



Marta Caviglia

Nationality: Italian **Date of birth:** 05/08/1988

Phone number: 3406804578

Email: marta.caviglia@med.uniupo.it

Address: Via Augusto Righi 1, 28100, Novara (NO)

ORCID: 0000-0002-4164-4756

Identification code SCOPUS: 56809251900



CURRENT POSITION AND RESPONSIBILITIES

- **Tenure Track Researcher** since January 2026 at the Department of Translational Medicine (DIMET), Scientific Disciplinary Sector MEDS 23/A Anaesthesiology, at the University of Eastern Piedmont.
 - Member of the scientific committee of CRIMEDIM - Center for Research and Training in Disaster Medicine, Humanitarian Aid, and Global Health, University of Eastern Piedmont
 - Member of the Strategic Management Board of the 2nd Level Master Degree EMDM - European Master in Disaster Medicine (University of Eastern Piedmont and Vrije Universiteit Brussels)"
 - Teaching assignment: coordinator and lecturer of the integrated course "Advanced methods for assessment and management of the critically ill patient in intensive care" of the Master's Degree in Nursing and Midwifery Sciences at the University of Eastern Piedmont
 - Teaching assignment: lecturer of the course "Disaster Medicine" within the Master's Degree in Disaster and Health Crisis Management at the University of Eastern Piedmont
 - Teaching assignment: lecturer within the Residency Programme in Anaesthesia, Intensive Care and Pain Medicine at the University of Eastern Piedmont
 - Teaching activities at courses delivered by CRIMEDIM
 - Coordinator and researcher within funded (e.g., Horizon, Pre-Commercial Procurement) and unfunded research projects, and in collaboration with international organisations (e.g. World Health Organization)
 - Main research areas: training in disaster and catastrophe medicine, prehospital response to mass casualty incidents, the role of technology in supporting disaster and mass casualty response, access to care and the role of health systems in resource-limited settings
- **Attending physician** (university-affiliated) since January 2026 at the Anaesthesia and Intensive Care Department of the University Hospital Santi Antonio e Biagio e Cesare Arrigo, Alessandria.

NATIONAL SCIENTIFIC QUALIFICATION (ASN)

Italian National Scientific Qualification (ASN) 2023–2025 – Qualification for appointment as Associate Professor in the academic recruitment field 06/L1 – Anaesthesiology (valid from 09/07/2024 to 09/07/2036).

**WORK EXPERIENCE**

Jan 2026	<p>Tenure Track Researcher</p> <ol style="list-style-type: none"> 1. Department of Translational Medicine, University of Eastern Piedmont 2. CRIMEDIM – Center for Research and Training in Disaster Medicine, Humanitarian Aid, and Global Health; University of Eastern Piedmont, Novara
Jan 2026	<p>Attending physician</p> <p>Appointment through university-hospital agreement at the SCU Anaesthesia and Intensive Care, University Hospital Santi Antonio e Biagio e Cesare Arrigo, Alessandria. Clinical activity: general intensive care.</p>
Nov 2022 – Nov 2025	<p>Type A Researcher</p> <ol style="list-style-type: none"> 3. Department of Translational Medicine, University of Eastern Piedmont 4. CRIMEDIM – Center for Research and Training in Disaster Medicine, Humanitarian Aid, and Global Health; University of Eastern Piedmont, Novara
Nov 2022 – Nov 2025	<p>Attending physician</p> <p>Appointment through university-hospital agreement at SCU Anaesthesia and Intensive Care 1, Emergency and Admission Department, Maggiore della Carità Hospital, Novara</p> <p>Clinical activity: operating theatre, elective and emergency surgery (general surgery, orthopaedics, vascular surgery, thoracic surgery, neurosurgery, urology, ENT, maxillofacial, NORA)</p>
Mar 2020 – Nov 2022	<p>Consultant anesthesiology</p> <p>Department of Anaesthesia and Intensive Care I, Maggiore della Carità Hospital, Novara. Clinical activity: general intensive care, COVID intensive care unit and step-down unit.</p>
Nov 2015 – Nov 2020	<p>Research and Simulation Activities</p> <p>Affiliation with CRIMEDIM – Center for Research and Training in Disaster Medicine, Humanitarian Aid, and Global Health during the Residency Programme in Anaesthesia, Intensive Care and Pain Medicine.</p> <ul style="list-style-type: none"> • Support to research projects in catastrophe medicine and humanitarian aid • Development of virtual reality simulation skills: scenario creation and design of training pathways using XVR software • Development and conduct of full-scale exercises, including debriefing and formative evaluation activities • Field-based activities in operational settings: coordination of activities assigned to CRIMEDIM within the framework of the NEMS project – National Emergency Medical Services in Sierra Leone, which included: a) planning, implementation, and supervision of training activities for NEMS personnel; b) coordination of curriculum development, selection of trainers, and organization of teaching sessions in line with international standards and local needs; c) monitoring training effectiveness, supporting the professional development of staff, data collection, and development of strategic recommendations for the continuous improvement of the emergency healthcare system.
Nov 2014 – Mag 2015	<p>Research Fellowship</p> <p>Graduate research training and improvement fellowship for the implementation of the project “Management of mass casualty incidents and disasters in low and middle income countries: development and evaluation of training programmes” at</p>



CRIMEDIM - Center for Research and Training in Disaster Medicine, Humanitarian Aid, and Global Health; University of Eastern Piedmont, Novara

EDUCATION AND TRAINING

Nov 2018 – Nov 2022	<p>PhD International Doctoral Program in Global Health, Humanitarian Aid and Disaster Medicine, University of Eastern Piedmont and Vrije Universiteit Brussels</p> <ul style="list-style-type: none"> Thesis title: ASSESSMENT OF A NEWLY DEVELOPED PRE-HOSPITAL EMERGENCY MEDICAL SYSTEM IN A LOW-INCOME COUNTRY Supervisors: Prof. Francesco Barone-Adesi, Prof. Luca Ragazzoni, Prof. Ives Hubloue
Nov 2015 – Nov 2020	<p>Residency Programme in Anaesthesia, Intensive Care and Pain Medicine University of Eastern Piedmont, Novara</p> <ul style="list-style-type: none"> Thesis title: IMPROVING ACCESS TO CARE IN SIERRA LEONE: THE ROLE OF THE NEWLY DEVELOPED NATIONAL EMERGENCY MEDICAL SERVICE (NEMS) Supervisor: Prof. Luca Ragazzoni Grade: 60/60 cum laude
Ott 2007 – Lug 2014	<p>Degree in Medicine and Surgery University of Eastern Piedmont, Novara</p> <ul style="list-style-type: none"> Thesis title: EFFECTS OF INTRAOPERATIVE LOW DOSE KETAMINE ON COST OF POSTOPERATIVE PAIN MANAGEMENT AFTER MAJOR SURGERY IN A LOW-RESOURCE ENVIRONMENT Supervisor: Prof. Pierluigi Ingrassia Co-Supervisor: Dr. Luca Ragazzoni Grade: 110/110 cum laude

OTHER TRAINING COURSES

2020	<p>MEDICAL ENGLISH COMMUNICATION in Global Health, Humanitarian Aid and Disaster Medicine American Business English School</p>
2018	<p>Humanitarian Medic Professional Training Course University of Eastern Piedmont & Médecins Sans Frontières</p> <ul style="list-style-type: none"> Distance learning via e-learning platform (three months) Residential course in Novara, Italy (six days) Field placement with Médecins Sans Frontières (three months)
2018	<p>SCIENTIFIC ENGLISH COMMUNICATION American Business English School</p>
2017	<p>Advanced Security in the Field United Nations Department of Safety and Security (UNDSS)</p>
2017	<p>Basic Security in the Field United Nations Department of Safety and Security (UNDSS)</p>
2014	<p>Clinical placement in anaesthesia and intensive care in a low-resource setting (1 month) Makerere University & Mulago Hospital – Kampala, Uganda</p>



