



CURRICULUM VITAE Luigi Emilio Pastormerlo, MD, PhD.

FORMULATO AI SENSI DEGLI ARTT. 46 E 47 DPR 445/2000 (DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE DICHIARAZIONE SOSTITUTIVA DI ATTO DI NOTORIETA')

PERSONAL INFORMATION

Surname(s) / First name(s): Luigi Emilio Pastormerlo

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WORK EXPERIENCE:

Date: From may 2012 until now

Institution: Fondazione Toscana Gabriele Monasterio, Pisa and Massa Italy (FTGM),
Interventional Cardiology Unit:

Main Activities:

- execution of more than 6000 procedures of coronary catheterization as first operator
- performing of about 3000 coronary angioplasty as first operator, 700 of them in acute coronary syndrome (ACS) ST elevation myocardial infarction (STEMI) setting, i.e. primary angioplasty
- performing of more than 350 procedures of percutaneous left atrial appendage occlusion as first/second operator with the use of intracardiac echocardiography
- performing of several procedures of mitral edge to edge valvuloplasty, tricuspid edge to edge valvuloplasty and angular restriction, transcatheter aortic valve replacement, renal denervation, cardiac biopsy, peripheral angioplasty, patent foramen ovalis occlusion, interatrial defect occlusion, inter ventricular defect occlusion, percutaneous treatment for thoracic and abdominal aortic aneurisms as second/third operator

Date From may 2008 until now

Institution: Fondazione Toscana Gabriele Monasterio, Pisa and Massa Italy (FTGM) Clinical Cardiology and Cardiac Surgery Unit:

Main Activities: - clinical activity in Intensive Care Unit in Cardiology

-clinical activity in management of heart failure

- care of patients before/after cardiac surgery
- supervision of cardiovascular rehabilitation programs
- use of continuous replacement renal therapies in heart failure patients
- ambulatorial activity: cardiopulmonary stress test, holter ECG, chemo- and baro-reflex assessment, transoesophageal and transthoracic echocardiography

Date: From May 2011 to October 2011

Institution: Nuclear Medicine Unit at FTGM Pisa:

Main Activities: -performing and reporting of more than 400 cardiac stress scintigraphies under expert supervision

Date: From 18 July 2007 to 28 September 2007 and from 4 December 2007 to 31 January 2008

Institution: Centro Cardiologico Monzino Milano

Main Activities: -clinical activity in management of acute and cardiac heart failure
-ambulatory activity on cardiopulmonary stress test

Date: October 2006

Institution: Endocrine Unit-Massachusetts General Hospital-Harvard Medical School- Boston MA

Main Activities: -visiting student, clinical and experimental approach to endocrine diseases

Date: October 2006

Institution: Surgical Unit "New York Presbyterian Hospital –Cornell University-New York City USA

Main Activities: -visiting student clinical and experimental approach surgical abdominal diseases

Date: September 2005

Institution: International Centre for Genetic Engineering and Biotechnology Trieste

Main Activities: -experimental research on a mouse model of virus mediated gene delivery after myocardial infarction

ACADEMIC ACTIVITIES:

Date: from December 2020

Institution: Scuola Superiore Sant'Anna

Scientific coordinator of "Master Universitario di II livello 'Trattamento percutaneo della malattia coronarica'

PUBLISHED PAPERS: 60; 14 of them as first author.

