



## Curriculum Vitae

### Mauro Panigada, MD

**Name:** Mauro Panigada

**Office Address:** Department of Anesthesiology, Intensive Care and Emergency, Intensive Care Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico. Via F. Sforza, 35 – 20122 Milan Italy

**Home Address:** Via Benedetto Marcello, 36. 20124 Milano, Italy

**Work Phone:** +39.02.55033232

**Work Email:** mauro.panigada@policlinico.mi.it

**Place of Birth:** Milan, Italy

### Education:

1998 MD University of Milan, Milan, Italy (Medical School)

### Postgraduate Training and Fellowship Appointments:

1998-2002 Specialty Degree in Anesthesiology and Critical Care, University of Milan, Italy

1999-2001 Post-doc Research Fellow, National Institutes of Health, NHLBI, Laboratory of Pulmonary and Cardiac Assist Devices. Bethesda, MD 20892, USA



## Postdoctoral Training

2018-2019 Postgraduate University Master in Clinical Epidemiology. Humanitas University. Rozzano, Milan, Italy.

## Certification, Licensures and Training programs:

2003 Locoregional anesthesia training program. Humanitas Research Hospital, Rozzano, Milan, Italy

2005 BLSD Instructor

2005 BLSD Director

2006 Trans-esophageal echocardiography training program. U.S.C. di Anestesia e Rianimazione 2° (Cardiochirurgia). Azienda Ospedaliera Ospedali Riuniti di Bergamo. Bergamo, Italy

2006 Trans-thoracic echocardiography training program. Servizio di Policardiografia. A.O. Spedali Civili di Brescia. Brescia, Italy

2016/2023 Observership Program. Anesthesia department and Surgical Intensive Care Unit. Massachusetts General Hospital and Harvard Medical School, Department of Anesthesia, Critical Care and Pain Medicine

## Faculty Academic Appointments:

2011-2015 Contract Professor. University of Milan, Italy

2013-2015 Contract Professor. University of Milan-Bicocca, Italy

2022-2023 Contract Professor. University of Milan-Bicocca, Italy

## Appointments at Hospitals/Affiliated Institutions:



---

2001-2003	Staff Anesthesiologist. Emergency surgery. Fondazione IRCCS Ca' Granda Policlinico, Milan.
2003-2023	Staff Physician. Medical Executive. Intensive Care Unit.
2023-present	Director of Intensive Care Unit

### **Administrative Leadership Positions:**

2006-2021	Director of the Italian Resuscitation Council training center Adveniam, Milan. Basic-life support.
-----------	--

### **Professional Societies:**

2003-present	Italian Association of Anesthesiology and Intensive Care Physicians (AAROI)
2006-present	Italian Resuscitation Council (IRC)
2012-present	European Society Of Intensive Care Medicine (ESICM)
2019- present	Italian Society of Anesthesiology and Intensive Care Medicine (SIAARTI)
2022-present	European Society of Anaesthesiology and Intensive Care (ESAIC)

### **Grant Review Activities:**

2016 Poland.	Grant reviewer "National Science Centre" ( <a href="http://www.ncn.gov.pl">http://www.ncn.gov.pl</a> ). Krakow,
-----------------	---

### **Editorial Activities:**



2006-present Medicine	Ad Hoc Reviewer American Journal of Respiratory and Critical Care
2006-present	Ad Hoc Reviewer Minerva Anestesiologica
2007-present	Ad Hoc Reviewer Pediatrics
2014-present	Ad Hoc Reviewer Artificial Organs
2015-present	Ad Hoc Reviewer Annals of Intensive Care
2018-present	Ad Hoc Reviewer PlosOne
2019-present	Ad Hoc Reviewer Journal of Critical Care
2020-present	Ad Hoc Reviewer Thrombosis and Haemostasis
2020-present	Ad Hoc Reviewer Respiratory Medicine
2019-present	Ad Hoc Reviewer European Journal of Internal Medicine
2022	Ad Hoc Reviewer Blood Transfusion
2018-2022	Review editor Frontiers in Pediatrics
2023	Ad Hoc Reviewer Chest
2024	Ad Hoc Reviewer Expert Opinion On Phamarcotherapy

### Honors and Prizes:

2013	ESICM (European Society of Intensive Care Medicine) Clinical Research Award. ESICM Clinical Research Award.
2016	GATRA Grifols Antithrombin Research Award
2016	Italian professional qualification for Associate Professor of Anesthesiology
2017	Best Abstract Award 28th SMART Meeting Anesthesia Resuscitation Intensive Care.





2022

Top cited article Journal of Thrombosis and Haemostasis:

“Hypercoagulability of COVID-19 patients in intensive care unit: A report of thromboelastography findings and other parameters of hemostasis. JTH 2020 18(7), pp. 1738-1742.

## **Report of Funded and Unfunded Projects**

### **Past**

"Multicenter Randomized Clinical Trial Of Lateral-Trendelenburg Vs. Semi Recumbent Position For The Prevention of Ventilator-Associated Pneumonia - The Gravity-Vap Trial". Hill-Rom Grant \$25,000. Role in Grant: Principal Investigator. 2010-2015

"Multicenter Randomized Clinical Trial Of Lateral-Trendelenburg Vs. Semi Recumbent Position For The Prevention of Ventilator-Associated Pneumonia - The Gravity-Vap Trial". European Society of Intensive Care Medicine €20,000. Role in Grant: Principal Investigator. 2010-2015

“Randomized Clinical Trial of Antithrombin Supplementation During Extracorporeal Membrane Oxigenation”. Grifols Grant €50,000. Role in Grant: Principal Investigator. 2016-2019

### **Current Projects**

COVID-19 Critical Care Consortium (Incorporating ECMOCARD). <https://www.covid-critical.com/study-global>). Italian Regional Leader.

Long-term impAct in inTensive caRe survivors oF CORonavirus disease-19. The AFTERCOR Study. The University of Queensland. National coordinator and Local Principal Investigator at Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico. Milan, Italy

Haemostasis Sub-committee .COVID-19 Critical Care Consortium (Incorporating ECMOCARD). National coordinator. Local Principal Investigator at Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico. Milan, Italy

“Prospective Cohort Study on the incidence of microbiologically confirmed Ventilator Associated Pneumonia with broncoalveolar lavage in COVID-19 patients”. Role in project: Principal Investigator. Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico. Milan, Italy





## **Major Academic, Clinical Teaching and Training Responsibilities**

- 2009-2015. Theoretical-practical course on the treatment of acute respiratory failure through extracorporeal support. Italian Ministry of Health training program for the H1N1 flu emergency. (14 editions, 300 anesthesiologists trained). University of Milan, Italy
- 2010-2015 Second-level Professional Master course in Critical Care Medicine (3 Editions). Theoretical-practical course on Organ Support in Critical Care (Mechanical Ventilation, Echocardiography, Renal Replacement Therapies, Coagulation support) (Director). (50 anesthesiologists trained). University of Milan, Italy
- 2010-2015 Second-level Professional Master course in Critical Care Medicine (3 Editions). Theoretical-practical course on thoracic echocardiography (Director). (50 anesthesiologists trained). University of Milan, Italy
- 2010-2015 Second-level Professional Master course in Critical Care Medicine (3 Editions). Theoretical-practical course on Extracorporeal Support to vital functions in Critical Care (Extracorporeal Membrane Oxygenation and Cardiac Assist Devices). (Instructor). (50 anesthesiologists trained). University of Milan, Italy
- 2010-2015 Second-level Professional Master course in Critical Care Medicine (1 Editions). Infections and antibiotic stewardship in Critical Care. (Instructor). (15 anesthesiologists trained). University of Milan, Italy
- 2011-2012 Theoretical-practical itinerant course on the management of patients with severe hypoxemic acute respiratory failure reserved for employees of the Public Administration. (Instructor). (3 editions). Italian Ministry of Health.
- 2011-2016 Second-level Professional Master course in Critical Care Medicine (3 Editions). Management of Acute Respiratory Failure. (Instructor). (50 anesthesiologists trained). University of Milan, Italy
- 2013-2015 Training project on acute respiratory failure at the University of Belgrade. (Instructor). University of Milan-Bicocca, Italy
- 2014 Training course on the process of organ and tissue donation for transplantation. (Instructor). University of Milan, Italy



