

Curriculum Vitae

Personal Information

Name: Caravita Sergio
Date of birth: 25/01/1983
Fiscal code: CRVSRG83A25A246W
Nationality: Italian
Telephone number: +39 347 56 29 975 (mobile)
e-mail address: s.caravita@auxologico.it; sergio.caravita@unibg.it

PROFESSIONAL COMPETENCIES

- Diagnostic tests in cardiology
 - Right and left heart catheterization (including exercise test and vasoreactivity testing)
 - Echocardiography (transthoracic, exercise stress, transesophageal echocardiography; including 3D echo)
 - Cardiopulmonary exercise test
- Management of patients with pulmonary vascular disease in acute and chronic settings, including: intensive care unit management, timing and indications to parenteral prostacyclin initiation and lung transplantation
- Management of patients with heart failure in acute and chronic settings
- Clinical research
- Tutoring and mentoring to MD students and trainees in cardiovascular medicine

PROFESSIONAL EXPERIENCE

01/12/2019 – present Assistant Professor
Department of Management, Information and Production Engineering, University of Bergamo,
Bergamo (Italy)

01/01/2017 – present Staff cardiologist; referent for Pulmonary Hypertension and Dyspnea
Dept of Cardiovascular, Neural and Metabolic Sciences and Laboratory of Cardiological Research,
IRCCS S. Luca Hospital, Istituto Auxologico Italiano, Milan Italy (Prof G Parati)
Main activities: pulmonary hypertension and dyspnea clinic; right and left heart catheterization; echo lab;
cardiopulmonary exercise testing; clinical research

11/10/2015 – 31/12/2016 Consultant cardiologist
Dept of Cardiovascular, Neural and Metabolic Sciences and Laboratory of Cardiological Research,
IRCCS S. Luca Hospital, Istituto Auxologico Italiano, Milan Italy (Prof G Parati)
Main activities: echo lab, right heart catheterization, PH and HF clinic, dyspnea clinic, cardiopulmonary exercise
testing, clinical research

01/09/2014 – 31/12/2017 Clinical and research fellow in pulmonary vascular diseases and heart failure
Pulmonary Vascular Diseases and Heart Failure Clinic, Department of Cardiology, CUB-Hôpital Erasme,
Brussels, Belgium (Prof JL Vachiéry)

01/09/2011 – 01/03/2012 Visiting fellow in cardiorespiratory physiology

Laboratory of Cardiorespiratory Pathophysiology, Centro Cardiologico Monzino, Milano, Italy (Prof P Agostoni)

- 10/05/2010 -19/05/2015 Trainee in cardiovascular medicine
University of Milano-Bicocca and IRCCS S.Luca Istituto Auxologico Italiano, Milano, Italy (Prof G Parati)
- 06/01/2010 – 10/05/2010 Intern MD
Dept of Cardiology, S.Luca Hospital IRCCS Istituto Auxologico Italiano, Milano, Italy (Prof G Parati)
- 10/07/2008 – 05/01/2010 Intern MD
Dept of Internal Medicine, Bassini Hospital, ICP, Milano, Italy (Dr MB Secchi, Dr SC Wu)

EDUCATION

- 14/12/2015 – 08/10/2019 PhD student in Medical Sciences and in Public Health
Pulmonary Vascular Diseases and Heart Failure Clinic, Department of Cardiology, CUB-Hôpital Erasme, Université Libre de Brussels, Brussels, Belgium (Prof JL Vachiéry, Prof A Bondue)
Joint supervision from the University of Milano-Bicocca (Prof G Parati)
- Mar 2016 - Dec 2016 Master on diagnosis and treatment of acute and chronic heart failure
University of Milano-Bicocca, Milano, Italy
- May 2010 - May 2015 Specialization in Cardiovascular Medicine (70/70 cum laude)
University of Milano-Bicocca and IRCCS S.Luca Istituto Auxologico Italiano, Milano, Italy (Prof G Parati)
- Sept 2002 – Jul 2008 MD degree (110/110)
Faculty of Medicine and Surgery, University of Milano-Bicocca, Milano, Italy
- Sept 1997 – Jul 2002 Scientific Diploma (100/100)
High School “Liceo Scientifico F. Lussana”, Bergamo, Italy

COURSES AND CERTIFICATIONS

Dr Caravita has attended several courses/congresses on pulmonary hypertension and cardiopulmonary exercise test, as detailed below.

