

CURRICULUM VITAE

MAURIZIO CECCONI MD

FRCA FICM MD (res)

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A. PERSONAL DETAILS AND CAREER HISTORY

A.1 PERSONAL DETAILS

A.1.1 Personal details and address

Name	Dr Maurizio Cecconi
Address	Via Manzoni, 56 Rozzano 20089 Milan, Italy
Contact details	Email: Maurizio-cecconi@hunimed.eu Phone: 0282247039
Date of birth	27 th December 1977
Nationality	Italian
GMC	Full registration number 6118600
MDU	Number 526088I

A.1.2 Qualifications

2015	Harvard Medical School Global Clinical Scholar Research Training Program
2012	FICM (Fellow of the Faculty of Intensive Care Medicine)
2012	FRCA (Fellow of the Royal College of Anaesthetists)
2006	Doctoral degree (MD (res), University of London)
2006	CCT (Specialty Completion) in Anaesthesia and Intensive Care
2002	Medical Degree MD Italy

A.1.3 Awards or other academic distinctions

2021	European Leadership award as ESICM President (Gestein European Health Forum)
2020	Knight OMRI, Motu Proprio Italian Republic President
2020	Nomination Key figures COVID-19 Pandemic (JAMA Network)
2018	Silver Griffin, Career Award Alumni University of Udine
2017	Full Professorship License (National Scientific Qualification ASN from Italian Ministry of Education and Research)
2015	Opening Lecture Italian Society of Anaesthesia and Intensive Care (SIAARTI)
2015	Readership (Associate Professorship) St George's University of London
2015	Commendation Harvard Medical School GCSRT Program
2014	Best Abstract European Society of Intensive Care Medicine (Barcelona 2014)
2014	Associate Professorship License (National Scientific Qualification ASN from Italian Ministry of Education and Research)
2006	Top marks CCT (Specialty Completion) in Anaesthesia and Intensive Care (70/70 summa cum laude) Udine University
2006	Finalist for the Intensive Care Society Gold Medal Award for young investigators

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- 2002 Hippocratic Oath speaker, Udine (Italy) medical chamber (youngest doctor with top marks of the year)
- 2002 Top marks Italian medical degree (110/110 summa cum laude) Udine University

A.1.4 Current Positions

- Since 2018 Appointed Professor and Head of the Department of Anaesthesia and Intensive Care of Humanitas Research Hospital and Hunimed, Rozzano Italy
- Director, School of Anaesthesia and Intensive Care, Humanitas University
- Vice President MEDTEC School, Humanitas University, Pieve Emanuele, Italy
- President of ESICM (European Society of Intensive Care Medicine), Bruxelles
- Head of the Postgraduate School of Anaesthesia, Humanitas University

A.2 SUMMARY OF EDUCATION

A.2.1 Medical training

2014-2015	Harvard Medical School, Boston, USA - Global Clinical Scholar Research Training Program.
2006-2010	Doctoral Degree "Doctor of Medicine" MD(res) - University of London. I have been awarded a doctoral degree MD(Res) by the St George's University of London" in 2010 with the thesis "Evaluation of Novel methods for the determination of cardiac output in critically ill patients". Several publications have been published from this work, since my registration in 2006.
2002-2006	Specialist training in Anaesthesia and Intensive Care - School of Anaesthesia and Intensive Care, University of Udine, Italy. Final marks and Completion of CCT 70/70 summa cum laude
Jan-Jul 2001	Erasmus scholarship - School of Medicine, Autonoma University of Madrid, Spain
1996-2002	Medical school - School of Medicine and Surgery, University of Udine, Italy. Finalmarks 110/110 summa cum laude and youngest graduate with top marks Education - Liceo Scientifico G. Marinelli Udine, Italy. Final marks 58/60

A.3 SUMMARY OF MEDICAL AND PROFESSIONAL EXPERIENCE + VOLUMES OF ACTIVITY

Summary of Activities and Volume

I am the appointed Professor and Head of Department of Humanitas Research Hospital and Hunimed, Rozzano Italy.

Appointment year	Position	Volumes
2018-	Appointed Professor and Head of Department of Anaesthesia and Intensive Care Humanitas Research Hospital and Hunimed, Rozzano Italy	20000 General anaesthetics per year. 1500 ICU admissions per year
2016-2018	Head of South West London Faculty of Intensive Care SGUH, ESTH	
2016- 2018	Clinical Director Adult Critical Care SGUH (clinical responsibility for 5100 cases per year in 60 beds)	5100 cases per year, General, Cardiac and Neuro Intensive Care
2015 – 2016	Clinical Lead Epsom and St Helier's ICU ESTH (20 beds 1300cases per year)	1300 cases per year
2008-2018	Consultant in Anaesthesia and Intensive Care, St George's Hospital, London, UK (first operator in anaesthesia in more than 2000 anaesthetics for major surgery in the last 5 years, Consultant on call for General Intensive Care Unit admitting 1700 cases a year, directly involved with 8500 cases in the last 5 years)	400 General Anaesthesia cases per year + 1700 General Intensive Care cases per Year

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2007-2008	Consultant in Anaesthesia and Intensive Care, Department of Anaesthesia and Intensive Care, Ospedale Santa Maria della Misericordia, Udine, Italy	500 General Anaesthesia cases per year + 250 General Intensive Care Cases per year
2005-2007	Clinical Fellow, General Intensive Care, St George's Hospital, London, UK	1700 General Intensive Care cases per Year
2005	Honorary Clinician, General Intensive Care, St George's Hospital London, UK	1700 General Intensive Care cases per Year
2002-2005	Trainee, Department of Anaesthesia and Intensive Care, School of Anaesthesia and Intensive Care Medicine, University of Udine, Udine, Italy	500 General Anaesthesia cases per year + 250 General Intensive Care Cases per year
2002-2001	Intern Department of Medicine, University of Udine, Udine, Italy Intern Department of General Surgery, University of Udine, Udine, Italy Department of Paediatrics, University of Udine, Udine, Italy	NA