2014	“Management of massive hemorrhage”. Surgical Residency Lecture. University of Milan, Italy
2015	Training course on “Non-invasive Ventilation for acute respiratory failure”. (Instructor). University of Milan, Italy
2014-present	Residency in Anesthesiology and Critical Care Medicine. University of Milan, Italy. Lectures on management of coagulation alterations in Critical Care.
2018-present	Medical School University of Milan, Italy. Anesthesiology, Critical Care and Emergency Medicine. Courses on Acute respiratory failure and Extracorporeal Membrane Oxygenation
2023	Critical Care Cardiology Master, University of Milan, Milan, Italy

### Clinical Supervisory:

2009-present	Clinical supervision of residents and newly hired critical care attendings. Main training focus on: Extracorporeal Membrane Oxygenation, Coagulation, Echocardiography, Renal Replacement Therapy, Acute Respiratory Failure, Post-operative management of Liver and Lung Transplantation and fiberoptic bronchoscopy.
--------------	--

### Invited Lectures:

YEAR	MONTH	TITLE	LOCATION
2012	March	Management of the patient with severe hypoxemic acute respiratory failure	Naples, Italy
	April	Global approach to ICU. INSIDE Congress	Milan, Italy
	October	Management of the patient with severe hypoxemic acute respiratory failure	Palermo, Italy



<b>2013</b>	May	Management of the patient with severe hypoxemic acute respiratory failure	Bari, Italy
	September	Clinical framework and ventilatory treatment of the patient with ARDS	Parma, Italy
	October	Protein C in the critically ill adult patient. Coaguliamo-C Congress	Naples, Italy
	April	ARDS definition causes and mechanisms of lung injury". University of Belgrade. School of Medicine. Seminar on Acute Respiratory Failure	Belgrade, Serbia
<b>2014</b>	March	Non-Pharmacological strategies of VAP prevention. Meeting on Therapeutic Stewardship in Pneumonia	Milan, Italy
	May	Diagnosis of VAP, easy? XXV SMART Congress	Milan, Italy
	October	Prevention and Treatment of VAP. Congress "Al cuore delle infezioni". San Donato Milanese	Milan, Italy
<b>2015</b>	October	Pulmonary ventilation strategies and clinical applications. San Donato Milanese	Milan, Italy
	October	Thromboelastographic monitoring. ECMO Expert Meeting	Pavia, Italy
<b>2016</b>	February	The role of Viscoelastic Hemostatic Assays in critically ill patients. VIII UK NEQAS USERS MEETING	Bologna, Italy
	May	VAP-VAE: patient positioning and mucociliary clearance". Invited Faculty at "Challenges in Mechanical Ventilation and Airway Technologies: A Massachusetts General Hospital and Harvard Medicine School Round Table". The Joseph B. Marin Convention Center, Harvard Medical School	Boston (MA), USA







	May	Coagulation prognostic criteria in the patient with severe sepsis ". Coaguliamo-C congress	Rome, Italy
	May	Managing blood coagulation during ECMO in an ARDS patient. XXVII SMART Congress	Milan, Italy
	May	Coagulation and patients with severe sepsis. XXVII SMART Congress	Milan, Italy
	October	How to prevent VAP. 2nd Critical Care Cardiology Course. San Donato Milanese	Milan, Italy
	October	Coagulation criteria for prognosis in critically ill patients. LXX SIAARTI National Congress	Naples, Italy
<b>2017</b>	February	Treatment and prevention of Ventilator Associated Pneumonia. II National Congress. The Critical Patient in the Pneumology Ward. Azienda Ospedaliero-Universitaria di Parma	Parma, Italy
	April	Coagulation management during VV ECMO, the role of viscoelastic tests. Med-TASS CARACT 2017	Palermo, Italy
	May	Basics of coagulation in Critically ill. XXVIII SMART Congress	Milano, Italy
<b>2018</b>	February	Thromboelastography-based anticoagulation in ECMO. ECMO-Net Meeting	Rome, Italy
	May	Bleeding management in critically ill patients. X Hemostasis Seminar	Baveno (VA), Italy
	November	Viscoelastometry in the critically ill patient. XLIV Refresher Course. Congenital and acquired alterations of coagulation. Focus on: Viscoelastometry tests in the study of blood coagulation	Naples, Italy
	October	Anticoagulation management and monitoring during extracorporeal	Milan, Italy





		membrane oxygenation. Utility of thromboelastogram. XXXII EACTS Annual Meeting	
	October	Protein C deficiency and coagulation emergencies. LXXII SIAARTI Congress	Palermo, Italy
	October	DECAP systems: State of the art. Critical Care Cardiology Course.	San Donato Milanese (MI), Italy
	December	The management of the pediatric patient with severe congenital protein C deficiency	Milan, Italy
<b>2019</b>	February	How to monitor anticoagulation, which targets? INSIDE Congress	Monza (MB), Italy
	March	Monitoring Coagulation during ECMO. XVIII Congresso nazionale CARACT	Rome, Italy
	May	Cerebral hemorrhage during ECMO preventable, treatable, unavoidable. XXX SMART Meeting	Milan, Italy
	May	Is there any evidence that treating coagulation abnormalities in critically ill patients improve outcomes. XXX SMART Meeting	Milan, Italy
	May	Thromboelastographic monitoring of coagulation. XXX SMART Meeting	Milan, Italy
	May	How we should monitor anticoagulation. INTERCEPT	Milan, Italy
	June	TEG-based anticoagulation management during ECOS. TCS-ECMO	Paris, France
	October	The word to the clinician: daily experience with TEG®5000 and TEG®6s. LXIII Congresso SIAAARTI I-CARE	Rome, Italy



<b>2020</b>	December	Hemostasis monitoring and targeted therapy in ECMO". Monitoraggio e terapia mirata dell'emostasi nel paziente critico	Bari, Italy
	January	Antithrombin supplementation in ECMO". SWESECT. Swedish Society of Extracorporeal Technology.	Gothenburg, Sweden
	February	Anticoagulation in ECMO. Azienda Ospedaliero-Universitaria di Parma	Parma, Italy
	June	Day to day life and challenges in Intensive Care Unit. EU & ANZ Haemonetics Virtual Hospital Sales Meeting. Virtual congress	webinar
	November	Coagulation dysfunction: is it clinically relevant? SIAARTI I-Care Congress. Virtual congress	webinar
	November	Adjunctive Therapies in Covid-19 Critically Ill Patients. Heparin: time and dose. E-SMART. XXXI SMART. Virtual Meeting	webinar
	November	Coagulopathy In the Critically Ill. Is There A Place For Antithrombin During ECMO?. E-SMART. XXXI SMART. Virtual Meeting	webinar
	November	Perioperative thromboprophylaxis. E-SMART. XXXI SMART. Virtual Meeting	webinar
	November	A Randomized Controlled Trial of Antithrombin Supplementation During Extracorporeal Membrane Oxygenation". November Journal Club (SCCM): Critical Care Medicine	webinar
<b>2021</b>	March	Coagulation Management in ECMO. SMART Congress	Milan, Italy
	October	Anticoagulants, indication and dosage. ICARE Congress	Rome, Italy
	November	Coagulation alterations of the critically ill patient. ICU Fellow lecture. Massachusetts	Boston, USA



