

Curriculum Vitae



Personal information

First name(s) / Surname(s) **Luca Molinari**

Nationality Italian

Gender Male

Working

September 2021 - onwards Emergency Medicine Physician

Medical doctor working in the Emergency Department and "Medicina e Chirurgia d'Accettazione e d'Urgenza" (MeCAU) unit under the direction of Professor Mattia Bellan.

Emergency Department and Step-down Unit, "Maggiore della Carità" University Hospital – 18, Corso Mazzini, 28100, Novara (NO), Italy

Teaching/Tutoring

November 2021 - onwards Tutor of the residents of the School of Emergency Medicine

Medical doctor specialized in Emergency Medicine supporting and tutoring the residents of the School of Emergency Medicine of Università del Piemonte Orientale. My work consists in:

- clinical tutoring during the shifts in the hospital,
- preparing lessons and clinical updates for the other residents and doctors
- guiding residents in preparing journal clubs, revision of clinical guidelines and lessons for other residents and doctors
- supervising the different clinical research projects assigned to the residents
- organizing simulations and interactive workshops (point-of care ultrasound, vascular accesses, etc.) for different clinical skills for the residents
- Emergency Department and Step-down Unit, "Maggiore della Carità" University Hospital – 18, Corso Mazzini, 28100, Novara (NO), Italy.
- Department of Translational Medicine, Università degli Studi del Piemonte Orientale – 17, Via Solaroli, 28100, Novara (NO), Italy

May 2024 - onwards Teacher of the course "La gestione del drenaggio toracico; dalla Teoria alla pratica" ("Management of the chest tube: from theory to clinical practice")

Teacher of this in-presence theoretical and practical course aimed at the personnel of the hospital regarding the in-hospital management of acute ill patients with chest tube.

- 2024: May 5th (1st edition) and October 29th (2nd edition).
- 2025: February 21st (1st edition) and April 22nd (2nd edition).

"Maggiore della Carità" University Hospital – 18, Corso Mazzini, 28100, Novara (NO), Italy.

June 2022 – November 2023	Teacher for the “Corso di formazione per il conseguimento dell'idoneità all'esercizio dell'attività emergenza sanitaria 118” (“Training course for obtaining the licence for the out-hospital emergency health service”) Teacher for course aimed at the new personnel enrolled in the extra-hospital/territorial emergency service. In particular lessons regarding the emergency/acute management and treatment of different endocrinologic and metabolic alterations, such as adrenal crisis/acute adrenal insufficiency, myxedema coma/hypothyroidism, thyrotoxic crisis/hyperthyroidism, decompensated diabetes mellitus (diabetic ketoacidosis and hyperosmolar hyperglycemic coma), hypoglycemia, hypo- and hyperkalemia, hypo- and hyponatremia, severe dehydration, etc. • June 6, 2022: “Alterazioni endocrino-metaboliche” (Endocrin-metabolic alterations) (8-hour seminar) • November 8, 2023: “Alterazioni endocrino-metaboliche” (Endocrin-metabolic alterations) (2-hour seminar) • November 21, 2023: “Alterazioni endocrino-metaboliche” (Endocrin-metabolic alterations) (8-hour seminar) SIMNOVA – 1, Via Lanino, 28100, Novara (NO), Italy.
April 2022 - onwards	Teacher for the II level Master in Trauma Management and Acute Care Surgery Teacher of this master for medical doctors with different specializations working in the setting of acute management of patients with trauma. • April 22, 2022: “La gestione del paziente con trauma addominale/pelvico «apparentemente» stabile in Pronto Soccorso”. • March 25, 2024: “La gestione del paziente con trauma «apparentemente» stabile in Pronto Soccorso”. Ospedale Metropolitano Niguarda – 3, Piazza dell'Ospedale Maggiore, 20162, Milano (MI), Italy
February 22, 2025	Advanced simulations for emergency medicine residents Facilitator for advanced medical simulation for emergency medicine residents of Università degli Studi di Milano-Bicocca SIMNOVA – 1, Via Lanino, 28100, Novara (NO), Italy.
February 14, 2025	Train The Trainer Teacher of this in-presence theoretical and practical course aimed at training healthcare professionals to prepare and guide simulations for their peers/colleagues or for healthcare students SIMNOVA – 1, Via Lanino, 28100, Novara (NO), Italy.
January 27 and February 3-4, 2025	Peer-Corso (Training for Simulation Facilitators) Teacher of this in-presence theoretical and practical course aimed at training medicine residents to prepare and guide simulations for their peers/colleagues or for students. SIMNOVA – 1, Via Lanino, 28100, Novara (NO), Italy.
Education and training	
November 1, 2021 – July 4, 2025	PhD program in "Medical Sciences and Biotechnologies" - XXXVII cycle Graduated on July 4, 2025 with the thesis entitled “Clinical roles for biomarkers of sepsis-associated acute kidney injury”. Medical doctor working as researcher under the tutoring of Professor Gian Carlo Avanzi and Professor Mattia Bellan in Novara, and co-tutoring of Professor John A. Kellum from University of Pittsburgh. • Laboratory of Emergency/Internal Medicine, Department of Translational Medicine, Università degli Studi del Piemonte Orientale – 17, Via Solaroli, 28100, Novara (NO), Italy • Emergency Department, “Maggiore della Carità” University Hospital – 18, corso Mazzini, 28100, Novara (NO), Italy

