

## CURRICULUM VITAE

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Maria Luce Caputo, MD

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### PERSONAL INFORMATION

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Citizenship status Italian  
Date of birth October 12<sup>th</sup>, 1983  
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### EDUCATION AND TRAINING

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October 2021 PhD in Translational Medicine, University of Pavia – Department of Molecular Medicine, with a project entitled: Epidemiological and prognostic stratification of out of hospital cardiac arrest on the territory: implications for the optimization of the performance of the resuscitation network.

August 2021 EHRA Certification in Cardiac Pacing Level A.

June 2016 EHRA Invasive Cardiac Electrophysiology Certification Level 1.

July 2014 Diploma in Cardiology awarded by the University of Siena (Italy). Title of thesis: “Clinical utility of continuous transesophageal echocardiographic monitoring in transvenous laser extraction procedures”.

### WORK EXPERIENCE

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Since Jan. 2014 Clinical Electrophysiologist at Cardiocentro Ticino, Lugano, Switzerland (Director: Prof. Angelo Auricchio)

July 2009 Cardiologist in training, Cardiology Department, University Hospital of Siena, Italy (Director: Prof. Sergio Mondillo)

June 2014

1. Cameli M, **Caputo M**, Mondillo S, Ballo P, Palmerini E, Lisi M, Marino E, Galderisi M. Feasibility and reference values of left atrial longitudinal strain imaging by two-dimensional speckle tracking. *Cardiovasc Ultrasound*. 2009 Feb 8;7:6.
2. Palazzuoli A, Quatrini I, Calabrò A, Antonelli G, **Caputo M**, Campagna MS, Franci B, Nuti R. Anemia correction by erythropoietin reduces BNP levels, hospitalization rate, and NYHA class in patients with cardio-renal anemia syndrome. *Clin Exp Med*. 2011 Mar;11(1):43-8.
3. Palazzuoli A, Maisel A, **Caputo M**, Fineschi M, Quatrini I, Calabrò A, Campagna MS, Franci B, Grothgar S, Pierli C, Nuti R. B-type natriuretic peptide levels predict extent and severity of coronary disease in non-ST elevation coronary syndromes and normal left ventricular systolic function. *Regul Pept*. 2011 Feb 25;167(1):129-33.
4. Palazzuoli A, **Caputo M**, Fineschi M, Navarri R, Calabrò A, Cameli M, Campagna MS, Franci B, Pierli C, Nuti R, Maisel A. B-type natriuretic peptide as an independent predictor of coronary disease extension in non-ST elevation coronary syndromes with preserved systolic function. *Eur J Prev Cardiol*. 2012 Jun;19(3):366-73.
5. Mondillo S, Cameli M, **Caputo ML**, Lisi M, Palmerini E, Padeletti M, Ballo P. Early detection of left atrial strain abnormalities by speckle-tracking in hypertensive and diabetic patients with normal left atrial size. *J Am Soc Echocardiogr*. 2011 Aug;24(8):898-908.
6. **Caputo M**, Urselli R, Capati E, Navarri R, Sinesi L, Furiozzi F, Ballo P, Palazzuoli A, Favilli R, Mondillo S. Usefulness of left ventricular diastolic dysfunction assessed by pulsed tissue Doppler imaging as a predictor of atrial fibrillation recurrence after successful electrical cardioversion. *Am J Cardiol*. 2011 Sep 1;108(5):698-704.
7. Cameli M, Ballo P, Righini FM, **Caputo M**, Lisi M, Mondillo S. Physiologic determinants of left ventricular systolic torsion assessed by speckle tracking echocardiography in healthy subjects. *Echocardiography*. 2011 Jul;28(6):641-8.
8. Santoro A, **Caputo M**, Antonelli G, Lisi M, Padeletti M, D'Ascenzi F, Cameli M, Giacomini E, Mondillo S. Left ventricular twisting as determinant of diastolic function: a speckle tracking study in patients with cardiac hypertrophy. *Echocardiography*. 2011 Sep;28(8):892-8.
9. Palazzuoli A, **Caputo M**, Calabrò A, Nuti R. Clinical impact of BNP and other emerging biomarkers in heart failure evaluation and management. *Minerva Cardioangiol*. 2012 Apr;60(2):183-94. Review.
10. Ballo P, **Caputo M**, Antonelli G, Santoro A, Cameli M, De Vito R, Benincasa S, Navarri R, Giacomini E, Zuppiroli A, Mondillo S. The E/e' ratio in the gray zone as predictor of left atrial dysfunction in patients with normal left ventricular ejection fraction: a speckle tracking study. *Int J Cardiol*. 2012 Jul 2;158(2):329-30.