B. RESEARCH FUNDING, OTHER FUNDING AND CHIEF/PRINCIPAL INVESTIGATOR ROLES

Competitive Grants and Fundin

Year awarded	Title	Amount
32019	"ALICIA" Artificial Intelligence in intensive Care, 5 x1000 funds	€185000
2017	ESICM Baxter Award, Senior Investigator and Supervisor (Research Fellow Victoria Bennett) Impact of different rates of fluid administration on the percentage of fluid responders in post surgical intensive care patients	€ 20000
2015	National Institute of Academic Anaesthesia. Protective Lung Strategy in Emergency Laparotomy	£ 8,100
2014	research sabbatical of 6 months for the project: Saline vs Balanced Intravenous Crystalloids in Critically Ill Patients (£ 20000).	£20000
2013	European Society of Intensive Care Medicine for the FENICE study	€50,000
2012	CLRN South London Contingency Funding for NIHR studies	£500,000
2006	Italian Society of Anaesthesia and Intensive Care, Young Investigator Award	€6,000

Co-PI Funding: Local Co-PI for ANTHEM Consortium, National Recovery and Resilience Plan, the total award for the consortium 9.938.252,00 €

National Coordinator / Local Principal Investigator for Multicentre Studies attracting local funding

	Year	Title	Status
The	2020	REMAP-CAP Italian Scientific Coordinator	ongoing
	2017	VIP- POETICS Chief Investigator UK	ended
	2013	IC-GLOSSARI study (Multicentre ESICM Sepsis Study UK National coordinator)	ended
	2013	IMPRESS study (Multicentre ESICM Sepsis Study UK National coordinator)	ended
	2012-2014	Vanish (Multicentre approved NIHR Study on shock and vasopressin PI, Top Recruiter in the UK)	ended
	2012-2013	POM-O (Multicentre NIHR study on vascular surgery), Local co-PI	ended
	2011-2012	HARP 2 (Multicentre NIHR study on ARDS) , Local PI	ended
	2011-2012	ELOISE (Multicentre study on ICU outcome), Local PI, UK coordinator	ended
	2011	EuSOS (European study on surgical outcomes), Local PI	ended
	2011	Prowess 2 Local Co-PI	ended
	2011-2010	FIRE Study (NIHR portfolio study)	Ended

estimated institution income for these studies has been more than 600,000 euros.

Investigator Initiated Studies

Year awarded	Title	Amount
2020	BRAIN-PROMISE investigator initiated study MEDTRONIC	€146000
2020	REVEAL study MSD investigator initiated study	€34000
2019	MEDTRONIC nvestigator Initiated Grant: NIRS in high risk surgical patients (plus research material)	\$50,000 + equipment
2014	Covidien Investigator Initiated Grant: NIRS in high risk surgical patients (plus research material)	\$50,000 + equipment
2011	Lilly Prowess 2 (Local Co-Investigator)	£70,000

Non-competitive funding

2020-2021	ESICM C19SPACE EU commission finding (Main Applicant as ESICM President) SANTE/2020/B/041	€2.400,000
2010-2014	Unrestricted educational grants (total)	£100,000

C NATIONAL AND INTERNATIONAL ACADEMIC ROLES

International Societies positions

2020 current	ESICM President
2016-2018	ESICM Chair Division Scientific Affairs
2014-2016	Clinical Lead Division 6 South London Clinical Research Network South London (20000 patients enrolled in interventional and observational studies under my leadership)
2014 onwards	ESICM member of the executive committee
2014-2016	ESICM Chair of the Editorial and Publishing Committee
2011-2012	ESICM Co-chairman of the research awards committee
2011-2014	ESICM Chair of the Cardiovascular Dynamics Section
2011-2014	ESICM Congress committee member
2010-2011	ESICM Member of the Research Committee
2011-2014	Central London Research Network Co-chair CLRN for Anaesthesia South London
2010-2011	ESICM Deputy-chair of the cardiovascular dynamic section

Awarded Fellowships for Achievements and Contributions in the Field in the United Kingdom

2012	Fellowship of the Foundation of Intensive Care Medicine fellow
2012	Fellowship of the Royal College of Anaesthetists

Other memberships

2005-present	ESICM - Voting member of Cardiovascular Dynamic Section since 2005, Member of Cardiovascular Dynamic Section, Perioperative Intensive Care, Active Participant in ESICM Section Meetings, Attendee at all ESICM congresses since 2005
2002-present	SIAARTI member (Società italiana di Analgesia, Anestesia, Rianimazione e Terapia Intensiva)
2018	Society of Critical Care Medicine

Journal work

Editor

I have been an associate Editor for

- Intensive Care Medicine from 2011 to 2018
- Journal of Critical Care since 2018.