General Hospital. Anesthesia, Critical Care  
and Pain Medicine

	December	Coagulopathy management of the critically ill intensive care patient: lessons learned. from the COVID-19 experience" ESAIC. Euroanesthesia Congress	Milan, Italy
<b>2022</b>	April	Radar Congress. Milan. Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico	Milan, Italy
	May	Perioperative management of patients with anticoagulant therapy". SMART Congress	Milan, Italy
	May	Managing bleeding". SMART Congress	Milan, Italy
	May	High Fidelity Workshop. Euroanaesthesia. "Challenging cases in ICU and trauma"; "Non-invasive ventilatory support in the hypoxemic perioperative patient"	Milan, Italy
	June	High Fidelity Workshop. Euroanaesthesia. "Non-invasive ventilatory support in the hypoxemic perioperative patient"	Milan, Italy
	June	The future of percutaneous tracheostomy in the ICU. Euroanaesthesia	Milan, Italy
	September	Werfen ECMO Frontier Council	Boston (MA), USA
	November	ECMO Corso Teorico Pratico Per L'uso Di Metodiche Di Supporto Cardiorespiratorio Extracorporeo. "Rescue therapies in ARDS".	Bergamo, Italy
	November	Executive Course:" Implementazione e gestione del supporto ECMO nel paziente con ARDS". Università degli Studi Milano Bicocca. "Gestione della anticoagulazione in V-V ECMO"; "Quando sostituire il circuito ECMO"	Monza (MB), Italy



<b>2023</b>	January	LIGHT, le infezioni fungine: highlights in terapia intensiva. Fondazione IRCCS Ca' Granda.	Milan, Italy
	January	Viscoelastic Monitoring in Critical Care. 39th Annual Conference Advances in Therapeutics and Technology: Critical Care of Neonates, Children, and Adults	Ontario (CA), USA
	February	9th Annual CNH Symposium: ECMO And the Advanced Therapies For Respiratory And Cardiac Failure. Viscoelastic Monitoring in Critical Care and ECLS. Advanced Technology in ECLS	Keystone (CO), USA
	February	Basics of coagulation for the Critically Ill. Special Guest Lecture. Massachusetts General Hospital. Anesthesia, Critical Care and Pain Medicine	Boston (MA), USA
	February	Rescue Therapies in ARDS. Guest lecturer. Massachusetts General Hospital. Anesthesia, Critical Care and Pain Medicine	Boston (MA), USA
	April	Viscoelastic Coagulation Monitoring during ECMO, our experience and future studies. International Expert Meeting at the University Center Obergurgl 2023	Obergurgl, Austria
	May	Free Talks on Bleeding during Surgery. Meet the Expert Point. SMART Congress 2023	Milan, Italy
	June	Safety 2 principles and resilience in ICU. Euroanesthesia 2023	Glasgow, UK
	September	Viscoelastic Coagulation Monitoring in Critical Care, our experience	Timisoara, Romania
	December	Test viscoelastici e point of care nel monitoraggio della coagulazione: ci sono novità?	Bergamo, Italy



## **Report of Clinical and Teaching Innovations.**

United States Patent Device for positioning a bedridden patient. Inventor: Mauro Panigada. Patent No. :US 10,758,442 B2. Date of Patent : Sep. 1 , 2020

Italian Patent Device for positioning a bedridden patient. Inventor: Mauro Panigada. Patent No. :IT 102015902338346. Mar 16, 2015

## **Report of Technological Scientific Innovations.**

Inventor of the “NUTRICU” app conceived to teach and assist Critical Care Physician in prescribing artificial nutrition to patients.

<https://apps.apple.com/it/app/nutricu/id1475765490?l=en>

<https://play.google.com/store/apps/details?id=com.tiknil.nutricu&pli=1>

## **Bibliography**

### **Research Publications, peer reviewed**

(Sorted by: Most recent):

1. Griffie MJ, Bozza PT, Reyes LF et al. Thrombotic and hemorrhagic complications of COVID-19 in adults hospitalized in high-income countries compared with those in adults hospitalized in low- and middle-income countries in an international registry. Research and Practice in Thrombosis and Haemostasis. 2023;7
2. Galli N, Pettine L, Panigada M et al. Non-capsulated Neisseria meningitidis sepsis in a paroxysmal nocturnal hemoglobinuria patient treated with ravulizumab: case report and review of the literature. Frontiers in Immunology. 2023;14
3. Cho S-M, White N, Premraj L et al. Neurological manifestations of COVID-19 in adults and children. Brain. 2023;146:1648-1661.
4. Vijayaraghavan BKT, Bishnu S, Baruch J et al. Liver injury in hospitalized patients with COVID-19: An International observational cohort study. PLoS ONE. 2023;18





5. Mangioni D, Panigada M, Palomba E et al. Incidence, microbiological and immunological characteristics of ventilator-associated pneumonia assessed by bronchoalveolar lavage and endotracheal aspirate in a prospective cohort of COVID-19 patients: CoV-AP study. *Critical Care*. 2023;27
6. Abbruzzese C, Guzzardella A, Consonni D et al. Incidence of asymptomatic catheter-related thrombosis in intensive care unit patients: a prospective cohort study. *Annals of Intensive Care*. 2023;13
7. Cattaneo V, Caccioppola A, Colombo SM et al. Hyperammonemia Syndrome After Lung Transplantation: A Double-Hit Fatal Syndrome. A Case Report. *Transplantation Proceedings*. 2023;55:1991-1994.
8. Fanning JP, Weaver N, Fanning RB et al. Hemorrhage, Disseminated Intravascular Coagulopathy, and Thrombosis Complications among Critically Ill Patients with COVID-19: An International COVID-19 Critical Care Consortium Study\*. *Critical Care Medicine*. 2023;51:619-631.
9. Meli A, Grasselli G, Panigada M. Hemoglobin Concentration and Viscoelastic Tests: Remember to Consider Fibrinogen and Platelets. *Critical Care Medicine*. 2023;51:E122-E123.
10. Martin-Loeches I, Reyes LF, Nseir S et al. European Network for ICU-Related Respiratory Infections (ENIRRI): a multinational, prospective, cohort study of nosocomial LRTI. *Intensive Care Medicine*. 2023;49:1212-1222.
11. Giani M, Panigada M. D-dimer and bleeding during ECMO: the chicken and the egg. *Intensive Care Medicine*. 2023;49:1567-1568.
12. McNicholas BA, Rezoagli E, Simpkin AJ et al. Correction: Epidemiology and outcomes of early-onset AKI in COVID-19-related ARDS in comparison with non-COVID-19-related ARDS: insights from two prospective global cohort studies (*Critical Care*, (2023), 27, 1, (3), 10.1186/s13054-022-04294-5). *Critical Care*. 2023;27
13. Kartsonaki C, Baillie JK, Barrio NG et al. Characteristics and outcomes of an international cohort of 600 000 hospitalized patients with COVID-19. *International Journal of Epidemiology*. 2023;52:355-376.
14. Wainstein M, Spyrisson N, Dai D et al. Association of Country Income Level With the Characteristics and Outcomes of Critically Ill Patients Hospitalized With Acute Kidney Injury and COVID-19. *Kidney International Reports*. 2023;8:1514-1530.