1. Pastormerlo LE, De Caterina AR, Esposito A, Korsholm K, Berti S. State-of-the-Art of Transcatheter Left Atrial Appendage Occlusion. *J Clin Med*. 2024 Feb 6;13(4):939. doi: 10.3390/jcm13040939.
2. Angioletti C, Moretti G, Manetti S, Pastormerlo L, Vainieri M, Passino C. The evolution of TAVI performance overtime: an overview of systematic reviews. *BMC Cardiovasc Disord*. 2024 Jun 21;24(1):314. doi: 10.1186/s12872-024-03980-2. PMID: 38907344; PMCID: PMC11191264.
3. Pastormerlo L, Orazi F, Carapellucci E, Ferrari Chen YF, Mariani M, D'Agostino A, Benedetti G, Santoro G, Berti S. Intracardiac Echocardiography-Guided Atrial Flow Regulator Implantation for Heart Failure. *JACC Cardiovasc Interv*. 2024 Dec 20:S1936-8798(24)01699-6. doi: 10.1016/j.jcin.2024.10.060. Epub ahead of print. PMID: 39797839.
4. Mariani M, Bonanni M, Manzo R, Capasso R, Pastormerlo LE, Ravani M, Gasbarri T, Paradossi U, Berti S. Echocardiographer-guided transjugular three-dimensional intracardiac echocardiography in combination with transoesophageal echocardiography enhances the image quality during tricuspid valve repair procedures. *Eur Heart J Imaging Methods Pract*. 2024 Nov 9;2(3):qyae118. doi: 10.1093/ehjimp/qyae118. PMID: 39659698; PMCID: PMC11630000.
5. Mesnier J, Simard T, Jung RG, Lehenbauer KR, Piayda K, Pracon R, Jackson GG, Flores-Umanzor E, Faroux L, Korsholm K, Chun JKR, Chen S, Maarse M, Montrella K, Chaker Z, Spoon JN, Pastormerlo LE, Meincke F, Sawant AC, Moldovan CM, Qintar M, Aktas MK, Branca L, Radinovic A, Ram P, El-Zein RS, Flautt T, Ding WY, Sayegh B, Benito-González T, Lee OH, Badejoko SO, Paitazoglou C, Karim N, Zaghloul AM, Agarwal H, Kaplan RM, Alli O, Ahmed A, Suradi HS, Knight BP, Alla VM, Panaich SS, Wong T, Bergmann MW, Chothia R, Kim JS, Pérez de Prado A, Bazaz R, Gupta D, Valderrábano M, Sanchez CE, El Chami MF, Mazzone P, Adamo M, Ling F, Wang DD, O'Neill W, Wojakowski W, Pershad A, Berti S, Spoon DB, Kawsara A, Jabbour G, Boersma LVA, Schmidt B, Nielsen-Kudsk JE, Freixa X, Ellis CR, Fauchier L, Demkow M, Sievert H, Main ML, Hibbert B, Holmes DR Jr, Alkhouli M, Rodés-Cabau J. Persistent and Recurrent Device-Related Thrombus After Left Atrial Appendage Closure: Incidence, Predictors, and Outcomes. *JACC Cardiovasc Interv*. 2023 Nov 27;16(22):2722-2732.

6. Pastormerlo LE, Tondo C, Fassini G, Nicosia A, Ronco F, Contarini M, Giacchi G, Grasso C, Casu G, Romeo MR, Mazzone P, Limite L, Caramanno G, Geraci S, Pagnotta P, Chiarito M, Tamburino C, Berti S. Intra-Cardiac versus Transesophageal Echocardiographic Guidance for Left Atrial Appendage Occlusion with a Watchman FLX Device. *J Clin Med*. 2023 Oct 20;12(20):6658. doi: 10.3390/jcm12206658. Berti S, D'Agostino A, **Pastormerlo L**, Trianni G, Mariani M. A Novel Imaging Approach in Tricuspid Cardioband: In-Valve Positioning of Intracardiac Echocardiography Probe. *JACC Cardiovasc Interv*. 2022 May 9;15(9):992-995. doi: 10.1016/j.jcin.2022.01.287. Epub 2022 Apr 13. PMID: 35430173.
7. Simard T, Jung RG, Lehenbauer K, Piayda K, Pracoń R, Jackson GG, Flores-Umanzor E, Faroux L, Korsholm K, Chun JKR, Chen S, Maarse M, Montrella K, Chaker Z, Spoon JN, **Pastormerlo LE**, Meincke F, Sawant AC, Moldovan CM, Qintar M, Aktas MK, Branca L, Radinovic A, Ram P, El-Zein RS, Flautt T, Ding WY, Sayegh B, Benito-González T, Lee OH, Badejoko SO, Paitazoglou C, Karim N, Zaghloul AM, Agrawal H, Kaplan RM, Alli O, Ahmed A, Suradi HS, Knight BP, Alla VM, Panaich SS, Wong T, Bergmann MW, Chothia R, Kim JS, Pérez de Prado A, Bazaz R, Gupta D, Valderrabano M, Sanchez CE, El Chami MF, Mazzone P, Adamo M, Ling F, Wang DD, O'Neill W, Wojakowski W, Pershad A, Berti S, Spoon D, Kawsara A, Jabbour G, Boersma LVA, Schmidt B, Nielsen-Kudsk JE, Rodés-Cabau J, Freixa X, Ellis CR, Fauchier L, Demkow M, Sievert H, Main ML, Hibbert B, Holmes DR Jr, Alkhouli M. Predictors of Device-Related Thrombus Following Percutaneous Left Atrial Appendage Occlusion. *J Am Coll Cardiol*. 2021 Jul 27;78(4):297-313. doi: 10.1016/j.jacc.2021.04.098. PMID: 34294267.
8. Aimo A, Coceani MA, Ciardetti M, Teresi L, Pastormerlo LE, Palmieri C. Revascularization of coronary and left popliteal artery lesions from the same radial arterial access. *J Cardiovasc Med (Hagerstown)*. 2023 May 1;24(5):317-319. doi: 10.2459/JCM.0000000000001463.
9. Berti S, **Pastormerlo LE**, Korsholm K, Saw J, Alkhouli M, Costa MP, Odenstedt J, Packer EJ, Tondo C, Santoro G, Nielsen-Kudsk JE. Intracardiac echocardiography for guidance of transcatheter left atrial appendage occlusion: An expert consensus document. *Catheter Cardiovasc Interv*. 2021 Oct;98(4):815-825. doi: 10.1002/ccd.29791. Epub 2021 Jun 4. PMID: 34086394.
10. Chubuchny V, Pugliese NR, Taddei C, Poggianti E, Spini V, Barison A, Formichi B, Airò E, Bauleo C, Prediletto R, **Pastormerlo LE**, Coceani M, Ciardetti M, Petersen C, Pasanisi E, Lombardi C, Emdin M, Giannoni A. A novel echocardiographic method for estimation of pulmonary artery wedge pressure and pulmonary vascular resistance. *ESC Heart Fail*. 2021 Apr;8(2):1216-1229. doi: 10.1002/ehf2.13183. Epub 2021 Feb 10. PMID: 33566429; PMCID: PMC8006655.
11. Pucci A, Aimo A, Musetti V, Barison A, Vergaro G, Genovesi D, Giorgetti A, Masotti S, Arzilli C, Prontera C, **Pastormerlo LE**, Coceani MA, Ciardetti M, Martini N, Palmieri C, Passino C, Rapezzi C, Emdin M. Amyloid Deposits and Fibrosis on Left Ventricular Endomyocardial Biopsy Correlate With Extracellular Volume in Cardiac Amyloidosis. *J Am Heart Assoc*. 2021 Oct 19;10(20):e020358. doi: 10.1161/JAHA.120.020358. Epub 2021 Oct 8. PMID: 34622675; PMCID: PMC8751897.