- 23-24 Nov 2018 Pulmonary Hypertension Bologna 2018 - Horizon 2020 And Beyond: New Classes Of Drugs Or New Treatment Strategies?
Bologna, Italy
- 27 Feb - 01 Mar 2018 5th World Symposium on Pulmonary Hypertension
Nice, France
- 16-17 Jun 2017 Pulmonary Hypertension by Clinical Cases – 2017
Archiginnasio Palace, Bologna, Italy
- 23-25 Sept 2016 Acute Life Support (ALS) certificate from the Italian Resuscitation Council (IRC)
Istituto Auxologico Italiano, Milano, Italy
- 26-27 Jun 2015 Pulmonary Hypertension by Clinical Cases – 2015
Archiginnasio Palace, Bologna, Italy
- 12-13 Mar 2015 Applications and developments of cardiopulmonary test and stress echocardiography in cardiology
IRCCS Policlinico San Donato, Milan, Italy
- 28-29 Nov 2014 Pulmonary Hypertension – Bologna 2014

University of Bologna, Bologna, Italy

18 Nov 2014	Bayer GCP for Study Site Personnel Department of Cardiology, Erasme Hospital, Brussels, Belgium
6 Nov 2014	National Symposium "New perspectives in Pulmonary Hypertension Management" Brussels, Belgium
5-7 Jun 2014	ERS Course on Pulmonary Hypertension and Pulmonary Vascular Disease Lausanne, Switzerland
12-14 Apr 2014	Residential Course on Sleep Medicine of the Italian Association of Sleep Medicine Bertinoro (FC), Italy
11-12 Feb 2014	Masterclass in Pulmonary Hypertension ULB – Erasme Hospital, Brussels, Belgium
13-17 Jun 2011	Cardiopulmonary Exercise Test: training course Centro Cardiologico Monzino, Milan, Italy
9-10 May 2011	Cardiopulmonary Exercise Test: physiological basis, indications and interpretation Centro Cardiologico Monzino, Milan, Italy
20 Nov 2010	Pulmonary Hypertension – Bologna 2010 University of Bologna, Bologna, Bologna, Italy
10 Nov 2010	BLSD – Basic Life Support Defibrillation Istituto Auxologico Italiano, Milan, Italy
4-5 May 2009	Advanced Course on Pulmonary Hypertension University of Pavia, Italy

SPEAKER AT CONGRESSES

Since 2015, Dr Caravita has been invited more than 20 times as a speaker at national and international courses and congresses. Topic of his relations have been hemodynamics, pulmonary hypertension and heart failure, cardiac catheterization, right heart, cardiorespiratory physiology and cardiopulmonary exercise test, echocardiography.

02-03 Oct 2020	"Caso Clinico. L'approccio diagnostico-terapeutico dell'ipertensione Polmonare nel HFPEF" 2020 Viaggio nell'ipertensione Polmonare: l'Evoluzione del Percorso Diagnostico-Terapeutico Hotel Helios, Monza (MB), Italy
18 Sept 2020	"Cateterismo cardiaco destro nell'ipertensione Arteriosa Polmonare" Ipertensione Polmonare e Cateterismo Destro nel 2020 Videoconferenza ECM
14-17 Sept 2020	"Cateterismo Cardiaco: Attuali Indicazioni. Sospetta Costrizione/Restrizione" 54° Convegno Cardiologia 2020, Dipartimento A. De Gasperi Ospedale Niguarda, Milano, Italy
21-22 Nov 2019	"Exercise testing and risk assessment in PAH" Masterclass on Pulmonary Hypertension Cliniques Universitaires de Bruxelles-Hopital Erasme, Brussels, Belgium
21 Nov 2019	"Il cateterismo cardiaco da sforzo. Attuali indicazioni e prospettive future"; "Il caso della cardiomiopatia ipertrofica. Studio del gradiente sotto sforzo e durante stimolo farmacologico" Congress "Il cateterismo cardiaco. Nuove prospettive per la valutazione emodinamica invasiva" Istituto Auxologico Italiano Ospedale San Luca IRCCS, Milano, Italy
25 Oct 2019	"Caso clinico" (di HFpEF) National Congress "Grey Zones in Heart Failure" Hotel Settecento, Presezzo (BG), Italy
21-22 Oct 2019	"La pressione di incuneamento polmonare"; "Approccio fisiopatologico all'emodinamica cardiopolmonare"

