

CURRICULUM VITAE
Prof. Mariantonietta Cicoira

Date of birth

21 November 1970

Nationality

Italian

Civil Status

Married

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Present position

2014- today : Associate professor at the Division of Clinical Cardiology, University of Verona, Italy. Main clinical interests: acute and chronic heart failure; intensive cardiac care; mechanical support; heart transplantation; exercise physiology.

Previous post-doctoral appointments

1996: Registration with the Council of Medical Doctors of Verona (registration n. 06656)

1998: GMC registration: Full Registration n. 4496861

April- December 1998: research fellowship at the Department of Cardiac Medicine, National Heart & Lung Institute, London, Director: Prof. Philip A Poole-Wilson

2001-2003: PhD in chronic-degenerative disorders, with focus on skeletal muscle abnormalities in chronic heart failure patients.

2003-2014: researcher at the Section of Cardiology, Dept. of Medicine, University of Verona, Italy

1-8-2017: Scientific National Abilitation for full professorship in Cardiology

Practical Experiences

- Clinical experience in the ward of Cardiology and Intensive Coronary Care Unit at the Ospedale Civile Maggiore in Verona
- Reading and interpreting Holter ECG
- Exercise testing
- Transthoracic echocardiography
- Transoesophageal echocardiography
- Stress-Echocardiography
- Skeletal muscle biopsies
- Several clinical trials on chronic heart failure

Referee for international and national scientific journals:

1. Circulation
2. European Heart Journal
3. European Journal of Heart Failure
4. Italian Heart Journal/ Journal of Cardiovascular Medicine
5. American Journal of Cardiology
6. Nature Clinical Practice Cardiovascular Medicine (Nature Publishing Group)

Grants and awards

- 1) **1998:** ESAC (European Section of the Aldosterone Council). Research project: "EFFECTS OF ALDOSTERONE ANTAGONISTS ON DIASTOLIC FUNCTION AND NEUROHORMONAL ACTIVATION IN PATIENTS WITH CHRONIC HEART FAILURE.
- 2) **2001:** Winner of the Young Investigator Award of the Italian Society of Cardiology with the paper: "IMPROVEMENT OF THE PROGNOSTIC POWER OF PEAK OXYGEN CONSUMPTION AFTER CORRECTION FOR LEAN BODY MASS IN PATIENTS WITH CHRONIC HEART FAILURE".
- 3) **2002:** Winner of a grant of the Italian Society of Cardiology for a research fellowship at the Department of Cardiac Medicine, NHLI, London, for the research project: "Mechanisms of disease progression in chronic heart failure: role of neuro-hormonal and immune activation in determining skeletal muscle changes" .

Fellowship and scientific boards:

- Fellow of the European Society of Cardiology (2006)
- Fellow of the Italian Society of Cardiology (1995)
- Member of the Scientific board of the Heart Failure Group, National Association of Cardiology (ANMCO) since 2007

References:

- Prof. Andrew J S Coats, MA, DM, MBB Chir, FRCP, FRACP, FESC, FACC
Honorary Consultant Cardiologist
National Heart & Lung Institute
London, UK
- Dr. Stefan D. Anker, MD, PhD
Senior Lecturer
National Heart & Lung Institute
London, UK

PUBLICATIONS

1) 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, Magrì D, Parati G, Caravita S, Re F, **Cicoira 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/ejhf.989. [Epub ahead of print] PubMed PMID: 28949086.

2) 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 M, Magrì D, Correale M, Parati G, Caravita S, Spadafora E, Re F, **Cicoira M**, Frigerio M, Bussotti M, Minà C, Oliva F, Battaia E, Belardinelli R, Mezzani A, Pastormerlo L, Di Lenarda 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 Jul;19(7):904-914.

3) 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, Filardi PP, 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; MECKI score Research Group (appendix). Heart failure and anemia: Effects on prognostic variables. *Eur J Intern Med*. 2017 Jan;37:56-63.