I have been an Advisory Board member

- Member of the Advisory Board of Critical Care since 2018
- Member of the Advisory Board of Signae Vitae 2011 - 2015
- Member of the Advisory Board of Perioperative Medicine 2012 - Present
- Member of the Advisory Board of Critical Care 2013-Present
- Faculty member of the evaluation board for critical care & emergency medicine. Faculty of 1000 medicine since 2007

Reviewer

I am a reviewer for:

- Lancet
- JAMA
- PlosONE
- Critical Care
- Critical Care Medicine
- Anesthesia & Analgesia
- Minerva Anesthesiologica
- Journal of Critical Care
- Signae Vitae
- British Journal of Anaesthesia
- Intensive Care Medicine

D CLINICAL RESEARCH AND ACADEMIC PROFESSIONAL STANDING: NARRATIVE

Standing and recent achievements

- I am a world-recognized anaesthetist and intensivist. I have one of the largest international networks of research and scientific collaborations in anaesthesia and intensive care. I am described as an influential inclusive leader in my field, clinically and scientifically. I have studied and worked in different countries and secured senior positions at a young age in any setting where I worked. One of my most significant strengths is motivating and leading teams towards a common goal and creating networks and bridges locally and internationally.
- I have been one of the youngest ever NHS consultants and one of the youngest Full Professors and Head of Department in Europe. I was also the youngest President of the European Society of Intensive Care Medicine.
- At 45, with nearly 20 years of experience in leadership positions, I have extensive experience and the skills to work in different environments and cultures and lead effective teams to achieve ambitious goals for improving patient care and research. I have managed Departments with budgets over 30 million euros and with more than 500 staff members between doctors, nurses, and other allied healthcare professionals, as well as one of the largest global scientific societies during the Pandemic.
- I have continuously produced high-quality research and published in high-impact factor journals in Anaesthesia and Intensive Care Medicine. I have more than 300 indexed publications in PubMed, with most research articles as first or last author. In addition, I have a g scholar h index of 78, Scopus 64. See the separate attachment for a list of publications.
- I have always been able to secure funding for my institutions in the form of competitive grants, investigator-initiated grants, unrestricted educational grants, and educational courses. The total volume of projects I have directly led, or being the PI, has been more than 4 million euros. I have been Co-applicant in projects for a total volume of more than 9 million euros.
- I am the Clinical Director of the Department of Intensive Care at Humanitas Research Hospital and a Full Professor at Humanitas University. In less than five years, I have transformed the Department into one of the most known in Europe, with one of the highest academic outputs in Anesthesia and Intensive Care.
- Here I have also restructured the organisation and optimised several clinical pathways. For example, I completely reinvented the preoperative assessment, bringing a personalised precision medicine approach thanks to pre-screening scores, algorithms and customised tests. This has reduced time necessary to assess patients, has led to fewer tests, and created better risk profiling with a trend towards reducing postoperative complications. This process was a finalist in the 2022 Value-Based Healthcare awards in the Netherlands and won the Italian Lean Award in 2023.
- I have set up, and I am the Vice President of MEDTEC, a joint medical degree – biomedical engineering degree (between Humanitas University and Politecnico of Milan), one of the first programme of this kind in the world.
- I deliver more than 60 hours of undergraduate teaching a year and I also teach at postgraduate schools.
- I am the Director of the Postgraduate School in Anaesthesia and Intensive Care of Humanitas University, managing a faculty of 40 people and a total of 70 trainees.
- I have been President of the European Society of Intensive Care Medicine since 2020. I started worldwide webinars beginning of the pandemic which have been recognised as one of the fastest and most important responses for the clinical and scientific community. As ESICM President, my mandate fell during

the most challenging time in Society. I lead a fast and profound transformation of the society's structure. I was instrumental in leading the digital transformation of society to connect the global healthcare community. In addition, I was able to increase society's activities and make them sustainable thanks to the development of a new and more efficient the financial model.

- I also transformed ESICM, making it more diverse, inclusive, and innovative. During my leadership, I established a Diversity Monitoring Group and initiated a series of actions to give fair opportunities to everyone. For example, to provide some numbers, during my mandate, the percentage of female speakers at our annual conference went from 18% to 40%.
- I created a new initiative called “ALIVE solidarity” to develop free available resources to help in any humanitarian crisis, from the LMIC healthcare crisis to the refugee and war injury crisis in Ukraine.
- In 2020 with ESICM I obtained funding of over 2.4 million Euros from the European Commission to deliver teaching at the bedside. As a result, I created and directed C19SPACE, the largest-ever training programme for healthcare workers not regularly working in Intensive care. This helped hundreds of hospitals in Europe to surge ICUs beds during COVID-19 outbreaks. With this programme, we have trained more than 20000 healthcare workers in Europe. The programme is now delivered in collaboration with WHO in other parts of the world.
- I am part of the WHO COVID-19 Guidance group on Therapeutics, a group of high-profile scientists worldwide that has created a living guidance to bring real-time evidence to bedside clinicians during the Pandemic.
- I have established myself as one of the key investigators in perioperative optimisation to prevent postoperative complications in fluid administration and treatment of shock in critically ill patients.
- I brought Italy the first Adaptive Research Platform as National Coordinator: REMAP-CAP.
- Previously I worked in the UK from 2008 to 2018. I was the Clinical Director of the Adult Critical Care Department of St George’s University Hospitals NHS Foundation Trust. I have been a Senior Consultant in Anaesthesia and Intensive Care Medicine since 2008.
- In 2015 I was asked to go and rescue a Critical Care service in a nearby hospital. I was named Clinical Lead and involved in turning around a Critical Care Unit after a Care Quality Commission inspection identified problems related to poor leadership and a dysfunctional team. I rescued the group, developed a business case to bring more resources in, established a code of conduct and implemented a clinical governance structure where each team member has been empowered to improve quality. This has resolved team dynamics and enhanced quality and is considered one of the fastest and most significant turnarounds of services in the NHS in South London.
- In the UK, I was also an active researcher; I was nominated Clinical Lead for South London CRN Division 6 (2013-2016). Under my leadership, the recruitment of patients in NIHR studies in South London has doubled in the first six months (enrolling more than 20000 patients during my mandate).
- Several awards have recognised my leadership skills and academic performance. To name a few, I was awarded the Silver Griffin in 2018 as one of the top alums in Medicine by the University of Udine and the nomination by JAMA as one of the Key figures of the Pandemic Response globally in 2020. In 2021 the Gestein Health Forum awarded ESICM, under my leadership, the HealthCare Leadership award for its role during the Pandemic. For my work in connecting the global healthcare community in 2020, I was made Knight by Italian President Sergio Mattarella.