2011	Clinical placement in vascular surgery (1 month) Clinical Centre Of Vojvodina – Novi Sad, Serbia
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TEACHING AND INSTRUCTION

Lecturer and coordinator of the integrated course "Advanced methods for assessment and management of the critically ill patient in intensive care" - Master's Degree in Nursing and Midwifery Sciences

Institution: University of Eastern Piedmont

Duration: 2023 – present

Content delivered:

- Advanced methods for assessment and management of the critically ill patient in intensive care: Clinical and nursing assessment and interventions in anaesthesia and intensive care (2ECTS)
- Advanced methods for assessment and management of the critically ill patient in intensive care: Anaesthesiology (1ECTS)

Lecturer within the Master's Degree in Disaster and Health Crisis Management

Institution: University of Eastern Piedmont

Duration: 2025 – present

Content delivered:

- Disaster Medicine (2ECTS)

Lecturer within the Residency Programme in Anaesthesia, Intensive Care and Pain Medicine

Institution: University of Eastern Piedmont

Duration: 2024 – present

Content delivered:

- Anesthesiologia (3ECTS)

Lecturer on the Degree Course in Medicine and Surgery

Institution: University of Eastern Piedmont

Duration 2022 – 2023

Content delivered:

- Medical and surgical emergencies: anaesthesia and intensive care medicine (1ECTS)

Lecturer within the 2nd Level Master "EMDM - European Master in Disaster Medicine"

Institution: University of Eastern Piedmont, Vrije Universiteit Brussels

Duration: 2022 – present

Education manager. This role includes: a) coordination and management of content delivered via e-learning platform and during the residential phase of the course; b) support to the course faculty; c) tutoring and scientific support for students

Content delivered:

- Course Unit Coordinator Module 4b "General Medical Disaster Management – the Riceland Game"
- Course Unit Coordinator Module 7 "Education and Training in Disaster Medicine"

Lecturer within the 2nd Level Master "DAMAGE - Master of Science in Disaster Management and Environmental Impact"

Institution: University IMT Mines Alès (Alès, France)

Duration: 2022 – 2024

Content delivered:

- Prehospital response to Mass Casualty Incidents, module "Healthcare Preparedness and response to Disasters"

Lecturer within the 2nd Level Master "Trauma management and acute care surgery"

Institution: University of Milan, University of Eastern Piedmont and University of Insubria



Duration: 2022

Content delivered:

- Principles of prehospital organisation in mass casualty incidents
- Virtual reality simulation of prehospital mass casualty incident response (workshop)

Member of the Scientific Committee of the inter-university 1st Level Master "ADVANCED SIMULATION IN HEALTHCARE"

Institution: University of Turin and University of Eastern Piedmont.

Duration: 2025 – present

Lecturer within the 1st Level Master "Triage and Disaster Medicine"

Institution: Magna Graecia University of Catanzaro.

Duration: 2025 – present

Content delivered:

- Prehospital triage: aims and algorithms
- New technologies for triage systems in disaster medicine

Lecturer in the First Level Master's Programme in "Emergency Medicine and Critical Care for Nurses"

Institution: University of Eastern Piedmont

Duration: 2024

Content delivered:

- Risposta preospedaliera a maxiemergenza
- Virtual reality simulation of prehospital mass casualty incident response (workshop)

Co-coordinator and lecturer of the course "Mass Casualty Incident Management"

Institution: United Nations Headquarters (NYC) and University of Eastern Piedmont

Duration: 2024 – 2025

Main responsibilities: development, coordination and management of content delivered via e-learning platform and during the residential phase of the course, which aims to provide United Nations non-medical staff with the knowledge and skills necessary to effectively manage a mass casualty incident in the workplace.

Content delivered:

- Basic principles of mass casualty incident response
- HAZMAT emergency management
- Mass casualty triage
- First aid
- Training of Trainers
- Virtual reality simulation of prehospital mass casualty incident management (2 days workshop)

Training Activities Coordinator and Lecturer at NEMS - National Emergency Medical Services (Sierra Leone)

Institution: National Emergency Medical Services (Sierra Leone)

Duration: 2019 – 2021

Main responsibilities: planning, implementation, and supervision of training activities for NEMS personnel (approximately 900 healthcare professionals), coordination of curriculum development, selection of trainers and organization of training sessions, monitoring of training effectiveness, and support for the professional development of healthcare workers.

Lecturer within the advanced course EMT-2 "Approach to trauma and burn patients on mission"

Institution: S.C. Mass Casualty Response 118, Savigliano

Duration: 2024 – present

Content delivered:

- Human Stampede at Mass Gatherings



Lecturer within the TDMT training programme – Training Disaster Medicine Trainers.

Institution: IFMSA - International Federation of Medical Students Associations and University of Eastern Piedmont

Duration: 2015 – present

Content delivered:

- Prehospital management of mass casualty incidents
- Mass casualty triage
- Simulation activities (table-top, virtual reality, full scale exercise)

Lecturer within the DisasterTEAM training programme

Institution: SISM - Italian Secretariat of Medical Students and University of Eastern Piedmont

Duration: 2020 – present

Content delivered:

- Triage in Mass Casualty Incidents

Lecturer within the course “An Efficient Primary Care System in Disaster Preparedness and Response” (5 CME credits)

Institution: Provincial Medical and Dental Association of Novara

Duration: 2023

Content delivered:

- The role of simulation in disaster preparedness for primary care

Lecturer at the course Advanced GNU/Linux and Open Technologies

Institution: Politecnico di Torino

Duration: 2023

Contenuti erogati

- Open source toolkit for emergency management

Lecturer within the programme BeEmTel - Beyond the Emergency Telecare for Non-Communicable Diseases through Simulation Techniques

Institution: University of Eastern Piedmont

Duration: 2022

Content delivered:

- Essential health services during disasters and emergencies: can telemedicine make the difference?

Lecturer at the International Program for Emergency & Disaster Management

Institution: Tel Aviv University (Israel)

Duration: 2021

Content delivered:

- Covid19: Experiences and Lessons Learnt

Lecturer at the course IRC-19 Italian Response to Covid 19 Just in Time Training

Institution: CRIMEDIM, University of Eastern Piedmont and Doctors with Africa CUAMM

Duration: 2020

Content delivered:

- Principles of disaster medicine and public health emergencies

Lecturer at the course SVK Katastrofmedicin

Institution: Karolinska Institute (Sweden)

Duration: 2017 – 2019

Content delivered:

- Response to Mass Casualty Incidents
- Mass Casualty Triage
- Virtual Reality Simulation in Mass Casualty Response

SIMCUP

Institution: SIMNOVA, University of Eastern Piedmont

Duration: 2014 – 2018



- Virtual reality simulation instructor

Lecturer in the CIAEC course - Curso Intensivo de Atuação em Emergência & Catástrofe

Institution: Faro, Portugal

Duration: 2016 – 2017

Content delivered:

- Disaster Medicine Course Unit Coordinator

SUPERVISION AND MENTORING

2025	1st Level Master "Triage and Disaster Medicine" Magna Graecia University of Catanzaro Thesis supervisor for 1 student
2025	Residency Programme in Anaesthesia, Intensive Care and Pain Medicine University of Eastern Piedmont, Novara Supervision of 2 thesis students
2023 - Present	International PhD Programme in Global Health, Humanitarian Aid and Disaster Medicine CRIMEDIM, University of Eastern Piedmont, Novara Supervision of 1 PhD student Mentoring of 3 PhD students
2023 - Present	Master's Degree in Nursing and Midwifery Sciences University of Eastern Piedmont Thesis supervisor for 8 students
2022 - Present	2nd Level Master "EMDM - European Master in Disaster Medicine" CRIMEDIM, University of Eastern Piedmont e REGEDIM, Vrije Universiteit Brussel Thesis supervisor for 7 students
2022 - 2023	Degree Course in Medicine and Surgery University of Eastern Piedmont Thesis supervisor for 1 student



RESEARCH PROJECTS

Funded projects

REACT - Resilience Enhancement of Migrants through Active Community Participation and peer-Training

Funder: Fondazione Cariplo

Budget: 112.000 euro

Duration: 2026-2027

Aim: to strengthen disaster risk reduction by transforming migrants into active agents through the participatory co-creation of self-protection strategies gathered in a toolkit. In parallel, the project aims to develop and validate a replicable participatory methodology for engaging vulnerable populations in disaster risk management.

Role and responsibilities: Principal Investigator

NIGHTINGALE - Novel InteGrated toolkit for enhanced pre -Hospital life support and Triage IN challenGing And Large Emergencies

Funder: European Commission, Horizon 2020 Research and Innovation Programme

Budget: €8.9 million

Duration: 2021-2025

Aim: to design, integrate, test, implement, demonstrate and validate a new technological toolkit to support prehospital response in disaster and mass casualty incident contexts.

Research team: 23 international partners

Role and responsibilities: co-coordinator of the project activities assigned to the University of Eastern Piedmont

- Leader del Work Package 1 - Practitioners Needs & Toolkit Architecture and Design. Coordination of activities assigned to technical and end user partners for requirements definition, design of the Toolkit architecture, development of scenarios and use cases, and social, ethical, and legal assessment of new technologies for major incidents.
- User coordinator: coordination of the end-user community to ensure engagement, needs collection, validation and evaluation of results, ensuring alignment of the developed solutions with real operational practices.
- Task leader – T5.4 Knowledge capitalisation: Systematic Training, Evaluation and Lessons learned. Responsibilities in structuring training and evaluation processes, systematic collection of evidence and best practices, and capitalisation of lessons learned to strengthen the transferability and sustainability of the project results.

Results: the project results, available on the official website <https://www.nightingale-triage.eu/>, were personally presented at five international conferences (see the "Conferences and Congresses" section) and to the European Commission at the *2nd Workshop for Emergency Medical Teams under the Union Civil Protection Mechanism* (26 November 2024, Brussels).

Scientific publications:

1. The Nightingale Consortium, **Caviglia M.** [2025] Bridging Data Gaps in Emergency Care: The NIGHTINGALE Project and the Future of AI in Mass Casualty Management. JMIR. In press
2. Faccincani, S., Athanasiadis, S. C., & **Caviglia, M.** [2024] The European funded project Nightingale: a leap forward in the management of victims of mass casualty incidents and disasters. International Review of the Armed Forces Medical Services. ICMM 2-3_2024
3. Lamine H, Markou-Pappas N, Ragazzoni L, **Caviglia M.** [2024] Key performance indicators and benchmarks in MCI prehospital response using technological tools: a qualitative study assessing the perception of practitioners and tool developers Eur J Trauma Emerg Surg. Published online August 22, 2024. doi:10.1007/s00068-024-02627-3



4. Markou-Pappas N., Lamine H., Ragazzoni L, **Caviglia M.** [2024] Key performance indicators in pre-hospital response to disasters and mass casualty incidents: a scoping review. Eur J Trauma Emerg Surg. 2024. Published online July 11, 2024. doi:10.1007/s00068 -024-02533-8
5. Cuthbertson J, Weinstein ES, Franc JM, ... **Caviglia M.** [2023] Sudden onset disaster mass casualty incident response: A modified Delphi study on triage, pre-hospital life support, and processes Prehospital Disaster Medicine. 2023;38(5):570-580. doi:10.1017/ S1049023X23006337
6. Weinstein ES, Cuthbertson JL, Herbert TL, Voicescu GT, Bortolin M, Magalini S, Gui D, Helou M, Lennquist Montan K, Montan C, Rafalowsky C, Ratto G, Damele S, Bazurro S, Laist I, Marzi F, Borrello A, Fransvea P, Fidanzio A, Yanez Benitez C, Faccincani R, Ragazzoni L, **Caviglia M.** [2023] Advancing the scientific study of prehospital mass casualty response through a Translational Science process: the T1 scoping literature review stage. Eur J Trauma Emerg Surg. 2023;49(4):1647-1660. doi:10.1007/ s00068 -023-02266-0
7. **Caviglia M,** Cuthbertson JL, Sdongos E, Faccincani R, Ragazzoni L, Weinstein E. [2023] An application example of translational science in disaster medicine: From grant to deliverables Int J Disaser Risk Reduction. doi.org/10.1016/j.ijdr.2022.103518
8. Benítez CY, Tilsed J, Weinstein ES, **Caviglia M,** Herman S, Montán C, Achatz G, Cuthbertson J, Ragazzoni L, Sdongos E, Ashkenazi I, Faccincani R. [2022] Education, training and technological innovation, key components of the ESTES-NIGHTINGALE project cooperation for Mass Casualty Incident preparedness in Europe Eur J Trauma Emerg Surg. doi.org/10.1007/s00068 -022-02198-1

I-TRIER: Innovative Triage management system strengthening Resilience and Inter-operability of Emergency medical service

Funder: European Commission, Horizon 2020 Research and Innovation Programme – IProcure Security (Pre-Commercial Procurement)

Budget: €6.7 million

Duration: 2022-2024

Aim: development of a modular and digital triage system for EMS and Civil Protection, integrating command and control, hospital management, victim tracking and health data, with interoperability and secure personal health record management.

Research team: 7 international partners

Role and responsibilities: co-coordinator of the project activities assigned to the University of Eastern Piedmont

- Task leader – T1.3 Scientific and Technical Steering; T3.7 Training and Evaluation Platform; T4.1 Pilot Systems deployment, integration with external systems and users' enrollement. Scientific supervision of solution development, adaptation of functionalities to mass casualty incidents, definition of KPIs, coordination of integration at pilot sites, user support (training).

Results: successful completion of all PCP phases (Phase 1: solution design; Phase 2: prototype development; Phase 3: development and testing of piloting system) and pilot operations in 5 countries (Turkey, Austria, Greece, Italy, Spain) to assess effectiveness, efficiency and user satisfaction of EMS systems. The complete results are available on the official website: <https://www.i-trier.eu/>

MOUNTADAPT – Adaptation solutions to reduce climate change impact on health in the Mountain area

Funder: European Commission, Horizon Europe

Budget: €5.9 million

Duration: 2024 - ongoing

Aim: to strengthen the resilience of health systems against the negative effects of climate change, including extreme weather events, in European Alpine biogeographical regions

Research team: 27 international partners

Role and responsibilities: research team member for project activities assigned to the University of Eastern Piedmont, with a focus on studying the impacts of extreme weather events on the healthcare system and on



the development of evidence based guidelines and training packages for health system preparedness in alpine regions. Results: project currently under development (official website: <https://mountadapt.eu/>)

PREPSHIELD – Preparedness for Society in Health Crises and Disasters

Funder: European Commission, Horizon Europe

Budget: €3.9 million

Duration: 2024 - ongoing

Aim: to promote a holistic and citizen-centred approach to preparedness and management of health crises and disasters

Research team: 27 international partners

Role and responsibilities: research team member for project activities assigned to the University of Eastern Piedmont, with a focus on the development of a set of best practices for healthcare crisis management, including the preparedness phase, based on needs analysis and intended for subsequent testing through a table top exercise.