4) Kube J, Ebner N, Jankowska EA, Rozentryt P, **Cicoira M**, Filippatos GS, Ponikowski P, Doehner W, Anker SD, von Haehling S. The influence of confounders in the analysis of mid-regional pro-atrial natriuretic peptide in patients with chronic heart failure. *Int J Cardiol*. 2016 Sep 15;219:84-91.

5) Bonapace S, Rossi A, **Cicoira M**, Targher G, Marino P, Benfari G, Mugnai G, Arcaro G, Vassanelli C. Echocardiographically Derived Pulse Wave Velocity and Diastolic Dysfunction Are Associated with an Increased Incidence of Atrial Fibrillation in Patients with Systolic Heart Failure. *Echocardiography*. 2016 Jul;33(7):1024-31. doi: 10.1111/echo.13230. Epub 2016 Jun 9. PubMed PMID: 27277158.

6) Elbers LP, Sjouke B, Zannad F, **Cicoira M**, Vizzardi E, Václavík J, Gerdes VE, Squizzato A. Effects of mineralocorticoid receptor antagonists on the risk of thrombosis, bleeding and mortality: A systematic review and meta-analysis of randomized controlled trials. *Thromb Res*. 2016 Aug;144:32-9.

7) Piepoli MF, Corrà U, Veglia F, Bonomi A, Salvioni E, Cattadori G, Metra M, Lombardi C, Sinagra G, Limongelli G, Raimondo R, Re F, Magrì D, Belardinelli R, Parati G, Minà C, Scardovi AB, Guazzi M, **Cicoira M**, Scrutinio D, Di Lenarda A, Bussotti M, Frigerio M, Correale M, Villani GQ, Paolillo S, Passino C, Agostoni P; MECKI Score Research Group. Exercise tolerance can explain the obesity paradox in patients with systolic heart failure: data from the MECKI Score Research Group. *Eur J Heart Fail*. 2016 May;18(5):545-53.

8) Corrà U, Agostoni P, Giordano A, Cattadori G, Battaia E, La Gioia R, Scardovi AB, Emdin M, Metra M, Sinagra G, Limongelli G, Raimondo R, Re F, Guazzi M,

Belardinelli R, Parati G, Magrì D, Fiorentini C, **Cicoira M**, Salvioni E, Giovannardi M, Veglia F, Mezzani A, Scrutinio D, Di Lenarda A, Ricci R, Apostolo A, Iorio AM, Paolillo S, Palermo P, Contini M, Vassanelli C, Passino C, Giannuzzi P, Piepoli MF; MECKI Score Research Group. Sex Profile and Risk

Assessment With Cardiopulmonary Exercise Testing in Heart Failure: Propensity Score Matching for Sex Selection Bias. *Can J Cardiol.* 2016 Jun;32(6):754-9.

9) Corrà U, Agostoni P, Giordano A, Cattadori G, Battaia E, La Gioia R, Scardovi

AB, Emdin M, Metra M, Sinagra G, Limongelli G, Raimondo R, Re F, Guazzi M, Belardinelli R, Parati G, Magrì D, Fiorentini C, **Cicoira M**, Salvioni E, Giovannardi M, Veglia F, Mezzani A, Scrutinio D, Di Lenarda A, Ricci R, Apostolo A, Iorio AM, Paolillo S, Palermo P, Contini M, Vassanelli C, Passino C, Giannuzzi P, Piepoli MF; MECKI Score Research Group; Other Members of the MECKI Score research Group, Antonioli L, Segurini C, Bertella E, Farina S, Bovis F, Pietrucci F, Malfatto G, Roselli T, Buono A, Calabrò R, De Maria R, Santoro D, Campanale S, Caputo D, Bertipaglia D, Berton E. The metabolic exercise test data combined with Cardiac And Kidney Indexes (MECKI) score and prognosis in heart failure. A validation study. *Int J Cardiol.* 2016 Jan 15;203:1067-72.