11. **Caputo M**, Urselli R, Zacà V, Capati E, Padeletti M, De Nicola S, Navarri R, Antonelli G, Nucci C, Giacomini E, Mondillo S. Detection of early left ventricular and atrial dysfunction in overweight patients with preserved ejection fraction: a speckle tracking analysis. *Echocardiography*. 2013 May;30(5):551-7.
12. Padeletti M, **Caputo M**, Zacà V, Tsioulpas C, Bernazzali S, Mondillo S, Maccherini M, Jelic S. Effect of Bosentan on Pulmonary Hypertension Secondary to Systolic Heart Failure. *Pharmacology*. 2013 Nov 29;92(5-6):281-285.
13. Agoston G, Gargani L, Miglioranza MH, **Caputo M**, Badano LP, Moreo A, Muraru D, Mondillo S, Moggi Pignone A, Matucci Cerinic M, Sicari R, Picano E, Varga A. Left atrial dysfunction detected by speckle tracking in patients with systemic sclerosis. *Cardiovasc Ultrasound*. 2014 Aug 5;12:30.
14. Regoli F, **Caputo M**, Conte G, Faletra FF, Moccetti T, Pasotti E, Cassina T, Casso G, Schlotterbeck H, Engeler A, Auricchio A. Clinical utility of routine use of continuous transesophageal echocardiography monitoring during transvenous lead extraction procedure. *Heart Rhythm*. 2015 Feb;12(2):313-20.
15. Nguyễn UC, Potse M, Regoli F, **Caputo ML**, Conte G, Murzilli R, Muzzarelli S, Moccetti T, Caiani EG, Prinzen FW, Krause R, Auricchio A. An in-silico analysis of the effect of heart position and orientation on the ECG morphology and vectorcardiogram parameters in patients with heart failure and intraventricular conduction defects. *J Electrocardiol*. 2015 Jul-Aug;48(4):617-25.
16. Mauri R, Burkart R, Benvenuti C, **Caputo ML**, Moccetti T, Del Bufalo A, Gallino A, Casso C, Anselmi L, Cassina T, Klersy C, Auricchio A. Better management of out-of-hospital cardiac arrest increases survival rate and improves neurological outcome in the Swiss Canton Ticino. *Europace* 2016; 18: 398-404.
17. Conte G, **Caputo ML**, Regoli F, Marcon S, Klersy C, Adjibodou B, Del Bufalo A, Moccetti T, Auricchio A. True idiopathic ventricular fibrillation in out-of-hospital cardiac arrest survivors in the Swiss Canton Ticino: prevalence, clinical features, and long-term follow-up. *Europace*. 2016 Feb 17.
18. Regoli F, Bongiorno MG, Rordorf R, Santamaria M, Klersy C, Segreti L, De Regibus V, Moccetti T, Conte G, **Caputo ML**, Auricchio A. High recurrence of device-related adverse events following transvenous lead extraction procedure in patients with cardiac resynchronization devices. *Eur J Heart Fail*. 2016;18(10):1270-1277.
19. **Caputo ML**, Regoli F, Conte G, Adjibodou B, Svab S, Del Bufalo A, Moccetti T, Curti M, Klersy C, Auricchio A. Temporal trends and long term follow-up of implantable cardioverter defibrillator therapy for secondary prevention: A 15-year single-centre experience. *Int J Cardiol*. 2016 Nov 10;228:31-36.

