F, Pisani L, Nava S, Clini E. Role of lung elastance on diaphragmatic dysfunction in exacerbated COPD patients who failed NIV. *European Respiratory Journal* Sep 2019, 54 (suppl 63) OA4923; DOI: 10.1183/13993003.congress-2019.OA4923.
 8. Tonelli R, Marchioni A, Castaniere I, Fantini R, Tabbì L, Bassoli E, Clini E. Trans-esophageal and dynamic transpulmonary pressure in patients with de novo respiratory failure undergoing NIV. *European Respiratory Journal* 2019 54: OA3301; DOI: 10.1183/13993003.congress-2019.OA3301.
 9. Marchioni A, Tonelli R, Fantini R, Tabbì L, Sdanganelli A, Castaniere I, Verduri A, Garofalo M, Cerri S, Ruggieri V, Clini E. Chronic critical illness in patients with acute respiratory failure admitted to a respiratory intensive care unit. *European Resp J* 2018; 52 PA320. DOI: 10.1183/13993003.congress-2018.
 10. Tonelli R, Marchioni A, Castaniere I, Fantini R, Viani A, Giaroni F, Ruggieri V, Clini EM. Diaphragm Impairment and failure of Non Invasive Ventilation in Patients With Acute Exacerbation of Chronic Obstructive Pulmonary Disease– DIPANIV study. *Am J Respir Crit Care Med* 197;2018:A6189.

11. Barbieri C, Tonelli R, Marchioni A, Garofalo M, Ruggieri V, Castaniere I, Fantini R, Luppi F, Clini EM, Cerri S. Effectiveness of chest US in the diagnosis of ILD in an unselected population: a prospective study. *Am J Respir Crit Care Med* 197;2018:A1590.
12. Fantini R, Marchioni A, Tonelli R, Castaniere I, Garofalo M, Andrisani D, Sdanganelli A, Zona S, Monelli M, Mandrioli J, Clini EM. Time course of diaphragmatic ultrasonography and prognosis in patients with ALS. *European Resp J* 2017; 50 PA2187. DOI: 10.1183/1393003.congress-2017.
13. Morisset J, Vittinghoff E, Lee B, Tonelli R, Hu X, Elicker BM, Ryu JH, Jones KD, Cerri S, Manfredi A, Sebastiani M, Ley BJ, Wolters PJ, King TE, Kim D, Collard HR, Lee JS. Predicting Mortality In Patients With Rheumatoid Arthritis Related Interstitial Lung Disease: Expanding The Gap Model. *Am J Respir Crit Care Med* 193;2016:A4288.
14. Tonelli R, Lanini B, Romagnoli I, Florini F, Presi I, Cocconcelli E, Castaniere I, Cerri S, Luppi F, Gigliotti F, Clini EM. Etiology And Level Of Lung Derangement Do Not Affect The Beneficial Effect Of Pulmonary Rehabilitation In Patients With Interstitial Lung Diseases. *Am J Respir Crit Care Med* 193;2016:A2311.
15. Sebastiani M, Manfredi A, Tonelli R, Spagnolo P, Campomori F, Vacchi C, Cocconcelli E, Cerri S, Colaci M, Luppi F, Della Casa G, Sverzellati N, Torricelli P, Richeldi L, Ferri C. AB0342 Rheumatoid Arthritis Related Interstitial Lung Disease. Radiological Patterns and Correlations with Clinical, Serological and Demographic Features of Disease. *Annals of the Rheumatic Diseases Annals of the Rheumatic Diseases* 2014;73:917. DOI 10.1136/annrheumdis-2014-eular.4299).
16. Lanini B, Romagnoli R, Cocconcelli E, Tonelli R, Presi I, Florini F, Gigliotti F, Clini EM. Effects of limb training in symptomatic patients with interstitial lung disease of different severity and etiology: A pilot study. *European Resp J* 2014; 44 (Suppl 58), P634.
17. Assayag D, Vittinghoff E, Ryerson CJ, Cocconcelli E, Tonelli R, Elicker B, Golden J, Jones KD, King TE, Koth L, Lee JS, Ley B, Wolters PJ, Collard HR. The Effect Of Bronchodilators On Forced Vital Capacity In Patients With Idiopathic Pulmonary Fibrosis. *Am J Respir Crit Care Med* 189; 2014: A1433.
18. Cocconcelli E, Cerri S, Spagnolo P, Tonelli R, Ventura P, Abbati G, Vegetti A, Pileri F, Del Giovane C, Balduzzi F, Pietrangelo A, Richeldi L, Luppi F. Prevalence Of Subclinical Liver Fibrosis Among Patients With Idiopathic Pulmonary Fibrosis. *Am J Respir Crit Care Med* 189; 2014: A1496.
19. Tonelli R, Sverzellati N, Della Casa G, Spagnolo P, Cerri S, Manfredi A, Sebastiani A, Cocconcelli E, Del Giovane C, Balduzzi S, Richeldi L, Torricelli P, Ferri C, Luppi F. HRCT Patterns Of Usual Interstitial Pneumonia In Rheumatoid Lung. *Am J Respir Crit Care Med* 189; 2014:A6418.