10) Paolillo S, Agostoni P, Masarone D, Corrà U, Passino C, Scrutinio D, Correale M, Cattadori G, Metra M, Girola D, Piepoli MF, Salvioni E, Giovannardi M, Iorio A, Emdin M, Raimondo R, Re F, **Cicoira M**, Belardinelli R, Guazzi M, Clemenza F, Parati G, Scardovi AB, Di Lenarda A, La Gioia R, Frigerio M, Lombardi C, Gargiulo P, Sinagra G, Pacileo G, Perrone-Filardi P, Limongelli G; Metabolic Exercise test data combined with Cardiac and Kidney Indexes (MECKI) Score Research Group. Prognostic role of atrial fibrillation in patients affected by chronic heart failure. Data from the MECKI score research group. *Eur J Intern Med.* 2015;26(7):515-20.

11) Rossi A, Temporelli PL, **Cicoira M**, Gaibazzi N, Cioffi G, Nistri S, Magatelli M, Tavazzi L, Faggiano P. Beta-blockers can improve survival in medically-treated patients with severe symptomatic aortic stenosis. *Int J Cardiol* 2015;190:15-7.

12) 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

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13) Corrà U, Agostoni P, Piepoli MF; Giordano A, Mezzani A, Giannuzzi P, Cattadori G, Fiorentini C, Salvioni E, Giovannardi M, Veglia F, Apostolo A, Palermo P, Contini M, Vignati C, Farina S, Bovis F, **Cicoira M**, Vassanelli C, La Gioia R, Scrutinio D, Passantino A, Santoro D, Campanale S, Caputo D, Scardovi AB, Ricci R, Emdin M, Metra M, Dei Cas L, Sinagra G, Berton E, Limongelli G, Iorio AM, Roselli T, Buono A, Calabrò R, Raimondo R, Vaninetti R, Bertipaglia D, Re F, Guazzi M, Belardinelli R, Pietrucci F, Parati G, Magrì D, Di Lenarda A, Paolillo S, Perrone-Filardi P, Passino C, Pastormerlo LE, Malfatto G, Caravita S. Metabolic exercise data combined with cardiac and kidney indexes: MECKI score. Predictive role in cardiopulmonary exercise testing with low respiratory exchange ratio in heart failure. *Int J Cardiol* 2015; 184:299-301.

14) Magrì D, Agostoni P, Corrà U, Passino C, Scrutinio D, Perrone-Filardi P, Correale M, Cattadori G, Metra M, Girola D, Piepoli MF, Iorio A, Emdin M, Raimondo R, Re F, **Cicoira M**, Belardinelli R, Guazzi M, Limongelli G, Clemenza F, Parati G, Frigerio M, Casenghi M, Scardovi AB, Ferraironi A, Di Lenarda A, Bussotti M, Apostolo A, Paolillo S, La Gioia R, Gargiulo P, Palermo P, Minà C, Farina S, Battaia E, Maruotti A, Pacileo G, Contini M, Oliva F, Ricci R, Sinagra G; Metabolic Exercise test data combined with Cardiac and Kidney Indexes (MECKI) Score Research Group. Deceptive meaning of oxygen uptake measured at the anaerobic threshold in patients with systolic heart failure and atrial fibrillation. *Eur J Prev Cardiol* 2015;22:1046-55.

15) Rossi A, Gaibazzi N, Bellelli G, Nistri S, **Cicoira M**, Cioffi G, Faden G, Temporelli PL, Faggiano P. Obesity paradox in patients with aortic valve stenosis. Protective effect of body mass index independently of age, disease

severity, treatment modality and non-cardiac comorbidities. *Int J Cardiol.* 2014;176:1441-3.

16) Rossi A, Dandale R, Nistri S, Faggiano P, **Cicoira M**, Benfari G, Onorati F, Santini F, Messika-Zeitoun D, Enriquez-Sarano M, Vassanelli C. Functional mitral regurgitation in patients with aortic stenosis: prevalence, clinical correlates and pathophysiological determinants: a quantitative prospective study. *Eur Heart J Cardiovasc Imaging* 2014;15:631-6.

17) Pellegrini P, Rossi A, Pasotti M, Raineri C, **Cicoira M**, Bonapace S, Dini FL, Temporelli PL, Vassanelli C, Vanderpool R, Naeije R, Ghio S. Prognostic relevance of pulmonary arterial compliance in patients with chronic heart failure. *Chest* 2014;145:1064-70.