20. Conte G, Luca A, Yazdani S, **Caputo ML**, Regoli F, Moccetti T, Kapfenberger L, Vesin JM, Auricchio A. Usefulness of P-Wave Duration and Morphologic Variability to Identify Patients Prone to Paroxysmal Atrial Fibrillation. *Am J Cardiol*. 2016 Oct 8. (16)31615-0.
21. Savastano S, Vanni V, Burkart R, Raimondi M, Canevari F, Molinari S, Baldi E, Danza AI, **Caputo ML**, Mauri R, Regoli F, Conte G, Benvenuti C, Auricchio A. Comparative performance assessment of commercially available automatic external defibrillators: A simulation and real-life measurement study of hands-off time. *Resuscitation*. 2017 Jan;110:12-17.
22. Conte G, **Caputo ML**, Regoli F, Moccetti T, Brugada P, Auricchio A. Brugada Syndrome and Early Repolarisation: Distinct Clinical Entities or Different Phenotypes of the Same Genetic Disease? *Arrhythm Electrophysiol Rev*. 2016 Aug;5(2):84-9.
23. Olde Nordkamp LR, Conte G, Rosenmöller BR, Warnnaars JL, Tan HL, **Caputo ML**, Regoli F, Moccetti T, Auricchio A, Knops RE, Wilde AA. Brugada Syndrome and the Subcutaneous Implantable Cardioverter-Defibrillator. *J Am Coll Cardiol*. 2016 Aug 9;68(6):665-6.
24. **Caputo ML**, Muschietti S, Burkart R, Benvenuti C, Conte G, Regoli F, Mauri R, Klersy C, Moccetti T, Auricchio A. Lay persons alerted by mobile application system initiate earlier cardio-pulmonary resuscitation: A comparison with SMS-based system notification. *Resuscitation*. 2017 Mar 6;114:73-78.
25. Maffessanti F, Wanten J, Potse M, Regoli F, **Caputo ML**, Conte G, Sürder D, Illner A, Krause R, Moccetti T, Auricchio A, Prinzen FW. The relation between local repolarization and T-wave morphology in heart failure patients. *Int J Cardiol*. 2017 Feb 22.
26. Conte G, Kawabata M, de Asmundis C, Taravelli E, Petracca F, Ruggiero D, **Caputo ML**, Regoli F, Chierchia GB, Chiodini A, Del Bufalo A, Moccetti T, Goya M, Hirao K, Vicentini A, De Ferrari GM, Brugada P, Auricchio A. High rate of subcutaneous implantable cardioverter-defibrillator sensing screening failure in patients with Brugada syndrome: a comparison with other inherited primary arrhythmia syndromes. *Europace*. 2017 Mar 7.
27. Conte G, **Caputo ML**, Regoli F, Moccetti T, Auricchio A. Catheter ablation of a left posterior fascicular ventricular tachycardia guided by a novel high-resolution multipolar mapping catheter. *J Interv Card Electrophysiol*. 2017 Jun;49(1):101-102.
28. Regoli F, Araco M, Moccetti T, **Caputo ML**, Conte G, Auricchio A, Moccetti M. Potential Clinical Utility and Feasibility of Combined Left Atrial Appendage Closure and Positioning of Miniaturized Pacemaker Through a Single Right Femoral Vein Access. *Am J Cardiol*. 2017 Jul 15;120(2):236-242.
29. Nguyễn UC, Maffessanti F, Mafi-Rad M, Conte G, Zeemering S, Regoli F, **Caputo ML**, van Stipdonk AMW, Bekkers SCAM, Suerder D, Moccetti T, Krause R, Prinzen FW, Vernooy K, Auricchio A. Evaluation

of the use of unipolar voltage amplitudes for detection of myocardial scar assessed by cardiac magnetic resonance imaging in heart failure patients. *PLoS One*. 2017 Jul 5;12(7):e0180637.

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32. Regoli F, D'Ambrosio G, **Caputo ML**, Svab S, Conte G, Moccetti T, Klersy C, Cassina T, Demertzis S, Auricchio A. New-onset pericardial effusion during transvenous lead extraction: incidence, causative mechanisms, and associated factors. *J Interv Card Electrophysiol*. 2018 Apr;51(3):253-261.
33. Maffessanti F, Prinzen FW, Conte G, Regoli F, **Caputo ML**, Suerder D, Moccetti T, Faletta F, Krause R, Auricchio A. Integrated Assessment of Left Ventricular Electrical Activation and Myocardial Strain Mapping in Heart Failure Patients: A Holistic Diagnostic Approach for Endocardial Cardiac Resynchronization Therapy, Ablation of Ventricular Tachycardia, and Biological Therapy. *JACC Clin Electrophysiol*. 2018;4(1):138-146.
34. Özkartal T, Regoli F, Conte G, **Caputo ML**, Klersy C, Moccetti T, Auricchio A. New onset of phrenic nerve palsy after laser-assisted transvenous lead extraction: a single-centre experience. *Europace*. 2018.
35. Conte G, Soejima K, de Asmundis C, Chierchia GB, Badini M, Miwa Y, **Caputo ML**, Özkartal T, Maffessanti F, Sieira J, Degreef Y, Stroker E, Regoli F, Moccetti T, Brugada P, Auricchio A. Value of high-resolution mapping in optimizing cryoballoon ablation of atrial fibrillation. *Int J Cardiol*. 2018: S0167-5273(18)30713-7.
36. **Caputo ML**, Baldi E, Savastano S, Burkart R, Benvenuti C, Klersy C, Cianella R, Anselmi L, Moccetti T, Mauri R, De Ferrari GM, Auricchio A. Validation of the return of spontaneous circulation after cardiac arrest (RACA) score in two different national territories. *Resuscitation*. 2018 Nov 14.
37. Auricchio A, Gianquintieri L, Burkart R, Benvenuti C, Muschietti S, Peluso S, Mira A, Moccetti T, **Caputo ML**. Real-life time and distance covered by lay first responders alerted by means of smartphone- application: implications for early initiation of cardiopulmonary resuscitation and access to automatic external defibrillators. *Resuscitation* 2019.
38. Maffessanti F, Jadczyk T, Kurzelowski R, Regoli F, **Caputo ML**, Conte G, Golba KS, Biernat J, Wilczek J, Dąbrowska M, Pezzuto S, Moccetti T, Krause R, Wojakowski W, Prinzen FW, Auricchio A. The influence of scar on the spatio-temporal relationship between elec-

