



Marco Ranucci, MD.
Director, Cardiothoracic and Vascular Anesthesia and ICU
IRCCS Policlinico San Donato
San Donato Milanese, Milan (ITALY)

Born in Milan, May 24th, 1955

Medical Degree at the University of Milan in December 1980

Specialty Degree in Anesthesia and Intensive Care in July 1983

Specialty Degree in Sports Medicine in July 1986

Consultant in the Anesthesia and Intensive Care Dept of the Istituti Clinici di Perfezionamento
July 1982 – December 1983

Consultant in the Anesthesia and Intensive Care Dept of the IRCCS Policlinico San Donato
January 1984 – July 1996

Head of the Department of Cardiothoracic Anesthesia and ICU of the IRCCS Policlinico San Donato
July 1996 – ongoing

Academic activity

1986 – 1990 Contract Professor of Sport Physiology at the University Course of Sport Sciences
University of Milan

1992 – 1996 Contract Professor at the Specialty School in Anesthesia and Intensive Care University
of Milan

2001 – 2005 Contract Professor at the Specialty School in Respiratory Pathophysiology University of
Milan

2002 – 2010 Professor at the University School for Cardiovascular Perfusion Technicians,
University of Siena

Since 2009 Contract Professor, Specialty School in Anesthesia and Intensive Care University of
Milan

Present Scientific Position

Past – President of the Italian Association of Cardiothoracic Anaesthesiologists

President of the European Association of Cardiothoracic Anaesthesiologists (EACTA) for the
period 2007 – 2010.

Section Editor for “New Technologies” in the Journal of Cardiothoracic and Vascular Anesthesia
Acting as a reviewer for: Annals of Thoracic Surgery; Critical Care Medicine; Intensive Care Medicine; Journal of Cardiothoracic and Vascular Anesthesia; European Journal of Anaesthesiology.

Clinical practice and specific interests

Active clinical work in the Operating Room and Intensive Care since 1988. Provided anesthesia for about 10,000 cardiac operations in adults and 5,000 in pediatric patients.

Author of 270 peer-reviewed publications. His main interests are (i) risk stratification in cardiac surgery; in this area, he is the inventor of the ACEF score (a risk score for cardiac surgery and PCI included in the ESC/EACTS guidelines); (ii) cardiopulmonary bypass technologies, and (iii) hemostasis and coagulation in critically ill patients.

Participated in writing the Hemostasis and coagulation guidelines of the EACTA/EACTS, and those of the SCA. In charge for writing the anticoagulation guidelines during ECMO of the ELSO. Four books authored by Marco Ranucci on transesophageal echo (Cambridge University Press), cardiac anesthesia (Oxford University Press) hemostasis/coagulation (Springer Verlag) and coagulation in COVID 19 (Springer Verlag)

Peer- reviewed publications (last 10 years):

- Rasmussen SB, Boyko Y, Ranucci M, de Somer F, Ravn HB. Cardiac surgery-Associated acute kidney injury - A narrative review. *Perfusion*. 2023 Oct 31;2676591231211503. doi: 10.1177/02676591231211503. Epub ahead of print. PMID: 37905794.
- Greco S, Made' A, Mutoli M, Zhang L, Piella SN, Vausort M, Lumley AI, Beltrami AP, Srivastava PK, Milani V, Boveri S, Ranucci M, Renna LV, Firat H, Bruno A, Spinetti G, Emanuelli C, Devaux Y, Martelli F. HCG18, LEF1AS1 and lncCEACAM21 as biomarkers of disease severity in the peripheral blood mononuclear cells of COVID-19 patients. *J Transl Med*. 2023 Oct 26;21(1):758. doi: 10.1186/s12967-023-04497-6. PMID: 37884975; PMCID: PMC10605335.
- Ronco D, Ariza-Solé A, Kowalewski M, Matteucci M, Di Mauro M, López-de-Sá E, Ranucci M, Sionis A, Bonaros N, De Bonis M, Russo CF, Uribarri A, Montero S, Fischlein T, Kowalówka A, Naito S, Obadia JF, Martín-Asenjo R, Aboal J, Thielmann M, Simon C, Andrea-Riba R, Parra C, Folliguet T, Martínez-Sellés M, Sanmartín Fernández M, Al-Attar N, Viana Tejedor A, Serraino GF, Burgos Palacios V, Boeken U, Raposeiras Roubin S, Solla Buceta MA, Sánchez Fernández PL, Scrofani R, Pastor Báez G, Jorge Pérez P, Actis Dato G, Garcia-Rubira JC, de Gea Garcia JH, Massimi G, Musazzi A, Lorusso R. The current clinical practice for management of post-infarction ventricular septal rupture: a European survey. *Eur Heart J Open*. 2023 Sep 22;3(5):oead091. doi: 10.1093/ehjopen/oead091. PMID: 37840585; PMCID: PMC10568658.
- Gorla R, Tua L, D'Errigo P, Barbanti M, Biancari F, Tarantini G, Badoni G, Ussia GP, Ranucci M, Bedogni F, Baglio G, Rosato S; OBSERVANT II Research Group. Incidence and predictors of 30-day and 6-month stroke after TAVR: Insights from the multicenter OBSERVANT II study. *Catheter Cardiovasc Interv*. 2023 Oct 4. doi: 10.1002/ccd.30848. Epub ahead of print. PMID: 37794734.

- Bari V, Gelpi F, Cairo B, Anguissola M, Pugliese S, De Maria B, Bertoldo EG, Fiolo V, Callus E, De Vincentiis C, Volpe M, Molfetta R, Ranucci M, Porta A. Characterization of cardiovascular and cerebrovascular controls via spectral causality analysis in patients undergoing surgical aortic valve replacement during a three-month follow-up. *Physiol Meas*. 2023 Sep 29;44(9). doi: 10.1088/1361-6579/acf992. PMID: 37703899.
- D'Errigo P, Marcellusi A, Biancari F, Barbanti M, Cerza F, Tarantini G, Ranucci M, Ussia GP, Costa G, Badoni G, Fraccaro C, Meucci F, Baglio G, Seccareccia F, Tamburino C, Rosato S; OBSERVANT II Research Group. Financial Burden of Transcatheter Aortic Valve Implantation. *Am J Cardiol*. 2023 Sep 15;203:1-8. doi: 10.1016/j.amjcard.2023.06.088. Epub 2023 Jul 19. PMID: 37478636.
- Ranucci M, Di Dedda U, Isgrò G, Giamberti A, Cotza M, Cornara N, Baryshnikova E. Plasma-Free Strategy for Cardiac Surgery with Cardiopulmonary Bypass in Infants < 10 kg: A Retrospective, Propensity-Matched Study. *J Clin Med*. 2023 Jun 7;12(12):3907. doi: 10.3390/jcm12123907. PMID: 37373602; PMCID: PMC10299615.
- Ranucci M, Baryshnikova E, Anguissola M, Pugliese S, Falco M, Menicanti L. The Long Term Residual Effects of COVID-Associated Coagulopathy. *Int J Mol Sci*. 2023 Mar 14;24(6):5514. doi: 10.3390/ijms24065514. PMID: 36982589; PMCID: PMC10049638.
- Ranucci M. Red blood cell transfusion and outcome in cardiac surgery: the songs remain the same. *Eur J Cardiothorac Surg*. 2023 Apr 3;63(4):ezad119. doi: 10.1093/ejcts/ezad119. PMID: 36961345.
- Ranucci M, Baryshnikova E, Anguissola M, Pugliese S, Ranucci L, Falco M, Menicanti L. The Very Long COVID: Persistence of Symptoms after 12-18 Months from the Onset of Infection and Hospitalization. *J Clin Med*. 2023 Feb 28;12(5):1915. doi: 10.3390/jcm12051915. PMID: 36902702; PMCID: PMC10003916.
- Ranucci M, Casalino S, Frigiola A, Diena M, Parolari A, Boveri S, Menicanti L, De Vincentiis C. The importance of being the morning case in adult cardiac surgery: a propensity-matched analysis. *Eur J Cardiothorac Surg*. 2023 Jun 1;63(6):ezad089. doi: 10.1093/ejcts/ezad089. PMID: 36892436.
- Ranucci M, Baryshnikova E, Pistuddi V, Di Dedda U. The Rise and Fall of Antithrombin Supplementation in Cardiac Surgery. *Anesth Analg*. 2023 Jun 1;136(6):1043-1051. doi: 10.1213/ANE.0000000000006314. Epub 2022 Dec 6. PMID: 36853953.
- Baryshnikova E, Di Dedda U, Ranucci M. In Response. *Anesth Analg*. 2023 Mar 1;136(3):e18-e19. doi: 10.1213/ANE.0000000000006345. Epub 2023 Feb 17. PMID: 36806241.
- Ranucci M, Cotza M, Di Dedda U. The Conundrum of Systemic Arterial Pressure Management on Cardiopulmonary Bypass. *J Clin Med*. 2023 Jan 19;12(3):806. doi: 10.3390/jcm12030806. PMID: 36769463; PMCID: PMC9918189.
- Madè A, Greco S, Vausort M, Miliotis M, Schordan E, Baksi S, Zhang L, Baryshnikova E, Ranucci M, Cardani R, Fagherazzi G, Ollert M, Tastsoglou S, Vatsellas G, Hatzigeorgiou A, Firat H, Devaux Y, Martelli F. Association of miR-144 levels in the peripheral blood with

COVID-19 severity and mortality. *Sci Rep.* 2022 Nov 21;12(1):20048. doi: 10.1038/s41598-022-23922-2. PMID: 36414650; PMCID: PMC9681736.

- 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. In-hospital and 6-month outcomes in patients with COVID-19 supported with extracorporeal membrane oxygenation (EuroECMO-COVID): a multicentre, prospective observational study. *Lancet Respir Med.* 2023 Feb;11(2):151-162. doi: 10.1016/S2213-2600(22)00403-9. Epub 2022 Nov 16. PMID: 36402148; PMCID: PMC9671669.
- Ranucci M, Di Dedda U, Cotza M, Zamalloa Moreano K. The multifactorial dynamic perfusion index: A predictive tool of cardiac surgery associated acute kidney injury. *Perfusion.* 2022 Oct 28;2676591221137033. doi: 10.1177/02676591221137033. Epub ahead of print. PMID: 36305847.
- 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, Mistraretti 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; COVID-19 Lombardy ICU Network. Association of COVID-19 Vaccinations With Intensive Care Unit Admissions and Outcome of Critically Ill Patients With COVID-19 Pneumonia in Lombardy, Italy. *JAMA Netw Open.* 2022 Oct 3;5(10):e2238871. doi: 10.1001/jamanetworkopen.2022.38871. PMID: 36301541; PMCID: PMC9614574.
- Fraccaro C, Tarantini G, Rosato S, Baglio G, Biancari F, Barbanti M, Tamburino C, Bedogni F, Ranucci M, Ussia GP, Seccareccia F, D'Errigo P. Early and mid-term outcome of patients with low-flow-low-gradient aortic stenosis treated with newer-generation transcatheter aortic valves. *Front Cardiovasc Med.* 2022 Oct 6;9:991729. doi: 10.3389/fcvm.2022.991729. PMID: 36277797; PMCID: PMC9583539.
- Mazzaccaro D, Giannetta M, Ranucci M, Righini P, Di Dedda U, Baryshnikova E, Milani V, Nano G. Clopidogrel Resistance and Ticagrelor Replacement in Dual Antiplatelet Therapy for Carotid Artery Stenting. *Ann Vasc Surg.* 2023 Mar;90:128-136. doi: 10.1016/j.avsg.2022.09.063. Epub 2022 Oct 19. PMID: 36270550.
- Baryshnikova E, Di Dedda U, Ranucci M. Are Viscoelastic Tests Clinically Useful to Identify Platelet-Dependent Bleeding in High-Risk Cardiac Surgery Patients? *Anesth Analg.* 2022 Dec 1;135(6):1198-1206. doi: 10.1213/ANE.0000000000006231. Epub 2022 Oct 13. PMID: 36227767.
- Ranucci M, Cotza M, Di Dedda U. Bleeding and Thrombotic Issues during Extracorporeal Membrane Oxygenation. *J Clin Med.* 2022 Sep 13;11(18):5375. doi: 10.3390/jcm11185375. PMID: 36143022; PMCID: PMC9503624.
- 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. Influence of left ventricular unloading on pediatric post-

cardiotomy veno-arterial extracorporeal life support outcomes. *Front Cardiovasc Med.* 2022 Aug 10;9:970334. doi: 10.3389/fcvm.2022.970334. PMID: 36035925; PMCID: PMC9399613.