F. PUBLICATIONS

Metrics **Google Scholar** **42118 citations** **h-index 78** **i-index 233**
Scopus **25848 citations** **h-index 64**

Peer Review Articles

1. Deana C, Vetrugno L, Cortegiani A, Mongodi S, Salve G, Mangiagalli M, Boscolo A, Pettenuzzo T, Miori S, Sanna A, Lassola S, Magnoni S, Ferrari E, Biagioni E, Bassi F, Castaldo N, Fantin A, Longhini F, Corradi F, Forfori F, Cammarota G, De Robertis E, Buonsenso D, Spadaro S, Grieco DL, Martino M, Isola M, Mojoli F, Girardis M, Giarratano A, Bignami EG, Navalesi P, Cecconi M, Maggiore SM, On Behalf Of The Italian Odissea Group. Quality of Life in COVID-Related ARDS Patients One Year after Intensive Care Discharge (Odissea Study): A Multicenter Observational Study. *J Clin Med.* 2023 Jan 29;12(3):1058. doi: 10.3390/jcm12031058. PMID: 36769705; PMCID: PMC9918008.
2. Greco M, Caruso PF, Angelotti G, Aceto R, Coppalini G, Martinetti N, Albinì M, Bash LD, Carvello M, Piccioni F, Monzani R, Montorsi M, Cecconi M. REVersal of nEuromusculAr bLocking Agents in Patients Undergoing General Anaesthesia (REVEAL Study). *J Clin Med.* 2023 Jan 10;12(2):563. doi: 10.3390/jcm12020563. PMID: 36675492; PMCID: PMC9866312.
3. Greco M, De Rosa S, Boehm F, Spano S, Aceto R, Voza A, Reggiani F, Calatroni M, Castellani G, Costantini E, Villa G, Cecconi M. Kinetics of the Cell Cycle Arrest Biomarkers (TIMP2 and IGFBP7) for the Diagnosis of Acute Kidney Injury in Critically Ill COVID-19 Patients. *Diagnostics (Basel).* 2023 Jan 15;13(2):317. doi: 10.3390/diagnostics13020317. PMID: 36673127; PMCID: PMC9857893.
4. De Rosa S, Sella N, Rezoagli E, Lorenzoni G, Gregori D, Bellani G, Foti G, Pettenuzzo T, Baratto F, Fullin G, Papaccio F, Peta M, Poole D, Toffoletto F, Maggiore SM, Navalesi P; SIAARTI Study Group. The PROVENT-C19 registry: A study protocol for international multicenter SIAARTI registry on the use of prone positioning in mechanically ventilated patients with COVID-19 ARDS. *PLoS One.* 2022 Dec 30;17(12):e0276261. doi: 10.1371/journal.pone.0276261. PMID: 36584022; PMCID: PMC9803226.
5. Meyhoff TS, Hjortrup PB, Wetterslev J, Sivapalan P, Laake JH, Cronhjort M, Jakob SM, Cecconi M, Nalos M, Ostermann M, Malbrain M, Pettilä V, Møller MH, Kjær MN, Lange T, Overgaard-Steensen C, Brand BA, Winther-Olesen M, White JO, Quist L, Westergaard B, Jonsson AB, Hjortsø CJS, Meier N, Jensen TS, Engstrøm J, Nebrich L, Andersen-Ranberg NC, Jensen JV, Joseph NA, Poulsen LM, Herløv LS, Sølling CG, Pedersen SK, Knudsen KK, Straarup TS, Vang ML, Bundgaard H, Rasmussen BS, Aagaard SR, Hildebrandt T, Russell L, Bestle MH, Schønemann-Lund M, Brøchner AC, Elvander CF, Hoffmann SKL, Rasmussen ML, Martin YK, Friberg FF, Seter H, Aslam TN, Ådnøy S, Seidel P, Strand K, Johnstad B, Joelsson-Alm E, Christensen J, Ahlstedt C, Pfortmueller CA, Siegemund M, Greco M, Raděj J, Kříž M, Gould DW, Rowan KM, Mouncey PR, Perner A; CLASSIC Trial Group. Restriction of Intravenous Fluid in ICU Patients with Septic Shock. *N Engl J Med.* 2022 Jun 30;386(26):2459-2470. doi: 10.1056/NEJMoa2202707. Epub 2022 Jun 17. PMID: 35709019.
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7. Grasselli, G; Zanella, A; Carlesso, E; Florio, G; Canakoglu, A; Bellani, G; Bottino, N; Cabrini, L; Castelli, GP; Catena, E; Cecconi, M; Cereda, D; Chiumello, D; Forastieri, A; Foti, G; Gemma, M; Giudici, R; Grazioli, L; Lombardo, A; Lorini, FL; Madotto, F; Mantovani, A; Mistràletti, G; Mojoli, F; Mongodi, S; Monti, G; Muttini, S; Piva, S; Protti, A; Rasulo, F; Scandroglio, AM; Severgnini, P; Storti, E; Fumagalli, R; Pesenti, A Association of COVID-19 Vaccinations With Intensive Care Unit Admissions and Outcome of Critically Ill Patients With COVID-19 Pneumonia in Lombardy, Italy JAMA NETWORK OPEN 2574-3805 OCT 27 2022 5 10 10.1001/jamanetworkopen.2022.38871 36301541
8. Messina, A; Colombo, D; Lionetti, G; Calabro, L; Negri, K; Robba, C; Cammarota, G; Costantini, E; Cecconi, M Pressure response to fluid challenge administration in hypotensive surgical patients: a post-hoc pharmacodynamic analysis of five datasets JOURNAL OF CLINICAL MONITORING AND COMPUTING 1387-1307 10.1007/s10877-022-00918-x 36197548
9. Nisi, F; Giustiniano, E; Meco, M; Pugliese, L; Calabro, L; Spano, S; Ripani, U; Cecconi, M The Cardiac Power Index during Abdominal Open Aortic Surgery: Intraoperative Insights into the Cardiac Performance-A Retrospective Observational Analysis JOURNAL OF PERSONALIZED MEDICINE OCT 2022 12 10 10.3390/jpm12101705 36294844