- Congress "L'emodinamica cardiopolmonare: aspetti teorici e pratici del cateterismo cardiaco destro"
(Member of the Scientific Board)
Ospedale Maggiore Policlinico di Milano, Milano, Italy
- 30-31 May 2019 "A symptomatic HCM patient: usefulness of invasive exercise against isoproterenol", "A paradoxical exercise response following myectomy"
Congress "Cardiomiopatia Ipertrofica"
Centro Congressi Humanitas, Milan, Italy
- 9 Feb 2019 "Ecocardiografia"
Congress "Practice to prevent. Insieme per valutare l'elevato rischio cardiorenale e prevenirlo: toolbox per lo specialista cardiologo"
Ospedale San Luca, Milan, Italy
- 7 Feb 2019 "Approccio combinato invasivo e non invasivo alla diagnosi di ipertensione polmonare"
Congress "BPCO e dintorni"
Palazzo Mezzanotte, Milan, Italy
- 30 Nov – 01 Dec 2018 "Screening e diagnosi di PAH: le forme borderline come seguirle, come trattarle"
Congress "Sharing experience in PAH"
Bari, Italy
- 22-23 Oct 2018 "La pressione di incuneamento polmonare"; "Approccio fisiopatologico all'emodinamica cardiopolmonare"
Congress "L'emodinamica cardiopolmonare: aspetti teorici e pratici del cateterismo cardiaco destro"
(Member of the Scientific Board)
Ospedale Maggiore Policlinico di Milano, Milano, Italy
- 19 Oct 2018 "La valutazione delle pressioni polmonari e della capacità funzionale"
Congress "Corso Avanzato Cardiomiopatie e Canalopatie: diagnosi e gestione clinica"
Istituto Auxologico Italiano IRCCS Ospedale San Luca, Milano, Italy
- 9 Jun 2018 "Functional evaluation and the role of rehabilitation in pulmonary (arterial) hypertension: is there a place for exercise testing?"
The 10th annual meeting of the Belgian Working Group Adult Congenital Heart Disease
Musée de la Médecine, Erasme Hospital, Bruxelles, Belgium
- 17 Mar 2018 "Pulmonary Hypertension"
9th Update Symposium on Cardiopulmonary exercise testing organized by the Belgian Working Group on Cardiovascular Prevention and Rehabilitation
Anvers, Belgium
- 15 Feb 2018 "Interpretazione del test da sforzo cardiopolmonare"
Congress "BPCO e dintorni"
Palazzo Mezzanotte, Milan, Italy
- 4-5 Dec 2017 "Echocardiography Unit", "Echocardiographic assessment of cardiac structure and function", "Advanced functional assessment of the circulation: echocardiography and cardiopulmonary exercise testing", "Clinical case presentation: hypertensive patient with dyspnea"
International Preceptorship Course "Arterial hypertension: from scientific evidence to successful management in real life"
San Luca Hospital, IRCCS Istituto Auxologico Italiano, Milan, Italy
- 29 Nov 2017 "Il cuore destro e malattia del polmone / hypoxia"
Congress "Il cuore destro: la sfida"
Centro Cardiologico Monzino, Milan, Italy
- 25 Nov 2017 "Il ruolo del cateterismo cardiaco destro"
Congress "HYPER-TOGETHER: insieme per il paziente con ipertensione polmonare"
Genova, Italy
- 27 Oct 2017 "Ipertensione polmonare: cosa c'è di nuovo – dalla diagnosi alla scelta terapeutica"

	Congress “Conoscere e curare l’embolia e l’ipertensione polmonare” Rovigo, Italy
23-25 Oct 2017	“Echocardiography Unit”, “Echocardiographic assessment of cardiac structure and function”, “Advanced functional assessment of the circulation: echocardiography and cardiopulmonary exercise testing”, “Clinical case presentation: hypertensive patient with dyspnea” International Preceptorship Course “Arterial hypertension: from scientific evidence to successful management in real life” San Luca Hospital, IRCCS Istituto Auxologico Italiano, Milan, Italy
23-24 Oct 2017	“Basi anatomiche e fisiologiche del sistema cuore-polmone”, “Approccio fisiopatologico all’emodinamica cardiopolmonare” Course “Ruolo del cateterismo cardiaco destro nel percorso diagnostico dell’ipertensione polmonare” Foundation IRCCS Cà Granda Ospedale Maggiore Policlinico di Milano, Milan, Italy
28-30 Mar 2017	“Ipertensione polmonare” Congress “BPCO e dintorni” Palazzo Mezzanotte, Milan, Italy
19 Nov 2016	“L’ecocardiografia e lo studio del circolo polmonare” Congress “Gestione del paziente con scompenso cardiaco avanzato tra ospedale e territorio” S.Luca Hospital IRCCS Istituto Auxologico Italiano, Milan, Italy
10-11 May 2016	“The role of echocardiography in pulmonary hypertension” Masterclass on Pulmonary Hypertension Cliniques Universitaires de Bruxelles-Hopital Erasme, Brussels, Belgium
3-5 Feb 2016	“Ipotesi ipobarica d’alta quota, attività fisica e funzione cardiorespiratoria” In the congress “BPCO e dintorni” Palazzo Mezzanotte, Milan, Italy
15-16 Dec 2015	“The role of echocardiography in pulmonary hypertension” Masterclass on Pulmonary Hypertension Cliniques Universitaires de Bruxelles-Hopital Erasme, Brussels, Belgium
17-18 Nov 2015	“The role of echocardiography in pulmonary hypertension” Masterclass on Pulmonary Hypertension Cliniques Universitaires de Bruxelles-Hopital Erasme, Brussels, Belgium

OTHER INFORMATION

Mother Tongue	Italian	
Other Languages	English	First Certificate in English (FCE), Cambridge
	French	Intermediate User

Full license to practice in Italy and in Belgium

Italy	registered with the Ordine dei Medici di Monza e Brianza (n 3210) since 31/03/2009 to 26/02/2013; registered with the Ordine dei Medici di Milano (n 42910) since 26/02/2013
Belgium	registered with the “Ordre des Médecins de la Fédération de Brabant-Wallon” since 06/01/2015 (n INAMI 178088-04-730)