- Anastasiadis K, Antonitsis P, Murkin J, Serrick C, Gunaydin S, El-Essawi A, Bennett M, Erdoes G, Liebold A, Punjabi P, Theodoropoulos KC, Kiaii B, Wahba A, de Somer F, Bauer A, Kadner A, van Boven W, Argiriadou H, Deliopoulos A, Baker RA, Breitenbach I, Ince C, Starinieri P, Jenni H, Popov V, Moorjani N, Moscarelli M, Di Eusanio M, Cale A, Shapira O, Baufreton C, Condello I, Merkle F, Stehouwer M, Schmid C, Ranucci M, Angelini G, Carrel T. 2021 MiECTiS focused update on the 2016 position paper for the use of minimal invasive extracorporeal circulation in cardiac surgery. *Perfusion.* 2023 Oct;38(7):1360-1383. doi: 10.1177/02676591221119002. Epub 2022 Aug 12. PMID: 35961654.
- Ranucci M, Parati G, Di Dedda U, Bussotti M, Agricola E, Menicanti L, Bombace S, De Martino F, Giovinnazzo S, Zambon A, Menè R, La Rovere MT. When Outcomes Diverge: Age and Cardiovascular Risk as Determinants of Mortality and ICU Admission in COVID-19. *J Clin Med.* 2022 Jul 15;11(14):4099. doi: 10.3390/jcm11144099. PMID: 35887864; PMCID: PMC9316345.
- Moront MG, Woodward MK, Essandoh MK, Avery EG, Reece TB, Brzezinski M, Spiess B, Shore-Lesserson L, Chen J, Henriquez W, Barceló M, Despotis G, Karkouti K, Levy JH, Ranucci M, Mondou E; Clinical Thrombate Study Group. A Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial of Preoperative Antithrombin Supplementation in Patients at Risk for Antithrombin Deficiency After Cardiac Surgery. *Anesth Analg.* 2022 Oct 1;135(4):757-768. doi: 10.1213/ANE.0000000000006145. Epub 2022 Jul 25. PMID: 35877927.
- Bari V, Barbarossa L, Gelpi F, Cairo B, De Maria B, Tonon D, Rossato G, Faes L, Ranucci M, Barbieri R, Porta A. Exploring metrics for the characterization of the cerebral autoregulation during head-up tilt and propofol general anesthesia. *Auton Neurosci.* 2022 Nov;242:103011. doi: 10.1016/j.autneu.2022.103011. Epub 2022 Jul 8. PMID: 35834916.
- Galliera E, Massaccesi L, Yu L, He J, Ranucci M, Corsi Romanelli MM. SCD14-ST and New Generation Inflammatory Biomarkers in the Prediction of COVID-19 Outcome. *Biomolecules.* 2022 Jun 13;12(6):826. doi: 10.3390/biom12060826. PMID: 35740951; PMCID: PMC9220996.
- Lorusso R, Bartlett RH, Shekar K, MacLaren G, Schmidt M, Pellegrino V, Meyns B, Haft J, Vercaemst L, Pappalardo F, Bermudez C, Belohlavek J, Hou X, Boeken U, Castillo R, Donker DW, Abrams D, Ranucci M, Hryniewicz K, Chavez I, Chen YS, Salazar L, Whitman G; 2021 ELSO Adult Cardiac Interim Guidelines Task Force. Reply Letter to the Editor Regarding the ELSO Interim Guidelines for Veno- Arterial Extracorporeal Membrane Oxygenation in Adult Cardiac Patients. *ASAIO J.* 2022 Jun 1;68(6):e111-e112. doi: 10.1097/MAT.0000000000001701. Epub 2022 Mar 18. PMID: 35649227.
- Di Dedda U, Ascari A, Fantinato A, Fina D, Baryshnikova E, Ranucci M. Microcirculatory Alterations in Critically Ill Patients with COVID-19-Associated Acute Respiratory Distress Syndrome. *J Clin Med.* 2022 Feb 16;11(4):1032. doi: 10.3390/jcm11041032. PMID: 35207303; PMCID: PMC8876221.

- Ranucci M. The Age, Creatinine, Ejection Fraction score: history, philosophy and perspectives. *Eur J Cardiothorac Surg.* 2022 May 2;61(5):1123-1124. doi: 10.1093/ejcts/ezac065. PMID: 35134866.
- Porta A, Gelpi F, Bari V, Cairo B, De Maria B, Panzetti CM, Cornara N, Bertoldo EG, Fiolo V, Callus E, De Vincentiis C, Volpe M, Molfetta R, Pistuddi V, Ranucci M. Monitoring the Evolution of Asynchrony between Mean Arterial Pressure and Mean Cerebral Blood Flow via Cross-Entropy Methods. *Entropy (Basel).* 2022 Jan 2;24(1):80. doi: 10.3390/e24010080. PMID: 35052106; PMCID: PMC8774596.
- Baryshnikova E, Di Dedda U, Ranucci M. A Comparative Study of Multiple Electrode Aggregometry Technologies in Cardiac Surgery: Different Values, Same Clinical Relevance. *J Cardiothorac Vasc Anesth.* 2022 Jul;36(7):1927-1933. doi: 10.1053/j.jvca.2021.11.030. Epub 2021 Nov 25. PMID: 34949522.
- Mlcek M, Meani P, Cotza M, Kowalewski M, Raffa GM, Kuriscak E, Popkova M, Pilato M, Arcadipane A, Ranucci M, Lorusso R, Belohlavek J. Atrial Septostomy for Left Ventricular Unloading During Extracorporeal Membrane Oxygenation for Cardiogenic Shock: Animal Model. *JACC Cardiovasc Interv.* 2021 Dec 27;14(24):2698-2707. doi: 10.1016/j.jcin.2021.09.011. PMID: 34949394.
- Porta A, Gelpi F, Bari V, Cairo B, De Maria B, Tonon D, Rossato G, Ranucci M, Faes L. Categorizing the Role of Respiration in Cardiovascular and Cerebrovascular Variability Interactions. *IEEE Trans Biomed Eng.* 2022 Jun;69(6):2065-2076. doi: 10.1109/TBME.2021.3135313. Epub 2022 May 19. PMID: 34905489.
- Porta A, Gelpi F, Bari V, Cairo B, De Maria B, May Panzetti C, Cornara N, Bertoldo EG, Fiolo V, Callus E, De Vincentiis C, Volpe M, Molfetta R, Ranucci M. Respiration is a Confounder of the Closed Loop Relationship Between Mean Arterial Pressure and Mean Cerebral Blood Flow. *Annu Int Conf IEEE Eng Med Biol Soc.* 2021 Nov;2021:5403-5406. doi: 10.1109/EMBC46164.2021.9630905. PMID: 34892348.
- Mazzaccaro D, Ranucci M, Nano G. Clopidogrel resistance in dual antiplatelet therapy after carotid stenting. *J Vasc Surg.* 2021 Dec;74(6):2119. doi: 10.1016/j.jvs.2021.04.076. PMID: 34809818.
- 38: Perrone F, Piccirillo MC, Ascierto PA, Salvarani C, Parrella R, Marata AM, Popoli P, Ferraris L, Marrocco-Trischitta MM, Ripamonti D, Binda F, Bonfanti P, Squillace N, Castelli F, Muiesan ML, Lichtner M, Calzetti C, Salerno ND, Atripaldi L, Cascella M, Costantini M, Dolci G, Facciolo NC, Fraganza F, Massari M, Montesarchio V, Mussini C, Negri EA, Botti G, Cardone C, Gargiulo P, Gravina A, Schettino C, Arenare L, Chiodini P, Gallo C; TOCIVID-19 investigators, Italy. Correction to: Tocilizumab for patients with COVID-19 pneumonia. The single-arm TOCIVID-19 prospective trial. *J Transl Med.* 2021 Oct 21;19(1):442. doi: 10.1186/s12967-021-03094-9. Erratum for: *J Transl Med.* 2020 Oct 21;18(1):405. PMID: 34674735; PMCID: PMC8529863.
- Ronco D, Matteucci M, Kowalewski M, De Bonis M, Formica F, Jiritano F, Fina D, Folliquet T, Bonaros N, Russo CF, Sponga S, Vendramin I, De Vincentiis C, Ranucci M, Suwalski P, Falcetta G, Fischlein T, Troise G, Villa E, Dato GA, Carrozzini M, Serraino GF, Shah SH, Scrofani R, Fiore A, Kalisnik JM, D'Alessandro S, Lodo V, Kowalówka AR, Deja MA, Almobayedh S, Massimi G, Thielmann M, Meyns B, Khouqeer FA, Al-Attar N,

- Pozzi M, Obadia JF, Boeken U, Kalampokas N, Fino C, Simon C, Naito S, Beghi C, Lorusso R. Surgical Treatment of Postinfarction Ventricular Septal Rupture. *JAMA Netw Open*. 2021 Oct 1;4(10):e2128309. doi: 10.1001/jamanetworkopen.2021.28309. PMID: 34668946; PMCID: PMC8529403.
- Rosato S, Biancari F, D'Errigo P, Barbanti M, Tarantini G, Bedogni F, Ranucci M, Costa G, Juvonen T, Ussia GP, Marcellusi A, Baglio G, Cicala SD, Badoni G, Seccareccia F, Tamburino C, On Behalf Of The Observant Ii Research Group. One-Year Outcomes after Surgical versus Transcatheter Aortic Valve Replacement with Newer Generation Devices. *J Clin Med*. 2021 Aug 20;10(16):3703. doi: 10.3390/jcm10163703. PMID: 34441998; PMCID: PMC8396948.
 - Lorusso R, Shekar K, MacLaren G, Schmidt M, Pellegrino V, Meyns B, Haft J, Vercaemst L, Pappalardo F, Bermudez C, Belohlavek J, Hou X, Boeken U, Castillo R, Donker DW, Abrams D, Ranucci M, Hryniewicz K, Chavez I, Chen YS, Salazar L, Whitman G. ELSO Interim Guidelines for Venoarterial Extracorporeal Membrane Oxygenation in Adult Cardiac Patients. *ASAIO J*. 2021 Aug 1;67(8):827-844. doi: 10.1097/MAT.0000000000001510. Erratum in: *ASAIO J*. 2022 Jul 1;68(7):e133. PMID: 34339398.
 - Massaccesi L, Vianello E, Ranucci M, Galliera E, Sitzia C, Romanelli MMC. Plasma Levels of Glycolytic Activities in Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Patients. *Arch Pathol Lab Med*. 2021 Aug 1;145(8):922-923. doi: 10.5858/arpa.2021-0037-LE. PMID: 34313714.
 - Constantine A, Costola G, Bianchi P, Chessa M, Giamberti A, Kempny A, Rafiq I, Babu-Narayan SV, Gatzoulis MA, Hoschtitzky A, Shore D, Aw TC, Ranucci M, Dimopoulos K. Enhanced Assessment of Perioperative Mortality Risk in Adults With Congenital Heart Disease. *J Am Coll Cardiol*. 2021 Jul 20;78(3):234-242. doi: 10.1016/j.jacc.2021.04.096. PMID: 34266577.
 - Sanfilippo F, Palumbo GJ, Bignami E, Pavesi M, Ranucci M, Scolletta S, Pelosi P, Astuto M. Acute Respiratory Distress Syndrome in the Perioperative Period of Cardiac Surgery: Predictors, Diagnosis, Prognosis, Management Options, and Future Directions. *J Cardiothorac Vasc Anesth*. 2022 Apr;36(4):1169-1179. doi: 10.1053/j.jvca.2021.04.024. Epub 2021 Apr 24. PMID: 34030957; PMCID: PMC8141368.
 - Biancari F, Rosato S, Costa G, Barbanti M, D'Errigo P, Tamburino C, Cerza F, Rosano A, Seccareccia F; OBSERVANT Research Group. A novel, comprehensive tool for predicting 30-day mortality after surgical aortic valve replacement. *Eur J Cardiothorac Surg*. 2021 Apr 13;59(3):586-592. doi: 10.1093/ejcts/ezaa375. PMID: 33575794.
 - Lorusso R, Combes A, Lo Coco V, De Piero ME, Belohlavek J; EuroECMO COVID-19 WorkingGroup; Euro-ELSO Steering Committee. ECMO for COVID-19 patients in Europe and Israel. *Intensive Care Med*. 2021 Mar;47(3):344-348. doi: 10.1007/s00134-020-06272-3. Epub 2021 Jan 9. PMID: 33420797; PMCID: PMC7796689.
 - Porta A, Fantinato A, Bari V, Gelpi F, Cairo B, De Maria B, Bertoldo EG, Fiolo V, Callus E, De Vincentiis C, Volpe M, Molfetta R, Ranucci M. Evaluation of the impact of surgical aortic valve replacement on short-term cardiovascular and cerebrovascular controls through

spontaneous variability analysis. PLoS One. 2020 Dec 10;15(12):e0243869. doi: 10.1371/journal.pone.0243869. PMID: 33301491; PMCID: PMC7728248.