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10. Messina, A; Villa, F; Lionetti, G; Galarza, L; Meyfroidt, G; van der Jagt, M; Monnet, X; Pelosi, P; Cecconi, M; Robba, C
Hemodynamic management of acute brain injury caused by cerebrovascular diseases: a survey of the
European Society of Intensive Care Medicine INTENSIVE CARE MEDICINE EXPERIMENTAL 2197-425X
SEP 12 2022 10 1 10.1186/s40635-022-00463-6 36273067
11. Morris, AC; Kohler, K; De Corte, T; Ercole, A; De Grooth, HJ; Elbers, PWG; Pova, P; Morais, R; Koulenti, D; Jog, S;
Nielsen, N; Jubb, A; Cecconi, M; De Waele, J ESICM UNITE COVID Investigators Co-infection and ICU-acquired
infection in COVID-19 ICU patients: a secondary analysis of the UNITE-COVID data set CRITICAL CARE 1364-
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12. Polok, K; Fronczek, J; Artigas, A; Flaatten, H; Guidet, B; De Lange, DW; Fjolner, J; Leaver, S; Beil, M; Sviri, S; Bruno,
RR; Wernly, B; Pinto, BB; Schefold, JC; Studzinska, D; Joannidis, M; Oeyen, S; Marsh, B; Andersen, FH; Moreno, R;
Cecconi, M; Jung, C; Szczeklik, W COVIP Study Grp Noninvasive ventilation in COVID-19 patients aged >= 70
years-a prospective multicentre cohort study CRITICAL CARE 1364-8535 JUL 22 2022 26
1 10.1186/s13054-022-04082-1 35869557
13. Fronczek, J; Flaatten, H; Guidet, B; Polok, K; Andersen, FH; Andrew, BY; Artigas, A; Beil, M; Cecconi, M; Christensen,
S; de Lange, DW; Fjolner, J; Gorka, J; Joannidis, M; Jung, C; Kusza, K; Leaver, S; Marsh, B; Morandi, A; Moreno, R;
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Watson, X; Zafeiridis, T; Szczeklik, W VIP1 VIP2 Study Grp Short-term mortality or patients >= 80 years
old admitted to European intensive care units: an international observational study BRITISH JOURNAL OF
ANAESTHESIA 0007-0912 JUL 2022 129 1 10.1016/j.bja.2022.03.02635501185
14. Greco, M; Angelotti, G; Caruso, PF; Zanella, A; Stomeo, N; Costantini, E; Protti, A; Pesenti, A; Grasselli, G; Cecconi, M
Lombardy ICU Network Outcome prediction during an ICU surge using a purely data-driven approach: A
supervised machine learning case-study in critically ill patients from COVID-19 Lombardy outbreak
INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS 1386-5056 AUG 2022 164
10.1016/j.ijmedinf.2022.104807 35671585
15. Cecconi, A; Martinez-Vives, P; Vera, A; Olleros, CL; Barrios, A; Aizpuru, EF; Roquero, P; Muniz, SH; Olivera, MJ;
Ciudad, M; Sanchez, RP; Martinez, RFM; Bautista-Hernandez, A; Castillo, EG; Iturricastillo, G; Avalos, E; Cotado, DP;
de Ona, AA; Carracedo, EF; Marcos-Jimenez, A; Sanz-Garcia, A; Alfranca, A; Cecconi, M; de la Fuente, H; de Benito,
MAS; Caballero, P; Sanchez-Madrid, F; Ancochea, J; Suarez, C; Jimenez-Borreguero, LJ; Alfonso, F Efficacy
of short-course colchicine treatment in hospitalized patients with moderate to severe COVID-19 pneumonia and
hyperinflammation: a randomized clinical trial SCIENTIFIC REPORTS 2045-2322 JUN 2 2022
12 1 10.1038/s41598-022-13424-6 35654818
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Einav, S; Forni, L; Galarza, L; Girbes, ARJ; Grasselli, G; Gusarov, V; Jubb, A; Kesecioglu, J; Lavinio, A; Delgado, MCM;
Mellinghoff, J; Myatra, SN; Ostermann, M; Pellegrini, M; Pova, P; Schaller, SJ; Teboul, JL; Wong, A; De Waele, JJ;
Cecconi, M; Investigators, EUC Clinical and organizational factors associated with mortality during the
peak of first COVID-19 wave: the global UNITE-COVID study INTENSIVE CARE MEDICINE 0342-4642
JUN 2022 48 6 10.1007/s00134-022-06705-1 35596752
17. Protti, A; Santini, A; Pennati, F; Chiurazzi, C; Ferrari, M; Iapichino, GE; Carenzo, L; Dalla Corte, F; Lanza, E; Martinetti,
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COVID-19 CRITICAL CARE 1364-8535 MAY 7 2022 26 1 10.1186/s13054-022-
03996-0 35526009
18. Tabah, A; Elhadi, M; Ballard, E; Cortegiani, A; Cecconi, M; Unoki, T; Galarza, L; Rosa, RG; Barbier, F; Azoulay, E;
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F.2.1 Reviews

