






PERSONAL INFORMATION	Mauro Cotza
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	Sex male Date of birth 01/04/1970 Birth place Milan Nationality Italian

JOB APPLIED FOR POSITION	ECMO and VAD Coordinator, Perfusion Service Coordinator, Certified Clinical Perfusionist, Clinical Researcher
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WORK EXPERIENCE	
2023-	Consultant for ECMO and CPB program ARNAS Civico "de Cristina-Benfratelli", cardiac surgery pediatric department "
2023-	University of Insubria-Varese, Bachelor's Degree Course for TFCPC: contract professor in the integrated course "Applied sciences"
2023-	UNIPD, Master Universitario in "Fisiopatologia cardiocircolatoria e tecniche di circolazione extra-corporea nel paziente pediatrico" a.a. 22/23: assignment of professional tutorship
2022-	University of Modena and Reggio Emilia UNIMORE, Bachelor's Degree Course for TFCPC: assignment of professional tutorship
2022-	Consultant for ECMO and CPB program "international Air Force Hospital", Il Cairo, Egypt
2021-	University of Insubria-Varese, Bachelor's Degree Course for TFCPC: assignment of professional tutorship
2020-	member of the scientific committee of AITEFEP
2019-	position of Vice - President of the Board of Technicians of Cardiocirculatory Pathophysiology and Cardiovascular Perfusion of the TSRM and PSTRP of Milan, Como, Lecco, Lodi, Monza Brianza, Sondrio.
2019-	State University of Milan, Bachelor's Degree Course for TFCPC: assignment of professional tutorship
2019	Consultant for ECMO and CPB Program "El NAS Pediatric Hospital", Il Cairo, Egypt
2018-2020	AITEFEP Delegate supporter, area CARDIOPULMONARY, specialty "Coagulation Point of care and patient blood management"
2018-	ECLS/ECMO Unit and Perfusion Service Coordinator IRCCS "Policlinico San Donato"

2018-	Consultant for ECMO Program "Abu El Reesh Pediatric Hospital, Cairo University", Il Cairo, Egypt
2017-	Consultant for pediatric training Program "Abu El Reesh Pediatric Hospital, Cairo University", Il Cairo, Egypt
2016-2018	Consultant for pediatric training Program "Police Hospital", Il Cairo, Egypt
2015-	ELSO Data Base Administrator for Policlinico San Donato
2015-2022	Consultant for ECMO Program "Marie Curie" Pediatric Hospital, Bucharest
2015	Consultant for ECMO Program "Mangiagalli NICU" Ospedale Maggiore Policlinico, Milan
2014-	Consultant for "Università Statale", Milan, CCP Pediatric and Neonatal Fellowship Program
2012-	ECMO and VAD Team Coordinator, Certified Clinical Perfusionist IRCCS "Policlinico San Donato"
2012-	Clinical Researcher, ECMO and Extracorporeal Technology, IRCCS "Policlinico San Donato"
2010-2012	Consultant ECMO Program PICU and NICU IRCCS "Meyer" Pediatric Hospital, Florence
2010-2012	Clinical Specialist for Thoratec and Levitronix, Italy and Switzerland
2010-2012	Clinical specialist for Medos ECMO, Italy and Switzerland
2010-	Clinical specialist and Marketing Manager Italy Quest Medical Myocardial Protection
2008	Consultant for adult Cardiac Department "Istituto Clinico Santambrogio" Hospital, Milan
2008-	Consultant Pediatric Cardiovascular Department "La Rabta" University Hospital, Tunis
2007-2010	Consultant Pediatric Cardiovascular Department "Hospital Materno-Infantil", Las Palmas de Gran Canaria
2004-2005	Consultant for "Università Statale", Milan, CCP Pediatric and Neonatal Fellowship Program
2004-	Certified clinical pediatric perfusionist for Associazione Bambini Cardiopatici Humanitarian worldwide activities