15. Panigada M, Meli A, Forastieri Molinari A et al. Agreement between Viscoelastic Coagulation Monitor (VCM), TEG 5000, and Coagulation Tests in Critically Ill Patients: A Multicenter Study. *ASAIO Journal*. 2023;69:E230-E239.
16. Fumagalli J, Panigada M, Klompas M, Berra L. Ventilator-associated pneumonia among SARS-CoV-2 acute respiratory distress syndrome patients. *Current Opinion in Critical Care*. 2022;28:74-82.
17. Panigada M, Spinelli E, De Falco S et al. The relationship between antithrombin administration and inflammation during veno-venous ECMO. *Scientific Reports*. 2022;12
18. Reyes LF, Murthy S, Garcia-Gallo E et al. Respiratory support in patients with severe COVID-19 in the International Severe Acute Respiratory and Emerging Infection (ISARIC) COVID-19 study: a prospective, multinational, observational study. *Critical Care*. 2022;26
19. Fanning J, Panigada M, Li Bassi G. Nosocomial Pneumonia in the Mechanically Ventilated Patient. *Seminars in Respiratory and Critical Care Medicine*. 2022;43:426-439.
20. Battaglini D, Premraj L, Griffiee M et al. Neurological Manifestations of SARS-CoV-2 Infection: Protocol for a Sub-analysis of the COVID-19 Critical Care Consortium Observational Study. *Frontiers in Medicine*. 2022;9
21. Garcia-Gallo E, Merson L, Kennon K et al. ISARIC-COVID-19 dataset: A Prospective, Standardized, Global Dataset of Patients Hospitalized with COVID-19. *Scientific Data*. 2022;9
22. Li Bassi G, Gibbons K, Suen JY et al. Early short course of neuromuscular blocking agents in patients with COVID-19 ARDS: a propensity score analysis. *Critical Care*. 2022;26
23. Panigada M, Meli A, Dalton HJ. Coagulation Disorders and Management. 2022. p. 235-247.
24. Privitera E, Gambazza S, Rossi V et al. Association of ventilator-free days with respiratory physiotherapy in critically ill patients with Coronavirus Disease 2019 (COVID-19) during the first pandemic wave. A propensity score-weighted analysis. *Frontiers in Medicine*. 2022;9
25. Panigada M, Zoumprouli A, Bilotta F. A Reminder of Organizational Safety in the ICU in 2022. *Critical Care Medicine*. 2022;50:E802-E803.
26. Panigada M, Meli A, Scotti E et al. Viscoelastic Coagulation Monitor as a Novel Device to Assess Coagulation at the Bedside. A Single-Center Experience During the COVID-19 Pandemic. *ASAIO Journal*. 2021;67:254-262.







27. Abbas A, Abdukahil SA, Abdulkadir NN et al. The value of open-source clinical science in pandemic response: lessons from ISARIC. *The Lancet Infectious Diseases*. 2021;21:1623-1624.
28. Bazzano G, Galazzi A, Giusti GD, Panigada M, Laquintana D. The order of draw during blood collection: A systematic literature review. *International Journal of Environmental Research and Public Health*. 2021;18:1-12.
29. Mancini I, Baronciani L, Artoni A et al. The ADAMTS13-von Willebrand factor axis in COVID-19 patients. *Journal of Thrombosis and Haemostasis*. 2021;19:513-521.
30. Panigada M, Meli A, Properzi P, Grasselli G, Iapichino GE. Normal Response to Fibrinolytic Challenge in COVID-19 Patients: Viscoelastic Evaluation Using Urokinase-Modified Thromboelastography. *Journal of the American College of Surgeons*. 2021;232:803-805.
31. Martinelli I, Ciavarella A, Abbattista M et al. Increasing dosages of low-molecular-weight heparin in hospitalized patients with Covid-19. *Internal and Emergency Medicine*. 2021;16:1223-1229.
32. Scaravilli V, Fumagalli J, Rosso L et al. Heparin-Free Lung Transplantation on Venovenous Extracorporeal Membrane Oxygenation Bridge. *ASAIO Journal*. 2021;67:E191-E197.
33. Peyvandi F, Artoni A, Novembrino C et al. Hemostatic alterations in COVID-19. *Haematologica*. 2021;106:1472-1475.
34. Mang S, Kalenka A, Broman LM et al. Extracorporeal life support in COVID-19-related acute respiratory distress syndrome: A EuroELSO international survey. *Artificial Organs*. 2021;45:495-505.
35. Ierardi AM, Coppola A, Fusco S et al. Early detection of deep vein thrombosis in patients with coronavirus disease 2019: who to screen and who not to with Doppler ultrasound. *Journal of Ultrasound*. 2021;24:165-173.
36. Passamonti SM, Cannavò A, Panigada M et al. Donation after circulatory death and liver transplantation: a cohort study. *Transplant International*. 2021;34:1271-1280.
37. Wildi K, Li Bassi G, Barnett A et al. Design and Rationale of a Prospective International Follow-Up Study on Intensive Care Survivors of COVID-19: The Long-Term Impact in Intensive Care Survivors of Coronavirus Disease-19–AFTERCOR. *Frontiers in Medicine*. 2021;8
38. Abdukahil SA, Abe R, Abel L et al. COVID-19 symptoms at hospital admission vary with age and sex: results from the ISARIC prospective multinational observational study. *Infection*. 2021;49:889-905.





39. Panigada M, Meli A, Grasselli G. Clinical Manifestation of COVID-19-Associated Coagulopathy. 2021. p. 143-159.
40. Ghirardello S, Lecchi A, Artoni A et al. Assessment of Platelet Thrombus Formation under Flow Conditions in Adult Patients with COVID-19: An Observational Study. *Thrombosis and Haemostasis*. 2021;121:1087-1096.
41. Li Bassi G, Suen JY, White N et al. Assessment of 28-Day In-Hospital Mortality in Mechanically Ventilated Patients with Coronavirus Disease 2019: An International Cohort Study. *Critical Care Explorations*. 2021;3:E0567.
42. Li Bassi G, Suen JY, Dalton HJ et al. An appraisal of respiratory system compliance in mechanically ventilated covid-19 patients. *Critical Care*. 2021;25
43. Spinelli E, Mauri T, Carlesso E et al. Time-course of physiologic variables during extracorporeal membrane oxygenation and outcome of severe acute respiratory distress syndrome. *ASAIO Journal*. 2020;66:663-670.
44. Cabrera R, Fernández-Barat L, Motos A et al. Molecular characterization of methicillin-resistant *Staphylococcus aureus* clinical strains from the endotracheal tubes of patients with nosocomial pneumonia. *Antimicrobial Resistance and Infection Control*. 2020;9
45. Panigada M, Bottino N, Tagliabue P et al. Hypercoagulability of COVID-19 patients in intensive care unit: A report of thromboelastography findings and other parameters of hemostasis. *Journal of Thrombosis and Haemostasis*. 2020;18:1738-1742.
46. Semeraro F, Ammollo CT, Caironi P et al. D-dimer corrected for thrombin and plasmin generation is a strong predictor of mortality in patients with sepsis. *Blood Transfusion*. 2020;18:304-311.
47. Cugno M, Meroni PL, Gualtierotti R et al. Complement activation in patients with COVID-19: A novel therapeutic target. *Journal of Allergy and Clinical Immunology*. 2020;146:215-217.
48. Barbeta E, Ceccato A, Artigas A et al. Characteristics and outcomes in patients with ventilator-associated pneumonia who do or do not develop acute respiratory distress syndrome. An observational study. *Journal of Clinical Medicine*. 2020;9:1-11.
49. Karbing DS, Panigada M, Bottino N et al. Changes in shunt, ventilation/perfusion mismatch, and lung aeration with PEEP in patients with ARDS: A prospective single-arm interventional study. *Critical Care*. 2020;24