Awards and Grants

2018	2nd Prize, Premio “Vera Srebot” 3rd edition, Fondazione CNR/Regione Toscana per la Ricerca Medica e di Sanità Pubblica
2018	Travel Grant, World Symposium of Pulmonary Hypertension, Nice 2018
2016	co-PI in the project funded by the Ministry of Health RF-2016-02364728: “Improving Heart Failure Patients Care through Big Data Analysis. Data from a Large Lombardy Region Administrative Data Base” (150.000 €)
2015	Awarded in the “Concorso Tesi” during the 49° Congress of Cardiology, Ospedale Niguarda Ca’ Granda, Milano

2015 International Grant “Cesare Bartorelli” for the year 2015, Società Italiana Ipertensione Arteriosa (20.000 €)
2014 ERS PAH Short-Term Research Training Fellowship (STRTF 2014-5264) supported by an unrestricted grant by GSK (3.300 €)
2014 Faculty Fellow, ERS Course on Pulmonary Hypertension and Pulmonary Vascular Disease
2014 Poster Prize, Congress of the European Society of Hypertension
2014 Travel Grant, European Society of Hypertension
2013 Travel Grant, Società Italiana Ipertensione Arteriosa
2011 Poster Prize, Congress of the European Society of Hypertension and Cardiovascular Prevention
2011 Travel Grant, European Society of Hypertension
2009 Young Researcher Prize, Società Italiana Medicina Interna

Memberships

19/11/2019 – present Member of the Scientific Committee of the ANMCO
15/03/2017 – present Member of the Study Group on Right and Left Heart Failure of the Italian Society of Cardiology (SIC)
2017 – 2018 Member of the Coordinating Committee on Pulmonary Vascular Diseases of the ANMCO
2016 - present Associazione Nazionale Medici Cardiologi Ospedalieri (ANMCO)
2015 - present ESC Working Group on Pulmonary Circulation and Right Ventricular Function
2014 - present American College of Cardiology (ACC, member ID: 3087610)
2014 - present Società Italiana di Cardiologia (SIC)

Reviewer activity

European Journal of Heart Failure (IF 13.965)
European Respiratory Journal (IF 10.569)
Chest (IF 9.657)
International Journal of Cardiology (IF 6.189)
European Journal of Preventive Cardiology (IF 5.640)

Volunteer experience

Jul – Aug 2002 Kalighat home for dying people, Missionaries of Charity, Kolkata, India

Other interests

Theatre and poetry, as privileged and alternative ways to communicate

PUBLICATIONS on peer-reviewed journals

Dr Caravita is author or co-author of 52 publications indexed on PubMed. Dr Caravita's H-index is 12 (Scopus).

1. Baratto C, **Caravita S**, Faini A, Perego GB, Senni M, Badano LP, Parati G. Impact of COVID-19 on exercise pathophysiology. A combined cardiopulmonary and echocardiographic exercise study. *J Appl Physiol* (1985). 2021 Mar 25. doi: 10.1152/japphysiol.00710.2020. Epub ahead of print. PMID: 33764166.
2. Parati G, **Caravita S**. Personalized exercise prescription as a tool for hypertension management and cardiovascular prevention: evidence and pending issues. *Eur J Prev Cardiol*. 2021 Mar 24:zwab002. doi: 10.1093/eurjpc/zwab002. Epub ahead of print. PMID: 33758929.
3. Baratto C, **Caravita S**, Battista Perego G, Badano LP, Vachiéry JL, Parati G. Systemic Sclerosis and Pulmonary Hypertension: The Great Masquerader. *Circ Heart Fail*. 2021 Feb;14(2):e007554. doi: 10.1161/CIRCHEARTFAILURE.120.007554. Epub 2021 Jan 28. PMID: 33504158.
4. **Caravita S**, Senni M, Parati G. Reply to: 'The hyperdynamic circulatory profile of patients with COVID-19-related acute vascular distress syndrome. Letter regarding the article Haemodynamic characteristics of COVID-19 patients with acute respiratory distress syndrome requiring mechanical ventilation. An invasive assessment using right heart catheterization'. *Eur J Heart Fail*. 2021 Jan 21. doi: 10.1002/ejhf.2105. Epub ahead of print. PMID: 33480144.