1997-2010	Certified Clinical Perfusionist, Pediatric and Adult Department, IRCCS "Policlinico San Donato", Milano
<u>ACTUALLY</u>	<u>ECLS/ECMO Coordinator, 2° Perfusion Service Coordinator, Certified adult and pediatric Clinical Perfusionist, Clinical Researcher on ECMO and Extracorporeal Technology, IRCCS "Policlinico San Donato", Milan</u>

EDUCATION	
1994-1997	Bachelor's Degree (50/50) in Cardiocirculatory Physiopathology and Cardiovascular Perfusion Techniques, "Università Statale UNIMI", Milan
1999	European Certification in Cardiovascular Perfusion, European Board of Cardiovascular Perfusion
2003-2008	"International Course on Extracorporeal Technology" IRCCS Policlinico San Donato
2007	"ECMO: Indicazioni, Applicazione, Gestione, Risultati", Società Italiana di CardioChirurgia, Bergamo
2010	"6th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion", Boston
2010	"L'Insufficienza Respiratoria nel Bambino: dalla DECAP all'ECMO", Azienda Ospedaliero-Universitaria Meyer, Florence: invited speaker
2010	"New Perspective in ECMO 2010: Indications and Patients Management", Ospedale Ca Granda Niguarda, Milan,
2010	Thoratec Heartmate II LVAS Surgical Training, University Hospital of Freiburg, Freiburg
2011	"L'Assistenza Ventricolare meccanica nei pazienti con scompenso cardiaco avanzato", ANMCO, Ospedale Ca Granda Niguarda, Milan
2011	"Lungs & Heart: Protective Ventilation and Extracorporeal Support", Istituto Scientifico Universitario San Raffaele, Milan
2012	Course "Stato dell'arte dell'ECMO Veno-Arterioso" presso Società Italiana di CardioChirurgia, Rome
2012	Course "Practical Aspects of Extracorporeal Support in Respiratory Failure", European Extra-Corporeal Life Support Organization
2012	"Update and New Direction on ECMO Support in Critical Newborn, Pediatric, and Adult Patients" ELSO course, Rome
2012	EuroELSO2010", Rome
2013	Course "Gestione dell'insufficienza cardio-respiratoria in età neonatale e pediatrica con supporti extracorporei", Ospedale Pediatrico Bambino Gesù, Rome
2014	EuroELSO2014", Paris
2015	"Strategie di ventilazione polmonare e applicazioni cliniche", Milan: invited speaker
2015	ISHLT 2015 Nizza
2015	EuroELSO2015" Regensburg
2015	ANEMO 2015, Milan
2016	EuroELSO 2016 Glasgow

2016	ANEMO 2016 Milan
2016	CARACT 2016, Milan: invited speaker
2016	IMACS 2016, Milan
2016	"INTERCEPT 2016", Milan: invited speaker
2016	Course "Corso ITACTA Emostasi e coagulazione", Milan
2016	"ECMO nell'arresto Cardiaco" Niguarda, Milano: invited speaker
2017	"Critical Care Cardiology 2 ed", Milano: invited speaker
2017	"INTERCEPT 2017", Milan: invited speaker
2017	"CARACT-MEDTASS 2017", Palermo: invited speaker
2017	"10th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion", Rome
2017	XLVII CONGRESS Pediatric Cardiology and Congenital Heart Disease Italian Society, Turin: invited speaker
2017	"Critical Care Cardiology 3 ed", Milano: invited speaker
2018	Enrollment in the Master's Degree in Health Profession Sciences, UNIMI, Milan
2018	"INTERCEPT 2018", Milan: invited speaker
2018	"Critical Care Cardiology Course 4ed.", Milan
2018	Course "Il percorso emostatico in chirurgia Cardioracica e vascolare", Milan: invited speaker
2018	Course "Patient Blood Management SIAARTI-ANEMO", Milan: AITEFEF Delegate invited speaker
2019	ITACTA 2019, Bologna: invited speaker
2019	CARACT 2019, Roma: webinar invited speaker
2019	EUROELSO 2019, Barcellona
2019	Cytosorb Training Course, EuroEls 2019 Barcellona: invited speaker
2019	INTERCEPT 2019: invited speaker
2019	Critical Care Cardiology Course 5° Ed., Pavia: moderator
2019	ISMICS, Bologna
2019	1° Rumanian International Congress on Congenital Heart Disease, Bucharest: invited speaker
2017-2019	Master of Science in Healthcare Professions, "Università Statale degli Studi di Milano-UNIMI" (110/110 cum laude)