- Dozio E, Sitzia C, Pistelli L, Cardani R, Rigolini R, Ranucci M, Corsi Romanelli MM. Soluble Receptor for Advanced Glycation End Products and Its Forms in COVID-19 Patients with and without Diabetes Mellitus: A Pilot Study on Their Role as Disease Biomarkers. J Clin Med. 2020 Nov 23;9(11):3785. doi: 10.3390/jcm9113785. PMID: 33238596; PMCID: PMC7700384.
- Foti G, Giannini A, Bottino N, Castelli GP, Cecconi M, Grasselli G, Guatteri L, Latronico N, Langer T, Monti G, Muttini S, Pesenti A, Radrizzani D, Ranucci M, Russotto V, Fumagalli R; COVID-19 Lombardy ICU Network. Management of critically ill patients with COVID-19: suggestions and instructions from the coordination of intensive care units of Lombardy. Minerva Anestesiol. 2020 Nov;86(11):1234-1245. doi: 10.23736/S0375-9393.20.14762-X. PMID: 33228329.
- Ranucci M, Sitzia C, Baryshnikova E, Di Dedda U, Cardani R, Martelli F, Corsi Romanelli M. Covid-19-Associated Coagulopathy: Biomarkers of Thrombin Generation and Fibrinolysis Leading the Outcome. J Clin Med. 2020 Oct 28;9(11):3487. doi: 10.3390/jcm9113487. PMID: 33126772; PMCID: PMC7692774.
- Perrone F, Piccirillo MC, Ascierto PA, Salvarani C, Parrella R, Marata AM, Popoli P, Ferraris L, Marrocco-Trischitta MM, Ripamonti D, Binda F, Bonfanti P, Squillace N, Castelli F, Muijsan ML, Lichtner M, Calzetti C, Salerno ND, Atripaldi L, Cascella M, Costantini M, Dolci G, Facciolo NC, Fraganza F, Massari M, Montesarchio V, Mussini C, Negri EA, Botti G, Cardone C, Gargiulo P, Gravina A, Schettino C, Arenare L, Chiodini P, Gallo C; TOCIVID-19 investigators, Italy. Tocilizumab for patients with COVID-19 pneumonia. The single-arm TOCIVID-19 prospective trial. J Transl Med. 2020 Oct 21;18(1):405. doi: 10.1186/s12967-020-02573-9. Erratum in: J Transl Med. 2021 Oct 21;19(1):442. PMID: 33087150; PMCID: PMC7576974.
- Ranucci M. In Response. Anesth Analg. 2020 Aug;131(2):e119-e120. doi: 10.1213/ANE.0000000000004950. PMID: 33031685; PMCID: PMC7219857.
- Mauro MD, Calafiore AM, Di Franco A, Nicolini F, Formica F, Scrofani R, Antona C, Messina A, Troise G, Mariscalco G, Beghi C, De Bonis M, Trumello C, Miceli A, Glauber M, Ranucci M, De Vincentiis C, Gaudino M, Lorusso R. Association between cardioplegia and postoperative atrial fibrillation in coronary surgery. Int J Cardiol. 2021 Feb 1;324:38-43. doi: 10.1016/j.ijcard.2020.09.065. Epub 2020 Oct 4. PMID: 33022288; PMCID: PMC7874574.
- Porta A, Fantinato A, Bari V, Cairo B, De Maria B, Bertoldo EG, Fiolo V, Callus E, De Vincentiis C, Volpe M, Molfetta R, Ranucci M. Complexity and Nonlinearities of Short-Term Cardiovascular and Cerebrovascular Controls after Surgical Aortic Valve Replacement. Annu Int Conf IEEE Eng Med Biol Soc. 2020 Jul;2020:2569-2572. doi: 10.1109/EMBC44109.2020.9175321. PMID: 33018531.
- Thachil J, Juffermans NP, Ranucci M, Connors JM, Warkentin TE, Ortel TL, Levi M, Iba T, Levy JH. ISTH DIC subcommittee communication on anticoagulation in COVID-19. J Thromb Haemost. 2020 Sep;18(9):2138-2144. doi: 10.1111/jth.15004. PMID: 32881336; PMCID: PMC7404846.

- Ranucci M, Pavesi M, Pistuddi V, Baryshnikova E. Preoperative Anemia Correction in Cardiac Surgery: A Propensity-Matched Study. *J Cardiothorac Vasc Anesth*. 2021 Mar;35(3):874-881. doi: 10.1053/j.jvca.2020.07.015. Epub 2020 Jul 7. PMID: 32741609.
- Grasselli G, Greco M, Zanella A, Albano G, Antonelli M, Bellani G, Bonanomi E, Cabrini L, Carlesso E, Castelli G, Cattaneo S, Cereda D, Colombo S, Coluccello A, Crescini G, Forastieri Molinari A, Foti G, Fumagalli R, Iotti GA, Langer T, Latronico N, Lorini FL, Mojoli F, Natalini G, Pessina CM, Ranieri VM, Rech R, Scudeller L, Rosano A, Storti E, Thompson BT, Tirani M, Villani PG, Pesenti A, Cecconi M; COVID-19 Lombardy ICU Network. Risk Factors Associated With Mortality Among Patients With COVID-19 in Intensive Care Units in Lombardy, Italy. *JAMA Intern Med*. 2020 Oct 1;180(10):1345-1355. doi: 10.1001/jamainternmed.2020.3539. Erratum in: *JAMA Intern Med*. 2021 Jul 1;181(7):1021. PMID: 32667669; PMCID: PMC7364371.
- Fina D, Matteucci M, Jiritano F, Meani P, Kowalewski M, Ballotta A, Ranucci M, Lorusso R. Extracorporeal membrane oxygenation without systemic anticoagulation: a case-series in challenging conditions. *J Thorac Dis*. 2020 May;12(5):2113-2119. doi: 10.21037/jtd.2020.04.54. PMID: 32642115; PMCID: PMC7330289.
- Rasmussen SR, Kandler K, Nielsen RV, Jakobsen PC, Ranucci M, Ravn HB. Association between transfusion of blood products and acute kidney injury following cardiac surgery. *Acta Anaesthesiol Scand*. 2020 Nov;64(10):1397-1404. doi: 10.1111/aas.13664. Epub 2020 Jul 14. PMID: 32609377.
- Mariscalco G, D'Errigo P, Biancari F, Rosato S, Musumeci F, Barbanti M, Ranucci M, Santoro G, Badoni G, Fusco D, Ventura M, Tamburino C, Seccareccia F. Early and late outcomes after transcatheter versus surgical aortic valve replacement in obese patients. *Arch Med Sci*. 2019 May 21;16(4):796-801. doi: 10.5114/aoms.2019.85253. PMID: 32542080; PMCID: PMC7286321.
- Seccareccia F, D'Errigo P, Tarantini G, Barbanti M, Tamburino C, Musumeci G, Bedogni F, Berti S, Rosato S, Santoro G, Ussia GP, Baiocchi M, Ranucci M, Corti MC, Badoni G; per il Gruppo di Lavoro OBSERVANT II. Primi risultati dello studio OBSERVANT II: caratteristiche cliniche dei pazienti con stenosi aortica sottoposti a procedure transcateretere con dispositivi di nuova generazione [First results from the OBSERVANT II study: clinical characteristics of patients with aortic stenosis undergoing transcatheter treatment with new generation devices]. *G Ital Cardiol (Rome)*. 2020 Jun;21(6):469-477. Italian. doi: 10.1714/3359.33331. PMID: 32425193.
- Kowalewski M, Fina D, Słomka A, Raffa GM, Martucci G, Lo Coco V, De Piero ME, Ranucci M, Suwalski P, Lorusso R. COVID-19 and ECMO: the interplay between coagulation and inflammation-a narrative review. *Crit Care*. 2020 May 8;24(1):205. doi: 10.1186/s13054-020-02925-3. PMID: 32384917; PMCID: PMC7209766.
- Ranucci M, Ballotta A, Di Dedda U, Baryshnikova E, Dei Poli M, Resta M, Falco M, Albano G, Menicanti L. The procoagulant pattern of patients with COVID-19 acute respiratory distress syndrome. *J Thromb Haemost*. 2020 Jul;18(7):1747-1751. doi: 10.1111/jth.14854. Epub 2020 May 6. PMID: 32302448; PMCID: PMC9906332.

- Ranucci M, Baryshnikova E. Sensitivity of Viscoelastic Tests to Platelet Function. *J Clin Med*. 2020 Jan 10;9(1):189. doi: 10.3390/jcm9010189. PMID: 32284512; PMCID: PMC7019879.
- 65: Ranucci M. Calibration of risk scores: one model does not fit all. *Minerva Anestesiol*. 2020 Jul;86(7):696-698. doi: 10.23736/S0375-9393.20.14603-0. Epub 2020 Apr 6. PMID: 32251578.
- Grasselli G, Zangrillo A, Zanella A, Antonelli M, Cabrini L, Castelli A, Cereda D, Coluccello A, Foti G, Fumagalli R, Iotti G, Latronico N, Lorini L, Merler S, Natalini G, Piatti A, Ranieri MV, Scandroglio AM, Storti E, Cecconi M, Pesenti A; COVID-19 Lombardy ICU Network. Baseline Characteristics and Outcomes of 1591 Patients Infected With SARS-CoV-2 Admitted to ICUs of the Lombardy Region, Italy. *JAMA*. 2020 Apr 28;323(16):1574-1581. doi: 10.1001/jama.2020.5394. Erratum in: *JAMA*. 2021 May 25;325(20):2120. PMID: 32250385; PMCID: PMC7136855.
- Bianchi P, Beccaris C, Norbert M, Dunlop B, Ranucci M. Use of Coagulation Point-of-Care Tests in the Management of Anticoagulation and Bleeding in Pediatric Cardiac Surgery: A Systematic Review. *Anesth Analg*. 2020 Jun;130(6):1594-1604. doi: 10.1213/ANE.0000000000004563. PMID: 32224832.
- Raphael J, Mazer CD, Shore-Lesserson L, Bollen B, Levy JH, Schwann N, Subramani S, Schroeder A, Abdalla M, Ferreira R, Roman PE, Patel N, Welsby I, Greilich PE, Harvey R, Ranucci M, Heller LB, Boer C, Wilkey A, Hill SE, Nuttall GA, Palvadi RR, Patel PA, Wilkey B, Gaitan B, Hill SS, Kwa J, Klick J, Abernathy J, Lau WT; Blood Conservation Working Group and the Clinical Practice Improvement Committee of the Society of Cardiovascular Anesthesiologists. In Response. *Anesth Analg*. 2020 May;130(5):e154-e156. doi:10.1213/ANE.0000000000004709. PMID: 32102015.
- Fina D, Matteucci M, Jiritano F, Meani P, Lo Coco V, Kowalewski M, Maessen J, Guazzi M, Ballotta A, Ranucci M, Lorusso R. Extracorporeal membrane oxygenation without therapeutic anticoagulation in adults: A systematic review of the current literature. *Int J Artif Organs*. 2020 Sep;43(9):570-578. doi: 10.1177/0391398820904372. Epub 2020 Feb 10. PMID: 32037946.
- Ranucci M. Challenge of Anesthesia Management in Brugada Syndrome. *Anesthesiology*. 2020 Mar;132(3):411-412. doi: 10.1097/ALN.0000000000003099. PMID: 31929328.
- Lorusso R, Moscarelli M, Di Franco A, Grazioli V, Nicolini F, Gherli T, De Bonis M, Taramasso M, Villa E, Troise G, Scrofani R, Antona C, Mariscalco G, Beghi C, Miceli A, Glauber M, Ranucci M, De Vincentiis C, Gaudino M. Association Between Coronary Artery Bypass Surgical Techniques and Postoperative Stroke. *J Am Heart Assoc*. 2019 Dec 17;8(24):e013650. doi: 10.1161/JAHA.119.013650. Epub 2019 Dec 13. PMID: 31830873; PMCID: PMC6951073.
- Ranucci M, Aloisio T, Di Dedda U, Menicanti L, de Vincentiis C, Baryshnikova E; Surgical and Clinical Outcome REsearch (SCORE) group. Gender-based differences in platelet function and platelet reactivity to P2Y12 inhibitors. *PLoS One*. 2019 Nov 27;14(11):e0225771. doi: 10.1371/journal.pone.0225771. PMID: 31774869; PMCID: PMC6881030.