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27. Tuccillo M, Cecconi M, Rhodes A (2010). Is invasive Hemodynamic Monitoring Useful in Sepsis?. In: Evidence-Based Practice of Critical Care. p. 178-181
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31. Cecconi M, Della Rocca G (2008). Less Invasive Monitoring of Cardiac Output - Hemodynamic Monitoring. In: (a cura di): Waldmann C, Soni L, Rhodes A, Oxford Desk Reference Critical Care.
32. Cecconi M, Della Rocca G (2008). Measurement of preload status. In: (a cura di): Waldmann C, Soni L, Rhodes A, Oxford Desk Reference Critical Care.

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F.5. Selected Abstracts for oral or poster presentations at national and international congresses since 2010

1. Cecconi M, Monti G, Vesconi S, Hamilton M, Grounds M, Rhodes A NICOM vs LiDCO™ plus during changes in cardiac output in critically ill patients Critical Care 2010, 14(Suppl 1):P100 (1 March 2010)
2. Monti G, Pizzilli G, Cecconi M, Rhodes A, Vesconi S, Brioschi P, Pulici M, Casella G Bioreactance versus PICCOTD/PC in critically ill septic shock patients Critical Care 2010, 14(Suppl 1):P99 (1 March 2010)
3. Wijayasiri L, Garewal D, Khpal M, Rhodes A, Dewhurst A, Cecconi M Does stroke volume increase after a fluid challenge? A study on the management of patients undergoing major head and neck free flap surgery: preliminary data Critical Care 2010, 14(Suppl 1):P119 (1 March 2010)
4. M.A. Hamilton, M. Cecconi, N. Al-Subaie, D. Dawson, M. Canete, A. Rhodes, R.M. Grounds PERIOPERATIVE TISSUE OXYGENATION(STO2) IS RELATED TO LONG TERM SURGICAL OUTCOME
5. M. Cecconi, A. Rhodes, R. Moreno, R. Matos, J.M. Pereira, I. Martin-Loeches, T. Lisboa, J. Rello, PULMONARY VERSUS NON PULMONARY PRESENTATION IN SEVEREPANDEMIC INFLUENZA A (H1N1)V Steering Committee of the Influenza A (H1N1)v ESICM Registry ESICM Barcelona 2010 ICM Supplement
6. R.P. Moreno, J.M. Pereira, R. Matos, I. Martin-Loeches, M. Cecconi, T. Lisboa, A. Rhodes, J. Rello, PIRO-CAP IN PANDEMIC INFLUENZA A (H1N1)V: RESULTS OF THE ESICM INFLUENZA A (H1N1)V REGISTRY ESICM Barcelona 2010 ICM Supplement
7. J.M. Pereira, R. Moreno, R. Matos, I. Martin-Loeches, M. Cecconi, T. Lisboa, A. Rhodes, J. Rello, CURB-65 IN PANDEMIC INFLUENZA A (H1N1)V: RESULTS OF THE ESICM INFLUENZA A (H1N1)V REGISTRY ESICM Barcelona 2010 ICM Supplement ESICM Barcelona 2010 ICM Supplement
8. J.M. Pereira, R. Moreno, R. Matos, I. Martin-Loeches, M. Cecconi, T. Lisboa, A. Rhodes, J. Rello, PSI IN PANDEMIC INFLUENZA A (H1N1)V: RESULTS OF THE ESICM INFLUENZA A (H1N1)V REGISTRY ESICM Barcelona 2010 ICM Supplement ESICM Barcelona 2010 ICM Supplement
9. T. Lisboa, J. Rello, R. Moreno, R. Matos, I. Martin-Loeches, M. Cecconi, J.M. Pereira, A. Rhodes, CLINICAL CHARACTERISTICS IN A COHORT OF CRITICALLY ILL PATIENTS INFECTED WITH PANDEMIC INFLUENZA A (H1N1)V: THE ESICM H1N1 REGISTRY ESICM Barcelona 2010 ESICM Barcelona 2010 ICM Supplement
10. T. Lisboa, J. Rello, R. Moreno, I. Martin-Loeches, M. Cecconi, J.M. Pereira, R. Matos, A. Rhodes, Steering Committee of the Influenza A (H1N1)v ESICM Registry CLINICAL CHARACTERISTICS IN A COHORT OF CRITICALLY ILL PATIENTS INFECTED WITH PANDEMIC INFLUENZA A (H1N1)V RECEIVING EXTRACORPOREAL MEMBRANE OXIGENATION (ECMO) THE ESICM H1N1 REGISTRY ESICM Barcelona 2010 ICM Supplement
11. R.G. Matos, R.P. Moreno, A.C. Diogo, J.M. Pereira, I. Martin-Loeches, M. Cecconi, T. Lisboa, A. Rhodes, J.