2020	EUROELSO Virtual ECMO Day: invited speaker
2020	EACTS Medtronic Virtual Meeting: invited speaker
2021	PICCU, Cairo University, Cairo, Egypt: invited speaker
2021	Master in Coordination and Management for healthcare professions, "LIUC Business School-Carlo Cattaneo University" Castellanza-VA (110/110 cum laude)
2021	Advanced Training Course in Health Technology Assessment-COPHTA IX, "LIUC Business School-Carlo Cattaneo University" Castellanza-VA
2022	Master in basic and advanced Echocardiography, UNIPD, Padua,
2022	EUROELSO 2022, London
2022	SICP, Verona, invited speaker
2022	EACTA, Naples, invited speaker
2023	ANMCO, Milan, invited speaker
2023	"70 battiti", Verona, invited speaker and moderator
2023	AMSECT webinar "ECLS: San Donato experiences", invited speaker
2023	18th National Congress of the Romanian Society of Cardiovascular Surgery. Cluj-Napoca, invited speaker (2)
2023	PICCU, Cairo University, Cairo, Egypt: invited speaker

PERSONAL SKILLS					
mother language	italian				
	Listening	Reading	Spoken interaction	Spoken production	Writing
English	B2	B2	A1	A1	B2
	Enter level	Enter level	Enter level	Enter level	Enter level
	Common European Framework of Reference for Languages				

Communication skills	communication skills gained through my experience as tutor for University Courses and as invited speaker in several international meetings empathic ability, motivator in the development of personal skills, teamwork and team building
Organizational / managerial skills	leadership in training Program (currently responsible for a specialized team of 5 people), experience as country manager for biomedical devices in heart failure international tutorship (responsible for cardiovascular perfusion education in pediatric CPB and responsible for education for internal and outsourced ECMO program.

Job-related skills	<p>proficient acknowledgement and use of Cardiopulmonary bypass, Extra Corporeal Membrane Oxygenation, short and long term and full implantable Ventricular Assist Devices, Intra-aortic balloon pump, axial flow pump,</p> <p>proficient acknowledgement and use of Point Of Care coagulation tests (TEG, ROTEM, Multiplate, PFA100, HMS)</p> <p>Strong experience in research, research project, design and development of clinical trial as primary investigator</p> <p>high confidence with oral presentation, front-side lessons</p> <p>innate ability in protocols definition and conversion to written documents</p> <p>emphatic ability with patients, colleagues and students needs</p>
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Digital competence	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Basic user	Proficient user	Proficient user	Basic user	Proficient user
	Levels: Basic user - Independent user - Proficient user Digital competences - Self-assessment grid				
	<ul style="list-style-type: none"> good command of office and Mac suite (word processor, spread sheet, presentation software) good command of photo editing software gained as an amateur photographer 				