June 5-7, 2024	Train The Trainer - Formazione per Facilitatori di Simulazione (Train The Trainer - Training for Simulation Facilitators) Course aimed to people who use simulation/advanced simulation for medical teaching purposes. The course provided teachings about: preparing a different simulation scenario for different target populations (students, residents, nurses, specialized medical doctors, etc.), preparing the simulation rooms and device, handling the briefing of the scenario, guiding the debriefing, etc. SIMNOVA – 1, Via Lanino, 28100, Novara (NO), Italy.
November 1, 2016 – October 31, 2021	Emergency Medicine resident Graduated on November 2, 2021) with <i>70/70 cum laude</i> evaluation with the thesis entitled “Staging of sepsis-associated acute kidney injury using markers of kidney function and stress”. Medical doctor working as resident in the Emergency Department under the supervision of Professors Gian Carlo Avanzi, Pier Paolo Sainaghi and Luigi Mario Castello. - Emergency Department, “Maggiore della Carità” University Hospital – 18, corso Mazzini, 28100, Novara (NO), Italy - Laboratory of Emergency/Internal Medicine, Department of Translational Medicine, Università degli Studi del Piemonte Orientale – 17, Via Solaroli, 28100, Novara (NO), Italy
November 2019 – April 2021	Research Fellowship at the Center for Critical Care Nephrology under the supervision of Professor John A. Kellum. During the fellowship I was involved in different clinical and translational research projects regarding acute kidney injury (AKI) in patients with sepsis and septic shock. Three projects consisted of a retrospective analysis of the data of the “ProCESS” randomized controlled trial (RCT) and I have personally performed the statistical analysis, as well as drafting the manuscripts of the corresponding scientific articles. The first project consisted of a simulation of the protocol treatment algorithm that uses sequential measurements of urinary biomarkers of kidney stress to assess the risk of developing AKI. This algorithm is currently used for a new and ongoing RCT (LAPIS trial) to assign the patients to different levels of treatment according to the trajectories of the biomarkers. The second project was aimed at finding a more precise way to classify AKI stages using biomarkers of kidney stress (so called “cell cycle arrest” biomarkers, TIMP-2 and IGBP7). The project was presented as an abstract both at national and international conferences. The third project was aimed at analyzing the correlation between clinical phenotypes of sepsis and acute and chronic kidney disease. The project was presented as an abstract both at national and international conferences. I was also involved in other projects regarding perioperative renoprotection (published review), unexplained thrombocytopenia in patients with sepsis and AKI, and mechanisms of resistance to AKI. Center For Critical Care Nephrology, Department of Critical Care Medicine at the University of Pittsburgh – 3347 Forbes Ave, Pittsburgh, 15213, PA, USA.
October 9-11, 2019	Course “Advanced Management of Pediatric Trauma” by Trauma Center providers of Meyer “Azienda Ospedaliero-Universitaria”. The course consisted of 3 days (around 28 hours) aimed at improving theoretical and practical skills to properly manage major and minor pediatric trauma both in the out- and in-hospital setting. Meyer Health Campus - Via Cosimo Il Vecchio, 26, 50139 Firenze FI
October 1-4, 2019	Course “Clinical Ultrasound in Emergency” by the teaching school in “Ecografia Clinica in Emergenza-Urgenza” and with the participation/support of SIMEU (Italian society of emergency medicine) and “Azienda Sanitaria Locale” Torino 3. The course consisted of 34 hours Pinerolo (TO), Italy
March 11-12, 2019	PALS – Pediatric Advanced Life Support certification, released by the American Heart Association. SIMNOVA – 1, Via Lanino, 28100, Novara (NO), Italy.
October 2017	Ultrasound FADOI School – Basic course (25 hours).