- Varrica A, Caldaroni F, Saitto G, Satriano A, Lo Rito M, Chiarello C, Ranucci M, Frigiola A, Giamberti A. Outcomes and Quality of Life After Ross Reintervention: Would You Make the Same Choice Again? *Ann Thorac Surg.* 2020 Jul;110(1):214-220. doi: 10.1016/j.athoracsur.2019.10.007. Epub 2019 Nov 23. PMID: 31770502.
- Raphael J, Mazer CD, Wilkey A, Subramani S, Schroeder A, Abdalla M, Ferreira R, Roman PE, Welsby I, Greilich PE, Ranucci M, Heller LB, Boer C, Hill SE, Nuttall GA, Palvadi RR, Patel PA, Patel N, Wilkey B, Gaitan B, Hill SS, Harvey R, Kwak J, Klick J, Bollen BA, Shore-Lesserson L, Abernathy J, Schwann N, Lau WT. Corrigendum to 'Society of Cardiovascular Anesthesiologists (SCA) Clinical Practice Improvement (CPI) Advisory for Management of Perioperative Bleeding and Hemostasis in Cardiac Surgery Patients' [Journal of Cardiothoracic and Vascular Anesthesia 33 (2019) 2887-2899]. *J Cardiothorac Vasc Anesth.* 2020 Mar;34(3):840-841. doi: 10.1053/j.jvca.2019.11.004. Epub 2019 Nov 20. Erratum for: *J Cardiothorac Vasc Anesth.* 2019 Nov;33(11):2887-2899. PMID: 31759860.
- Ranucci M, Di Dedda U, Baryshnikova E. Trials and Tribulations of Viscoelastic-Based Determination of Fibrinogen Concentration. *Anesth Analg.* 2020 Mar;130(3):644-653. doi: 10.1213/ANE.0000000000004522. PMID: 31725023.
- Bari V, Vaini E, Pistuddi V, Fantinato A, Cairo B, De Maria B, Dalla Vecchia LA, Ranucci M, Porta A. Comparison of Causal and Non-causal Strategies for the Assessment of Baroreflex Sensitivity in Predicting Acute Kidney Dysfunction After Coronary Artery Bypass Grafting. *Front Physiol.* 2019 Oct 18;10:1319. doi: 10.3389/fphys.2019.01319. PMID: 31681021; PMCID: PMC6813722.
- Raphael J, Mazer CD, Subramani S, Schroeder A, Abdalla M, Ferreira R, Roman PE, Patel N, Welsby I, Greilich PE, Harvey R, Ranucci M, Heller LB, Boer C, Wilkey A, Hill SE, Nuttall GA, Palvadi RR, Patel PA, Wilkey B, Gaitan B, Hill SS, Kwak J, Klick J, Bollen BA, Shore-Lesserson L, Abernathy J, Schwann N, Lau WT. Society of Cardiovascular Anesthesiologists Clinical Practice Improvement Advisory for Management of Perioperative Bleeding and Hemostasis in Cardiac Surgery Patients. *Anesth Analg.* 2019 Nov;129(5):1209-1221. doi: 10.1213/ANE.0000000000004355. Erratum in: *Anesth Analg.* 2020 Feb;130(2):e44. PMID: 31613811.
- Raphael J, Mazer CD, Subramani S, Schroeder A, Abdalla M, Ferreira R, Roman PE, Patel N, Welsby I, Greilich PE, Harvey R, Ranucci M, Heller LB, Boer C, Wilkey A, Hill SE, Nuttall GA, Palvadi RR, Patel PA, Wilkey B, Gaitan B, Hill SS, Kwak J, Klick J, Bollen BA, Shore-Lesserson L, Abernathy J, Schwann N, Lau WT. Society of Cardiovascular Anesthesiologists Clinical Practice Improvement Advisory for Management of Perioperative Bleeding and Hemostasis in Cardiac Surgery Patients. *J Cardiothorac Vasc Anesth.* 2019 Nov;33(11):2887-2899. doi: 10.1053/j.jvca.2019.04.003. Epub 2019 Apr 19. Erratum in: *J Cardiothorac Vasc Anesth.* 2020 Mar;34(3):840-841. PMID: 31604540.
- Authors/Task Force Members; Kunst G, Milojevic M, Boer C, De Somer FMJJ, Gudbjartsson T, van den Goor J, Jones TJ, Lomivorotov V, Merkle F, Ranucci M, Puis L, Wahba A; EACTS/EACTA/EBCP Committee Reviewers; Alston P, Fitzgerald D, Nikolic A, Onorati F, Rasmussen BS, Svenmarker S. 2019 EACTS/EACTA/EBCP guidelines on cardiopulmonary bypass in adult cardiac surgery. *Br J Anaesth.* 2019 Dec;123(6):713-757. doi: 10.1016/j.bja.2019.09.012. Epub 2019 Oct 2. PMID: 31585674.

- Puis L, Milojevic M, Boer C, De Somer FMJJ, Gudbjartsson T, van den Goor J, Jones TJ, Lomivorotov V, Merkle F, Ranucci M, Kunst G, Wahba A; EACTS/EACTA/EBCP Committee Reviewers. 2019 EACTS/EACTA/EBCP guidelines on cardiopulmonary bypass in adult cardiac surgery. *Interact Cardiovasc Thorac Surg*. 2020 Feb 1;30(2):161-202. doi: 10.1093/icvts/ivz251. PMID: 31576402.
- Wahba A, Milojevic M, Boer C, De Somer FMJJ, Gudbjartsson T, van den Goor J, Jones TJ, Lomivorotov V, Merkle F, Ranucci M, Kunst G, Puis L; EACTS/EACTA/EBCP Committee Reviewers. 2019 EACTS/EACTA/EBCP guidelines on cardiopulmonary bypass in adult cardiac surgery. *Eur J Cardiothorac Surg*. 2020 Feb 1;57(2):210-251. doi: 10.1093/ejcts/ezz267. PMID: 31576396.
- Ranucci M, Cotza M, Isgrò G, Carboni G, Ballotta A, Baryshnikova E; Surgical Clinical Outcome REsearch (SCORE) Group. Anti-Factor Xa-Based Anticoagulation during Extracorporeal Membrane Oxygenation: Potential Problems and Possible Solutions. *Semin Thromb Hemost*. 2020 Jun;46(4):419-427. doi: 10.1055/s-0039-1697950. Epub 2019 Sep 28. PMID: 31563131.
- Rasmussen SR, Kandler K, Nielsen RV, Cornelius Jakobsen P, Knudsen NN, Ranucci M, Christian Nilsson J, Ravn HB. Duration of critically low oxygen delivery is associated with acute kidney injury after cardiac surgery. *Acta Anaesthesiol Scand*. 2019 Nov;63(10):1290-1297. doi: 10.1111/aas.13457. Epub 2019 Sep 10. PMID: 31436307.
- Tarantini G, Nai Fovino L, D'Errigo P, Rosato S, Barbanti M, Tamburino C, Ranucci M, Santoro G, Badoni G, Seccareccia F; OBSERVANT Research Group. Factors influencing the choice between transcatheter and surgical treatment of severe aortic stenosis in patients younger than 80 years: Results from the OBSERVANT study. *Catheter Cardiovasc Interv*. 2020 May 1;95(6):E186-E195. doi: 10.1002/ccd.28447. Epub 2019 Aug 18. PMID: 31423704.
- Meybohm P, Westphal S, Ravn HB, Ranucci M, Agarwal S, Choorapoikayil S, Spahn DR, Ahmed AB, Froessler B, Zacharowski K. Perioperative Anemia Management as Part of PBM in Cardiac Surgery - A Narrative Updated Review. *J Cardiothorac Vasc Anesth*. 2020 Apr;34(4):1060-1073. doi: 10.1053/j.jvca.2019.06.047. Epub 2019 Jul 4. PMID: 31399306.
- Ranucci M, Baryshnikova E. Inflammation and coagulation following minimally invasive extracorporeal circulation technologies. *J Thorac Dis*. 2019 Jun;11(Suppl 10):S1480-S1488. doi: 10.21037/jtd.2019.01.27. PMID: 31293797; PMCID: PMC6586586.
- Barbanti M, Tamburino C, D'Errigo P, Biancari F, Ranucci M, Rosato S, Santoro G, Fusco D, Seccareccia F; OBSERVANT Research Group. Five-Year Outcomes of Transfemoral Transcatheter Aortic Valve Replacement or Surgical Aortic Valve Replacement in a Real World Population. *Circ Cardiovasc Interv*. 2019 Jul;12(7):e007825. doi: 10.1161/CIRCINTERVENTIONS.119.007825. Epub 2019 Jul 9. PMID: 31284737.
- Ranucci M, Bianchi P, Cotza M, Beccaris C, Silvetti S, Isgrò G, Giamberti A, Baryshnikova E. Fibrinogen levels and postoperative chest drain blood loss in low-weight (<10 kg) children undergoing cardiac surgery. *Perfusion*. 2019 Nov;34(8):629-636. doi: 10.1177/0267659119854246. Epub 2019 Jun 28. PMID: 31250738.

- Vaini E, Bari V, Fantinato A, Pistuddi V, Cairo B, De Maria B, Ranucci M, Porta A. Causality analysis reveals the link between cerebrovascular control and acute kidney dysfunction after coronary artery bypass grafting. *Physiol Meas*. 2019 Jul 1;40(6):064006. doi: 10.1088/1361-6579/ab21b1. PMID: 31091519.
- Morici N, Nava S, Sacco A, Viola G, Oreglia J, Meani P, Oliva F, Ranucci M, Leonardi S, Rossini R. Acute myocardial infarction complicating ischemic stroke: is there room for cangrelor? *Platelets*. 2020;31(1):120-123. doi: 10.1080/09537104.2019.1609663. Epub 2019 May 8. PMID: 31066332.
- Bari V, Vaini E, Pistuddi V, Fantinato A, Cairo B, De Maria B, Ranucci M, Porta A. Short-term multiscale complexity analysis of cardiovascular variability improves low cardiac output syndrome risk stratification after coronary artery bypass grafting. *Physiol Meas*. 2019 Apr 26;40(4):044001. doi: 10.1088/1361-6579/ab12f0. PMID: 30909175.
- Ranucci M, Di Dedda U, Baryshnikova E. Platelet Contribution to Clot Strength in Thromboelastometry: Count, Function, or Both? *Platelets*. 2020;31(1):88-93. doi: 10.1080/09537104.2019.1581920. Epub 2019 Mar 4. PMID: 30831043.
- Ranucci M. On the premature termination of the Goal-directed perfusion trial. *J Thorac Cardiovasc Surg*. 2019 May;157(5):e277-e279. doi: 10.1016/j.jtcvs.2018.12.080. Epub 2019 Feb 14. PMID: 30772043.
- Cinnella G, Pavesi M, De Gasperi A, Ranucci M, Mirabella L. Clinical standards for patient blood management and perioperative hemostasis and coagulation management. Position Paper of the Italian Society of Anesthesia, Analgesia, Resuscitation and Intensive Care (SIAARTI). *Minerva Anesthesiol*. 2019 Jun;85(6):635-664. doi: 10.23736/S0375-9393.19.12151-7. Epub 2019 Feb 13. PMID: 30762323.
- Baryshnikova E, Di Dedda U, Ranucci M. A Comparative Study of SEER Sonorheometry Versus Standard Coagulation Tests, Rotational Thromboelastometry, and Multiple Electrode Aggregometry in Cardiac Surgery. *J Cardiothorac Vasc Anesth*. 2019 Jun;33(6):1590-1598. doi: 10.1053/j.jvca.2019.01.011. Epub 2019 Jan 4. PMID: 30737122.
- Scolletta S, Simioni P, Campagnolo V, Celiento M, Fontanari P, Guadagnucci A, Guarracino F, Haxhiademi D, Paniccia R, Simeone F, Ranucci M; Granducato Research Group. Patient blood management in cardiac surgery: The "Granducato algorithm". *Int J Cardiol*. 2019 Aug 15;289:37-42. doi: 10.1016/j.ijcard.2019.01.025. Epub 2019 Jan 11. PMID: 30711263.
- Ranucci M, de Vincentiis C, Menicanti L, La Rovere MT, Pistuddi V. A gender-based analysis of the obesity paradox in cardiac surgery: height for women, weight for men? *Eur J Cardiothorac Surg*. 2019 Jul 1;56(1):72-78. doi: 10.1093/ejcts/ezy454. PMID: 30657927.
- Ranucci M, Ambrogi F, Pistuddi V. Cardiac surgery associated acute kidney injury and the role of cardiopulmonary bypass technique. *J Thorac Cardiovasc Surg*. 2019 Jan;157(1):301. doi: 10.1016/j.jtcvs.2018.08.033. PMID: 30557946.
- Silveti S, Ranucci M, Pistuddi V, Isgrò G, Ballotta A, Ferraris L, Cotza M. Bloodstream infections during post-cardiotomy extracorporeal membrane oxygenation: Incidence, risk

factors, and outcomes. *Int J Artif Organs*. 2019 Jun;42(6):299-306. doi: 10.1177/0391398818817325. Epub 2018 Dec 11. PMID: 30537880.