trical and mechanical activation in heart failure patients. *Europace*. 2020;1;22(5):777-786.

39. Peluso S, Mira A, Rue H, Tierney NJ, Benvenuti C, Cianella R, **Caputo ML**, Auricchio A. A Bayesian spatiotemporal statistical analysis of out-of-hospital cardiac arrests. *Biometrical Journal*. 2020;1-15.
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41. Auricchio A, Peluso S, **Caputo ML**, Reinhold J, Benvenuti C, Burkart R, Cianella R, Klersy C, Baldi E, Mira A. Spatio-temporal prediction model of out- of-hospital cardiac arrest: Designation of medical priorities and estimation of human resources requirement. *PLoS One*. 2020 Aug 31;15(8):e0238067.
42. Auricchio A, **Caputo ML**, Baldi E, Klersy C, Benvenuti C, Cianella R, De Ferrari GM, Moccetti T. Gender-specific differences in return-to-spontaneous circulation and outcome after out-of-hospital cardiac arrest: Results of sixteen-year-state-wide initiatives. *Resusc Plus*. 2020 Nov 5;4:100038.
43. Conte G, Soejima K, de Asmundis C, Bruno J, Cattaneo F, Chierchia GB, Miwa Y, **Caputo ML**, Sieira J, Regoli F, Moccetti T, Brugada P, Auricchio A. High-density mapping in patients undergoing ablation of atrial fibrillation with the fourth- generation cryoballoon and the new spiral mapping catheter. *Europace*. 2020 Nov 1;22(11):1653-1658 .
44. Baldi E, Schnaubelt S, **Caputo ML**, Klersy C, Clodi C, Bruno J, Compagnoni S, Benvenuti C, Domanovits H, Burkart R, Fracchia R, Primi R, Ruzicka G, Holzer M, Auricchio A, Savastano S. Association of Timing of Electrocardiogram Acquisition After Return of Spontaneous Circulation With Coronary Angiography Findings in Patients With Out-of-Hospital Cardiac Arrest. *JAMA Netw Open*. 2021 Jan 4;4(1).
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46. Conte G, Cattaneo F, de Asmundis C, Berne P, Vicentini A, Namdar M, Scalone A, Klersy C, **Caputo ML**, Demarchi A, Özkartal T, Salghetti F, Casu G, Passarelli I, Mameli S, Shah D, Burri H, De Ferrari G, Brugada P, Auricchio A. Impact of SMART Pass filter in patients with ajmaline-induced Brugada syndrome and subcutaneous implantable cardioverter-defibrillator eligibility failure: results from a prospective multicentre study. *Europace*. 2022 May 3;24(5):845-854.