	FADOI (Federazione delle Associazioni dei Dirigenti Ospedalieri Internisti) - San Lazzaro di Savena, Bologna (BO), Italy.
September 2017	Course "Academic Writing for Doctors" – Writing of scientific/technical paper in English (30 hours). The course run by Professor William Cooke aimed at providing the basis to write academic papers, by analyzing previously published ones and then writing ones on our own. Studio MRZ, Doctor Maria Rosa Zancchi – 37, Via Manzoni, 26100, Cremona, Italy.
November 2015 – October 2016	Winner of the scholarship for the project "Acute heart failure, from the admission to the Emergency Department to the discharge from hospital: pathophysiological, clinical and therapeutic aspects" under the supervision of Professor Gian Carlo Avanzi e Professor Luigi Mario Castello. In this retrospective observational project, we enrolled patients referring to the Emergency Department of our University teaching hospital for acute heart failure. I was actively involved in data collection, statistical analysis and drafting of the scientific paper. Meanwhile, I was involved in translational medicine research, which had as major elements: – refinement of mouse sepsis model (cecal ligation and puncture and cecal slurry peritoneal injection); – TAM receptors and Gas6 determination in different pathological condition (autoimmune glomerulonephritis, sepsis, spontaneous subarachnoid hemorrhage, HCV-related liver cirrhosis); – Fetuin A and RANKL determination in patients with traumatic bone fractures. – evaluation of the role of microvesicles in traumatic brain injury. – writing and submission to the local ethical committee of a prospective observational project on septic patients presenting to the Emergency Department, in order to analyze the diagnostic and prognostic role of several biomarkers. • Emergency Department, "Maggiore della Carità" University Hospital – 18, corso Mazzini, 28100, Novara (NO), Italy • Laboratory of Emergency/Internal Medicine, Department of Translational Medicine, Università degli Studi del Piemonte Orientale – 17, Via Solaroli, 28100, Novara (NO), Italy
April 2016	ACLS – Advanced Cardiac Life Support certification, released by the American Heart Association. SIMNOVA – 1, Via Lanino, 28100, Novara (NO), Italy.
February 2016	National medical license and inscription to state medical board. • Università degli Studi del Piemonte Orientale – 17, Via Solaroli, 28100, Novara (NO), Italy • Ordine di Medici Chirurghi e Odontoiatri di Biella – 2, Via dei Ponderanesi, 13875, Ponderano (BI), Italy.
September 2009 – July 2015	Medical school graduation, 110/110 <i>cum laude with Honors</i> evaluation. School of Medicine - Università degli Studi del Piemonte Orientale. Graduated on July 2015 with the experimental thesis entitled: "Modulation of acute inflammatory response by Gas6/Mer axis in a mouse model of sepsis". Since my third year of University, I attended the "Excellence educational training program" under the supervision of Professor Umberto Dianzani and Gian Carlo Avanzi, which consisted in attending specific training programs on biological and biomolecular research techniques. The aim of this program was to begin to create a scientific background for future medical doctors interested in translational medical research.
September 2013	Internship at the Laboratory of Clinical Chemistry at the Skåne University Hospital, Malmö, Sweden under the supervision of Professor Björn Dahlbäck. Preliminary study of interaction between platelets microvesicles (MVs) and endothelial cells by the means of TAM receptors. We performed platelets MVs isolation and incubation with human endothelial cells, evaluating through a confocal microscope and the Western blot analysis if either an interaction or an activation of endothelial cells by TAM receptor pathway could be observed.

September 2004 – July 2009 Scientific High School Diploma at Liceo Scientifico “Amedeo Avogadro”, Biella, with a 100/100 final mark.

February 2009 B2 First/First Certificate in English (FCE) released by the Cambridge University.
Liceo Scientifico “Amedeo Avogadro”, Biella (BI), Italy.

May 2008 European Computer Driving License (ECDL) released by AICA (Associazione Italiana per l'informatica ed il Calcolo Automatico).
Independent user of personal computer and most common programs (computer essential, online essential, word processing, spreadsheet, IT security, presentation program, online collaboration, databases and browsers)
Liceo Scientifico “Amedeo Avogadro” – 5, Via Galimberti, 13900, Biella (BI), Italy.

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s) **English: fluent;** independent user (intermediate/advanced level)
French: basic/intermediate; independent reading, basic in speaking/listening/writing.