50. Protti A, Iapichino GE, Di Nardo M, Panigada M, Gattinoni L. Anticoagulation Management and Antithrombin Supplementation Practice during Veno-venous Extracorporeal Membrane Oxygenation: A worldwide survey. *Anesthesiology*. 2020;562-570.
51. Panigada M, Cucino A, Spinelli E et al. A Randomized Controlled Trial of Antithrombin Supplementation During Extracorporeal Membrane Oxygenation. *Critical Care Medicine*. 2020;48:1636-1644.
52. Galazzi A, Panigada M. Microbiological colonization of healthcare workers' mobile phones in a tertiary-level Italian intensive care unit. *Intensive and Critical Care Nursing*. 2019;53:112.
53. Galazzi A, Panigada M, Broggi E et al. Microbiological colonization of healthcare workers' mobile phones in a tertiary-level Italian intensive care unit. *Intensive and Critical Care Nursing*. 2019;52:17-21.
54. Semeraro F, Ammollo CT, Caironi P et al. Low D-dimer levels in sepsis: Good or bad. *Thrombosis Research*. 2019;174:13-15.
55. Fernández-Barat L, Motos A, Panigada M et al. Comparative efficacy of linezolid and vancomycin for endotracheal tube MRSA biofilms from ICU patients. *Critical Care*. 2019;23
56. Panigada M, Spinelli E, Cucino A et al. Antithrombin supplementation during extracorporeal membrane oxygenation: Study protocol for a pilot randomized clinical trial. *Trials*. 2019;20
57. Iapichino GE, Protti A, Andreis DT et al. Antithrombin during extracorporeal membrane oxygenation in adults: National survey and retrospective analysis. *ASAIO Journal*. 2019;65:257-263.
58. Panigada M, E. Iapichino G, Brioni M et al. Thromboelastography-based anticoagulation management during extracorporeal membrane oxygenation: a safety and feasibility pilot study. *Annals of Intensive Care*. 2018;8
59. Semeraro F, Colucci M, Caironi P et al. Platelet drop and fibrinolytic shutdown in patients with sepsis. *Critical Care Medicine*. 2018;46:E221-E228.
60. Scaravilli V, Di Girolamo L, Scotti E et al. Effects of sodium citrate, citric acid and lactic acid on human blood coagulation. *Perfusion (United Kingdom)*. 2018;33:577-583.
61. Li Bassi G, Panigada M, Ranzani OT et al. Randomized, multicenter trial of lateral Trendelenburg versus semirecumbent body position for the prevention of ventilator-associated pneumonia. *Intensive Care Medicine*. 2017;43:1572-1584.





62. De Pascale G, Ranzani OT, Nseir S et al. Intensive care unit patients with lower respiratory tract nosocomial infections: The ENIRRI project. *ERJ Open Research*. 2017;3
63. Protti A, L'Acqua C, Panigada M. The delicate balance between pro-(risk of thrombosis) and anti- (risk of bleeding) coagulation during extracorporeal membrane oxygenation. *Annals of Translational Medicine*. 2016;4
64. Panigada M, Iapichino G, L'Acqua C et al. Prevalence of "Flat-Line" thromboelastography during extracorporeal membrane oxygenation for respiratory failure in adults. *ASAIO Journal*. 2016;62:302-309.
65. Panigada M, Sampietro F, L'acqua C et al. Impaired dynamics of clot formation and hypofibrinolysis in severe sepsis are coexisting and strictly related. *Intensive Care Medicine*. 2016;42:622-623.
66. Panigada M, Artoni A, Passamonti SM et al. Hemostasis changes during veno-venous extracorporeal membrane oxygenation for respiratory support in adults. *Minerva Anestesiologica*. 2016;82:170-179.
67. Panigada M, Iapichino GE. Dealing with complications of extracorporeal life support. *Minerva Anestesiologica*. 2016;82:6-8.
68. Panigada M, L'Acqua C, Passamonti SM et al. Comparison between clinical indicators of transmembrane oxygenator thrombosis and multidetector computed tomographic analysis. *Journal of Critical Care*. 2015;30:441.e7-441.e13.
69. Panigada M, Zacchetti L, L'Acqua C et al. Assessment of fibrinolysis in sepsis patients with urokinase modified thromboelastography. *PLoS ONE*. 2015;10
70. L'Acqua C, Passamonti SM, Spinelli E, Gattinoni L, Panigada M. Thromboelastography-guided thrombolysis during ECMO: a case report. *Anaesthesia and intensive care*. 2014;42:807-809.
71. Masson S, Caironi P, Spanuth E et al. Presepsin (soluble CD14 subtype) and procalcitonin levels for mortality prediction in sepsis: Data from the Albumin Italian Outcome Sepsis trial. *Critical Care*. 2014;18
72. Brazzi L, Lissoni A, Panigada M et al. Simulation-based training of extracorporeal membrane oxygenation during H1N1 influenza pandemic: The Italian experience. *Simulation in Healthcare*. 2012;7:32-34.





73. Berra L, Pinciroli R, Panigada M, Zanella A, Cressoni M, Li Bassi G. Alternative approaches to ventilator associated pneumonia prevention. The authors reply. *Minerva Anestesiologica*. 2012;78:509-510.
74. Panigada M, Berra L. Gravity. It's not just a good idea. It's the law. *Minerva Anestesiologica*. 2011;77:127-128.
75. Berra L, Sampson J, Fumagalli J, Panigada M, Kolobow T. Alternative approaches to ventilator-associated pneumonia prevention. *Minerva Anestesiologica*. 2011;77:323-333.
76. Berra L, Cressoni M, Li Bassi G, Kolobow T, Panigada M, Zanella A. Continuous lateral rotation therapy to prevent ventilator-associated pneumonia: The neglected effects of gravity on pathogenesis of ventilator-associated pneumonia. *Critical Care Medicine*. 2010;38:1018-1019.
77. Valles J, Berra L, Panigada M, Kolobow T. Monitoring intra-cuff pressure in subglottic aspiration [6] (multiple letters). *Critical Care Medicine*. 2005;33:1469-1471.
78. Berra L, De Marchi L, Panigada M, Yu Z-X, Baccarelli A, Kolobow T. Evaluation of continuous aspiration of subglottic secretion in an in vivo study. *Critical Care Medicine*. 2004;32:2071-2078.
79. Pelosi P, Bottino N, Chiumello D et al. Sigh in supine and prone position during acute respiratory distress syndrome. *American journal of respiratory and critical care medicine*. 2003;167:521-527.
80. Berra L, Panigada M, De Marchi L et al. New approaches for the prevention of airway infection in ventilated patients. Lessons learned from laboratory animal studies at the National Institutes of Health. *Minerva Anestesiologica*. 2003;69:342-347.
81. Panigada M, Berra L, Kolobow T. Bacterial Colonization of the Respiratory Tract under Artificial Ventilation: Trachea and Tracheal Tube Orientation [4]. *Critical Care Medicine*. 2003;31:2715.
82. Panigada M, Berra L, Greco G, Stylianou M, Kolobow T. Bacterial colonization of the respiratory tract following tracheal intubation - Effect of gravity: An experimental study. *Critical Care Medicine*. 2003;31:729-737.
83. Pelosi P, Chiumello D, Calvi E et al. Effects of different continuous positive airway pressure devices and periodic hyperinflations on respiratory function. *Critical Care Medicine*. 2001;29:1683-1689.





84. editors. Ventilator settings in acute respiratory failure/acute respiratory distress syndrome. 55(1); 2000; 2000.
85. Pelosi P, Bottino N, Panigada M, Eccher G, Gattinoni L. The sigh in ARDS (acute respiratory distress syndrome). *Minerva anesthesiologica*. 1999;65:313-317.
86. Pelosi P, Cadringer P, Bottino N et al. Sigh in acute respiratory distress syndrome. *American Journal of Respiratory and Critical Care Medicine*. 1999;159:872-880.
87. Pelosi P, Ravagnan I, Gíurati G et al. Positive end-expiratory pressure improves respiratory function in obese but not in normal subjects during anesthesia and paralysis. *Anesthesiology*. 1999;91:1221-1231.