Rello, Steering Committee of the Influenza A (H1N1)v ESICM Registry BACTERIAL PNEUMONIA COMPLICATING INFLUENZA A (H1N1)V VIRAL PNEUMONIA: RESULTS OF THE ESICM INFLUENZA A (H1N1)V REGISTRY ESICM ESICM Barcelona 2010 ICM Supplement ESICM Barcelona 2010 ICM Supplement

12. R.G. Matos, R.P. Moreno, A.C. Diogo, J.M. Pereira, I. Martin-Loeches, M. Cecconi, T. Lisboa, ESICM COMPARATIVE STUDY OF PATIENTS ADMITTED IN INTENSIVE CARE WITH INFLUENZA A (H1N1)V. COMPARATIVE STUDY OF EUROPE VERSUS LATIN AMERICA. RESULTS OF THE ESICM INFLUENZA A (H1N1)V REGISTRY ESICM Barcelona 2010 ICM Supplement ESICM Barcelona 2010 ICM Supplement

13. M. Cecconi, L. Spagnesi, M. Hamilton, M. Grounds, C.K. Hofer, G. Della Rocca, A. Rhodes PULSE PRESSURE ANALYSIS CARDIAC OUTPUT MONITORING, A METAANALYSIS ESICM Barcelona 2010 ICM Supplement

14. WO Bauer, M Cecconi, A Rhodes, W Bernal, J Wendon, G Auzinger. Accuracy of stroke volume variation as a predictor of volume responsiveness in patients with raised intra-abdominal pressure Critical Care 2011, 15(Suppl 1):P68 (11 March 2011)

15. E Barbon, F Caliandro, J Kamdar, M Puntis, H Meeran, A Rhodes, A Dewhurst, M Cecconi Dynamic indices of preload in postcardiac surgery patients by pulse power analysis Critical Care 2011, 15(Suppl 1):P54 (11 March 2011)

16. M Cecconi, F Caliandro, E Barbon, V Elliott, A Dewhurst, A Rhodes Delta central venous pressure and dynamic indices of preload in postsurgical ICU patients Critical Care 2011, 15(Suppl 1):P49 (11 March 2011)

17. M. Khpal, M.Cecconi, J. Ball Lymphocytes to WCC ratio as a predictor of infection in surgical patients admitted to intensive care unit Poster ESICM Berlin 2011

18. Maurizio Cecconi, Francesca Caliandro, Deborah Dawson, Mark Hamilton, Mike Grounds, Andrew Rhodes Passive Leg Raising Test with the Nexfin monitor predicts fluid responsiveness in high risk surgical patients (PREFeRENCE Study) Poster ESICM Berlin 2011

19. D. Dawson, V. Foroughi, M. Cecconi The Accuracy and Clinical Relevance of Weight Measurement in Critical Care Poster ESICM Berlin 2011

20. M Cecconi, N Arulkumaran, R Suleman, D Shearn, M Geisen, J Mellinshoff, D Dawson, J Ball, M Hamilton, M Grounds, A Rhodes Oxygen delivery index during goal-directed therapy predicts complications and hospital length of stay in patients undergoing high-risk surgery Critical Care 2012, 16(Suppl 1):P474 (20 March 2012)

21. C Ebm, M Cecconi, A Rhodes, M Grounds Cost-effectiveness analysis of two thromboprophylactic strategies following major surgery Critical Care 2012, 16(Suppl 1):P422 (20 March 2012)

22. M Geisen, HD Aya, C Ebm, N Arulkumaran, MA Hamilton, M Grounds, A Rhodes, M Cecconi Admission lactate and outcome after high-risk surgery Critical Care 2012, 16(Suppl 1):P261 (20 March 2012)

23. M Cecconi, F Caliandro, J Mellinshoff, D Dawson, S Ranjan, M Hamilton, M Grounds, A Rhodes Prediction of fluid responsiveness in intensive care (PREFERENCE study): fluid challenge versus passive leg raising in high-risk surgical patients Critical Care 2012, 16(Suppl 1):P239 (20 March 2012)

24. H Aya, M Cecconi, M Geisen, C Ebm, M Grounds, N Fletcher, A Rhodes Frank-Starling and Guyton together at bedside during a fluid challenge Critical Care 2012, 16(Suppl 1):P238 (20 March 2012)

25. C Ebm, M Cecconi, H Aya, M Geisen, A Rhodes, M Grounds Economic evaluation of early-goal directed therapy for high-risk surgical patients Critical Care 2012, 16(Suppl 1):P198 (20 March 2012)

26. Ebm C, Cecconi M, Rhodes A, A comparison of clinical and cost-effectiveness of pre- versus postoperative goal directed therapy, ESICM, Lisbon 2012

27. M. Geisen, F. Caliandro, M.E. Edsell, H. Meeran, M. Cecconi, S.N. Fletcher: Initial clinical experience with a novel, miniaturized transoesophageal echocardiography probe. ESICM Lisbon 2012

28. Aya, M. Geisen, C. Ebm, M. Hamilton, A. Rhodes, M. Cecconi: Goal-directed haemodynamic therapy in cardiac surgical patients: systematic review and meta-analysis of randomized controlled trials. H.D. ESICM Lisbon 2012