Social skills

- Good ability to interact and work together with both Italian and international clinicians and biologists. Ability to elaborate and create research projects in collaboration with researchers from different medical specializations and different university centers.
- Interaction with patients and their relatives and with all healthcare workers.
- Tutoring of university students in their medical school internship and in their graduate thesis development.

Organizational skills

- Planning of experiments development, reagents use and their purchase.
- Coordination of university students in their medical school internship and in their graduate thesis development (patients' enrolment, database creating, experiment planning and performing, statistical analysis, thesis drafting).

Biotechnical skills and competences

- Mouse sepsis model execution:
 - Cecal Ligation and Puncture: good knowledge.
 - Cecal Slurry peritoneal injection: basic knowledge.
- Enzyme-linked immunosorbent assay (ELISA): good knowledge.
- Realtime-PCR: good knowledge.
- Western blot: basic knowledge.
- Cell cultures: basic knowledge.
- Cytofluorimetry: basic knowledge.
- DNA and RNA extraction: basic knowledge.
- Polymerase chain reaction (PCR): basic knowledge.
- Animal tissue preparation for histological analysis: basic knowledge.

Computer skills and competences

Independent computer user about information processing and searching, informatics communication, content creating and use (text, spreadsheet, database, image and audio files), safety issues and safety programs use (antivirus, firewall).

- Microsoft Word, Excel and Power Point: good knowledge.
- Microsoft Access: basic knowledge.

Statistical competences	Good knowledge of IBM SPSS v26, MedCalc v12.5 and GraphPad Prism v6 software. Basis/beginner user of R software and packages. • Independent user of most common parametric and non-parametric statistical tests for continuous (T student test, Mann-Whitney test, Wilcoxon test, analysis of variance, Kruskal-Wallis test, etc.) and categorical variables (Chi-square, Fisher exact test) • Intermediate user of Cox proportional-hazard regression, multiple regression and logistic regression models. • Intermediate user of survival analysis (Kaplan-Meier survival curves) and ROC curve analysis. • Beginner user for cluster and imputation analysis.
Annexes	1. List of publications: a) scientific papers; b) books/chapters 2. List of presentations to national or international conferences. 3. Memberships of scientific and medical societies.