PARTECIPAZIONE A CONFERENZE E CONGRESSI COME RELATORE

1. Outbreaks in Pulmonology, III Edizione, Virtual, November 25th – 26th, 2022, **Oral presentation** “Tools to monitor the respiratory effort”.

2. American Thoracic Society International Conference May 13 – 18, 2022. **Poster presentation:** “Nasal Pressure Swings As The Measure Of Inspiratory Effort In Spontaneously Breathing Patients With De Novo Acute Respiratory Failure”, San Francisco (CA, USA),.
3. SMART Milan 5-7 May 2022, Oral Presentation in the session DEBATE - MECHANICAL VENTILATION MECHANICAL VENTILATION AND BEYOND with title “How do I monitor ARF patient with NIV?”
4. XXII Congresso Nazionale della Pneumologia Italiana, Milano, 6 – 8 Novembre 2021, Corso Pratico “Monitoraggio fisiopatologico e clinico dei pazienti con polmonite grave da COVID-19 (ARDS)”, **Oral presentation** “Il monitoraggio invasivo del paziente critico”.
5. Outbreaks in Pulmonology, III Edizione, Virtual, 11 – 12 Giugno 2021, **Oral presentation** “Management of acute asthma attack: from Emergency Room to Intensive Care Setting”.
6. European Respiratory Society International Congress 2021. **Poster presentation.** “Awake prone position in critical and severe COVID-19 patients undergoing noninvasive respiratory support: a retrospective multicenter cohort study”.
7. European Respiratory Society International Congress 2021. **Oral presentation.** “Inspiratory Effort And Respiratory Mechanics In Spontaneously Breathing Covid-19 Patients On Hospital Admission”.
8. Area Critica Bologna December 2019. **Oral presentation** “Ventilazione meccanica in corso di riacutizzazione di patologie interstiziali polmonari: uno studio preliminare”.
9. Outbreaks in Pulmonology, II Edizione, Modena, 28 - 30 Novembre 2019, **Oral presentation** “Invasive mechanical ventilation during acute exacerbation of ILD”.
10. European Respiratory Society International Congress. **Oral presentation** “Trans-esophageal and dynamic transpulmonary pressure in patients with de novo respiratory failure undergoing NIV”, Madrid (Spain), September-October 2019.
11. European Respiratory Society International Congress. **Oral presentation** “Role of lung elastance on diaphragmatic dysfunction in exacerbated COPD patients who failed NIV”, Madrid (Spain), September-October 2019.
12. VIII Convegno Regionale Emilia Romagna Pneumogiovani, Parma 7 giugno 2019, **Oral presentation** “Esperienze formative nei centri di eccellenza”.
13. Chest Young 2019, Paestum 24 – 25 Maggio 2019, **Oral presentation** “Ventilazione meccanica in corso di riacutizzazione di Malattie Polmonari Interstiziali”.
14. Outbreaks in Pulmonology, I Edizione, Modena, 8 – 9 Giugno 2018, **Oral presentation** “Endobronchial valve for bronchopleural fistula”.
15. XIX Congresso Nazionale della Pneumologia, Società Italiana di Pneumologia, Federazione Italiana della Pneumologia. **Oral presentation:** “La valutazione ecografica della funzionalità diaframmatica predice gli outcome clinici nei pazienti con sclerosi laterale amiotrofica (SLA)”, Venice (Italy), October 2018.
16. American Thoracic Society International Conference. **Oral presentation:** “Diaphragm Impairment and failure of Non Invasive Ventilation in Patients With Acute Exacerbation of Chronic Obstructive Pulmonary Disease– DIPANIV study”, San Diego (CA, USA), May 2018.
17. American Thoracic Society International Conference. **Poster presentation:** “Effectiveness of chest US in the diagnosis of ILD in an unselected population: a prospective study”, San Diego (CA, USA), May 2018.