Results: project currently under development (official website: <https://prepshield-project.eu>)

National Emergency Medical Service (NEMS)

Funder: World Bank

Budget: \$13 million

Duration: 2017 - 2020

Aim: creation and implementation of the first national prehospital emergency system in Sierra Leone

Research team: CRIMEDIM-UPO, Medici per l’Africa CUAMM, Regione Veneto, Ministry of Health and Sanitation of Sierra Leone

Role and responsibilities:

- On site coordination of activities assigned to CRIMEDIM during 2019–2020, including a) planning, implementation, and supervision of training activities for NEMS personnel; b) training manager responsibilities, including coordination of curriculum development, selection of trainers, and organization of teaching sessions in line with international standards and local needs; c) monitoring training effectiveness, supporting the professional development of staff, data collection, and development of strategic recommendations for the continuous improvement of the emergency healthcare system.
- Principal investigator of the evaluation of the impact of NEMS on the healthcare system of Sierra Leone, within the framework of the International Doctoral Program in Global Health, Humanitarian Aid and Disaster Medicine (University of Eastern Piedmont and Vrije Universiteit Brussels). Results: implementation of a national emergency service with a fleet of 81 ambulances distributed across the country’s districts and coordinated by an operational centre located in the capital. The staff, comprising 450 paramedics, 450 ambulance drivers and 20 dispatch operators, underwent initial training and a series of refresher sessions, with specific focus on mass casualty incident management. The project results were personally presented at four international conferences (see the “Conferences and Congresses” section). <https://crimedim.uniupo.it/first-national-prehospital-emergency-medical-system-for-sierra-leone>

Scientific publications:

- Shafiq Y, **Caviglia M**, Jueh Bah Z, Tognon F, Orsi M, K Kamara A, Claudia C, Moses F, Manenti F, Barone -Adesi F, Sessay T. [2024] Causes of maternal deaths in Sierra Leone from 2016 to 2019: analysis of districts’ maternal death surveillance and response data BMJ Open. 2024 Jan 12;14(1):e076256. doi: 10.1136/bmjopen -2023-076256.
- Guarino G, Barnabucci I, Bibbio D, **Caviglia M**, Jambai A, Putoto G, Ragazzoni L, Tognon F, Vandy MJ, Barone -Adesi F, Schmid M. [2022] A Data -Based System for the Optimization of Emergency Medical Services Allocation in Rural Countries 022 IEEE Symposium on Computers and Communications (ISCC), Rhodes, Greece, 2022 pp. 1 -4. doi: 10.1109/ISCC55528.2022.9912928
- **Caviglia M**, da Silva -Moniz JA, Venturini F, Jambai A, Vandy MJ, Wurie AR, Sartie MT, Putoto G, Ragazzoni L. [2022] Response to mass-casualty incidents and outbreaks: a prehospital disaster



training package developed for the National Emergency Medical Service in Sierra Leone. Prehosp Disaster Med. 2022 Jul 21:1 -5. doi: 10.1017/S1049023X22001029. Epub ahead of print. PMID: 35861110.

- **Caviglia M**, Putoto G, Conti A, Tognon F, Jambai A, Vandi MJ, Youkee D, Buson R, Pini S, Rosi P, Hubloue I, Della Corte F, Ragazzoni L, Barone -Adesi F. [2021] Association between Ambulance Prehospital Time and Maternal and Perinatal Outcomes in Sierra Leone: a Countrywide Study. BMJ Global Health. 2021 10.1136/bmjgh -2021-007315
- **Caviglia, M.**; Dell'Aringa, M.; Putoto, G.; Buson, R.; Pini, S.; Youkee, D.; Jambai, A.; Vandy, M.J.; Rosi, P.; Hubloue, I.; Della Corte, F.; Ragazzoni, L.; Barone -Adesi, [2021] Improving Access to Healthcare in Sierra Leone: The Role of the Newly Developed National Emergency Medical Service F. Int. J. Environ. Res. Public Health 2021, 18, 9546. <https://doi.org/10.3390/ijerph18189546>
- Ragazzoni L*, **Caviglia M***, Rosi P, Buson R, Pini S, Merlo F, Della Corte F, Vandy MJ, Jambai A, Putoto G. [2021] Designing, Implementing, and Managing a National Emergency Medical Service in Sierra Leone . Prehosp Disaster Med. 2020 [published online ahead of print, 2020 Dec 1]. Prehosp Disaster Med. 2020;1 -6.
- **Caviglia M**, Buson R, Pini S, Jambai A, Vandy MJ, Venturini F, Rosi P, Barone -Adesi F, Della Corte F, Ragazzoni L, Putoto G. [2020] The National Emergency Medical Service Role During the COVID - 19 Pandemic in Sierra Leone. Prehosp Disaster Med. 2020 Sep 22:1 -5. doi: 10.1017/S1049023X20001211. Epub ahead of print. PMID: 32959740; PMCID: PMC7545255.

NO-FEAR -Network Of practitioners For Emergency medical systems And cRitical care

Funder: European Commission

Budget: €3.5 million

Duration: 2018 - 2023

Aim: establishment of an active pan European network of practitioners, policy makers, service providers, and academic institutions in the field of security, aimed at sharing knowledge, experiences, and needs, and overcoming the current fragmentation of emergency healthcare systems.

Research team: 18 international partners

Role and responsibilities: research team member for project activities assigned to the University of Eastern Piedmont, with a focus on the development of a workshop on the state of the art in education and training in disaster medicine.

Results: <https://crimedim.uniupo.it/no-fear>

TEAMS - Training for Emergency Medical Teams and European Medical Corps

Funder: European Commission

Budget: 695.906 euro

Duration: 2017 - 2018

Aim: development of a standardized and validated training programme for medical response teams in disaster and humanitarian emergencies.

Research team: 7 international partners

Role and responsibilities: research team member for project activities assigned to the University of Eastern Piedmont, with a focus on the design and development of the training package "Responding to a Mass Casualty Incident".

Results: <https://www.teamsproject.eu/>

TEAMS 2 - Training of Trainers for Emergency Medical Teams and European Medical Corps

Funder: European Commission

Budget: 334.724 euro

Duration: 2018 - 2019

Aim: development of a train the trainers programme for medical response teams in disaster and humanitarian emergencies.

Research team: 7 international partners



Role and responsibilities: research team member for project activities assigned to the University of Eastern Piedmont, with a focus on the design and development of the training package "Train the Trainers".

Results: <https://www.teamsproject.eu/>

TEAMS 3 - Training of Trainers for Emergency Medical Teams and European Medical Corps

Funder: European Commission

Budget: 492.808 euro

Duration: 2020 - 2021

Aim: review and update of the training packages developed within the Teams 1.0 and 2.0 projects, with a particular focus on epidemic management, man-made disasters, and cross border interventions.