Novara, 19/02/2026

 Luca Molinari

1. LIST OF PUBLICATIONS

a. SCIENTIFIC PAPERS

1. Fuhrman DY, Libermann TA, Hukriede NA, **Molinari L**, Parikh SM, Kellum JA, et al. Discovery of a resistant cohort to acute kidney injury: insights from patients with septic shock. *Crit Care*. **2025**;29(1):427.
2. **Molinari L**, Tidswell MA, Al-Khafaji A, Davison D, Galphin C, Kamaluddin E, et al. Organ Failure, Endotoxin Activity, and Mortality in Septic Shock. *Crit Care Explor*. **2025**;7(9):e1308.
3. **Molinari L**, Beltrame M, Loro Piana P, Solidoro P, Castello LM, Patrucco P, Gavelli F. Blunt thoracic trauma in the Emergency Department. *Minerva Respiratory Medicine* **2024** December;63(4):208-20.
4. **Molinari L**, Rio-Pertuz GD, Priyanka P, Smith A, Maggiore JC, Kennedy J, Gomez H, Seymour CW, Kellum JA; ProCESS and ProGReSS-AKI Investigators. Distribution of Acute and Chronic Kidney Disease Across Clinical Phenotypes for Sepsis. *Chest*. **2024** Sep;166(3):480-490. doi: 10.1016/j.chest.2024.03.006.
5. Gómez H, Zarbock A, Pastores SM, Frendl G, Bercker S, Asfar P, Conrad SA, Creteur J, Miner J, Mira JP, Motsch J, Quenot JP, Rimmelé T, Rosenberger P, Vinsonneau C, Birch B, Heskia F, Textoris J, **Molinari L**, Guzzi LM, Ronco C, Kellum JA. Feasibility Assessment of a Biomarker-Guided Kidney-Sparing Sepsis Bundle: The Limiting Acute Kidney Injury Progression In Sepsis Trial. *Crit Care Explor*. **2023** Aug 21;5(8):e0961.
6. **Molinari L**, Landsittel DP, Kellum JA, ProCESS and ProGReSS-AKI Investigators, (2023) Use of kidney injury molecule-1 for sepsis-associated acute kidney injury staging. *Nephrol Dial Transplant*. **2023** May 31;38(6):1560-1563.
7. **Molinari L**, Del Rio-Pertuz G, Smith A, Landsittel DP, Singbartl K, Palevsky PM, Chawla LS, Huang DT, Yealy DM, Angus DC, Kellum JA; ProCESS and ProGReSS-AKI Investigators. Utility of Biomarkers for Sepsis-Associated Acute Kidney Injury Staging. *JAMA Netw Open*. **2022** May 2;5(5):e2212709. doi: 10.1001/jamanetworkopen.2022.12709.
8. Gavelli F, **Molinari L**, Baldrighi M, Salmi L, Mearelli F, Fiotti N, Patrucco F, Airolidi C, Bellan M, Sainaghi PP, Di Somma S, Lupia E, Colonetti E, Muesan ML, Biolo G, Avanzi GC, Castello LM. Are Baseline Levels of Gas6 and Soluble Mer Predictors of Mortality and Organ Damage in Patients with Sepsis? The Need-Speed Trial Database. *Biomedicine*. **2022** Jan 18;10(2):198. doi: 10.3390/biomedicine10020198.
9. Salmi L, Patrucco F, **Molinari L**, Bellan M, Sainaghi PP, Castello LM, (2021) ADAM17 inhibition effects on Mer shedding. *Minerva Biotechnology and Biomolecular Research*. **2021** December; 33(4): 187-195
10. **Molinari L**, Heskia F, Peerapornratana S, Ronco C, Guzzi L, Toback S, Birch R, Beyhaghi H, Kwan T, Kampf JP, Yealy DM, Kellum JA; Sapphire and Protocolized Care for Early Septic Shock (ProCESS) Investigators. Limiting Acute Kidney Injury Progression In Sepsis: Study Protocol and Trial Simulation. *Crit Care Med*. **2021** Oct 1;49(10):1706-1716. doi: 10.1097/CCM.0000000000005061.
11. Bellan M, Quaglia M, Nerviani A, Mauro D, Lewis M, Goegan F, Gibbin A, Pagani S, Salmi L, **Molinari L**, Castello LM, Avanzi GC, Cantaluppi V, Pirisi M, Sainaghi PP, Pitzalis C. Increased plasma levels of Gas6 and its soluble tyrosine kinase receptors Mer and Axl are associated with immunological activity and severity of lupus nephritis. *Clin Exp Rheumatol*. **2021** Jan-Feb;39(1):132-138. doi: 10.55563/clinexprheumatol/xyylza. Epub 2020 Jun 4.
12. **Molinari L**, Sakhuja A, Kellum JA. Perioperative Renoprotection: General Mechanisms and Treatment Approaches. *Anesth Analg*. **2020** Dec;131(6):1679-1692. doi: 10.1213/ANE.0000000000005107.
13. Ballarino P, Cervellin G, Trucchi C, Altomonte F, Bertini A, Bonfanti L, Bressan MA, Carpinteri G, Noto P, Gavelli F, **Molinari L**, Patrucco F, Sainaghi PP, Caristia S, Cavazza M, Gallitelli M, Longo S, Cremonesi P, Orsi A, Ansaldi F, Marino R, Di Somma S, Castello LM, Moscatelli P, Avanzi GC; Great Network Italy. An Italian registry of chest pain patients in the emergency department: clinical predictors of acute coronary syndrome. *Minerva Med*. **2020** Apr;111(2):120-132. doi: 10.23736/S0026-4806.20.06472-1.
14. Castello LM, Baldrighi M, **Molinari L**, Salmi L, Cantaluppi V, Vaschetto R, Zunino G, Quaglia M, Bellan M, Gavelli F, Navalesi P, Avanzi GC, Chiochetti A. The Role of Osteopontin as a Diagnostic and Prognostic Biomarker in Sepsis and Septic Shock. *Cells*. **2019** Feb 18;8(2):174. doi: 10.3390/cells8020174.
15. **Molinari L**, Baldrighi M, Castello LM. Comment on "Copeptin in heart failure: Review and meta-analysis" by Zhong Y et al. *Clin Chim Acta*. **2018** Jul;482:14-15. doi: 10.1016/j.cca.2018.03.023. Epub **2018** Mar 22.
16. Bellan M, Sainaghi PP, Minh MT, Minisini R, **Molinari L**, Baldrighi M, Salmi L, Barbaglia MN, Castello LM, Ravanini P, Avanzi GC, Pirisi M. Gas6 as a predictor of esophageal varices in patients affected by hepatitis C virus related-chronic liver disease. *Biomark Med*. **2018** Jan;12(1):27-34. doi: 10.2217/bmm-2017-0171. Epub **2017** Dec 15.
17. Castello LM, **Molinari L**, Renghi A, Peruzzi E, Capponi A, Avanzi GC, Pirisi M. Acute decompensated heart failure in the emergency department: Identification of early predictors of outcome. *Medicine (Baltimore)*. **2017** Jul;96(27):e7401. doi: 10.1097/MD.0000000000007401.