- Ranucci M, Barile L, Ambrogi F, Pistuddi V; Surgical and Clinical Outcome Research (SCORE) Group. Discrimination and calibration properties of the hypotension probability indicator during cardiac and vascular surgery. *Minervan Anesthesiol*. 2019 Jul;85(7):724-730. doi: 10.23736/S0375-9393.18.12620-4. Epub 2018 Nov 22. PMID: 30481996.
- Faes L, Bari V, Ranucci M, Porta A. Multiscale Decomposition of Cardiovascular and Cardiorespiratory Information Transfer under General Anesthesia. *Annu Int Conf IEEE Eng Med Biol Soc*. 2018 Jul;2018:4607-4610. doi: 10.1109/EMBC.2018.8513191. PMID: 30441378.
- Bari V, Vaini E, De Maria B, Cairo B, Pistuddi V, Ranucci M, Porta A. Comparison of Different Strategies to Assess Cardiac Baroreflex Sensitivity Based on Transfer Function Technique in Patients Undergoing General Anesthesia. *Annu Int Conf IEEE Eng Med Biol Soc*. 2018 Jul;2018:2780-2783. doi: 10.1109/EMBC.2018.8512782. PMID: 30440978.
- Ranucci M, Pistuddi V, Di Dedda U, Menicanti L, De Vincentiis C, Baryshnikova E. Platelet function after cardiac surgery and its association with severe postoperative bleeding: the PLATFORM study. *Platelets*. 2019;30(7):908-914. doi: 10.1080/09537104.2018.1535706. Epub 2018 Oct 26. PMID: 30365338.
- Ranucci M, Aloisio T, Cazzaniga A, Di Dedda U, Gallazzi C, Pistuddi V. Validation of renal-risk models for the prediction of non-renal replacement therapy cardiac surgery-associated acute kidney injury. *Int J Cardiol*. 2018 Dec 1;272:49-53. doi: 10.1016/j.ijcard.2018.07.114. Epub 2018 Jul 24. PMID: 30078648.
- Ciconte G, Santinelli V, Brugada J, Vicedomini G, Conti M, Monasky MM, Borrelli V, Castracane W, Aloisio T, Giannelli L, Di Dedda U, Pozzi P, Ranucci M, Pappone C. General Anesthesia Attenuates Brugada Syndrome Phenotype Expression: Clinical Implications From a Prospective Clinical Trial. *JACC Clin Electrophysiol*. 2018 Apr;4(4):518-530. doi: 10.1016/j.jacep.2017.11.013. Epub 2018 Feb 13. PMID: 30067493.
- Ranucci M, Aloisio T, Dedda UD, La Rovere MT, De Arroyabe BML, Baryshnikova E. Platelet reactivity in overweight and obese patients undergoing cardiac surgery. *Platelets*. 2019;30(5):608-614. doi: 10.1080/09537104.2018.1492108. Epub 2018 Jul 9. PMID: 29985729.
- 107: Silvetti S, Aloisio T, Cazzaniga A, Ranucci M. Jugular vs femoral vein for central venous catheterization in pediatric cardiac surgery (PRECiSE): study protocol for a randomized controlled trial. *Trials*. 2018 Jun 25;19(1):329. doi: 10.1186/s13063-018-2717-1. PMID: 29941012; PMCID: PMC6019231.
- Garatti A, Parolari A, Canziani A, Mossuto E, Daprati A, Abu Farah A, Brugnetti D, Ranucci M, Menicanti L. Is female sex an independent risk factor for early mortality in isolated coronary artery bypass graft? A propensity-matched analysis. *J Cardiovasc Med (Hagerstown)*. 2018 Sep;19(9):497-502. doi: 10.2459/JCM.0000000000000659. PMID: 29917004.

- Barbanti M, Buccheri S, Capodanno D, D'Errigo P, Ranucci M, Rosato S, Santoro G, Fusco D, Tamburino C, Biancari F, Seccareccia F; OBSERVANT Research Group. Transcatheter or surgical treatment of severe aortic stenosis and coronary artery disease: A comparative analysis from the Italian OBSERVANT study. *Int J Cardiol*. 2018 Nov 1;270:102-106. doi: 10.1016/j.ijcard.2018.06.011. Epub 2018 Jun 7. PMID: 29903519.
- Ranucci M, Johnson I, Willcox T, Baker RA, Boer C, Baumann A, Justison GA, de Somer F, Exton P, Agarwal S, Parke R, Newland RF, Haumann RG, Buchwald D, Weitzel N, Venkateswaran R, Ambrogi F, Pistuddi V. Goal-directed perfusion to reduce acute kidney injury: A randomized trial. *J Thorac Cardiovasc Surg*. 2018 Nov;156(5):1918-1927.e2. doi: 10.1016/j.jtcvs.2018.04.045. Epub 2018 Apr 18. PMID: 29778331.
- Di Dedda U, Ranucci M, Porta A, Bari V, Ascari A, Fantinato A, Baryshnikova E, Cotza M. The combined effects of the microcirculatory status and cardiopulmonary bypass on platelet count and function during cardiac surgery. *Clin Hemorheol Microcirc*. 2018;70(3):327-337. doi: 10.3233/CH-180391. PMID: 29710690.
- Ranucci M, Porta A, Bari V, Pistuddi V, La Rovere MT. Correction: Baroreflex sensitivity and outcomes following coronary surgery. *PLoS One*. 2018 Feb 12;13(2):e0193038. doi: 10.1371/journal.pone.0193038. Erratum for: *PLoS One*. 2017 Apr 6;12 (4):e0175008. PMID: 29432469; PMCID: PMC5809085.
- Bari V, Ranucci M, De Maria B, Cairo B, Pistuddi V, Porta A. Model-based directional analysis of cardiovascular variability identifies patients developing atrial fibrillation after coronary artery bypass grafting. *Int J Cardiol*. 2018 May 1;258:97-102. doi: 10.1016/j.ijcard.2018.01.071. Epub 2018 Feb 2. PMID: 29426634.
- De Maria B, Bari V, Ranucci M, Pistuddi V, Ranuzzi G, Takahashi ACM, Catai AM, Dalla Vecchia L, Cerutti S, Porta A. Separating arterial pressure increases and decreases in assessing cardiac baroreflex sensitivity via sequence and bivariate phase-rectified signal averaging techniques. *Med Biol Eng Comput*. 2018 Jul;56(7):1241-1252. doi: 10.1007/s11517-017-1765-0. Epub 2017 Dec 13. PMID: 29235056.
- Ranucci M, Ranucci M, Baryshnikova E. An ex-vivo model of shear-rate-based activation of blood coagulation. *Blood Coagul Fibrinolysis*. 2018 Mar;29(2):172-177. doi: 10.1097/MBC.0000000000000688. PMID: 29227293.
- Bari V, Ranucci M, De Maria B, Ranuzzi G, Pistuddi V, Porta A. Towards the identification of subjects prone to develop atrial fibrillation after coronary artery bypass graft surgery via univariate and multivariate complexity analysis of heart period variability. *Annu Int Conf IEEE Eng Med Biol Soc*. 2017 Jul;2017:3126-3129. doi: 10.1109/EMBC.2017.8037519. PMID: 29060560.
- Task Force on Patient Blood Management for Adult Cardiac Surgery of the European Association for Cardio-Thoracic Surgery (EACTS) and the European Association of Cardiothoracic Anaesthesiology (EACTA); Boer C, Meesters MI, Milojevic M, Benedetto U, Bolliger D, von Heymann C, Jeppsson A, Koster A, Osnabrugge RL, Ranucci M, Ravn HB, Vonk ABA, Wahba A, Pagano D. 2017 EACTS/EACTA Guidelines on patient blood management for adult cardiac surgery. *J Cardiothorac Vasc Anesth*. 2018 Feb;32(1):88-120. doi: 10.1053/j.jvca.2017.06.026. Epub 2017 Sep 30. PMID: 29029990.

- Pagano D, Milojevic M, Meesters MI, Benedetto U, Bolliger D, von Heymann C, Jeppsson A, Koster A, Osnabrugge RL, Ranucci M, Ravn HB, Vonk ABA, Wahba A, Boer C. 2017 EACTS/EACTA Guidelines on patient blood management for adult cardiac surgery. *Eur J Cardiothorac Surg*. 2018 Jan 1;53(1):79-111. doi: 10.1093/ejcts/ezx325. PMID: 29029100.
- Ranucci M, Baryshnikova E, Ranucci M, Silvetti S; Surgical and Clinical Outcome Research (SCORE) Group. Fibrinogen levels compensation of thrombocytopenia-induced bleeding following cardiac surgery. *Int J Cardiol*. 2017 Dec 15;249:96-100. doi: 10.1016/j.ijcard.2017.09.157. Epub 2017 Sep 29. PMID: 28986056.
- Schöchl H, Grottke O, Sutor K, Dony K, Schreiber M, Ranucci M, Collins PW. Theoretical Modeling of Coagulation Management With Therapeutic Plasma or Prothrombin Complex Concentrate. *Anesth Analg*. 2017 Nov;125(5):1471-1474. doi: 10.1213/ANE.0000000000002410. PMID: 28857856; PMCID: PMC5642320.
- D'Errigo P, Biancari F, Rosato S, Tamburino C, Ranucci M, Santoro G, Barbanti M, Ventura M, Fusco D, Seccareccia F. Transcatheter aortic valve implantation compared with surgical aortic valve replacement in patients with anaemia. *Acta Cardiol*. 2018 Feb;73(1):50-59. doi: 10.1080/00015385.2017.1327627. Epub 2017 Aug 16. PMID: 28812435.
- Ranucci M, Baryshnikova E, Ciotti E, Ranucci M, Silvetti S; Surgical and Clinical Outcome REsearch (SCORE) Group. Hemodilution on Cardiopulmonary Bypass: Thromboelastography Patterns and Coagulation-Related Outcomes. *J Cardiothorac Vasc Anesth*. 2017 Oct;31(5):1588-1594. doi: 10.1053/j.jvca.2017.04.014. Epub 2017 Apr 13. PMID: 28778772.
- Seccareccia F, Tarantini G, Bedogni F, Berti S, Santoro G, Tamburino C, Ussia GP, Barbanti M, Baiocchi M, Ranucci M, D'Errigo P, Rosato S, Musumeci G; Gruppo di Lavoro OBSERVANT II. OBSERVANT II: studio osservazionale per la valutazione di efficacia delle procedure transcatetere con dispositivi di nuova generazione nel trattamento della stenosi aortica sintomatica severa. Protocollo di studio [OBSERVANT II: OBServational Study of Effectiveness of transcatheter aortic valve implantation with new geneRation deVices for severe Aortic steNosis Treatment. Study protocol]. *G Ital Cardiol (Rome)*. 2017 Jun;18(6 Suppl 1):14S-26S. Italian. doi: 10.1714/2718.27731. PMID: 28652629.
- Bedogni F, Frigiola A, Ranucci M, Brambilla N, Montone RA, Agnifili M, Menicanti L, Testa L. Transcatheter aortic valve replacement-state of the art and a glimpse to the future: 'the Tailored Approach'. *Eur Heart J Suppl*. 2016 Apr 28;18(Suppl E):E86-E95. doi: 10.1093/eurheartj/suw017. Epub 2016 Apr 29. PMID: 28533722.
- Cotza M, Carboni G, Ballotta A, Kandil H, Isgrò G, Carlucci C, Varrica A, Garatti A, Giamberti A, Ranucci M. Modern ECMO: why an ECMO programme in a tertiary care hospital. *Eur Heart J Suppl*. 2016 Apr 28;18(Suppl E):E79-E85. doi: 10.1093/eurheartj/suw016. Epub 2016 Apr 29. PMID: 28533721.
- Frigiola A, Moussaidi N, Giamberti A, Pomé G, Isgrò G, Youssef T, Reali M, Varrica A, Nuri HA, Cirri S, Carminati M, Menicanti L, Ferrari R, Ranucci M. International cooperation in healthcare: model of IRCCS Policlinico San Donato and Bambini Cardiopatici nel Mondo Association for congenital heart diseases. *Eur Heart J Suppl*. 2016 Apr 28;18(Suppl E):E72-E78. doi: 10.1093/eurheartj/suw023. Epub 2016 Apr 29. PMID: 28533720.