18. European Respiratory Society Congress. **Poster presentation:** “Time course of diaphragmatic ultrasonography and prognosis in patients with ALS”, Milan (Italy), September 2017.
19. American Thoracic Society International Conference. **Poster presentation:** “Etiology And Level Of Lung Derangement Do Not Affect The Beneficial Effect Of Pulmonary Rehabilitation In Patients With Interstitial Lung Diseases”, San Francisco (CA, USA), May 2016.
20. Chest Annual Meeting. **Oral presentation:** “Regenerative medicine in chronic lung diseases: is there space for hope?”, Montreal (Canada), October 2015.
21. Aeolians Chest Workshop. **Oral presentation:** “Fibrosi Polmonare Idiopatica: Telemonitoraggio”, Lipari (Italy), May 2015.
22. European Respiratory Society Congress. **Poster presentation** “Effects of limb training in symptomatic patients with interstitial lung disease of different severity and etiology: A pilot study”, Munich (Germany), September 2014.
23. American Thoracic Society International Conference. **Poster discussion:** “HRCT Patterns Of Usual Interstitial Pneumonia In Rheumatoid Lung”, San Diego (CA USA), 16-21 May 2014.

LIBRI

1. Tonelli R, Crisafulli E, Costi S, Clini E (2020). The multi-morbidity patient. In Pulmonary Rehabilitation II Edition (pp. 349-357). CRC Press. <https://doi.org/10.1201/9781351015592>
2. Vitacca M, Marchioni A, Tonelli R, Clini E, Calderini (2020). Ventilazione meccanica domiciliare.
3. Bonsignore M, Clini E, Confalonieri M, Costi S, Crimi C, Crisafulli E, Longhini F, Marchioni A, Nava S, Navalesi, P, Pisani L, Spanevello, A, Tonelli R (2021), pp. 519-552. Insufficienza respiratoria acuta e cronica (cap.21) / Rugarli, Medicina Interna Sistemica VIII Edizione.

BREVETTI

Brevetto n. 102021000007478 “APPARATO PER IL RILEVAMENTO ED IL MONITORAGGIO DELLA PRESSIONE NASALE” rilasciato dal Ministero dello Sviluppo Economico, 2021.

ATTIVITÀ DI DOCENZA

Ottobre 2020 – presente	Tutor of Clinical Methodology Medical Degree Course University of Modena and Reggio Emilia Modena (Italia)
4 Dicembre 2021	Progetto spiro news. BPCO: nuovi obiettivi, nuove terapie, nuove strategie Modena (Italy)
22 – 23 Novembre 2018	Gestione del paziente respiratorio critico in UTIR Modena
28 – 29 Giugno 2018	Ecografia del torace nell’insufficienza respiratoria acuta corso teorico pratico

	Modena
21 – 22 Giugno 2018	Gestione del paziente respiratorio critico in UTIR
	Modena
23 – 24 Novembre 2017	Ecografia del torace nell'insufficienza respiratoria acuta corso teorico pratico
	Modena
8 – 9 Giugno 2017	Ecografia del torace nell'insufficienza respiratoria acuta corso teorico pratico
	Modena
7 – 8 Ottobre 2016	Ecografia del torace nell'insufficienza respiratoria acuta corso teorico pratico
	Modena