b. BOOKS/CHAPTERS

1. Kaufman DC, **Molinari L** and Kellum JA. Chapter 104: Acid-Base Balance. In: Hall, Schmidt and Wood's Principles of Critical Care, 5th Edition, edited by G. A. Schmidt, J. P. Kress and I. S. Douglas. McGraw Hill 2023.

2. LIST OF PRESENTATIONS TO NATIONAL OR INTERNATIONAL CONFERENCES

1. Title: "Endotoxin Activity and SOFA scores define risk for death and AKI in Septic Shock (EDEN trial)". Abstract and poster presentation at 43th Vicenza Course on AKI-CRRT-EBPT, June 24-26, 2025.
2. Title: "Thromboelastographic characteristics of anticoagulated patients with major or clinically relevant bleeding undergoing reversal therapy in the Emergency Department". Abstract publication and oral poster presentation at the "ESICM Lives - 36th Annual Congress" (of the European Society of Intensive Care Medicine). Date: October 21-25, 2023.
3. Title: "Distribution of Acute And Chronic Kidney Diseases Across Clinical Phenotypes For Sepsis." Oral poster presentation at 40th Vicenza Course on AKI & CRRT. Date: June 14-16, 2022
4. Title: "Staging of Sepsis-Associated Acute Kidney Injury using Markers of Function and Stress". Oral abstract and ePoster presentation at the international conference "AKI & CRRT 2021 - The 26th International Conference on Advances in Critical Care Nephrology". Winner of "Top Poster Presentation". Date: March 3, 2021. Location: San Diego, CA (USA).
5. Title: "Staging of Sepsis-Associated Acute Kidney Injury using Markers of Function, Stress and Damage". Oral presentation at "AKI Bi-monthly meeting". Date: January 1, 2021. Location: Center for Critical Care Nephrology, Department of Critical Care Medicine at the University of Pittsburgh, PA, USA.
6. Title: "Classification of Sepsis-Associated Acute Kidney Injury using Markers of Function and Stress". Oral abstract presentation at "10th Annual Acute Kidney Injury Symposium". Date October 29, 2020. Location: Center for Critical Care Nephrology, Department of Critical Care Medicine at the University of Pittsburgh, PA, USA.
7. Title "Acute Kidney Injury and Chronic Kidney Disease distribution in the Novel Clinical Phenotypes for Sepsis". Abstract and ePoster presentation at the international conference "American Society of Nephrology - Kidney Week 2020 Reimagined". Date: October 22, 2020. Location: Denver, CO (USA).
8. Title: "Acute Kidney Injury and Chronic Kidney Disease distribution in the Novel Clinical Phenotypes for Sepsis". Oral abstract presentation at "9th Mitchell P. Fink Virtual Scholar Day". Date: June 4, 2020. Location: Department of Critical Care Medicine at the University of Pittsburgh, PA, USA.
9. Title "Una punta di dolore - Un caso clinico di pericardite acuta recidivante". Oral presentation of a clinical case at "Giornate Di Medicina Interna FADOI". Date: May 26, 2018. Location: Hotel NH Torino Centro, Torino, Italy.
10. Title: "Outcome predictors after direct discharge of patients visiting the emergency department for acute heart failure". Oral abstract presentation at the national congress "117° Congresso Nazionale della Società Italiana di Medicina Interna". Date: October 16, 2016. Location: Congress Center Rome Cavalieri, Roma, Italy.

3. MEMBERSHIPS OF SCIENTIFIC AND MEDICAL SOCIETIES.

1. Società Italiana di Medicina Interna (SIMI): member during years 2016 and 2018.
2. Società Italiana di Medicina d'Emergenza-Urgenza (SIMEU): member during years 2017 and 2021.
3. Federazione delle Associazioni dei Dirigenti Ospedalieri Internisti (FADOI): member during years 2017 and 2018.
4. European Society of Intensive Care Medicine (ESICM): member in training during years 2019, 2021 and 2023.
5. American Society of Nephrology (ASN): member during year 2020.