- Baryshnikova E, Ranucci M. Point-of-care haemostasis and coagulation monitoring in cardiac surgery at IRCCS Policlinico San Donato. *Eur Heart J Suppl.* 2016 Apr 28;18(Suppl E):E42-E48. doi: 10.1093/eurheartj/suw013. Epub 2016 Apr 29. PMID: 28533716.
- Isgrò G, Carlucci C, Giamberti A, Frigiola A, Ranucci M. Rhinocerebral zygomycosis: an unusual dramatic presentation in a paediatric cardiac patient without risk factors. *Eur Heart J Suppl.* 2016 Apr 28;18(Suppl E):E19-E21. doi: 10.1093/eurheartj/suw029. Epub 2016 Apr 29. PMID: 28533711.
- Giamberti A, Varrica A, Pomè G, Micheletti A, Negura D, Ranucci M, Carminati M, Frigiola A, Chessa M. The care for adults with congenital heart disease: organization and function of a grown-up congenital heart disease unit. *Eur Heart J Suppl.* 2016 Apr 28;18(Suppl E):E15-E18. doi: 10.1093/eurheartj/suw011. Epub 2016 Apr 29. PMID: 28533710.
- Silveti S, Ranucci M, Isgrò G, Villa V, Costa E. Preoperative colonization in pediatric cardiac surgery and its impact on postoperative infections. *Paediatr Anaesth.* 2017 Aug;27(8):849-855. doi: 10.1111/pan.13169. Epub 2017 May 15. PMID: 28504326.
- Ranucci M, Pistuddi V, Scolletta S, de Vincentiis C, Menicanti L. The ACEF II Risk Score for cardiac surgery: updated but still parsimonious. *Eur Heart J.* 2018 Jun 14;39(23):2183-2189. doi: 10.1093/eurheartj/ehx228. PMID: 28498904.
- Ranucci M. The Hidden Traps of Meta-Analyses on Cardiac Surgery Mortality Risk Scores. *Am J Cardiol.* 2017 Jul 15;120(2):337-338. doi: 10.1016/j.amjcard.2017.02.034. Epub 2017 Mar 18. PMID: 28395887.
- Ranucci M, Porta A, Bari V, Pistuddi V, La Rovere MT. Baroreflex sensitivity and outcomes following coronary surgery. *PLoS One.* 2017 Apr 6;12(4):e0175008. doi: 10.1371/journal.pone.0175008. Erratum in: *PLoS One.* 2018 Feb 12;13(2):e0193038. PMID: 28384188; PMCID: PMC5383149.
- Iapichino GE, Bianchi P, Ranucci M, Baryshnikova E. Point-of-Care Coagulation Tests Monitoring of Direct Oral Anticoagulants and Their Reversal Therapy: State of the Art. *Semin Thromb Hemost.* 2017 Jun;43(4):423-432. doi: 10.1055/s-0037-1599157. Epub 2017 Mar 27. PMID: 28346965.
- Ranucci M, Baryshnikova E For The Surgical And Clinical Outcome Research Score Group. The interaction between preoperative platelet count and function and its relationship with postoperative bleeding in cardiac surgery. *Platelets.* 2017 Dec;28(8):794-798. doi: 10.1080/09537104.2017.1280148. Epub 2017 Mar 2. PMID: 28277058.
- Bari V, Ranucci M, Marchi A, De Maria B, Pistuddi V, Porta A. Cardiovascular interactions assessed via conditional joint transfer entropy in patients developing atrial fibrillation after coronary artery bypass graft surgery. *Annu Int Conf IEEE Eng Med Biol Soc.* 2016 Aug;2016:2937-2940. doi: 10.1109/EMBC.2016.7591345. PMID: 28268929.
- Marrocco-Trischitta MM, de Beaufort HW, Secchi F, van Bakel TM, Ranucci M, van Herwaarden JA, Moll FL, Trimarchi S. A geometric reappraisal of proximal landing zones

for thoracic endovascular aortic repair according to aortic arch types. *J Vasc Surg.* 2017 Jun;65(6):1584-1590. doi: 10.1016/j.jvs.2016.10.113. Epub 2017 Feb 20. PMID: 28222992.

- Tramarin R, Pistuddi V, Maresca L, Pavesi M, Castelveccchio S, Menicanti L, de Vincentiis C, Ranucci M; Surgical and Clinical Outcome Research (SCORE) Group. Patterns and determinants of functional and absolute iron deficiency in patients undergoing cardiac rehabilitation following heart surgery. *Eur J Prev Cardiol.* 2017 May;24(8):799-807. doi: 10.1177/2047487317689975. Epub 2017 Jan 24. PMID: 28117617.
- Rizza A, Ricci Z, Pezzella C, Favia I, Di Felice G, Ranucci M, Cogo P. Kaolin-activated thromboelastography and standard coagulation assays in cyanotic and acyanotic infants undergoing complex cardiac surgery: a prospective cohort study. *Paediatr Anaesth.* 2017 Feb;27(2):170-180. doi: 10.1111/pan.13038. Epub 2016 Dec 9. PMID: 27935164.
- Ranucci M, Baryshnikova E, Pistuddi V, Menicanti L, Frigiola A; Surgical and Clinical Outcome REsearch (SCORE) Group. The effectiveness of 10 years of interventions to control postoperative bleeding in adult cardiac surgery. *Interact Cardiovasc Thorac Surg.* 2017 Feb 1;24(2):196-202. doi: 10.1093/icvts/ivw339. PMID: 27756812.
- Giamberti A, Pluchinotta FR, Chessa M, Varrica A, Vitale R, Frigiola A, Pappone C, Ranucci M. Surgery for supraventricular tachycardia and congenital heart defects: long-term efficacy of the combined approach in adult patients. *Europace.* 2017 Sep 1;19(9):1542-1548. doi: 10.1093/europace/euw278. PMID: 27738072.
- Cottini M, Ranucci M, Facciolo C, Satriano A, Kandill H, Bettini F, De Vincentis C, Cotza M, Ballotta A. 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. *Int J Cardiol.* 2016 Nov 1;222:401-403. doi: 10.1016/j.ijcard.2016.07.248. Epub 2016 Jul 30. PMID: 27505323.
- D'Errigo P, Ranucci M, Covello RD, Biancari F, Rosato S, Barbanti M, Onorati F, Tamburino C, Santoro G, Grossi C, Santini F, Bontempi K, Fusco D, Seccareccia F; OBSERVANT Research Group. Outcome After General Anesthesia Versus Monitored Anesthesia Care in Transfemoral Transcatheter Aortic Valve Replacement. *J Cardiothorac Vasc Anesth.* 2016 Oct;30(5):1238-43. doi: 10.1053/j.jvca.2016.05.034. Epub 2016 May 21. PMID: 27495961.
- Ranucci M, Carboni G, Cotza M, de Somer F. Carbon dioxide production during cardiopulmonary bypass: pathophysiology, measure and clinical relevance. *Perfusion.* 2017 Jan;32(1):4-12. doi: 10.1177/0267659116659919. Epub 2016 Jul 18. PMID: 27435871.
- Ranucci M. Invited Commentary. *Ann Thorac Surg.* 2016 Jul;102(1):117. doi: 10.1016/j.athoracsur.2016.01.028. PMID: 27343495.
- Ranucci M. Detection of inherited and acquired hemostatic disorders in surgical patients. *Can J Anaesth.* 2016 Sep;63(9):1003-6. English. doi: 10.1007/s12630-016-0687-x. Epub 2016 Jun 24. PMID: 27341813.
- Biancari F, D'Errigo P, Rosato S, Pol M, Tamburino C, Ranucci M, Seccareccia F. Transcatheter aortic valve replacement in nonagenarians: early and intermediate outcome

from the OBSERVANT study and meta-analysis of the literature. *Heart Vessels*. 2017 Feb;32(2):157-165. doi: 10.1007/s00380-016-0857-3. Epub 2016 Jun 1. PMID: 27251569.

- Rosato S, Santini F, Barbanti M, Biancari F, D'Errigo P, Onorati F, Tamburino C, Ranucci M, Covello RD, Santoro G, Grossi C, Ventura M, Fusco D, Seccareccia F; OBSERVANT Research Group. Transcatheter Aortic Valve Implantation Compared With Surgical Aortic Valve Replacement in Low-Risk Patients. *Circ Cardiovasc Interv*. 2016 May;9(5):e003326. doi: 10.1161/CIRCINTERVENTIONS.115.003326. PMID: 27154298.
- D'Errigo P, Moretti C, D'Ascenzo F, Rosato S, Biancari F, Barbanti M, Santini F, Ranucci M, Miceli A, Tamburino C, Onorati F, Santoro G, Grossi C, Fusco D, Seccareccia F; OBSERVANT Research Group. Transcatheter Aortic Valve Implantation Versus Surgical Aortic Valve Replacement for Severe Aortic Stenosis in Patients With Chronic Kidney Disease Stages 3b to 5. *Ann Thorac Surg*. 2016 Aug;102(2):540-7. doi: 10.1016/j.athoracsur.2016.01.109. Epub 2016 Apr 26. PMID: 27130249.
- Ranucci M, Baryshnikova E, Cotza M, Carboni G, Isgrò G, Carlucci C, Ballotta A; Group for the Surgical and Clinical Outcome Research (SCORE). Coagulation monitoring in postcardiotomy ECMO: conventional tests, point-of-care, or both? *Minerva Anestesiol*. 2016 Aug;82(8):858-66. Epub 2016 Apr 6. PMID: 27050286.
- Ranucci M, Pistuddi V, Baryshnikova E, Colella D, Bianchi P. Fibrinogen Levels After Cardiac Surgical Procedures: Association With Postoperative Bleeding, Trigger Values, and Target Values. *Ann Thorac Surg*. 2016 Jul;102(1):78-85. doi: 10.1016/j.athoracsur.2016.01.005. Epub 2016 Mar 26. PMID: 27021032.
- Anastasiadis K, Antonitsis P, Ranucci M, Murkin J. Minimally Invasive Extracorporeal Circulation (MiECC): Towards a More Physiologic Perfusion. *J Cardiothorac Vasc Anesth*. 2016 Apr;30(2):280-1. doi: 10.1053/j.jvca.2016.01.018. Epub 2016 Jan 13. PMID: 27013118.
- Ranucci M, Pistuddi V, Pisani GP, Carlucci C, Isgrò G, Frigiola A, Pomè G, Giamberti A; on behalf of the Surgical and Clinical Outcome Research (SCORE) Group. Retuning mortality risk prediction in paediatric cardiac surgery: the additional role of early postoperative metabolic and respiratory profile. *Eur J Cardiothorac Surg*. 2016 Oct;50(4):642-649. doi: 10.1093/ejcts/ezw102. Epub 2016 Mar 24. PMID: 27013073.
- Fraccaro C, Tarantini G, Rosato S, Tellaroli P, D'Errigo P, Tamburino C, Onorati F, Ranucci M, Barbanti M, Grossi C, Santoro G, Santini F, Covello RD, Fusco D, Seccareccia F; OBSERVANT Research Group. Early and Midterm Outcome of Propensity-Matched Intermediate-Risk Patients Aged ≥ 80 Years With Aortic Stenosis Undergoing Surgical or Transcatheter Aortic Valve Replacement (from the Italian Multicenter OBSERVANT Study). *Am J Cardiol*. 2016 May 1;117(9):1494-501. doi: 10.1016/j.amjcard.2016.02.020. Epub 2016 Feb 17. PMID: 26993427.
- Barbanti M, Tamburino C, D'Errigo P, Ranucci M, Onorati F, Covello RD, Santini F, Rosato S, Santoro G, Fusco D, Grossi C, Seccareccia F; OBSERVANT Research Group. Reply: TAVI in Lower Risk Patients: Revolution or Nonsense? Keep Calm and Select Patients. *J Am Coll Cardiol*. 2016 Mar 22;67(11):1381-2. doi: 10.1016/j.jacc.2016.01.014. PMID: 26988964.