## Scopus, H-index 25

<https://orcid.org/0000-0003-4841-9794>

## Books/textbooks for the medical or scientific community

- 2000 Pelosi P, Panigada M, Porro GA, Gattinoni L. *Medicina Intensiva e Perioperatoria*. In: *Medicina Intensiva E Perioperatoria*. p. 141-153, MILANO: Springer-Verlag Italia
- 2018 Panigada M, Passamonti SM, Caironi P. “La gestione della emorragie, coagulopatie e tromboembolie” pagg. 119-125. In: *Rischi medico-legali in Rianimazione e Terapia Intensiva*. Medical & Professional Series. Momento Medico Ed. ISBN 88-8160-289-X
- 2021 Panigada M, Meli A, Grasselli G. Chapter 9. Clinical manifestations of COVID-19 associated coagulopathy. In: *The Coagulation Labyrinth of Covid-19*. Springer Nature. ISBN: 978-3030829377
- 2022 Panigada M, Meli A, Heidi J. Dalton. COVID-19 Critical and Intensive Care Medicine Essentials. Chapter 20. Coagulation Disorders and Management. ISBN: 978-3-030-94991-4; ISBN 978-3-030-94992-1  
<https://doi.org/10.1007/978-3-030-94992-1>







## Post-doctoral thesis:

2006-2007	“Route of intra-tracheal colonization in the pathogenesis of Ventilator Associated Pneumonia”. Gianluigi Li Bassi, MD
2017-2018	“Antithrombin supplementation during veno-venous ECMO”. Elisa Cipriani, MD
2018-2019.	“Alterations of the hemostasis system and thrombosis in severe SARS-CoV-2 infection: analysis of viscoelastic properties on whole blood of 70 patients admitted to intensive care”. Stefano De Falco, MD
2021-2022	“Conseguenze a lungo termine dell'ARDS da COVID-19: follow up ad un anno dalla dimissione dalla terapia intensiva”. Stefania Paladini, MD
2022-2023	“Studio osservazionale sull'utilizzo dei test viscoelastici nel peripartum” Elisabetta Spinuzza, MD

## Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings:

1. Pelosi P, Panigada M, Bottino N, Allegritti E, Resta M (1999). An 'in vitro' evaluation of a new humidification device (DAR HC 2000). British Journal Of Anaesthesia, vol. 82, p. 166, ISSN: 0007-0912
2. Chiumello D, Pelosi P, Panigada M, Bottino N, Gattinoni L (1999). Artificial chest wall compliance changes in acute lung injury (ALI). British Journal Of Anaesthesia, vol. 82, p. 181, ISSN: 0007-0912
3. Chiumello D, Pelosi P, Bottino N, Panigada M, Resta M (1999). Comparison of different CPAP delivery systems. British Journal Of Anaesthesia, vol. 82, p. 166, ISSN: 0007-0912
4. Pelosi P, Resta M, Panigada M, Bottino N, Eccher L (1999). Effects of age on respiratory function in anesthetized paralyzed normal subjects. British Journal Of Anaesthesia, vol. 82, p. 69, ISSN: 0007-0912
5. Pelosi P, Bottino N, Panigada M, Resta M, Tredici S (1999). Effects of peep on respiratory function in normal subjects and obese patients, during sedation and paralysis. British Journal Of Anaesthesia, vol. 82, p. 174, ISSN: 0007-0912





6. Pelosi P, Bottino N, Caironi P, Panigada M, Eccher G, Mondino M, Gattinoni L. Sigh in Acute Respiratory Distress Syndrome: Effects in supine and in prone position. *Intensive Care Medicine*. Volume 26, Supp 3, 2000: 186
7. Bottino N, Chiaravalli L, Panigada M, Carrieri F, Allegritti E, Pelosi P, Gattinoni L. In vitro study of a new vaporization humidifying device: DAR HC 2000. *Critical Care*. Vol 4 Supp1, 2000: P107
8. Bottino N, Panigada M, Chiumello D, Pelosi P, Gattinoni L. Effects of artificial changes in chest wall compliance on respiratory mechanics and gas exchange in patients with acute lung injury (ALI). *Critical Care*. Vol 4 Supp1, 2000: P117
9. Greco G, Panigada M, Kolobow T: Effect of tracheal tube position on tracheo-bronchial and lung bacterial colonization and nosocomial pneumonia. *Am J Respir CritCare Med* 2001; Volume 163, Number 5:A803
10. Berra L, De Marchi L, Panigada M, Kolobow T. Continuous aspiration of subglottic secretion does not prevent bacterial colonization of the respiratory tract. *Am J Respir CritCare Med* 2001; Volume 165, Number 8:A241
11. Kolobow T, Berra L, Aly H, De Marchi L, Panigada M. Ultra-thin wall, low resistance two stage, low dead space tracheal tube (UTTS-ETT). *Am J Respir CritCare Med* 2001; Volume 165, Number 8:A156
12. Panigada M, Berra L, Greco G, De Marchi L, Kolobow T (2001). Effect of horizontal tracheal tube orientation on bacterial colonization of the lower respiratory tract in sheep intubated and mechanically ventilated. *Critical Care Medicine*, vol. 29, p. A107, ISSN: 0090-3493
13. Berra L, Panigada M, Lorenzo DM, Gianluca G, Lewandowski R, Kolobow T (2002). Bacterial colonization of the respiratory tract following tracheal intubation and mechanical ventilation effect of gravity. *Pediatric Research*, vol. 51, p. 50A, ISSN: 0031-3998
14. Kolobow T, Aly H, Berra L, DeMarchi L, Panigada M (2002). Ultra-thin wall, two-stages-twin tracheal tube (UTTS-T-ETT), of low resistance (R) and low dead space (DS). *Pediatric Research*, vol. 51, p. 392A, ISSN: 0031-3998
15. Crotti S, Lissoni A, Panigada M, Bottino N, Libassi G, Russo R, De Chiara S, Rosso L, Caspani ML, Gattinoni L. Supporto Extracorporeo Veno-Venoso Prima, Durante E Dopo Trapianto Bipolmonare. *Caso Clinico - Minerva Anestesiologica Supp.* 2008
16. Alongi S, Panigada M, De Chiara S, Bottino N, Caspani ML, Gattinoni L (2009). Motor response to pain as an outcome predictive factor after cardiac arrest. *intensive care medicine*, vol. 35, p. 141, ISSN: 0342-4642
17. Alongi S, Polli F, Panigada M (2010). Early initiation of therapeutic hypothermia after cardiac arrest and correlation with survival and neurologic outcome: an italian report. *Intensive Care Medicine*, vol. 36, p. S299, ISSN: 0342-4642
18. Passamonti SM, Panigada M, Artoni A, Mietto C, Bucciarelli P, Martinelli I (2013). Monitoring anticoagulation during Extra-Corporeal Membrane Oxygenation (ECMO) in patients with acute respiratory failure. *Journal Of Thrombosis And Haemostasis*, vol. 11, p. 1029, ISSN: 1538-7933