Driving licence	A-B
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Scientific Publications	
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- [Bleeding and Thrombotic Issues during Extracorporeal Membrane Oxygenation.](#)
 Ranucci M, Cotza M, Di Dedda U.
 J Clin Med. 2022 Sep 13;11(18):5375. doi: 10.3390/jcm11185375.
 PMID: 36143022 **Free PMC article.**
- [In-hospital and 6-month outcomes in patients with COVID-19 supported with extracorporeal membrane oxygenation \(EuroECMO-COVID\): a multicentre, prospective observational study.](#)
 Lorusso R, De Piero ME, Mariani S, Di Mauro M, Folliguet T, Taccone FS, Camporota L, Swol J, Wiedemann D, Belliato M, Broman LM, Vuylsteke A, Kassif Y, Scandroglio AM, Fanelli V, Gaudard P, Ledot S, Barker J, Boeken U, Maier S, Kersten A, Meyns B, Pozzi M, Pedersen FM, Schellongowski P, Kirali K, Barrett N, Riera J, Mueller T, Belohlavek J; EuroECMO-COVID Study Group.
 Lancet Respir Med. 2023 Feb;11(2):151-162. doi: 10.1016/S2213-2600(22)00403-9. Epub 2022 Nov 16.
 PMID: 36402148 **Free PMC article.**
- [Carbon dioxide production during cardiopulmonary bypass: pathophysiology, measure and clinical relevance.](#)
 Ranucci M, Carboni G, Cotza M, de Somer F.
 Perfusion. 2017 Jan;32(1):4-12. doi: 10.1177/0267659116659919. Epub 2016 Jul 18.
 PMID: 27435871 Review.
- [The Conundrum of Systemic Arterial Pressure Management on Cardiopulmonary Bypass.](#)
 Ranucci M, Cotza M, Di Dedda U.
 J Clin Med. 2023 Jan 19;12(3):806. doi: 10.3390/jcm12030806.