- Anastasiadis K, Murkin J, Antonitsis P, Bauer A, Ranucci M, Gyax E, Schaarschmidt J, Fromes Y, Philipp A, Eberle B, Punjabi P, Argiriadou H, Kadner A, Jenni H, Albrecht G, van Boven W, Liebold A, de Somer F, Hausmann H, Deliopoulos A, El-Essawi A, Mazzei V, Biancari F, Fernandez A, Weerwind P, Puehler T, Serrick C, Waanders F, Gunaydin S, Ohri S, Gummert J, Angelini G, Falk V, Carrel T. Use of minimal invasive extracorporeal circulation in cardiac surgery: principles, definitions and potential benefits. A position paper from the Minimal invasive Extra-Corporeal Technologies international Society (MiECTiS). *Interact Cardiovasc Thorac Surg.* 2016 May;22(5):647-62. doi: 10.1093/icvts/ivv380. Epub 2016 Jan 26. PMID: 26819269; PMCID: PMC4892134.
- Ranucci M, Di Dedda U, Castelvechio S, La Rovere MT, Menicanti L; Surgical and Clinical Outcome Research (SCORE) Group. In search of the ideal risk-scoring system for very high-risk cardiac surgical patients: a two-stage approach. *J Cardiothorac Surg.* 2016 Jan 19;11:13. doi: 10.1186/s13019-016-0405-3. PMID: 26782077; PMCID: PMC4717657.
- Crapelli GB, Bianchi P, Isgro G, Biondi A, de Vincentiis C, Ranucci M. A Case of Fatal Bleeding Following Emergency Surgery on an Ascending Aorta Intramural Hematoma in a Patient Taking Dabigatran. *J Cardiothorac Vasc Anesth.* 2016 Aug;30(4):1027-31. doi: 10.1053/j.jvca.2015.10.017. Epub 2015 Oct 27. PMID: 26774200.
- Porta A, Bari V, Marchi A, De Maria B, Pistuddi V, Ranucci M. General anesthesia reduces the information exchange between heart and circulation. *Annu Int Conf IEEE Eng Med Biol Soc.* 2015 Aug;2015:4029-32. doi: 10.1109/EMBC.2015.7319278. PMID: 26737178.
- Biancari F, Rosato S, D'Errigo P, Ranucci M, Onorati F, Barbanti M, Santini F, Tamburino C, Santoro G, Grossi C, Covello RD, Ventura M, Fusco D, Seccareccia F; OBSERVANT Research Group. Immediate and Intermediate Outcome After Transapical Versus Transfemoral Transcatheter Aortic Valve Replacement. *Am J Cardiol.* 2016 Jan 15;117(2):245-51. doi: 10.1016/j.amjcard.2015.10.036. Epub 2015 Nov 6. PMID: 26639038.
- Ranucci M. Reply: To PMID 25916873. *Ann Thorac Surg.* 2015 Nov;100(5):1967-8. doi: 10.1016/j.athoracsur.2015.05.063. PMID: 26522554.
- Ranucci M. Outcome measures and quality markers for perioperative blood loss and transfusion in cardiac surgery. *Can J Anaesth.* 2016 Feb;63(2):169-75. doi: 10.1007/s12630-015-0515-8. PMID: 26493314.
- Miceli A, Ranucci M, Glauber M. Fibrinogen concentrate as first-line hemostatic treatment for the management of bleeding in complex cardiac surgery. *J Thorac Cardiovasc Surg.* 2016 Feb;151(2):383-4. doi: 10.1016/j.jtcvs.2015.09.023. Epub 2015 Sep 18. PMID: 26470911.
- Solomon C, Ranucci M, Hochleitner G, Schöchl H, Schlimp CJ. Assessing the Methodology for Calculating Platelet Contribution to Clot Strength (Platelet Component) in Thromboelastometry and Thrombelastography. *Anesth Analg.* 2015 Oct;121(4):868-878. doi: 10.1213/ANE.0000000000000859. PMID: 26378699; PMCID: PMC4568902.
- Tamburino C, Barbanti M, D'Errigo P, Ranucci M, Onorati F, Covello RD, Santini F, Rosato S, Santoro G, Fusco D, Grossi C, Seccareccia F; OBSERVANT Research Group. 1-Year Outcomes After Transfemoral Transcatheter or Surgical Aortic Valve Replacement: Results

From the Italian OBSERVANT Study. *J Am Coll Cardiol*. 2015 Aug 18;66(7):804-812. doi: 10.1016/j.jacc.2015.06.013. PMID: 26271063.

- Ranucci M, Baryshnikova E, Crapelli GB, Ranucci M, Meloni S, Pistuddi V; Clinical and Surgical Outcome Research Score Group. Electric impedance platelet aggregometry in cardiac surgery patients: A comparative study of two technologies. *Platelets*. 2016;27(3):185-90. doi: 10.3109/09537104.2015.1065962. Epub 2015 Aug 13. PMID: 26270439.
- Solomon C, Schöchl H, Ranucci M, Schlimp CJ. Can the Viscoelastic Parameter α -Angle Distinguish Fibrinogen from Platelet Deficiency and Guide Fibrinogen Supplementation? *Anesth Analg*. 2015 Aug;121(2):289-301. doi: 10.1213/ANE.0000000000000738. Erratum in: *Anesth Analg*. 2016 Sep;123(3):804. PMID: 26197367.
- Ohno Y, Attizzani GF, Barbanti M, D'Errigo P, Grossi C, Covello RD, Onorati F, Santini F, Ranucci M, Rosato S, Santoro G, Fusco D, Tamburino C, Seccareccia F; OBSERVANT Research Group. Transcatheter Aortic Valve Replacement for Severe Aortic Stenosis Patients Undergoing Chronic Dialysis. *J Am Coll Cardiol*. 2015 Jul 7;66(1):93-4. doi: 10.1016/j.jacc.2015.03.598. PMID: 26139065.
- Ranucci M. The conundrum of anticoagulation and hemostatic management in ECMO patients. *Minerva Anesthesiol*. 2016 Feb;82(2):147-8. Epub 2015 Jun 30. PMID: 26125688.
- Ranucci M, Baryshnikova E, Crapelli GB, Rahe-Meyer N, Menicanti L, Frigiola A; Surgical Clinical Outcome REsearch (SCORE) Group. Randomized, double-blinded, placebo-controlled trial of fibrinogen concentrate supplementation after complex cardiac surgery. *J Am Heart Assoc*. 2015 Jun 2;4(6):e002066. doi: 10.1161/JAHA.115.002066. PMID: 26037084; PMCID: PMC4599543.
- Ranucci M, Carboni G, Cotza M, Bianchi P, Di Dedda U, Aloisio T; Surgical and Clinical Outcome Research (SCORE) Group. Hemodilution on cardiopulmonary bypass as a determinant of early postoperative hyperlactatemia. *PLoS One*. 2015 May 18;10(5):e0126939. doi: 10.1371/journal.pone.0126939. PMID: 25992896; PMCID: PMC4436314.
- Ranucci M, Aloisio T, Carboni G, Ballotta A, Pistuddi V, Menicanti L, Frigiola A; Surgical and Clinical Outcome REsearch (SCORE) Group. Acute Kidney Injury and Hemodilution During Cardiopulmonary Bypass: A Changing Scenario. *Ann Thorac Surg*. 2015 Jul;100(1):95-100. doi: 10.1016/j.athoracsur.2015.02.034. Epub 2015 Apr 24. PMID: 25916873.
- Castelvechio S, Menicanti L, Ranucci M; Surgical and Clinical Outcome Research (SCORE) Group. Development and validation of a risk score for predicting operative mortality in heart failure patients undergoing surgical ventricular reconstruction. *Eur J Cardiothorac Surg*. 2015 May;47(5):e199-205. doi: 10.1093/ejcts/ezv023. Epub 2015 Feb 16. PMID: 25691068.
- Solomon C, Schöchl H, Ranucci M, Schött U, Schlimp CJ. Comparison of fibrin-based clot elasticity parameters measured by free oscillation rheometry (ReoRox ®) versus thromboelastometry (ROTEM ®). *Scand J Clin Lab Invest*. 2015 May;75(3):239-46. doi:

10.3109/00365513.2014.993698. Epub 2015 Jan 19. Erratum in: Scand J Clin Lab Invest. 2016 Oct;76(6):513. PMID: 25598348; PMCID: PMC4389733.

- Ranucci M. Hemostatic and thrombotic issues in cardiac surgery. *Semin Thromb Hemost.* 2015 Feb;41(1):84-90. doi: 10.1055/s-0034-1398383. Epub 2015 Jan 15. PMID: 25590527.
- Ranucci M, Castelvechio S, Biondi A, De Vincentiis C, Ballotta A, Varrica A, Frigiola A, Menicanti L. The authors reply. *Crit Care Med.* 2014 Nov;42(11):e729-30. doi: 10.1097/CCM.0000000000000623. PMID: 25319924.
- Ranucci M, Baryshnikova E, Isgrò G, Carlucci C, Cotza M, Carboni G, Ballotta A. Heparin-like effect in postcardiotomy extracorporeal membrane oxygenation patients. *Crit Care.* 2014 Sep 5;18(5):504. doi: 10.1186/s13054-014-0504-2. PMID: 25189998; PMCID: PMC4172857.
- Ranucci M, Ranucci M, Laddomada T, Baryshnikova E, Nano G, Trimarchi S. Plasma viscosity, functional fibrinogen, and platelet reactivity in vascular surgery patients. *Clin Hemorheol Microcirc.* 2015;61(3):417-27. doi: 10.3233/CH-141866. PMID: 25171590.
- Faraoni D, Samama CM, Ranucci M, Dietrich W, Levy JH. Perioperative management of patients receiving new oral anticoagulants: an international survey. *Clin Lab Med.* 2014 Sep;34(3):637-54. doi: 10.1016/j.cll.2014.06.006. Epub 2014 Jul 23. PMID: 25168948.
- Martinez-Lopez de Arroyabe B, Peressutti R, de Carlis L, Muzzi R, Ranucci M, Livi U. Ventricular assist devices: from bridge to transplantation to bridge to organ donation. *J Cardiothorac Vasc Anesth.* 2015;29(3):738-40. doi: 10.1053/j.jvca.2014.01.011. Epub 2014 Jul 4. PMID: 25001037.
- Ranucci M, Laddomada T, Ranucci M, Baryshnikova E. Blood viscosity during coagulation at different shear rates. *Physiol Rep.* 2014 Jul 3;2(7):e12065. doi: 10.14814/phy2.12065. PMID: 24994896; PMCID: PMC4187573.
- Moret E, Jacob MW, Ranucci M, Schramko AA. Albumin-Beyond Fluid Replacement in Cardiopulmonary Bypass Surgery: Why, How, and When? *Semin Cardiothorac Vasc Anesth.* 2014 Sep;18(3):252-9. doi: 10.1177/1089253214535667. Epub 2014 May 26. PMID: 24862323.
- Capodanno D, Barbanti M, Tamburino C, D'Errigo P, Ranucci M, Santoro G, Santini F, Onorati F, Grossi C, Covello RD, Capranzano P, Rosato S, Seccareccia F; OBSERVANT Research Group. A simple risk tool (the OBSERVANT score) for prediction of 30-day mortality after transcatheter aortic valve replacement. *Am J Cardiol.* 2014 Jun 1;113(11):1851-8. doi: 10.1016/j.amjcard.2014.03.014. Epub 2014 Mar 18. PMID: 24837264.
- Varrica A, Satriano A, de Vincentiis C, Biondi A, Trimarchi S, Ranucci M, Menicanti L, Frigiola A. Bentall operation in 375 patients: long-term results and predictors of death. *J Heart Valve Dis.* 2014 Jan;23(1):127-34. PMID: 24779339.
- D'Errigo P, Barbanti M, Santini F, Grossi C, Ranucci M, Onorati F, Covello RD, Rosato S, Tamburino C, Santoro G, Fusco D, Seccareccia F; Gruppo di Lavoro dello Studio OBSERVANT (vedi Appendice). Risultati dello studio OBSERVANT: caratteristiche

cliniche ed esiti a breve termine della popolazione arruolata sottoposta a sostituzione valvolare aortica (transcatetere versus chirurgica) [Results of the OBSERVANT study: clinical characteristics and short-term outcome of the enrolled population treated with transcatheter versus surgical aortic valve implantation]. *G Ital Cardiol (Rome)*. 2014 Mar;15(3):177-84. Italian. doi: 10.1714/1463.16169. PMID: 24770431.