18) Rossi A, Faggiano P, Amado AE, **Cicoira M**, Bonapace S, Franceschini L, Dini FL, Ghio S, Agricola E, Temporelli PL, Vassanelli C. Mitral and aortic valve sclerosis/calcification and carotid atherosclerosis: results from 1065 patients. *Heart Vessels* 2014;29:776-83.

19) Cattadori G, Agostoni P, Corrà U, Di Lenarda A, Sinagra G, Veglia F, Salvioni E, La Gioia R, Scardovi AB, Emdin M, Metra M, Limongelli G, Raimondo R, Re F, Guazzi M, Belardinelli R, Parati G, Magrì D, Fiorentini C, Mezzani A, Scrutinio D, Pacileo G, Apostolo A, Iorio A, Paolillo S, Palermo P, Contini M, Giannuzzi P, Battaia E, **Cicoira M**, Passino C, Piepoli MF; MECKI score research group. Severe heart failure prognosis evaluation for transplant selection in the era of beta-blockers: role of peak oxygen consumption. *Int J Cardiol.* 2013;168:5078-81.

20) Agostoni P, Corrà U, Cattadori G, Veglia F, Battaia E, La Gioia R, Scardovi AB, Emdin M, Metra M, Sinagra G, Limongelli G, Raimondo R, Re F, Guazzi M, Belardinelli R, Parati G, Magrì D, Fiorentini C, **Cicoira M**, Salvioni E, Giovannardi M, Mezzani A, Scrutinio D, Di Lenarda A, Mantegazza V, Ricci R, Apostolo A, Iorio A, Paolillo S, Palermo P, Contini M, Vassanelli C, Passino C, Piepoli MF; MECKI Score Research Group. Prognostic value of indeterminable anaerobic threshold in heart failure. *Circ Heart Fail* 2013;6:977-87.

21) Dini FL, Ghio S, Klersy C, Rossi A, Simioniuc A, Scelsi L, Genta FT, **Cicoira M**, Tavazzi L, Temporelli PL. Effects on survival of loop diuretic dosing

in ambulatory patients with chronic heart failure using a propensity score analysis. *Int J Clin Pract* 2013;67:656-64.

22) Bonapace S, Rossi A, **Cicoira M**, Targher G, Valbusa F, Benetos A, Vassanelli C. Increased aortic pulse wave velocity as measured by echocardiography is strongly associated with poor prognosis in patients with heart failure. *J Am Soc Echocardiogr* 2013;26:714-20.

23) Pacchioni A, Rossi A, Benfari G, **Cicoira M**, Pellegrini P, Bonapace S, Vassanelli C. A higher body mass index is associated with reduced prevalence of unstable atherosclerotic plaque: a possible explanation of the obesity paradox. *Int J Cardiol* 2013;168(3):2912-3.

24) Ghio S, Temporelli PL, Klersy C, Simioniuc A, Girardi B, Scelsi L, Rossi A, **Cicoira M**, Tarro Genta F, Dini FL. Prognostic relevance of a non-invasive evaluation of right ventricular function and pulmonary artery pressure in patients with chronic heart failure. *Eur J Heart Fail*. 2013;15:408-14.

25) **Cicoira M**, Conte L, Rossi A, Bonapace S, D'Agostini G, Dugo C, Lupo A, Ronco C, Vassanelli C. Renal arterial pulsatility predicts progression of chronic kidney disease in chronic heart failure patients. *Int J Cardiol*. 2013; 167: 3050-1.

26) Rossi A, Bonapace S, **Cicoira M**, Conte L, Anselmi A, Vassanelli C. Aortic stiffness: an old concept for new insights into the pathophysiology of functional mitral regurgitation. *Heart Vessels* 2013;28:606-12.

27) Ronco C, **Cicoira M**, McCullough PA. Cardiorenal syndrome type 1: pathophysiological crosstalk leading to combined heart and kidney dysfunction in the setting of acutely decompensated heart failure. *J Am Coll Cardiol*. 2012;60:1031-42.