Research team: 7 international partners

Role and responsibilities: research team member for project activities assigned to the University of Eastern Piedmont, with a focus on the design and development of the package "Adapting EMT Operations to a Sudden Outbreak".

Results: <https://www.teamsproject.eu/>

THREATS: Terrorist attacks on hospitals: Risk and Emergency Assessment, Tools and Systems

Funder: European Commission

Duration: 2014-2016

Aim: strengthening the resilience of EU hospitals as critical infrastructure by enhancing their protection capabilities and security awareness in relation to terrorist attacks.

Research team: 4 international partners

Role and responsibilities: research assistant for project activities assigned to the University of Eastern Piedmont, with a focus on assessing the preparedness of European hospitals in the event of terrorist attacks

Results: <https://threats.disp-lab.fr/index.html>

TIER - Integrated Strategy for CBRN Threat Identification and Emergency Response

Funder: European Commission

Duration: 2014-2015

Aim: development of a global and integrated strategy for emergency response in the event of chemical, biological, radiological, nuclear, and explosive incidents, based on threat identification and risk assessment.

Research team: 6 international partners

Role and responsibilities: research assistant for project activities assigned to the University of Eastern Piedmont, with a focus on the development of simulation scenarios.

Results: <https://crimedim.uniupo.it/tier>

Other research projects

Trauma Stabilization Points: Evolution, Field Application, and Impact of Prehospital Interventions in Armed Conflict

Duration: 2025 - ongoing

Aim: analysis of the concept of Trauma Stabilisation Points managed by civilian personnel and their contribution to improving prehospital care in conflict settings.

Research team: CRIMEDIM – UPO, World Health Organization, Karolinska Institut

Role and responsibilities: research team member

Scientific publications:

- El Ghouli W, De Silva H, Al-Hajj S, Zimmerman J, **Caviglia M**, von Schreeb J, Pigozzi L, Salio F, Ragazzoni L, Wörnberg MG. Patient Characteristics and Interventions at a Trauma Stabilization Point in Gaza– A Retrospective Analysis. *Conflict and Health* (in press)
- **Caviglia M**, Pigozzi L, Hsiao KH, Abdel Fattah A, Gargavanis A, El Ghouli W, Zimmerman J, von Schreeb J, Ragazzoni L, Salio F. Trauma Stabilization Points in Armed Conflict: Operational Evolution and Strategic Reflections from Mosul to Gaza (in submission)



MEET VENUS - ManagEmEnT of mechanical VENTilation dURING Surgery

Duration: 2026 - ongoing

Aim: international, multicenter, and observational data registry aiming to 1) describe the incidence and types of postoperative pulmonary complications (PPCs), 2) describe patient demographics, baseline characteristics, and intraoperative ventilation management, 3) describe the occurrence of intraoperative adverse events (IAEs), and 4) their associations with PPCs, and 5) assess the practice of intraoperative mechanical ventilation.

Lead Institution: University of Eastern Piedmont

Role and responsibilities: local investigator, AOU SS Antonio e Biagio e Cesare Arrigo (Alessandria)

PROACT - PRObiotics to Actively Counter venTilator associated pneumonia

Duration: 2025 - ongoing

Aim: international, multicenter, randomized controlled trial aiming to evaluate if the administration of probiotic in a population of patients including multi-trauma with head injury or ischemic stroke, or brain hemorrhage may prevent the incidence of ventilator associated pneumonia.

Lead Institution: University of Bari

Role and responsibilities: local investigator, AOU SS Antonio e Biagio e Cesare Arrigo (Alessandria)

Greenhouse Gas Emissions from Halogenated Anaesthetics

Duration: 2024 - 2025

Aim: analysis and quantification of the environmental impact of the use of halogenated anaesthetic gases, with particular attention to greenhouse gas emissions through a series of studies conducted at European, global, and national levels.

Research team: CRIMEDIM – UPO, Agenzia Italiana del Farmaco (AIFA), Public Health Scotland

Role and responsibilities: principal investigator and research team coordinator

Scientific publications:

- **Caviglia M**, Ucciero A, Di Filippo A, Trotta F, McTaggart S, Ragazzoni L., Della Corte F. Barone-Adesi F. Trends in Greenhouse Gas Emissions from Halogenated Anaesthetics in 41 countries, 2013-2023. *Anaesthesia*. 2025. Published online August 6, 2025. doi:10.1111/anae.16709
- **Caviglia M**, Ucciero A, Di Filippo A, Trotta F, McTaggart S, Barone-Adesi F. Greenhouse gas emissions associated with halogenated anaesthetics: the current European landscape. *Br J Anaesth*. 2024;133(6):1492-1494. doi:10.1016/j.bja.2024.03.037
- **Caviglia M**, Ucciero A, Di Filippo A, Trotta F, Barone-Adesi F. Use of halogenated anaesthetics in Italy and their associated carbon footprint: a country-wide study. *Anaesthesia*. 2024;79(1):96-97. doi:10.1111/anae.16140

STARGATE: International obServational sTudy on AiR way manaGement in operAting room and non- operaTing room anestHesia

Duration: 2024 - 2026

Aim: multicenter study aimed at assessing the current incidence of major adverse events during advanced airway management for anaesthesia in patients undergoing elective or emergency surgical procedures, as well as in non-operating room anaesthesia settings. The secondary aim of the study is to analyse current global practices in airway management during anaesthesia.

Lead Institution: Università degli Studi di Torino

Role and responsibilities: local investigator, AOU Maggiore della Carità, Novara

<https://www.stargatestudy.com/>

Triage and Implementation Assessment of an urban ambulance system in Beira, Mozambique

Duration: 2019 - 2020

Aim: reduce hospital referral times for the population of Beira (Mozambique) following Cyclone Idai. The project involved the integration of the SATS triage system into Beira's urban ambulance service, with the aim of optimizing the triage process and ensuring an effective healthcare response to emergencies.

Research team: CRIMEDIM – UPO, Medici con l'Africa CUAMM



Role and responsibilities: supervision of the evaluation of the impact of the SATS system on patient referral flows to hub hospitals

Scientific publications:

- Conti A, Sacchetto D, Putoto G, Mazzotta M, De Meneghi G, De Vivo E, Lora Ronco L, Hubloue I, Della Corte F, BaroneAdesi F, Ragazzoni L, **Caviglia M**. [2022] Implementation of the South African Triage Scale (SATS) in a New Ambulance System in Beira, Mozambique: a Retrospective Observational Study. Int. J. Environ. Res. Public Health 2022, 19, 10298. <https://doi.org/10.3390/ijerph191610298>

Preliminary assessment of the Mosul Trauma Care Plan

Duration: 2017

Aim: preliminary evaluation of the Trauma Care Plan for the Mosul offensive. Analysis of healthcare capacities, available resources, and critical issues in the management of trauma patients. Analysis of field data collection, identification of key operational gaps, and formulation of recommendations to optimize the healthcare response. Collaboration with local and international stakeholders to improve the effectiveness of the emergency medical system in the conflict setting.

Research team: CRIMEDIM – UPO, World Health Organization

Role and responsibilities: field research team member for activities assigned to CRIMEDIM (Erbil, Iraq – April 2017).

Results: WHO report “Preliminary Analysis of Trauma Care Model During the Mosul Offensive”

Effects of intraoperative low dose ketamine on cost of postoperative pain management after major surgery in disaster and humanitarian settings

Duration: 2013-2014

Aim: randomized controlled trial focusing on the effects of low dose intraoperative ketamine on the cost of postoperative pain management after major surgery in disaster and humanitarian settings.