- Ranucci M, Ballotta A, La Rovere MT, Castelvechchio S; Surgical and Clinical Outcome Research (SCORE) Group. Postoperative hypoxia and length of intensive care unit stay after cardiac surgery: the underweight paradox? *PLoS One*. 2014 Apr 7;9(4):e93992. doi: 10.1371/journal.pone.0093992. PMID: 24709952; PMCID: PMC3978074.
- Song HK, von Heymann C, Jespersen CM, Karkouti K, Korte W, Levy JH, Ranucci M, Saugstrup T, Sellke FW. Safe application of a restrictive transfusion protocol in moderate-risk patients undergoing cardiac operations. *Ann Thorac Surg*. 2014 May;97(5):1630-5. doi: 10.1016/j.athoracsur.2013.12.025. Epub 2014 Mar 19. PMID: 24655469.
- Ranucci M, Castelvechchio S, Biondi A, de Vincentiis C, Ballotta A, Varrica A, Frigiola A, Menicanti L. The authors reply. *Crit Care Med*. 2014 Mar;42(3):e247-8. doi: 10.1097/CCM.0000000000000111. PMID: 24534986.
- Mehta RH, Castelvechchio S, Ballotta A, Frigiola A, Bossone E, Ranucci M. Reply: To PMID 23673070. *Ann Thorac Surg*. 2014 Feb;97(2):736. doi: 10.1016/j.athoracsur.2013.11.034. PMID: 24484832.
- Schlimp CJ, Solomon C, Ranucci M, Hochleitner G, Redl H, Schöchl H. The effectiveness of different functional fibrinogen polymerization assays in eliminating platelet contribution to clot strength in thromboelastometry. *Anesth Analg*. 2014 Feb;118(2):269-276. doi: 10.1213/ANE.0000000000000058. PMID: 24445628.
- Ranucci M. Antiplatelet agents and heart surgery: new drugs, new challenges? *Eur J Cardiothorac Surg*. 2014 Aug;46(2):205-6. doi: 10.1093/ejcts/ezt588. Epub 2014 Jan 10. PMID: 24412829.
- Dyke C, Aronson S, Dietrich W, Hofmann A, Karkouti K, Levi M, Murphy GJ, Sellke FW, Shore-Lesserson L, von Heymann C, Ranucci M. Universal definition of perioperative bleeding in adult cardiac surgery. *J Thorac Cardiovasc Surg*. 2014 May;147(5):1458-1463.e1. doi: 10.1016/j.jtcvs.2013.10.070. Epub 2013 Dec 9. PMID: 24332097.
- Dietrich W, Faraoni D, von Heymann C, Bolliger D, Ranucci M, Sander M, Rosseel P. ESA guidelines on the management of severe perioperative bleeding: comments on behalf of the Subcommittee on Transfusion and Haemostasis of the European Association of Cardiothoracic Anaesthesiologists. *Eur J Anaesthesiol*. 2014 Apr;31(4):239-41. doi: 10.1097/EJA.0000000000000033. PMID: 24296821.
- Ranucci M, Ballotta A, Agnelli B, Frigiola A, Menicanti L, Castelvechchio S. Reply: To PMID 23201106. *Ann Thorac Surg*. 2013 Dec;96(6):2290. doi: 10.1016/j.athoracsur.2013.07.052. PMID: 24296221.
- Onorati F, D'Errigo P, Grossi C, Barbanti M, Ranucci M, Covello DR, Rosato S, Maraschini A, Santoro G, Tamburino C, Seccareccia F, Santini F, Menicanti L; OBSERVANT Research Group. Effect of severe left ventricular systolic dysfunction on hospital outcome

after transcatheter aortic valve implantation or surgical aortic valve replacement: results from a propensity-matched population of the Italian OBSERVANT multicenter study. *J Thorac Cardiovasc Surg.* 2014 Feb;147(2):568-75. doi: 10.1016/j.jtcvs.2013.10.006. Epub 2013 Nov 19. PMID: 24263007.

- Ranucci M, Castelvechio S, La Rovere MT; Surgical and Clinical Outcome Research (SCORE) Group. Renal function changes and seasonal temperature in patients undergoing cardiac surgery. *Chronobiol Int.* 2014 Mar;31(2):175-81. doi: 10.3109/07420528.2013.836533. Epub 2013 Oct 28. PMID: 24164101.
- Solomon C, Baryshnikova E, Schlimp CJ, Schöchl H, Asmis LM, Ranucci M. FIBTEM PLUS provides an improved thromboelastometry test for measurement of fibrin-based clot quality in cardiac surgery patients. *Anesth Analg.* 2013 Nov;117(5):1054-62. doi: 10.1213/ANE.0b013e3182a1afac. PMID: 24108255.
- La Rovere MT, Pinna GD, Maestri R, Olmetti F, Paganini V, Riccardi G, Riccardi R, Goggi C, Ranucci M, Febo O. The 6-minute walking test and all-cause mortality in patients undergoing a post-cardiac surgery rehabilitation program. *Eur J Prev Cardiol.* 2015 Jan;22(1):20-6. doi: 10.1177/2047487313502405. Epub 2013 Aug 22. PMID: 23970071.
- Ranucci M, Castelvechio S, Biondi A, de Vincentiis C, Ballotta A, Varrica A, Frigiola A, Menicanti L; Surgical and Clinical Outcome Research (SCORE) Group. A randomized controlled trial of preoperative intra-aortic balloon pump in coronary patients with poor left ventricular function undergoing coronary artery bypass surgery*. *Crit Care Med.* 2013 Nov;41(11):2476-83. doi: 10.1097/CCM.0b013e3182978dfc. PMID: 23921278.
- Onorati F, D'Errigo P, Barbanti M, Rosato S, Covello DR, Maraschini A, Ranucci M, Grossi C, Santoro G, Tamburino C, Santini F, Seccareccia F; OBSERVANT Research Group. Results differ between transaortic and open surgical aortic valve replacement in women. *Ann Thorac Surg.* 2013 Oct;96(4):1336-1342. doi: 10.1016/j.athoracsur.2013.05.048. Epub 2013 Jul 31. PMID: 23915582.
- Porta A, Bari V, Bassani T, Marchi A, Pistuddi V, Ranucci M. Model-based causal closed-loop approach to the estimate of baroreflex sensitivity during propofol anesthesia in patients undergoing coronary artery bypass graft. *J Appl Physiol (1985).* 2013 Oct 1;115(7):1032-42. doi: 10.1152/jappphysiol.00537.2013. Epub 2013 Jul 18. PMID: 23869064.
- Onorati F, D'Errigo P, Barbanti M, Rosato S, Covello RD, Maraschini A, Ranucci M, Santoro G, Tamburino C, Grossi C, Santini F, Menicanti L, Seccareccia F; OBSERVANT Research Group. Different impact of sex on baseline characteristics and major periprocedural outcomes of transcatheter and surgical aortic valve interventions: Results of the multicenter Italian OBSERVANT Registry. *J Thorac Cardiovasc Surg.* 2014 May;147(5):1529-39. doi: 10.1016/j.jtcvs.2013.05.039. Epub 2013 Jul 13. PMID: 23856202.
- Di Dedda U, Ranucci M, Baryshnikova E, Castelvechio S; Surgical and Clinical Outcome Research Group. Thienopyridines resistance and recovery of platelet function after discontinuation of thienopyridines in cardiac surgery patients. *Eur J Cardiothorac Surg.* 2014 Jan;45(1):165-70. doi: 10.1093/ejcts/ezt279. Epub 2013 Jul 4. PMID: 23828846.

- Karkouti K, von Heymann C, Jespersen CM, Korte W, Levy JH, Ranucci M, Sellke FW, Song HK. Efficacy and safety of recombinant factor XIII on reducing blood transfusions in cardiac surgery: a randomized, placebo-controlled, multicenter clinical trial. *J Thorac Cardiovasc Surg.* 2013 Oct;146(4):927-39. doi: 10.1016/j.jtcvs.2013.04.044. Epub 2013 Jun 29. PMID: 23820174.
- Bianchi P, Carboni G, Pesce G, Isgrò G, Carlucci C, Frigiola A, Giamberti A, Ranucci M. Cardiac catheterization and postoperative acute kidney failure in congenital heart pediatric patients. *Anesth Analg.* 2013 Aug;117(2):455-61. doi: 10.1213/ANE.0b013e318299a7da. Epub 2013 Jun 18. PMID: 23780421.
- Mehta RH, Castelvechio S, Ballotta A, Frigiola A, Bossone E, Ranucci M. Association of gender and lowest hematocrit on cardiopulmonary bypass with acute kidney injury and operative mortality in patients undergoing cardiac surgery. *Ann Thorac Surg.* 2013 Jul;96(1):133-40. doi: 10.1016/j.athoracsur.2013.03.033. Epub 2013 May 11. PMID: 23673070.
- Ranucci M, Baryshnikova E, Castelvechio S, Pelissero G; Surgical and Clinical Outcome Research (SCORE) Group. Major bleeding, transfusions, and anemia: the deadly triad of cardiac surgery. *Ann Thorac Surg.* 2013 Aug;96(2):478-85. doi: 10.1016/j.athoracsur.2013.03.015. Epub 2013 May 11. PMID: 23673069.
- Giamberti A, Chessa M, Reali M, Varrica A, Nuri H, Isgrò G, Frigiola A, Ranucci M. Porcine bioprosthetic valve in the pulmonary position: mid-term results in the right ventricular outflow tract reconstruction. *Pediatr Cardiol.* 2013 Jun;34(5):1190-3. doi: 10.1007/s00246-012-0602-3. Epub 2013 Feb 24. PMID: 23435788.
- Solomon C, Rahe-Meyer N, Schöchl H, Ranucci M, Görlinger K. Effect of haematocrit on fibrin-based clot firmness in the FIBTEM test. *Blood Transfus.* 2013 Jul;11(3):412-8. doi: 10.2450/2012.0043-12. Epub 2012 Nov 20. PMID: 23245708; PMCID: PMC3729133.
- Ranucci M, Ballotta A, Agnelli B, Frigiola A, Menicanti L, Castelvechio S; Surgical and Clinical Outcome Research (SCORE) Group. Acute kidney injury in patients undergoing cardiac surgery and coronary angiography on the same day. *Ann Thorac Surg.* 2013 Feb;95(2):513-9. doi: 10.1016/j.athoracsur.2012.09.012. Epub 2012 Nov 30. PMID: 23201106.
- Ranucci M. Fibrinogen supplementation in cardiac surgery: where are we now and where are we going? *J Cardiothorac Vasc Anesth.* 2013 Feb;27(1):1-4. doi: 10.1053/j.jvca.2012.10.003. Epub 2012 Nov 24. PMID: 23182836.
- Ranucci M, Baryshnikova E, Crapelli GB, Woodward MK, Paez A, Pelissero G. Preoperative antithrombin supplementation in cardiac surgery: a randomized controlled trial. *J Thorac Cardiovasc Surg.* 2013 May;145(5):1393-9. doi: 10.1016/j.jtcvs.2012.09.061. Epub 2012 Oct 25. PMID: 23102903.
- Castelvechio S, Ranucci M, Bandera F, Baryshnikova E, Giacomazzi F, Menicanti L; Surgical and Clinical Outcome Research (Score) Group. The additional prognostic value of left atrial volume on the outcome of patients after surgical ventricular reconstruction. *Ann Thorac Surg.* 2013 Jan;95(1):141-7. doi: 10.1016/j.athoracsur.2012.08.024. Epub 2012 Oct 11. PMID: 23063196.

- Di Dedda U, Pelissero G, Agnelli B, De Vincentiis C, Castelveccchio S, Ranucci M. Accuracy, calibration and clinical performance of the new EuroSCORE II risk stratification system. Eur J Cardiothorac Surg. 2013 Jan;43(1):27-32. doi: 10.1093/ejcts/ezs196. Epub 2012 Jul 20. PMID: 22822108.
- D'Errigo P, Barbanti M, Ranucci M, Onorati F, Covello RD, Rosato S, Tamburino C, Santini F, Santoro G, Seccareccia F; OBSERVANT Research Group. Transcatheter aortic valve implantation versus surgical aortic valve replacement for severe aortic stenosis: results from an intermediate risk propensity-matched population of the Italian OBSERVANT study. Int J Cardiol. 2013 Sep 1;167(5):1945-52. doi: 10.1016/j.ijcard.2012.05.028. Epub 2012 May 26. PMID: 22633667.

Milan, 15/11/2023

A handwritten signature in blue ink, appearing to read "M. Ranucci", is positioned above a horizontal line.