5. **Caravita S**, Baratto C, Di Marco F, Calabrese A, Balestrieri G, Russo F, Faini A, Soranna D, Perego GB, Badano LP, Grazioli L, Lorini FL, Parati G, Senni M. Haemodynamic characteristics of COVID-19 patients with acute respiratory distress syndrome requiring mechanical ventilation. An invasive assessment using right heart catheterization. *Eur J Heart Fail*. 2020 Dec;22(12):2228-2237. doi: 10.1002/ehjhf.2058. Epub 2020 Dec 7. PMID: 33200458; PMCID: PMC7753704.
6. Muraru D, **Caravita S**, Guta AC, Mihalcea D, Branzi G, Parati G, Badano LP. Functional Tricuspid Regurgitation and Atrial Fibrillation: Which Comes First, the Chicken or the Egg? *CASE (Phila)*. 2020 Jun 6;4(5):458-463. doi: 10.1016/j.case.2020.04.011. PMID: 33117949; PMCID: PMC7581628.
7. Villani A, Ravaro S, Cerea P, **Caravita S**, Ciambellotti F, Branzi G, Munforti C, Parati G, Malfatto G. Do the remodeling effects of sacubitril/valsartan treatment depend upon heart failure duration? *J Cardiovasc Med (Hagerstown)*. 2020 Sep;21(9):682-687. doi: 10.2459/JCM.0000000000001000. PMID: 32744827.
8. Vatrano M, Picariello C, Enea I, Roncon L, **Caravita S**, De Tommasi E, Imbalzano E, Garascia A, Manes MT, Misuraca L, Urbinati S, Colivicchi F, Gulizia MM, Gabrielli D. Proposta di una lettera di dimissione standardizzata dopo ospedalizzazione per embolia polmonare acuta [Proposal for a standardized discharge letter after hospital stay for acute pulmonary embolism]. *G Ital Cardiol (Rome)*. 2020 Aug;21(8):607-618. Italian. doi: 10.1714/3405.33895. PMID: 32686788.
9. Picariello C, **Caravita S**, Vatrano M, Enea I, Roncon L, De Tommasi E, Imbalzano E, Garascia A, Manes MT, Misuraca L, Urbinati S, Colivicchi F, Gulizia MM, Gabrielli D; a nome dell'Area Malattie del Circolo Polmonare ANMCO. Position paper ANMCO: Malattie del circolo polmonare e COVID-19 [ANMCO Position paper: Pulmonary circulation diseases and COVID-19]. *G Ital Cardiol (Rome)*. 2020 Aug;21(8):575-583. Italian. doi: 10.1714/3405.33888. PMID: 32686781.
10. Badano LP, **Caravita S**, Rella V, Guida V, Parati G, Muraru D. The Added Value of 3-Dimensional Echocardiography to Understand the Pathophysiology of Functional Tricuspid Regurgitation. *JACC Cardiovasc Imaging*. 2021 Mar;14(3):683-689. doi: 10.1016/j.jcmg.2020.04.029. Epub 2020 Jul 15. PMID: 32682722.
11. Quarta G, Gori M, Iorio A, D'Elia E, Moon JC, Iacovoni A, Burocchi S, Schelbert EB, Brambilla P, Sironi S, **Caravita S**, Parati G, Gavazzi A, Maisel AS, Butler J, Lam CSP, Senni M. Cardiac magnetic resonance in heart failure with preserved ejection fraction: myocyte, interstitium, microvascular, and metabolic abnormalities. *Eur J Heart Fail*. 2020 Jul;22(7):1065-1075. doi: 10.1002/ehjhf.1961. Epub 2020 Aug 7. PMID: 32654354.