Research team: CRIMEDIM – UPO, Makerere University (Kampala, Uganda)

Role and responsibilities: field research team member for activities assigned to CRIMEDIM (Kampala, Uganda – August 2013 and April 2014), within the framework of the thesis project for the Master’s Degree in Medicine and Surgery.

Scientific publications:

- Ragazzoni L, Kwizera A, **Caviglia M**, Bodas M, Franc JM, Ssemmanda H, Ripoll -Gallardo A, Della -Corte F, Alenyongabirano A. [2019] Intra -operative low-dose ketamine does not reduce the cost of post -operative pain management after surgery: a randomized controlled trial in a low -income country. Afr Health Sci. 2019 Dec;19(4):3127-3135. doi: 10.4314/ahs.v19i4.35. PMID: 32127889; PMCID: PMC7040337.

CONFERENCES AND CONGRESSES

International

World Association for Disaster and Emergency Medicine – WADEM 25

Tokyo, Japan (02-05-2025 to 06-05-2023)

- **Poster Presentation:** Factors affecting the accuracy of prehospital triage application and prehospital scene time in simulated mass casualty incidents

Sixth Emergency Medical Teams Global Meeting report,

Abu Dhabi, United Arab Emirates (05-11-2024 to 07-11-2024)

- **Poster Presentation:** Fresh whole blood: A feasible alternative in disasters and mass casualty incidents? a systematic review and meta -analysis



<p>EUSEM 2024: European Emergency Medicine Congress. Copenhagen, Denmark (13-10-2024 to 16-10-2024)</p> <ul style="list-style-type: none">• <u>Invited speaker</u>: "Enhancing Mass Casualty Incident Response: Technological Innovations and their Challenges in Crisis Management". Session: "Advances in disaster response".
<p>ECTES 24: 23rd European Congress of Trauma & Emergency Surgery Estoril, Portugal (28/04/2024 to 30/04/2024)</p> <ul style="list-style-type: none">• <u>Invited speaker</u>: "Prehospital and hospital triage methods: What suits one works for the other?" Session Disaster & Military Surgery• Moderator in the session "Integrating new technologies in MCIs – Legal, ethical, and societal challenges"
<p>10 Years On: Building the Discipline of Disaster Medicine and Public Health Washington, US (04-12-2023 to 06-12-2023)</p> <ul style="list-style-type: none">• <u>Invited speaker</u>: "Developing wearable (Wristband) and Unmanned Aerial Vehicle (Drone) Advanced Technologies in Mass Casualty Incident (MCI) Response: the NIGHTINGALE PROJECT".
<p>World Association for Disaster and Emergency Medicine – WADEM 23 Killarney, Ireland (09-05-2023 to 12-05-2023)</p> <ul style="list-style-type: none">• <u>Lecturer</u> in the "NO_FEAR: Innovative Training Methods in Disaster Medicine. A Virtual Reality Simulation Training for Prehospital MCI Management" workshop• <u>Oral Presentation</u>: Association Between Ambulance Prehospital Time and Maternal and Perinatal Outcomes in Sierra Leone: a Countrywide Study (Oral Presentation)• <u>Poster Presentation</u>: Response to Mass Casualty Incidents and Outbreaks: a Prehospital Disaster Training Package developed for the National Emergency Medical Service in Sierra Leone
<p>ECTES 23: 22nd European Congress of Trauma and Emergency Surgery – ECTES Ljubljana, Slovenia (07/05/2023 to 09/05/2023)</p> <ul style="list-style-type: none">• <u>Invited speaker</u>: "20 years of teaching disaster medicine: the European Master in Disaster Medicine"
<p>Proceedings of the FIREs webinar 1: Fostering innovative resilience of clinical services to major disasters Webinar Anglia Ruskin University - The National Emergency Medical Service Role During the COVID -19 Pandemic in Sierra Leone. DOI: https://doi.org/10.25411/aru.19204827</p>
<p>12th European Congress on Tropical Medicine and International Health Bergen, Norway (27/09/2021 to 30/09/2021)</p> <ul style="list-style-type: none">• <u>Oral Presentation</u>: Improving access to healthcare in Sierra Leone: the role of the newly developed National Emergency Medical Service (Awarded "Best Oral Presentation")
<p>IPRED IV - International Preparedness & Response to Emergencies and Disasters Tel Aviv, Israel (11/01/2020 to 14/01/2020)</p> <ul style="list-style-type: none">• <u>Oral Presentation</u>: The National Emergency Medical Service (NEMS) Project: implementing the first prehospital emergency medical system in Sierra Leone• Panel member: Israel Trauma Coalition "What are you afraid of, Doctor?"• Member of the IPRED Award Committee
<p>4th Medical Education Conference (MEC) Hong Kong, China (04/05/2018)</p> <ul style="list-style-type: none">• <u>Invited speaker</u>: "Innovative Approaches to Emergency and Disaster Medicine"
<p>EUSEM 2017: European Emergency Medicine Congress. Athens, Greece (22/09/2017 to 26/09/2017)</p> <ul style="list-style-type: none">• <u>Oral Presentation</u>: Education in disaster medicine: the TdmT experience



National

<p>SIAARTI Società Italiana di Anestesia Analgesia Rianimazione e Terapia Intensiva ACE 2024 - WORKSHOP Missione "Mole 24" Turin, Italy (22-04-2024)</p> <ul style="list-style-type: none">• <u>Lecturer</u> "Pain management in polytrauma in high and low resource settings "
<p>Convegno Trauma: Update and Organization. Bologna, Italy (13-10-2024 to 16-10-2024)</p> <ul style="list-style-type: none">• <u>Invited speaker</u>: "Dynamic Scene Assessment"
<p>77° Congresso Nazionale SIAARTI – ICAR E 2023. Rome, Italy (26-10-2023 to 28-10-2023)</p> <ul style="list-style-type: none">• <u>Invited speaker</u>: "Casualty Collection Points and Advanced Medical Post".
<p>SIT 2023 - Società Italiana Telemedicina Bologna, Italy (10/03/2023 to 11/03/2023)</p> <ul style="list-style-type: none">• <u>Invited speaker</u>: "Disaster Medicine & Innovation"
<p>PERC - Pavia Emergency Room Congress Pavia, Italy (24/10/2019 to 25/10/2019)</p> <ul style="list-style-type: none">• <u>Invited speaker</u>: "Research and academic training in real world settings"
<p>77° Congresso Nazionale SIAARTI Venice, Italy (21/10/2014 to 24/10/2014)</p> <ul style="list-style-type: none">• <u>Oral Presentation</u>: Perioperative anesthesia care and its correlation with the professionalization of medical teams deployed in the aftermath of natural and man-made disasters: a systematic literature review

OTHER ROLES

- **Associate Editor: Disaster Medicine and Public Health Preparedness** by the Society for Disaster Medicine and Public Health, Inc [Giu 2023 – Present]
- **Global Young Academy Member** – Selected for membership starting June 2026, 5-year term <https://globalyoungacademy.net/gya-new-members-2026>
- **Reviewer of WHO guidelines** "Medical Evacuation in Emergencies. A guidance for medical teams and specialized care teams". <https://www.who.int/publications/b/71393>
- **Instructional Designer** WHO Afro Training – responsible for the content of the Mass Casualty Management module

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s): English

LISTENING C2 READING C2 WRITING C2 SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user