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- PMID: 36769463 **Free PMC article.**
5. [Anti-Factor Xa-Based Anticoagulation during Extracorporeal Membrane Oxygenation: Potential Problems and Possible Solutions.](#)
Ranucci M, Cotza M, Isgrò G, Carboni G, Ballotta A, Baryshnikova E; Surgical Clinical Outcome REsearch (SCORE) Group.
Semin Thromb Hemost. 2020 Jun;46(4):419-427. doi: 10.1055/s-0039-1697950. Epub 2019 Sep 28.
PMID: 31563131 Review.
 6. [Commentary: Nontechnical skills for perfusionists: Assessing the ability of the person running the pump.](#)
Cotza M, Lo Rito M.
J Thorac Cardiovasc Surg. 2023 Apr;165(4):1471-1472. doi: 10.1016/j.jtcvs.2021.07.018. Epub 2021 Jul 17.
PMID: 34340853 No abstract available.
 7. [Influence of left ventricular unloading on pediatric post-cardiotomy veno-arterial extracorporeal life support outcomes.](#)
Meani P, Lorusso R, Kowalewski M, Isgrò G, Cazzaniga A, Satriano A, Ascari A, Bernardinetti M, Cotza M, Marchese G, Ciotti E, Kandil H, Di Dedda U, Aloisio T, Varrica A, Giamberti A, Ranucci M.
Front Cardiovasc Med. 2022 Aug 10;9:970334. doi: 10.3389/fcvm.2022.970334. eCollection 2022.
PMID: 36035925 **Free PMC article.**
 8. [The multifactorial dynamic perfusion index: A predictive tool of cardiac surgery associated acute kidney injury.](#)
Ranucci M, Di Dedda U, Cotza M, Zamalloa Moreano K.
Perfusion. 2022 Oct 28;2676591221137033. doi: 10.1177/02676591221137033. Online ahead of print.
PMID: 36305847
 9. [Atrial Septostomy for Left Ventricular Unloading During Extracorporeal Membrane Oxygenation for Cardiogenic Shock: Animal Model.](#)
Mlcek M, Meani P, Cotza M, Kowalewski M, Raffa GM, Kuriscak E, Popkova M, Pilato M, Arcadipane A, Ranucci M, Lorusso R, Belohlavek J.
JACC Cardiovasc Interv. 2021 Dec 27;14(24):2698-2707. doi: 10.1016/j.jcin.2021.09.011.
PMID: 34949394
 10. [Heparin-like effect in postcardiotomy extracorporeal membrane oxygenation patients.](#)
Ranucci M, Baryshnikova E, Isgrò G, Carlucci C, Cotza M, Carboni G, Ballotta A.
Crit Care. 2014 Sep 5;18(5):504. doi: 10.1186/s13054-014-0504-2.
PMID: 25189998 **Free PMC article.**
 11. [Bloodstream infections during post-cardiotomy extracorporeal membrane oxygenation: Incidence, risk factors, and outcomes.](#)
Silvetti S, Ranucci M, Pistuddi V, Isgrò G, Ballotta A, Ferraris L, Cotza M.
Int J Artif Organs. 2019 Jun;42(6):299-306. doi: 10.1177/0391398818817325. Epub 2018 Dec 11.
PMID: 30537880
 12. [Coagulation monitoring in postcardiotomy ECMO: conventional tests, point-of-care, or both?](#)
Ranucci M, Baryshnikova E, Cotza M, Carboni G, Isgrò G, Carlucci C, Ballotta A; Group for the Surgical and Clinical Outcome Research (SCORE).
Minerva Anesthesiol. 2016 Aug;82(8):858-66. Epub 2016 Apr 6.
PMID: 27050286
 13. [Predictors of Neurological Complications of Pediatric Post-Cardiotomy Extracorporeal Life Support.](#)
Agha HM, Fathalla A, Isgro G, Cotza M.
J Saudi Heart Assoc. 2023 Jan 20;34(4):249-256. doi: 10.37616/2212-5043.1324. eCollection 2022.
PMID: 36816795 **Free PMC article.**
 14. [Hemodilution on cardiopulmonary bypass as a determinant of early postoperative hyperlactatemia.](#)
Ranucci M, Carboni G, Cotza M, Bianchi P, Di Dedda U, Aloisio T; Surgical and Clinical Outcome Research (SCORE) Group.
PLoS One. 2015 May 18;10(5):e0126939. doi: 10.1371/journal.pone.0126939. eCollection 2015.
PMID: 25992896 **Free PMC article.**
 15. [Modern ECMO: why an ECMO programme in a tertiary care hospital.](#)
Cotza M, Carboni G, Ballotta A, Kandil H, Isgrò G, Carlucci C, Varrica A, Garatti A, Giamberti A, Ranucci M.
Eur Heart J Suppl. 2016 Apr 28;18(Suppl E):E79-E85. doi: 10.1093/eurheartj/suw016. Epub 2016 Apr 29.
PMID: 28533721
 16. [Surgical reexploration after cardiac operations: why a worse outcome?](#)
Ranucci M, Bozzetti G, Ditta A, Cotza M, Carboni G, Ballotta A.
Ann Thorac Surg. 2008 Nov;86(5):1557-62. doi: 10.1016/j.athoracsur.2008.07.114.
PMID: 19049749