19. Zacchetti L, Panigada M, Cressoni M, Marchesi T, Gattinoni L. Urokinase-induced fibrinolysis in thromboelastography (UKIF-TEG) to assess fibrinolysis in critically ill patients. *Critical Care*. 2013;17(Suppl 2):P357. doi:10.1186/cc12295
20. Panigada M, Mietto C, Pagan F, Bogno L, Berto V, Gattinoni L. Monitoring anticoagulation during extracorporeal membrane oxygenation in patients with acute respiratory failure. *Critical Care*. 2013;17(Suppl 2):P126. doi:10.1186/cc12064.
21. Panigada M., Mietto C., L'Acqua C., Protti A., Savioli M., Riva R., Gattinoni L. CT Scan Of The Artificial Lung After Circuit Change Or Removal During Veno-Venous ECMO for Respiratory Failure. *Int J Artif Organs* 2013; 36(4): 264 – 269
22. Karbing D, Panigada M, Bottino N, et al. Changes in computed tomography and ventilation/perfusion mismatch with positive end-expiratory pressure. *Critical Care*. 2014;18(Suppl 1):P276. doi:10.1186/cc13466.
23. Iapichino GE, Panigada M, L'Acqua C, Cressoni M, Bottino N, Gattinoni L (2014). Anticoagulation monitoring during extracorporeal membrane oxygenation in adult patients. *Intensive Care Medicine*, vol. 40, p. S209, ISSN: 0342-4642
24. Panigada M, Russo R, Monti M, Trotti R, Iapichino GE, Gattinoni L (2014). Postoperative bleeding in patient after lung transplantation, the role of extracorporeal membrane oxygenation. *Intensive Care Medicine*, vol. 40, p. S206, ISSN: 0342-4642
25. M. Panigada, L. Zacchetti, C. L'Acqua, M. Cressoni, R. Bader, M. Boscolo Anzoletti, F. Sampietro, A. D'Angelo, A. Protti, L. Gattinoni. Assessment of fibrinolysis in septic patients with different methods. *Thrombosis Research* 134S2 (2014) S1–S103. OC-85
26. P. Della Valle, M. Panigada, M. Tresoldi, L. Zacchetti, Y. Vella, L. A. D'Angelo. Prognostic value of a modified thrombin generation test in patients with severe sepsis/septic shock. *Thrombosis Research* 134S2 (2014) S1–S103. OC-86
27. Artoni A, Panigada M, Passamonti SM, Maino A, Clerici M, Tripodi A, Bucciarelli P, Martinelli I. Coagulation changes during veno-venous extracorporeal membrane oxygenation for respiratory support in adults. *Thrombosis Research* 134S2 (2014) S1–S103. P-80.
28. Semeraro F, Masson S, Caironi P, Ammollo CT, Semeraro N, Panigada M, Fanizza C, Tognoni G, Gattinoni L, Latini R, Colucci M (2015). Early measurement of thrombin activatable fibrinolysis inhibitor (TAFI) and activated TAFI (TAFIA) predict outcome in patients with severe sepsis or septic shock. *Journal Of Thrombosis and Haemostasis*, vol. 13, p. 875, ISSN: 1538-7933
29. Panigada M, G. Li Bassi, O.T. Ranzani, T. Kolobow, A. Zanella, M. Cressoni, L. Berra, V. Parrini, H. Kandil, G. Salati, S. Livigni, A. Amatu, A. Andreotti, F. Tagliaferri, G. Moise, G. Mercurio, A. Costa, A. Vezzani, S. Lindau, J. Babel, M. Cavana, D. Consonni, A. Pesenti, L. Gattinoni, A. Torres (2016). Multicenter randomized clinical trial of lateral-trendelenburg vs. semi recumbent position for the prevention of ventilator-associated pneumonia - the gravity-VAP trial. *Intensive Care Medicine*, ISSN: 0342-4642
30. T.Mauri, L.Alban, C.Turrini, T.Sasso, T.Langer, Panigada M, P.Taccone, E.Carlesso, C.Marenghi, G.Grasselli, A. Pesenti (2016). Correlation between improvement of





- physiological variables and increasing flow rates during High Flow Nasal Cannula (HFNC) therapy. Intensive Care Medicine, ISSN: 0342-4642
31. M. Panigada, O.T. Ranzani, T. Kolobow, A. Zanella, M. Cressoni, L. Berra, V. Parrini, H. Kandil, G. Salati, S. Livigni, A. Amatu, M. Girardis, M. Barbagallo, G. Moise, G. Mercurio, A. Costa, A. Vezzani, S. Lindau, J. Babel, M. Cavana, A. Torres. Feasibility and Safety of the Lateral-Trendelenburg Vs Semirecumbent Body Position - The Gravity-VAP Trial. American Thoracic Society (ATS) 2017
  32. M. Panigada, G. Li Bassi, O.T. Ranzani, T. Kolobow, A. Zanella, M. Cressoni, L. Berra, V. Parrini, H. Kandil, G. Salati, S. Livigni, A. Amatu, M. Girardis, M. Barbagallo, G. Moise, G. Mercurio, A. Costa, A. Vezzani, S. Lindau, J. Babel, M. Cavana, A. Torres. Lateral-Trendelenburg vs. semirecumbent body position for the prevention of ventilator-associated pneumonia – The Gravity-VAP Trial. American Thoracic Society (ATS) 2017
  33. G. Li Bassi, M. Panigada, O.T. Ranzani, T. Kolobow, A. Zanella, M. Cressoni, L. Berra, V. Parrini, H. Kandil, G. Salati, S. Livigni, A. Amatu, M. Girardis, M. Barbagallo, G. Moise, G. Mercurio, A. Costa, A. Vezzani, S. Lindau, J. Babel, M. Cavana, A. Torres "The lateral-Trendelenburg vs. semirecumbent body position for the prevention of ventilator-associated pneumonia – The Gravity-VAP Trial". European Respiratory Society (ERS)
  34. M. Panigada, G. Li Bassi, O.T. Ranzani, T. Kolobow, A. Zanella, M. Cressoni, L. Berra, V. Parrini, H. Kandil, G. Salati, S. Livigni, A. Amatu, M. Girardis, M. Barbagallo, G. Moise, G. Mercurio, A. Costa, A. Vezzani, S. Lindau, J. Babel, M. Cavana, A. Torres. Secondary Analysis of Hospital Mortality Risk associated with the Lateral-Trendelenburg vs. Semirecumbent Body Position - The Gravity-VAP Trial. European Respiratory Society (ERS)
  35. G. Li Bassi; M. Panigada, O.T. Ranzani, T. Kolobow, A. Zanella, M. Cressoni, L. Berra, V. Parrini, H. Kandil, G. Salati, S. Livigni, A. Amatu, M. Girardis, M. Barbagallo, G. Moise, G. Mercurio, A. Costa, A. Vezzani, S. Lindau, J. Babel, M. Cavana, A. Torres. Feasibility of the lateral-Trendelenburg vs Semirecumbent body position – The Gravity-VAP Trial. ISICEM Symposium 2017
  36. M. Panigada, G. Li Bassi, O.T. Ranzani, T. Kolobow, A. Zanella, M. Cressoni, L. Berra, V. Parrini, H. Kandil, G. Salati, S. Livigni, A. Amatu, M. Girardis, M. Barbagallo, G. Moise, G. Mercurio, A. Costa, A. Vezzani, S. Lindau, J. Babel, M. Cavana, A. Torres. Lateral-Trendelenburg vs. semirecumbent body position for the prevention of ventilator-associated pneumonia – The Gravity-VAP Trial. ISICEM Symposium 2017
  37. Efficacy of systemic treatment with linezolid or vancomycin on MRSA biofilm within endotracheal tubes from mechanically ventilated patients with respiratory infection- ECCMID 2018. 21-24 Aprile 2018 Madrid Spain
  38. A. Marino, G. Grasselli, A. Pesenti, M. Panigada. A cohort study on hypothermia in postoperative patients admitted in ICU. SIAARTI 2018