PUBLICATIONS

1. Brauckmann V, Ringe B, **Caviglia M**. Digital Coordination in Mass Casualty Incidents: A Retrospective Analysis of Prehospital Distribution Times Before and After IVENA- MANV Implementation. *European journal of trauma and emergency surgery: official publication of the European Trauma Society (2026 - in press)*.
2. El Ghouli W, De Silva H, Al-Hajj S, Zimmerman J, **Caviglia M**, von Schreeb J, Pigozzi L, Salio F, Ragazzoni L, Wärnberg MG. Patient Characteristics and Interventions at a Trauma Stabilization Point in Gaza– A Retrospective Analysis. *Conflict and Health* 2026;20(1):53. Published 2026 May 5. doi:10.1186/s13031-026-00795-0
3. Sola, G., Penpa, S., Piceni, G., Bo, G., Cutaia, R., Ventura, L., Cassini, F., Savi, L., Leo, M., Savarese, B., **Caviglia, M.**, Betti, M., Maconi, A., & Cammarota, G. (2026). Letter to Editor: real-world use of cannabis oil for pain management in fibromyalgia. *Journal of anesthesia, analgesia and critical care*, 6(1), 28.
4. Tambini SS, Conti A, **Caviglia M**. Emergency Medical Services Perception of the Use of Wearables in Patient Management During Mass Casualty Incident Management (2025). *Disaster Medicine and Public Health Preparedness*. ;19:e325. doi:10.1017/dmp.2025.10256
5. Franc JM, Verde M, Bonney J, Hung KCK, Cuthbertson J, Raffee LA, Serra E, **Caviglia M**. Applications of Artificial Intelligence-Guided Clinical Decision Support in Disaster Medicine: An International Delphi Study. (2025) *Front. Disaster Emerg. Med.* In press
6. Ulerio JC, Al Khatib M, Aammar B, Ragazzoni L, Barone-Adesi F, **Caviglia M**. Simulation Technology Use in Disaster Medicine Education and Training: A Scoping Review. (2025) *Frontiers in Disaster and Emergency Medicine*. 3:1636285. doi: 10.3389/femer.2025.1636285
7. **Caviglia M.**, Ucciero, A., Di Filippo, A., Trotta, F., McTaggart, S., Della Corte F., Ragazzoni L., Barone-Adesi, F. (2025) Trends in Greenhouse Gas Emissions from Halogenated Anaesthetics in 41 countries, 2013-2023. *Anaesthesia*. Published online August 6, 2025. doi:10.1111/anae.16709
8. The Nightingale Consortium, **Caviglia M**. (2025) Bridging Data Gaps in Emergency Care: The NIGHTINGALE Project and the Future of AI in Mass Casualty Management. *JMIR*.
9. Voicescu GT, Lamine H, Loşonţi AE, Lupan-Mureşan EM, Luka S, Ulerio JG, Ragazzoni L, Corte FD, **Caviglia M**. Monitoring and evaluation in disaster management courses: a scoping review. *BMC Med Educ*. 2025 Feb 6;25(1):188. doi: 10.1186/s12909 -025-06659-0. PMID: 39910476; PMCID: PMC11800627.
10. Faccincani, S., Athanasiadis, S. C., **Caviglia, M**. (2024). The European funded project Nightingale: a leap forward in the management of victims of mass casualty incidents and disasters. *International Review of the Armed Forces Medical Services*. Vol 97/2-3.
11. Ripoll-Gallardo, A.*, **Caviglia, M.***, Ratti, M., Ceriotti, D., Meneghetti, G., Pigozzi, L., Brönstad, M., Ragazzoni, L., & Barone -Adesi, F. (2024). Fresh whole blood: A feasible alternative in disasters and mass casualty incidents? a systematic review and meta-analysis. *Conflict and health*, 18(1), 74. <https://doi.org/10.1186/s13031 -024-00635-z>
12. Weinstein, E. S., Cuthbertson, J., Burkle, F., Wild, H. B., Cole, R., Boyle, T., Ryder, J., Franc, J., Turek, M., O'Mathuna, D., Cascio, W., Westman, A., Verde, M., **Caviglia, M.**, Eisenman, D., Holbrook, E., & Jameson, A. (2024). SDMPH 10-year Anniversary Conference Modified Delphi Study. *Disaster medicine and public health preparedness*, 18, e289. <https://doi.org/10.1017/dmp.2024.251>
13. Carenzo, L., Gamberini, L., Crimaldi, F., Colombo, D., Ingrassia, P. L., Ragazzoni, L., Della Corte, F., & **Caviglia, M**. (2024). Factors affecting the accuracy of prehospital triage application and prehospital scene time in simulated mass casualty incidents. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 32(1), 97. <https://doi.org/10.1186/s13049 -024-01257-3>
14. Lamine, H., Markou-Pappas, N., Ragazzoni, L., & **Caviglia, M**. (2024). Key performance indicators and benchmarks in MCI prehospital response using technological tools: a qualitative study assessing the perception of practitioners and tool developers. *European journal of trauma and emergency surgery:*