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17. [Fibrinogen levels and postoperative chest drain blood loss in low-weight \(<10 kg\) children undergoing cardiac surgery.](#)
Ranucci M, Bianchi P, Cotza M, Beccaris C, Silvetti S, Isgrò G, Giamberti A, Baryshnikova E.
Perfusion. 2019 Nov;34(8):629-636. doi: 10.1177/0267659119854246. Epub 2019 Jun 28.
PMID: 31250738 Clinical Trial.
18. [Different patterns of heparin resistance: therapeutic implications.](#)
Ranucci M, Isgrò G, Cazzaniga A, Ditta A, Boncilli A, Cotza M, Carboni G, Brozzi S.
Perfusion. 2002 May;17(3):199-204. doi: 10.1191/0267659102pf5620a.
PMID: 12017388
19. [The combined effects of the microcirculatory status and cardiopulmonary bypass on platelet count and function during cardiac surgery.](#)
Di Dedda U, Ranucci M, Porta A, Bari V, Ascari A, Fantinato A, Baryshnikova E, Cotza M.
Clin Hemorheol Microcirc. 2018;70(3):327-337. doi: 10.3233/CH-180391.
PMID: 29710690
20. [Percentage hematocrit variation \(PHEVAR\) index as a quality indicator of patient blood management in cardiac surgery.](#)
Ranucci M, Carboni G, Cotza M, Pelissero G; Surgical and Clinical Outcome Research (Score) Group.
Minerva Anesthesiol. 2014 Aug;80(8):885-93. Epub 2013 Nov 26.
PMID: 24280817
21. [Determinants of antithrombin consumption in cardiac operations requiring cardiopulmonary bypass.](#)
Ranucci M, Ditta A, Boncilli A, Cotza M, Carboni G, Brozzi S, Bonifazi C, Tiezzi A.
Perfusion. 2004 Jan;19(1):47-52. doi: 10.1191/0267659104pf7110a.
PMID: 15072255
22. [Effects of priming volume reduction on allogeneic red blood cell transfusions and renal outcome after heart surgery.](#)
Ranucci M, Pistuddi V, Carboni G, Cotza M, Ditta A, Boncilli A, Brozzi S, Pelissero G; Surgical and Clinical Outcome Research (SCORE) Group.
Perfusion. 2015 Mar;30(2):120-6. doi: 10.1177/0267659114535649. Epub 2014 May 19.
PMID: 24843113 Clinical Trial.
23. [Early or late fresh frozen plasma administration in newborns and small infants undergoing cardiac surgery: the APPEAR randomized trial.](#)
Bianchi P, Cotza M, Beccaris C, Silvetti S, Isgrò G, Pomè G, Giamberti A, Ranucci M; Surgical and Clinical Outcome REsearch (SCORE) group.
Br J Anaesth. 2017 May 1;118(5):788-796. doi: 10.1093/bja/aex069.
PMID: 28510741 Clinical Trial.
24. [Oxygen delivery during cardiopulmonary bypass and acute renal failure after coronary operations.](#)
Ranucci M, Romitti F, Isgrò G, Cotza M, Brozzi S, Boncilli A, Ditta A.
Ann Thorac Surg. 2005 Dec;80(6):2213-20. doi: 10.1016/j.athoracsur.2005.05.069.
PMID: 16305874
25. [Closed, phosphorylcholine-coated circuit and reduction of systemic heparinization for cardiopulmonary bypass: the intraoperative ECMO concept.](#)
Ranucci M, Pazzaglia A, Isgrò G, Cazzaniga A, Ditta A, Boncilli A, Cotza M, Carboni G, Brozzi S, Bonifazi C.
Int J Artif Organs. 2002 Sep;25(9):875-81. doi: 10.1177/039139880202500910.
PMID: 12403404
26. [An unusual case of cardiogenic shock in which thiamine administration led to reversal of lactic acidosis and heart function recovery: Shoshin beriberi in an adolescent.](#)
Cottini M, Ranucci M, Facciolo C, Satriano A, Kandill H, Bettini F, De Vincentis C, Cotza M, Ballotta A.
Int J Cardiol. 2016 Nov 1;222:401-403. doi: 10.1016/j.ijcard.2016.07.248. Epub 2016 Jul 30.
PMID: 27505323 No abstract available.
27. [Severe Pneumonia Caused by Influenza A \(H1N1\) Virus Successfully Managed with Extracorporeal Life Support in a Comorbid Former Preterm Infant.](#)
Raffaelli G, Cavallaro G, Pugni L, Leva E, Artoni A, Neri S, Baracetti C, Cotza M, Gentilino V, Terranova L, Esposito S, Mosca F.
Int J Environ Res Public Health. 2017 Mar 31;14(4):360. doi: 10.3390/ijerph14040360.
PMID: 28362356 **Free PMC article.**
28. [Gabexate mesilate and antithrombin III for intraoperative anticoagulation in heparin pretreated patients.](#)
Ranucci M, Cazzaniga A, Isgrò G, Ditta A, Boncilli A, Cotza M, Brozzi S.
Perfusion. 1999 Sep;14(5):357-62. doi: 10.1177/026765919901400507.

PMID: 10499652 Clinical Trial.

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Date and place

Sign