39. P. Properzi, E. Spinelli, S. De Falco, A. Cucino, E. Cipriani, M. Brioni, G. Iapichino, M. Panigada, G. Grasselli, A. Pesenti. Hypovolemic state might decrease heparin requirements to achieve anticoagulation in veno-venous ECMO. EUROELSO 2019
40. E. Spinelli, M. Panigada, N. Bottino, C. Abbruzzese, S. Crotti, M. Savioli, P. Properzi, P. Tagliabue, G. Grasselli, A. Pesenti. Does extracorporeal blood flows affect the risk of hemostatic complications during venovenous ECLS? A descriptive review. EUROELSO 2019
41. G. Grasselli; M. Panigada; S. De Falco; C. Novembrino; F. Cea; A. Di Modugno; E. Cipriani. A. Cucino; A. Pesenti. Plasmatic Levels of Adrenomedullin during Extracorporeal Membrane Oxygenation in Patients with Severe Respiratory Failure. 40th International Symposium on Intensive Care & Emergency Medicine: Brussels, Belgium. 24-27 March 2020. Crit Care. 2020 Mar;24(S1):87, s13054-020-2772-3.
42. M. Panigada, D. Tubiolo, P. Properzi, G. Grasselli, A. Pesenti. Agreement between Cause-Specific Mortality During Extracorporeal Membrane Oxygenation, A Single Center Review of Medical Records. 40th International Symposium on Intensive Care & Emergency Medicine: Brussels, Belgium. 24-27 March 2020. Crit Care. 2020 Mar;24(S1):87, s13054-020-2772-3.
43. M. Panigada, A. Cucino, E. Cipriani, S. De Falco, E. Spinelli, G. Occhipinti, G. Panarello, A. Arcadipane, A. Pesenti, G. Grasselli. Phase 3, Pilot, Prospective, Randomized, Single Blinded, Multicenter, Controlled, Two-Arm Trial on Antithrombin Supplementation during Extracorporeal Membrane Oxygenation. The GATRA (Grifols Antithrombin Research Awards) Study. 40th International Symposium on Intensive Care & Emergency Medicine: Brussels, Belgium. 24-27 March 2020. Crit Care. 2020 Mar;24(S1):87, s13054-020-2772-3.
44. M. Panigada, S. De Falco, N. Bottino, P. Properzi, G. Grasselli, A. Pesenti. Agreement Between the Thromboelastography Reaction Time Parameter using Fresh and Citrated Whole Blood During Extracorporeal Membrane Oxygenation with Teg®5000 and Teg®6s. 40th International Symposium on Intensive Care & Emergency Medicine: Brussels, Belgium. 24-27 March 2020. Crit Care. 2020 Mar;24(S1):87, s13054-020-2772-3.
45. Li Bassi G, Gibbons K, Suen JY, Dalton HJ, White N, Corley A, et al. Use of neuromuscular blocking agents in mechanically ventilated patients with COVID-19: A propensity score analysis. ESICM LIVES 2021: Part 1. Intensive Care Med Exp. 2021 Oct;9(Suppl 1):51-51.
46. Li Bassi G, Suen J, Dalton HJ, White N, Schrapnel S, Fanning J, et al. An appraisal of respiratory system compliance in mechanically ventilated COVID-19 patients. American Journal of Respiratory and Critical Care Medicine [Internet]. 2021;203(9). Available from: <https://doi.org/10.1164/ajrccm-conference.2021.203.1.MeetingAbstracts.A2483>
47. Panigada M, Meli A, Scotti E, Martinet C, Rossetti M, Mirandola M, et al. Effect of heparin on viscoelastic parameters of COVID-19 critically ill patients. A Viscoelastic Coagulation Monitor (VCM) analysis. ASAIO Journal. 2020;66(SUPPL 3):24-24.





48. Panigada M, Meli A, Ughi EC, De Razza S, Fantinato A, Di Santo C, et al. Russels viper venom (RVV) clotpro essay correlates with anti-xa activity during veno-venous ECMO. *ASAIO Journal*. 2021;67(SUPPL 3):24–5.
49. Wildi K, LiBasse G, Panigada M, Colombo S, McNicholas B, Laffey J, et al. Long covid syndrome: Why efforts like aftercor are needed. *ASAIO Journal*. 2021;67(SUPPL 3):41–41.
50. Mangioni D, M Panigada et al. Immunological parameters and microbiological findings in mechanical ventilated COVID-19 patients with suspected ventilator associated pneumonia. 13° Congresso ICAR 2021
51. Effect of Heparin on Viscoelastic Parameters of COVID 19 Critically Ill Patients. A Viscoelastic Coagulation Monitor (VCM) Analysis. *ELSO* 2020
52. Wildi K et al. Long-term impact in intensive care survivors of coronavirus disease-19 (AFTERCOR study): Preliminary 3-month analysis after ICU discharge. *ATS* 2022
53. Mangioni et al. Incidence and microbiological characteristics of ventilator-associated pneumonia assessed by bronchoalveolar lavage and endotracheal aspirate in COVID-19 patients: CoV-AP study. *ECCMID* 2022
54. Wildi K et al. Long-term impact in intensive care survivors of coronavirus disease-19 (AFTERCOR study): Preliminary analysis up to 1 year after ICU discharge. *ESICM* 2022.
55. M. Panigada, D. Consonni, E. Spinelli, C. Novembrino, A. Arcadipane, G. Grasselli. Does antithrombin administration reduce inflammation during veno-venous ECMO? *ESAIC* 2022
56. Panigada M. et al *ELSO Congress* 2022. “Agreement between Viscoelastic Coagulation Monitor (VCM) and TEG 5000 analyzers: a multicenter study”. Boston, USA
57. Vivona L. et al. In Vivo Evaluation of a New Endotracheal Tube Cuff Controller Promoting Tracheal Secretion Clearance: Preliminary Results. *Respiratory Care* October 2022, 67 (Suppl 10) 3776321
58. Mangioni D. et al. Incidence and microbiological characteristics of ventilator-associated pneumonia assessed by bronchoalveolar lavage and endotracheal aspirate in COVID-19 patients. CoV-AP study. *Critical Care Conference: 42nd International Symposium on Intensive Care and Emergency Medicine Brussels Belgium*; 27(Supplement 1).
59. Bonetti CV, et al. Incidence of Catheter Associated Asymptomatic Thrombosis in Intensive Care Unit Patients: a prospective cohort study. *LIVES* 2022, Paris, France
60. Caccioppola A. et al. Subphenotypes of severe ARDS patients on vv-ECMO based on early trends of respiratory system compliance. *Euroelso* 2023, Lisbon, Portugal.





## Alternative media presentations

10/2020	Interview. Thromboembolism prophylaxis in the Critical Care Unit. SIAARTI I-CARE 2020
10/2020	Interview, Treatment options in patients with congenital deficiency of protein C. SIAARTI I-CARE 2020
03/2020	GiViTi COVID-19 Fourth Meeting. YouTube ( <a href="https://www.youtube.com/watch?v=xDArEDQEBMQ">https://www.youtube.com/watch?v=xDArEDQEBMQ</a> )
04/2020	GIViTi COVID-19 Fifth Meeting. YouTube ( <a href="https://www.youtube.com/watch?v=sddqhCTNIOY">https://www.youtube.com/watch?v=sddqhCTNIOY</a> )
12/2020	International WEBINAR - ARIR Event 2020 - RESPIRATORY PHYSIOTHERAPIST FIGHTING COVID19 – Clinical Course and management of COVID-19 patients
03/2021	HAEMOSTATIC MONITORING AND CLINICAL DECISION MAKING IN PATIENTS WITH COVID-19- INDUCED COAGULOPATHY – Haemostatic monitoring in COVID-19 patients: laboratory tests and viscoelastic assays Krakow, Poland.
04/2021	NATA Webinar. Hemostatic monitoring in COVID-19
06/2021	Werfen Webinar. D-Dimer in Sepsis
04/2023	Human Error: From Aerospace to Healthcare and Emergency Management

Milano, 26/02/2024

*Mario Perin*