SUPERVISIONE E RUOLO DI CORRELATORE IN TESI DI LAUREA

1. Novembre 2022, Anno Accademico 2020-2021 – Inspiratory effort and respiratory mechanics in patients with acute exacerbation of idiopathic pulmonary fibrosis: a preliminary matched cohort study – Ruolo: Correlatore. Candidato: Dott. Chiara Nani, Scuola di Specializzazione in Malattie dell'Apparato Respiratorio, Università di Modena e Reggio Emilia
2. Novembre 2022, Anno Accademico 2020-2021 – Risk factor for pulmonary air leaks and clinical prognosis in patient with COVID-19 related acute respiratory failure: a retrospective matched control study – Ruolo: Correlatore. Candidato. Candidate: Dott. Fabiana Trentacosti, Scuola di Specializzazione in Malattie dell'Apparato Respiratorio, Università di Modena e Reggio Emilia
3. Novembre 2022, Anno Accademico 2020-2021 – Accuracy of nasal pressure swing to predict failure of high flow nasal oxygen in patients with acute hypoxemic respiratory failure – Ruolo: Correlatore. Candidato: Dott. Giulia Bruzzi, Scuola di Specializzazione in Malattie dell'Apparato Respiratorio, Università di Modena e Reggio Emilia
4. Luglio 2022, Anno Accademico 2020-2021 – Anti-IL-5 treatments in patients with severe eosinophilic asthma: efficacy comparison between Benralizumab and mepolizumab in real life – Ruolo: Correlatore. Candidato: Luca Borsari, Corso di Laurea in Medicina e Chirurgia, Università di Modena e Reggio Emilia
5. Luglio 2022, Anno Accademico 2020-2021 – Quantification of inspiratory effort through nasal pressure variation in patients with acute respiratory failure candidate to non-invasive respiratory support – Ruolo: Correlatore. Candidato: Matteo Delle Vergini, Corso di Laurea in Medicina e Chirurgia, Università di Modena e Reggio Emilia
6. Dicembre 2021, Anno Accademico 2019-2020 – Nasal pressure swings as the measure of inspiratory effort in spontaneously breathing patients with de novo respiratory failure. Ruolo: Correlatore. Candidato: Dott. Maria Rosaria Pellegrino, Scuola di Specializzazione in Malattie dell'Apparato Respiratorio, Università di Modena e Reggio Emilia
7. Dicembre 2021, Anno Accademico 2019-2020 – Espressione e ruolo di HOXB7 nel polmone di pazienti affetti da fibrosi polmonare idiopatica. Candidate: Francesco Grottoli, Corso di Laurea

in Medicina e Chirurgia, Università di Modena e Reggio Emilia

8. November 2020, Academic Year 2018-2019 – Clinical impact of out-of-ICU non-invasive respiratory support in patients with COVID-19 pneumonia: a multicenter retrospective trial. Ruolo: Correlatore. Candidato: Dott. Filippo Gozzi, Scuola di Specializzazione in Malattie dell'Apparato Respiratorio, Università di Modena e Reggio Emilia
9. Dicembre 2020, Anno Accademico 2018-2019 – Incidenza e impatto clinico del delirium in pazienti con insufficienza respiratoria sottoposta a ventilazione non-invasiva. Ruolo: Correlatore. Candidato: Luca Caffari, Corso di Laurea in Medicina e Chirurgia, Università di Modena e Reggio Emilia

APPARTENENZA A SOCIETA' SCIENTIFICHE

- | | |
|-------------|--|
| 2018 – Oggi | European Respiratory Society |
| 2018 – Oggi | Società Italiana di Pneumologia |

RUOLI DI LEADERSHIP RICOPERTI

- | | |
|-------------|--|
| 2016 – 2017 | Rappresentante dei Medici in Formazione Specialistica
Scuola di Specializzazione in Malattie dell'Apparato Respiratorio,
Università di Modena e Reggio Emilia |
|-------------|--|

LINGUE PARLATE

- Italiano – madrelingua
- Inglese – livello ottimo
- Francese – livello elementare

ROBERTO TONELLI, MD

È conforme al vero.

Il sottoscritto è a conoscenza che, ai sensi dell'art.76 DPR 28/12/2000 n.445, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali. Inoltre, il sottoscritto autorizza al trattamento dei dati personali, secondo quanto previsto dal D. lgs. 196/03.