47. Baldi E, **Caputo ML**, Auricchio A, Vanetta C, Cresta R, Benvenuti C. A quantitative assessment of the contribution of “citizen First Responder” in the adult out-of-hospital chain of survival during COVID-19 pandemic. *Resuscitation*. 2021 Sep;166:41-42. doi: 10.1016/j.resuscitation.2021.07.024.
48. Treskes RW, Beles M, **Caputo ML**, Cordon A, Biundo E, Maes E, Egorova AD, Schalijs MJ, Van Bockstal K, Grazioli-Gauthier L, Vanderheyden M, Bartunek J, Auricchio A, Beerens SLMA, Heggermont WA. Clinical and economic impact of HeartLogic™ compared with standard care in heart failure patients. *ESC Heart Fail*. 2021 Apr;8(2):1541-1551.
49. Auricchio A, Özkartal T, Salghetti F, Neumann L, Pezzuto S, Gharaviri A, Demarchi A, **Caputo ML**, Regoli F, De Asmundis C, Chierchia GB, Brugada P, Klersy C, Moccetti T, Schotten U, Conte G. Short P-Wave Duration is a Marker of Higher Rate of Atrial Fibrillation Recurrences after Pulmonary Vein Isolation: New Insights into the Pathophysiological Mechanisms Through Computer Simulations. *J Am Heart Assoc*. 2021 Jan 19;10(2):e018572. doi: 10.1161/JAHA.120.018572. Epub 2021 Jan 7. PMID: 33410337; PMCID: PMC7955300.
50. Pezzuto S, Prinzen FW, Potse M, Maffessanti F, Regoli F, **Caputo ML**, Conte G, Krause R, Auricchio A. Reconstruction of three-dimensional biventricular activation based on the 12-lead electrocardiogram via patient-specific modelling. *Europace*. 2021 Apr 6;23(4):640-647. doi: 10.1093/europace/euaa330.
51. Baldi E, **Caputo ML**, Klersy C, Benvenuti C, Contri E, Palo A, Primi R, Cresta R, Compagnoni S, Cianella R, Burkart R, De Ferrari GM, Auricchio A, Savastano S. End-tidal carbon dioxide (ETCO<sub>2</sub>) at intubation and its increase after 10 minutes resuscitation predicts survival with good neurological outcome in out-of-hospital cardiac arrest patients. *Resuscitation*. 2022 Dec;181:197-207.
52. Regoli F, Roberto M, Grazioli-Gauthier L, Cioffi G, Pasotti E, **Caputo ML**, Conte G, Breitenstein A, Moccetti T. Feasibility and clinical efficacy of double suture-mediated closure device technique for hemostasis during positioning of miniaturized wireless pacemaker. *J Interv Card Electrophysiol*. 2022 Jun;64(1):129-135.
53. Özkartal T, Demarchi A, **Caputo ML**, Baldi E, Conte G, Auricchio A. Perioperative Management of Patients with Cardiac Implantable Electronic Devices and Utility of Magnet Application. *J Clin Med*. 2022 Jan 28;11(3):691.
54. **Caputo ML**, Baldi E, Krüll JD, Pongan D, Cresta R, Benvenuti C, Cianella R, Primi R, Currao A, Bendotti S, Compagnoni S, Gentile FR, Anselmi L, Savastano S, Klersy C, Auricchio A. Impact of sex and role of coronary artery disease in out-of-hospital cardiac arrest presenting with refractory ventricular arrhythmias. *Front Cardiovasc Med*. 2023 Apr 11;10:1074432.
55. Gentile FR, Baldi E, Klersy C, Schnaubelt S, **Caputo ML**, Clodi C, Bruno J, Compagnoni S, Fasolino A, Benvenuti C, Domanovits H,

- Burkart R, Primi R, Ruzicka G, Holzer M, Auricchio A, Savastano S. Association Between Postresuscitation 12-Lead ECG Features and Early Mortality After Out-of-Hospital Cardiac Arrest: A Post Hoc Subanalysis of the PEACE Study. *J Am Heart Assoc.* 2023 May 15:e027923.
56. Auricchio A, Demarchi A, Özkartal T, Campanale D, **Caputo ML**, di Valentino M, Menafoglio A, Regoli F, Facchini M, Del Bufalo A, Foglia P, Ferrari N, Bomio F, Medeiros-Domingo A, Moccetti T, Pedrazzini GB, Klersy C, Conte G. Role of genetic testing in young patients with idiopathic atrioventricular conduction disease. *Europace.* 2023 Feb 16;25(2):643-650.
57. Maffessanti F, Jadczyk T, Wilczek J, Conte G, **Caputo ML**, Gołba KS, Biernat J, Cybulska M, Caluori G, Regoli F, Krause R, Wojakowski W, Prinzen FW, Auricchio A. Electromechanical factors associated with favourable outcome in cardiac resynchronization therapy. *Europace.* 2023 Feb 16;25(2):546-553.
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59. Guerini Giusteri V, **Caputo ML**, Baldi E, Auricchio A, Savastano S. Effect of COVID-19 on out-of-hospital cardiac arrest survival: No light at the end of the tunnel yet. *Resuscitation.* 2023. Oct;191:109957. doi: 10.1016/j.resuscitation.2023.109957.
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