12. Badano LP, Muraru D, Ciambellotti F, **Caravita S**, Guida V, Tomaselli M, Parati G. Assessment of left ventricular diastolic function by three-dimensional transthoracic echocardiography. *Echocardiography*. 2020 Nov;37(11):1951-1956. doi: 10.1111/echo.14782. Epub 2020 Jun 28. PMID: 32596833.
13. **Caravita S**, Baratto C, Perego GB, Cecchi F, Crotti L, Parati G. Invasive Hemodynamics of Hypertrophic Cardiomyopathy: Exercise Versus Isoproterenol. *Circ Heart Fail*. 2020 Jun;13(6):e007000. doi: 10.1161/CIRCHEARTFAILURE.120.007000. Epub 2020 Jun 2. PMID: 32482090.
14. Forton K, Motoji Y, **Caravita S**, Faoro V, Naeije R. Exercise stress echocardiography of the pulmonary circulation and right ventricular-arterial coupling in healthy adolescents. *Eur Heart J Cardiovasc Imaging*. 2020 May 7:jeaa085. doi: 10.1093/ehjci/jeaa085. Epub ahead of print. PMID: 32380528.
15. Paolillo S, Salvioni E, Perrone Filardi P, Bonomi A, Sinagra G, Gentile P, Gargiulo P, Scoccia A, Cosentino N, Gugliandolo P, Badagliacca R, Lagioia R, Correale M, Frigerio M, Perna E, Piepoli M, Re F, Raimondo R, Minà C, Clemenza F, Bussotti M, Limongelli G, Gravino R, Passantino A, Magri D, Parati G, **Caravita S**, Scardovi AB, Arcari L, Vignati C, Mapelli M, Cattadori G, Cavaliere C, Corrà U, Agostoni P; MECKI score research group (see Appendix A). Long-term prognostic role of diabetes mellitus and glycemic control in heart failure patients with reduced ejection fraction: Insights from the MECKI Score database. *Int J Cardiol*. 2020 Oct 15;317:103-110. doi: 10.1016/j.ijcard.2020.04.079. Epub 2020 Apr 29. Erratum in: *Int J Cardiol*. 2021 Feb 25;: PMID: 32360652.
16. Roncon L, Picariello C, Vatrano M, Enea I, **Caravita S**, De Michele L, Vanni S, Casazza F, Zonzin P, Bongarzone A, D'Agostino C, Azzarito M, Urbinati S, Gulizia MM, Gabrielli D. Modelli diagnostici e terapeutici nel trattamento dell'embolia polmonare acuta: una questione di risorse locali [Diagnostic and therapeutic models for the management of acute pulmonary embolism: an issue of local available resources]. *G Ital Cardiol (Rome)*. 2020 Mar;21(3):179-186. Italian. doi: 10.1714/3306.32766. PMID: 32100730.
17. Salvioni E, Corrà U, Piepoli M, Rovai S, Correale M, Paolillo S, Pasquali M, Magri D, Vitale G, Fusini L, Mapelli M, Vignati C, Lagioia R, Raimondo R, Sinagra G, Boggio F, Cangiano L, Gallo G, Magini A, Contini M, Palermo P, Apostolo A, Pezzuto B, Bonomi A, Scardovi AB, Filardi PP, Limongelli G, Metra M, Scrutinio D, Emdin M, Piccioli L, Lombardi C, Cattadori G, Parati G, **Caravita S**, Re F, Ciccoira M, Frigerio M, Clemenza F, Bussotti M, Battaia E, Guazzi M, Bandera F, Badagliacca R, Di Lenarda A, Pacileo G, Passino C, Sciomer S, Ambrosio G, Agostoni P; MECKI score research group. Gender and age normalization and ventilation