- official publication of the European Trauma Society*, 50(5), 2273–2279. <https://doi.org/10.1007/s00068-024-02627-3>
15. Markou-Pappas, N., Lamine, H., Ragazzoni, L., & **Caviglia, M.** (2024). Key performance indicators in pre-hospital response to disasters and mass casualty incidents: a scoping review. *European journal of trauma and emergency surgery: official publication of the European Trauma Society*, 50(5), 2029–2037. <https://doi.org/10.1007/s00068-024-02533-8>
 16. **Caviglia, M.**, Ucciero, A., Di Filippo, A., Trotta, F., McTaggart, S., & Barone -Adesi, F. (2024). Greenhouse gas emissions associated with halogenated anaesthetics: the current European landscape. *British journal of anaesthesia*, 133(6), 1492–1494. <https://doi.org/10.1016/j.bja.2024.03.037>
 17. Shafiq, Y., **Caviglia, M.**, Juhah Bah, Z., Tognon, F., Orsi, M., K Kamara, A., Claudia, C., Moses, F., Manenti, F., Barone-Adesi, F., & Sessay, T. (2024). Causes of maternal deaths in Sierra Leone from 2016 to 2019: analysis of districts' maternal death surveillance and response data. *BMJ open*, 14(1), e076256. <https://doi.org/10.1136/bmjopen-2023-076256>
 18. Ruffini, C., Trentin, M., Corona, A., **Caviglia, M.**, Sechi, G. M., Migliari, M., Stucchi, R., Ragazzoni, L., & Fumagalli, R. (2023). Development and Validation of a New Tool to Improve the Accuracy of the Hospital Mass -Casualty Incident Response Plan Activation: The PEMAAF Score. *Prehospital and disaster medicine*, 38(6), 725–734. <https://doi.org/10.1017/S1049023X23006593>
 19. Bahattab, A., **Caviglia, M.**, Martini, D., Hubloue, I., Della Corte, F., & Ragazzoni, L. (2023). Scenario-Based e- Simulation Design for Global Health Education: Theoretical Foundation and Practical Recommendations. *Journal of medical Internet research*, 25, e46639. <https://doi.org/10.2196/46639>
 20. **Caviglia, M.**, Ucciero, A., Di Filippo, A., Trotta, F., & Barone -Adesi, F. (2024). Use of halogenated anaesthetics in Italy and their associated carbon footprint: a country -wide study. *Anaesthesia*, 79(1), 96–97. <https://doi.org/10.1111/anae.16140>
 21. Cuthbertson, J., Weinstein, E., Franc, J. M., Jones, P., Lamine, H., Magalini, S., Gui, D., Lennquist, K., Marzi, F., Borrello, A., Fransvea, P., Fidanzio, A., Ben ítez, C. Y., Achaz, G., Dobson, B., Malik, N., Neeki, M., Pirralo, R., Castro Delgado, R., Strapazzon, G., ... **Caviglia, M.** (2023). Sudden-Onset Disaster Mass-Casualty Incident Response: A Modified Delphi Study on Triage, Prehospital Life Support, and Processes. *Prehospital and disaster medicine*, 38(5), 570–580. <https://doi.org/10.1017/S1049023X23006337>
 22. Weinstein, E. S., Cuthbertson, J. L., Herbert, T. L., Voicescu, G. T., Bortolin, M., Magalini, S., Gui, D., Helou, M., Lennquist Montan, K., Montan, C., Rafalowsky, C., Ratto, G., Damele, S., Bazurro, S., Laist, I., Marzi, F., Borrello, A., Fransvea, P., Fidanzio, A., Benitez, C. Y., ... **Caviglia, M.** (2023). Advancing the scientific study of prehospital mass casualty response through a Translational Science process: the T1 scoping literature review stage. *European journal of trauma and emergency surgery: official publication of the European Trauma Society*, 49(4), 1647–1660. <https://doi.org/10.1007/s00068-023-02266-0>
 23. Yánez Benítez, C., Tilsed, J., Weinstein, E. S., **Caviglia, M.**, Herman, S., Montán, C., Achatz, G., Cuthbertson, J., Ragazzoni, L., Sdongos, E., Ashkenazi, I., & Faccincani, R. (2023). Education, training and technological innovation, key components of the ESTES-NIGHTINGALE project cooperation for Mass Casualty Incident preparedness in Europe. *European journal of trauma and emergency surgery: official publication of the European Trauma Society*, 49(2), 653–659. <https://doi.org/10.1007/s00068-022-02198-1>
 24. Conti, A., Sacchetto, D., Putoto, G., Mazzotta, M., De Meneghi, G., De Vivo, E., Lora Ronco, L., Hubloue, I., Della Corte, F., Barone -Adesi, F., Ragazzoni, L., & **Caviglia, M.** (2022). Implementation of the South African Triage Scale (SATS) in a New Ambulance System in Beira, Mozambique: A Retrospective Observational Study. *International journal of environmental research and public health*, 19(16), 10298. <https://doi.org/10.3390/ijerph191610298>
 25. Guarino G, Barnabucci I, Bibbio D, **Caviglia M**, Jambai A, Putoto G, Ragazzoni L, Tognon F, Vandy MJ, Barone - Adesi F, Schmid M. A Data-Based System for the Optimization of Emergency Medical Services Allocation in Rural Countries. 022 IEEE Symposium on Computers and Communications (ISCC), Rhodes, Greece, 2022 pp. 1 -4. doi: 10.1109/ISCC55528.2022.9912928



26. **Caviglia, M.**, da Silva-Moniz, J. A., Venturini, F., Jambai, A., Vandy, M. J., Wurie, A. R., Sartie, M. T., Putoto, G., & Ragazzoni, L. (2022). Response to Mass-Casualty Incidents and Outbreaks: A Prehospital Disaster Training Package Developed for the National Emergency Medical Service in Sierra Leone. *Prehospital and disaster medicine*, 37(5), 701–705. <https://doi.org/10.1017/S1049023X22001029>
27. Voicescu GT, Valente M, Della Corte F, Becerril M, Ragazzoni L, **Caviglia M.** Medical students' education in Disaster Medicine: a systematic literature review of existing curricula. *Int J Disas Risk Reduct.* 2022
28. **Caviglia, M.**, Putoto, G., Conti, A., Tognon, F., Jambai, A., Vandy, M. J., Youkee, D., Buson, R., Pini, S., Rosi, P., Hubloue, I., Della Corte, F., Ragazzoni, L., & Barone -Adesi, F. (2021). Association between ambulance prehospital time and maternal and perinatal outcomes in Sierra Leone: a countrywide study. *BMJ global health*, 6(11), e007315. <https://doi.org/10.1136/bmjgh-2021-007315>
29. **Caviglia, M.**, Dell'Aringa, M., Putoto, G., Buson, R., Pini, S., Youkee, D., Jambai, A., Vandy, M. J., Rosi, P., Hubloue, I., Della Corte, F., Ragazzoni, L., & Barone -Adesi, F. (2021). Improving Access to Healthcare in Sierra Leone: The Role of the Newly Developed National Emergency Medical Service. *International journal of environmental research and public health*, 18(18), 9546. <https://doi.org/10.3390/ijerph18189546>
30. Ragazzoni, L.*, **Caviglia, M.***, Rosi, P., Buson, R., Pini, S., Merlo, F., Della Corte, F., Vandy, M. J., Jambai, A., & Putoto, G. (2021). Designing, Implementing, and Managing a National Emergency Medical Service in Sierra Leone. *Prehospital and disaster medicine*, 36(1), 115–120. <https://doi.org/10.1017/S1049023X20001442>
31. **Caviglia, M.**, Buson, R., Pini, S., Jambai, A., Vandy, M. J., Venturini, F., Rosi, P., Barone -Adesi, F., Della Corte, F., Ragazzoni, L., & Putoto, G. (2020). The National Emergency Medical Service Role During the COVID -19 Pandemic in Sierra Leone. *Prehospital and disaster medicine*, 35(6), 693–697. <https://doi.org/10.1017/S1049023X20001211>
32. Ragazzoni, L., Barco, A., Echeverri, L., Conti, A., Linty, M., **Caviglia, M.**, Merlo, F., Martini, D., Pirisi, A., Weinstein, E., Barone -Adesi, F., & Della Corte, F. (2021). Just-in-Time Training in a Tertiary Referral Hospital During the COVID-19 Pandemic in Italy. *Academic medicine: journal of the Association of American Medical Colleges*, 96(3), 336–339. <https://doi.org/10.1097/ACM.00000000000003575>
33. Ragazzoni, L., Kwizera, A., **Caviglia, M.**, Bodas, M., Franc, J. M., Ssemmanda, H., Ripoll -Gallardo, A., Della -Corte, F., & Alenyo-Ngabirano, A. (2019). Intra-operative low-dose ketamine does not reduce the cost of post -operative pain management after surgery: a randomized controlled trial in a low -income country. *African health sciences*, 19(4), 3127–3135. <https://doi.org/10.4314/ahs.v19i4.35>
34. Ragazzoni, L., Conti, A., Dell'Aringa, M., **Caviglia, M.**, Maccapani, F., & Della Corte, F. (2020). A nationwide peer- assisted learning program in disaster medicine for medical students. *European journal of emergency medicine: official journal of the European Society for Emergency Medicine*, 27(4), 290 – 297. <https://doi.org/10.1097/MEJ.0000000000000668>
35. Bodas, M., Giuliani, F., Ripoll-Gallardo, A., **Caviglia, M.**, Dell'Aringa, M. F., Linty, M., Della Corte, F., & Ragazzoni, L. (2019). Threat Perception and Public Preparedness for Earthquakes in Italy. *Prehospital and disaster medicine*, 34(2), 114–124. <https://doi.org/10.1017/S1049023X19000116>
36. Ragazzoni L, **Caviglia M**, Conti A, Maccapani F, Della Corte F. Disaster Medicine teaching at Italian Universities: the present teaching experiences and future developments. *Medicina e Chirurgia*, 74: 3372 -3375, 2017. DOI:10.4487/medchir2017-74-3

Novara, 24.04.2026

Marta Caviglia