29. G. Abuella, C. Corredor, N. Arulkumaran, M. Hamilton, A. Rhodes, M. Cecconi: Meta-analysis of goal directed therapy in high-risk patients undergoing major non-cardiac surgery. ESICM Lisbon 2012
30. R. E. Thomson, H. Meeran, M. Cecconi, N. Al-Subaie: Goal-directed therapy following cardiac surgery improves renal function and reduces duration of stay in intensive care. ESICM Lisbon 2012
31. P. Davies, J. Ball, M. Cecconi: Thromboelastography on the intensive care unit: an observational study of initial use, benefits and impact on diagnosis and treatment. ESICM Lisbon 2012
32. M Geisen, HD Aya, C Ebm, MA Hamilton, J Ball, M Grounds, A Rhodes, M Cecconi Red cell distribution width predicts cardiovascular complications after high-risk surgery Critical Care 2013, 17(Suppl 2):P232 (19 March 2013) ISICEM 2013
33. H.D. Aya, M. Geisen, C. Ebm, M. Grounds, A. Rhodes, M. Cecconi ASSESSMENT OF STRESSED VOLUME AND VASCULAR COMPLIANCE IN SPONTANEOUSLY VENTILATED PATIENTS Paris ESICM 2013
34. M. Cecconi, H. Hochrieser, B. Metnitz, R. Moreno, R. Pearse, P. Metnitz, A. Rhodes, London, United Kingdom, Vienna, Austria, PREOPERATIVE SERUM SODIUM AND POSTOPERATIVE MORTALITY: A EUSOS SUBSTUDY Paris ESICM 2013 *Best Abstract Award Winner
35. C. Corredor, N. Arulkumaran, M. Cecconi, J. Ball, M. Hamilton, R.M. Grounds, A. Rhodes, A SYSTEMATIC REVIEW AND META-ANALYSIS OF EARLY GOAL- DIRECTED THERAPY IN SEVERE TRAUMA
36. Aya, H. D., Geisen, M., Ebm, C., Fletcher, N., Grounds, M., Rhodes, A., & Cecconi, M. (2013a). Looking for the inflexion point of the Frank-Starling curve. Critical Care (London, England), 17(Suppl 2), P206. Aya, H. D., Geisen, M., Ebm, C., Grounds, M., Rhodes, A., & Cecconi, M. (2013b). ASSESSMENT OF STRESSED VOLUME AND VASCULAR COMPLIANCE IN SPONTANEOUSLY VENTILATED PATIENTS, 39, S392–S393.
37. Aya, H. D., Geisen, M., Ebm, C., Hamilton, M., Rhodes, A., & Cecconi, M. (2012a). GOAL-DIRECTED HAEMODYNAMIC THERAPY IN CARDIAC SURGICAL PATIENTS: SYSTEMATIC REVIEW AND META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS, 38, S80–S80.
38. Aya, H. D., Rhodes, A., Fletcher, N., Grounds, M., & Cecconi, M. (2014a). TRANSIENT STOP-FLOW ARM ARTERIAL-VEIN EQUILIBRIUM PRESSURE MEASUREMENT: DETERMINATION OF PRECISION OF THE TECHNIQUE, 40, S46–S46.
39. Aya H, Rhodes A, Grounds M, Cecconi M. Kinetics of volume expansion during a fluid challenge. International Symposium of Intensive Care and Emergency Medicine; Brussels: Critical Care; 2014. p. 1-182.
40. Aya H, Geisen M, Ebm C, Grounds M, Rhodes A, Cecconi M, editors. Assessment of stressed volume and vascular compliance in spontaneously ventilated patients Annual Congress of the European Society of Intensive Care Medicine; 2013; Paris: Springer 233 Spring St, New York, NY 10013 USA.
41. H.D. Aya, A. Rhodes, N. Fletcher, R.M. Grounds, M. Cecconi Quantification of stressed volume and systemic vascular compliance in septic and post-cardiac surgical patients after a fluid challenge ESICM Milan 2016
42. L. Toscani, D. Antonakaki, D. Bastoni, H.D. Aya, A. Rhodes, M. Cecconi A systematic review and meta-analysis of the fluid challenge technique in anaesthesia and intensive care ESICM Milan 2016

G. INVITED PRESENTATIONS

F.6 Selected Invited Presentations since 2008

I have been invited to more than 700 lectures at national and international meetings with topics in the field of Sepsis, High Risk Surgery, Haemodynamic Monitoring, Oxygen Delivery, Goal Directed Therapy, Biomarkers, Shock, Troponins, Ultrasound guided central venous access, etc. I have lectured at national and international institutions.

Top 10 talks selection:

1. Venice October 2014 **Italian Society of Anaesthesia and Intensive Care Annual Meeting** Opening Lecture Lectio Magistralis **Shock: can we reach a consensus?**
2. London 20th October 2016 **Royal College of Anaesthetists CPD Study day** Lecture **Intraoperative Cardiac Output Monitoring**
3. London 2 July 2017 **EPBOM Evidence Based Perioperative Medicine** Lecture: CardioRespiratory Care Intraoperatively
4. Milan February 2019 **First European Datathon** (organized and speaker) Lecture: Artificial Intelligence and ICU
5. 13th May 2019 Harvard Medical School, **HMS Postgraduate Medical Education GCSRT**: Lecture: Navigating my Leadership Pathway
6. September 24, 2019 **Live Webinar European Society of Anesthesiology** Lecture: Perioperative Goal Directed Therapy
7. 12 March 2020 **JAMA Conversations with Howard Bauchner and Maurizio Cecconi**. Interview topic: Lombardy COVID19 Crisis
8. 23 September 2020 **University of Pittsburgh Critical Care Department Ground Round** Lecture: COVID-19: lessons from Italy
9. WHO, 2 June 2021 **World Health Organisation Meeting on COVID-19**. Lecture: **Lung Protective Ventilation (LPV) and interventions for severe ARDS**
10. June 2021 **David Geffen School of Medicine at UCLA Department of Anesthesiology & Perioperative Medicine "Anesthesiology, Perioperative, and Critical Care Medicine"** Lecture: "Leading During Times of Crisis"

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