- efficiency during exercise in heart failure with reduced ejection fraction. *ESC Heart Fail.* 2020 Feb;7(1):371-380. doi: 10.1002/ehf2.12582. Epub 2020 Jan 1. PMID: 31893579; PMCID: PMC7083437.
18. Abrignani MG, Enea I, Colivicchi F, Roncon L, Aiello A, Becattini C, Bongarzone A, **Caravita S**, Dasseni N, De Michele L, Faggiano PM, Mureddu GF, Picariello C, Rao CM, Riccio C, Urbinati S, Vanni S, Vatrano M, Di Lenarda A, Gabrielli D, Gulizia MM. [ANMCO statement: Arterial and venous thromboembolism: what implications for clinical practice?] *G Ital Cardiol (Rome)*. 2019 Nov;20(11):671-684
 19. Malfatto G, Ravaro S, **Caravita S**, Baratto C, Sorropago A, Giglio A, Tomaselli M, Parati G, Villani A. Improvement of functional capacity in sacubitril-valsartan treated patients assessed by cardiopulmonary exercise test. *Acta Cardiol.* 2019 Oct 2:1-5
 20. **Caravita S**, Yerly P, Baratto C, Dewachter C, Faini A, Rimouche A, Branzi G, Perego GB, Bondue A, Parati G, Vachiéry JL. Non-invasive versus invasive pressure/flow relationship of the pulmonary circulation: bias and error. *Eur Respir J.* 2019 Sep 26. pii: 1900881.
 21. Senni M, **Caravita S**, Paulus WJ. Do Existing Definitions Identify Subgroup Phenotypes or Reflect the Natural History of Heart Failure With Preserved Ejection Fraction? *Circulation.* 2019 Jul 30;140(5):366-369
 22. Forton K, Motoji Y, Pezzuto B, **Caravita S**, Delbaere A, Naeije R, Faoro V. Decreased pulmonary vascular distensibility in adolescents conceived by in vitro fertilization. *Hum Reprod.* 2019 Sep 29;34(9):1799-1808
 23. Baratto C, **Caravita S**, Perego GB, Parati G. Stiff left atrial syndrome after low-dose radiotherapy for right breast cancer: The need for invasive hemodynamics at exercise. *Catheter Cardiovasc Interv.* 2019 Jun 13. doi: 10.1002/ccd.28348
 24. Bilo G, **Caravita S**, Torlasco C, Parati G. Blood pressure at high altitude: physiology and clinical implications. *Kardiol Pol.* 2019 Jun 25;77(6):596-603. doi: 10.33963/KP.14832
 25. Lombardi C, Faini A, La Rovere M, Fanfulla F, Mattaliano P, **Caravita S**, Contini M, Agostoni P, Perrone-Filardi P, Parati G; PROMISES Investigators. Heart failure and sleep related breathing disorders: Data from PROMISES (Progetto Multicentrico Italiano Sonno e Scompenso Cardiaco) study. *Int J Cardiol.* 2018;271:140-145
 26. **Caravita S**, Mariani D, Blengino S, Branzi G, Crotti L, Parati G. Pulmonary hypertension due to a stiff left atrium: Speckle tracking equivalents of large V-waves. *Echocardiography* 2018;35:1464-1466.
 27. **Caravita S**, Faini A, Carolino D'Araujo S, Dewachter C, Chomette L, Bondue A, Naeije R, Parati G, Vachiéry JL. Clinical phenotypes and outcomes of pulmonary hypertension due to left heart disease: role of the pre-capillary component. *Plos One* 2018;13(6):e0199164
 28. **Caravita S**, Faini A, Baratto C, Bilo G, Macarlupu JL, Lang M, Revera M, Lombardi C, Villafuerte FC, Agostoni P, Parati G. Upward shift and steepening of the blood pressure response to exercise in hypertensive subjects at high altitude. *J Am Heart Assoc* 2018;7(12):pii:e008506
 29. **Caravita S**, Dewachter C, Soranna D, Carolino D'Araujo S, Khaldi A, Zambon A, Parati G, Bondue A, Vachiéry JL. Haemodynamics to predict outcome in pulmonary hypertension due to left heart disease: a meta-analysis. *Eur Respir J.* 2018 Feb 8. pii: 1702427. doi: 10.1183/13993003.02427-2017
 30. Lombardi C, **Caravita S**, Parati G. Central sleep apnea during continuous positive airway pressure therapy in obstructive sleep apnea patients: from the compliance to adaptation, maladaptation and reflexes. *J Thorac Dis.* 2017 Nov;9(11):4152-4156
 31. Agostoni P, Paolillo S, Mapelli M, Gentile P, Salvioni E, Veglia F, Bonomi A, Corrà U, Lagioia R, Limongelli G, Sinagra G, Cattadori G, Scardovi AB, Metra M, Carubelli V, Scrutinio D, Raimondo R, Emdin M, Piepoli M, Magri D, Parati G, **Caravita S**, Re F, Ciccoira M, Minà C, Correale M, Frigerio M, Bussotti M, Oliva F, Battaia E, Belardinelli R, Mezzani A, Pastormerlo L, Guazzi M, Badagliacca R, Di Lenarda A, Passino C, Sciomer S, Zambon E, Pacileo G, Ricci R, Apostolo A, Palermo P, Contini M, Clemenza F, Marchese G, Gargiulo P, Binno S, Lombardi C, Passantino A, Filardi PP. Multiparametric prognostic scores in chronic heart failure with reduced ejection fraction: a long-term comparison. *Eur J Heart Fail.* 2017 Sep 26. doi: 10.1002/ehf.989
 32. Naeije R, Gerges M, Vachiery JL, **Caravita S**, Gerges C, Lang IM. Hemodynamic Phenotyping of Pulmonary Hypertension in Left Heart Failure. *Circ Heart Fail.* 2017 Sep;10(9). pii: e004082
 33. Paolillo S, Mapelli M, Bonomi A, Corrà U, Piepoli M, Veglia F, Salvioni E, Gentile P, Lagioia R, Metra M, Limongelli G, Sinagra G, Cattadori G, Scardovi AB, Carubelli V, Scrutinio D, Badagliacca R, Raimondo R, Emdin E, Magri D, Correale M, Parati G, **Caravita S**, Spadafora E, Re F, Ciccoira M, Frigerio M, Bussotti M, Mina C, Oliva F, Battaia E, Belardinelli R, Mezzani A, Pastormerlo L, Di Lenarda A, Passino C, Sciomer S, Iorio A, Zambon E, Guazzi M, Pacileo G, Ricci R, Contini M, Apostolo A, Palermo P, Clemenza F, Marchese G, Binno S, Lombardi C, Passantino A, Perrone Filardi P, Agostoni P. Prognostic role of β -blocker selectivity and dosage regimens in heart failure patients. Insights from the MECKI Score database. *Eur J Heart Fail* 2017;19(7):904-914