28) **Cicoira M**, Rossi A, Chiampan A, Frigo G, Bergamini C, Rigolli M, Zanolla L, Vassanelli C. Identification of high-risk chronic heart failure patients in clinical practice: role of changes in left ventricular function. *Clin Cardiol*. 2012;35:580-4.

- 29) Rossi A, Targher G, Zoppini G, **Cicoira M**, Bonapace S, Negri C, Stoico V, Faggiano P, Vassanelli C, Bonora E. Aortic and mitral annular calcifications are predictive of all-cause and cardiovascular mortality in patients with type 2 diabetes. *Diabetes Care*. 2012;35:1781-6.
- 30) Rossi A, Faggiano P, Amado AE, **Cicoira M**, Bonapace S, Franceschini L, Dini Lloyd F, Ghio S, Agricola E, Temporelli PL, Vassanelli C. Aortic valve sclerosis is a marker of atherosclerosis independently of traditional clinical risk factors. Analysis in 712 patients without ischemic heart disease. *Int J Cardiol*. 2012;158:163-4.
- 31) Ghio S, Temporelli PL, Marsan NA, Poppe K, Giannuzzi P, Dini FL, Rossi A, Doughty RN, Whalley G; MeRGE HF collaborators. Prognostic implications of left ventricular dilation in patients with nonischemic heart failure: interactions with restrictive filling pattern and mitral regurgitation. *Congest Heart Fail*. 2012;18:198-204.
- 32) Attanasio P, Ronco C, Anker SD, **Cicoira M**, von Haehling S. Role of iron deficiency and anemia in cardio-renal syndromes. *Semin Nephrol*. 2012;32:57-62. <http://www.ncbi.nlm.nih.gov/pubmed/23470684>
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- 36) Rossi A, Dini FL, Faggiano P, Agricola E, **Cicoira M**, Frattini S, Simioniuc A, Gullace M, Ghio S, Enriquez-Sarano M, Temporelli PL. Independent prognostic value of functional mitral regurgitation in patients with

heart failure. A quantitative analysis of 1256 patients with ischaemic and non-ischaemic dilated cardiomyopathy. *Heart* 2011; 97:1675-80.

37) Mugnai G, **Cicoira M**, Rossi A, Vassanelli C. Syncope in cardiac amyloidosis and chronic ischemic heart disease: A case report. *Exp Clin Cardiol* 2011;16:51-3.

38) Piepoli M, Guazzi M, Boriani G, **Cicoira M**, Corrà U, Dalla Libera L, Emdin M, Mele D, Passino C, Vescovo G, Vigorito C, Villani GQ, Agostoni P. Working group 'Exercise physiology, Sport Cardiology and Cardiac Rehabilitation', Italian Society of Cardiology. Exercise intolerance in chronic heart failure: mechanisms and therapies. Part I. *Eur J Cardiovasc Prev Rehabil* 2010; 17:637-42.

39) Jankowska EA, Filippatos GS, Von Haehling S, Papassotiriou J, Morgenthale NG, **Cicoira M**, Schefold JC, Rozentryt P, Ponikowska B, Doehner W, Banasiak W, Hartmann O, Struck J, Bergmann A, Anker SD, Ponikowski P. Identification of chronic heart failure patients with a high 12-month mortality risk using biomarkers including plasma C-terminal pro-endothelin-1. *PLoS One* 2011;6:e14506.

40) Rigolli M, Cicoira M, Bergamini C, Chiampan A, Rossi A, Vassanelli C. Progression of left ventricular dysfunction and remodeling under optimal medical therapy in CHF patients: role of individual genetic background. *Cardiol Res Pract* 2011;2011:798658.

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42) Toniolo M, Bergamini C, Ferrero V, Morando G, **Cicoira M**, Vassanelli C. Severe acute left ventricular dysfunction in multiple sclerosis: a cvase report and review of the literature. *J Cardiovasc Med* 2011; 12: 501-5.

- 43) Gavazzi A, Cicoira M, Piepoli M, Pulignano G, Scardovi AB, Volterrani M, Senni M. Role of clinical evaluation and functional testing in the tailored follow-up of chronic heart failure patients. *G Ital Cardiol* 2010;11(Suppl): 8S-16S.
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