34. **Caravita S**, Faini A, Deboeck G, Bondue A, Naeije R, Parati G, Vachiéry JL. Pulmonary hypertension and ventilation during exercise: role of the precapillary component. *J Heart Lung Transpl* 2017;36(7):754-762
35. **Caravita S**, Vachiéry JL. Obstructive Ventilatory Disorder in Heart Failure-Caused by the Heart or the Lung? *Curr Heart Fail Rep*. 2016; 13(6):310-318
36. **Caravita S**, Faini A, Bilo B, Lang M, Parati G. Role of acetazolamide and telmisartan/nifedipine-GITS combination in antagonizing the blood pressure rise induced by high altitude exposure. *Int J Cardiol*. 2016;225:324-326
37. Cattadori G, Agostoni P, Corrà U, Sinagra G, Veglia F, Salvioni E, Bonomi A, La Gioia R, Scardovi AB, Ferraironi A, Emdin M, Metra M, Di Lenarda A, Limongelli G, Raimondo R, Re F, Guazzi M, Belardinelli R, Parati G, **Caravita S**, Magrì D, Lombardi C, Frigerio M, Oliva F, Girola D, Mezzani A, Farina S, Mapelli M, Scrutinio D, Pacileo G, Apostolo A, Iorio A, Paolillo S, Perrone Filardi P, Gargiulo P, Bussotti M, Marchese G, Correale M, Badagliacca R, Sciomer S, Palermo P, Contini M, Giannuzzi P, Battaia E, Cicoira M, Clemenza F, Minà C, Binno S, Passino C, Piepoli MF, on behalf of the MECKI score Research Group. Heart failure and anemia: Effects on prognostic variables. *Eur J Intern Med* 2017;37:56-63
38. **Caravita S**, Deboeck G, Vachiéry JL, Naeije R. Pulmonary arterial hypertension associated with a von Hippel-Lindau gene mutation. *J Heart Lung Transplant* 2016;35:1138-9
39. Lang M, Faini A, **Caravita S**, Bilo G, Anza-Ramírez C, Villafuerte FC, Macarlupu JL, Salvioni E, Agostoni P, Parati G. Blood pressure response to six-minute walk test in hypertensive subjects exposed to high altitude: Effects of antihypertensive combination treatment. *Int J Cardiol* 2016;219:27-32
40. **Caravita S**, Faini A, Bilo G, Villafuerte F, Macarlupu JL, Lang M, Salvioni E, Revera M, Giuliano A, Gregorini F, Mancina G, Agostoni P, Parati G. Blood Pressure Response to Exercise in Hypertensive Subjects Exposed to High Altitude and Treatment Effects. *J Am Coll Cardiol* 2015;66:2806-7
41. Simaga B, Vicenzi M, Faoro V, **Caravita S**, Di Marco G, Forton K, Deboeck G, Lalande S, Naeije R. Pulmonary vascular function and exercise capacity in black sub-saharan Africans. *J Appl Physiol* (1985) 2015;119(5):502-7
42. Malfatto G, **Caravita S**, Giglio A, Rossi J, Perego GB, Facchini M, Parati G. Pulmonary congestion at rest and abnormal ventilation during exercise in chronic systolic heart failure. *J Am Heart Assoc* 2015;4(5). pii: e001678. doi: 10.1161/JAHA.114.001678
43. Bilo G, Villafuerte FC, Faini A, Anza-Ramírez C, Revera M, Giuliano A, **Caravita S**, Gregorini F, Lombardi C, Salvioni E, Macarlupu JL, Ossoli D, Landaveri L, Lang M, Agostoni P, Sosa JM, Mancina G, Parati G. Ambulatory Blood Pressure in Untreated and Treated Hypertensive Patients at High Altitude: The High Altitude Cardiovascular Research-Andes Study. *Hypertension* 2015;65:1266-72
44. Scrutinio D, Agostoni P, Gesualdo L, Corrà U, Mezzani A, Piepoli M, Di Lenarda A, Iorio A, Passino C, Magrì D, Masarone D, Battaia E, Girola D, Re F, Cattadori G, Parati G, Sinagra G, Villani GQ, Limongelli G, Pacileo G, Guazzi M, Metra M, Frigerio M, Cicoira M, Minà C, Malfatto G, **Caravita S**, Bussotti M, Salvioni E, Veglia F, Correale M, Scardovi AB, Emdin M, Giannuzzi P, Gargiulo P, Giovannardi M, Perrone-Filardi P, Raimondo R, Ricci R, Paolillo S, Farina S, Belardinelli R, Passantino A, La Gioia R, on behalf of the Metabolic Exercise test data combined with Cardiac and Kidney Indexes (MECKI) Score Research Group. Renal Function and Peak Exercise Oxygen Consumption in Chronic Heart Failure With Reduced Left Ventricular Ejection Fraction. *Circ J* 2015;79(3):583-91
45. **Caravita S**, Faini A, Lombardi C, Valentini M, Gregorini F, Rossi J, Meriggi P, Di Rienzo M, Bilo G, Agostoni P, Parati G. Sex and Acetazolamide Effects on Chemoreflex and Periodic Breathing During Sleep at Altitude. *Chest* 2015;147(1):120-31
46. **Caravita S**, Faini A, Bilo G, Revera M, Giuliano A, Gregorini F, Rossi J, Villafuerte FC, Salvi P, Agostoni P, Parati G. Ischemic changes in exercise ECG in a hypertensive subject acutely exposed to high altitude. Possible role of a high-altitude induced imbalance in myocardial oxygen supply-demand. *Int J Cardiol* 2014;171(3):e100-2
47. Agostoni P, Swenson ER, Fumagalli R, Salvioni E, Cattadori G, Farina S, Bussotti M, Tamplenizza M, Lombardi C, Bonacina D, Brioschi M, **Caravita S**, Modesti P, Revera M, Giuliano A, Meriggi P, Faini A, Bilo G, Banfi C, Parati G. Acute high-altitude exposure reduces lung diffusion: data from the HIGHCARE Alps project. *Respir Physiol Neurobiol* 2013;188(2):223-8
48. **Caravita S**, Secchi MB, Wu SC, Pierini S, Paggi A. Sildenafil therapy for interferon- β -1a-induced pulmonary arterial hypertension: a case report. *Cardiology* 2011;120(4):187-9
49. **Caravita S**, Wu SC, Secchi MB, Dadone V, Bencini C, Pierini S. Long-term effects of intermittent Iloprost infusion on pulmonary arterial pressure in connective tissue disease. *Eur J Intern Med* 2011;22(5):518-21
50. Wu SC, **Caravita S**, Secchi MB. Hyperparathyroidism in celiac disease: always secondary? *Intern Emerg Med* 2012;7:S11-3

51. **Caravita S**, Secchi MB, Wu SC, Lisi E, Raiteri R, Lambiase M, Arlati C. Takayasu arteritis with aortic coarctation and multiple stenosis of aortic branches: diagnostic and therapeutic implications. *Recenti Prog Med* 2010; 101:293-8.
52. Wu SC, **Caravita S**, Lisi E, Pierini S, Dadone V, Todd SE, Gentile F, Secchi MB. Pulmonary Arterial Hypertension. *Intern Emerg Med* 2009; 4: 459-70