12. Radico F, Di Castelnuovo A, Aimo A, Zimarino M, Knuuti J, Rossi S, **Pastormerlo LE**, Zyw L, Orsini E, Iacoviello L, Neglia D, Emdin M, de Gaetano G, De Caterina R. Factors for heterogeneous outcomes of angina and myocardial ischemia without obstructive coronary atherosclerosis. *J Intern Med*. 2022 Feb;291(2):197-206. doi: 10.1111/joim.13390. Epub 2021 Oct 6. PMID: 34487597.
13. **Pastormerlo LE**, Berti S. Uso dell'ecografia intracardiaca nell'interventistica strutturale [Intracardiac echocardiography guiding structural heart disease interventions]. *G Ital Cardiol (Rome)*. 2020 Apr;21(4 Suppl 2):29S-33S. Italian. doi: 10.1714/3336.33071. PMID: 32250367.
14. Parodi G, Sanna GD, Stolcova M, **Pastormerlo LE**, Forteleoni A, Maiani S, Koni E, Meucci F, Talanas G, Di Mario C, Berti S. Hemoglobin Trajectories and Blood Transfusions Associated With Percutaneous Left Atrial Appendage Occlusion. *JACC Cardiovasc Interv*. 2020 Feb 10;13(3):397-399. doi: 10.1016/j.jcin.2019.09.054. PMID: 32029258.
15. **Pastormerlo LE**, Burchielli S, Ciardetti M, Aquaro GD, Grigoratos C, Castiglione V, Pucci A, Franzini M, Giorgetti A, Marzullo P, Benelli E, Masotti S, Musetti V, Bernini F, Berti S, Passino C, Emdin M. Myocardial salvage is increased after sympathetic renal denervation in a pig model of acute infarction. *Clin Res Cardiol*. 2021 May;110(5):711-724. doi: 10.1007/s00392-020-01685-y. Epub 2020 Jun 8. PMID: 32514602.
16. Giannini F, Pagnesi M, Campo G, Donahue M, Ferri LA, Briguori C, Stefanini GG, Scardala R, Sardella G, De Rosa S, Figini F, Monello A, **Pastormerlo LE**, Testa L, Nicolino A, Ielasi A, Durante A, Leone A, Tzanis G, Mangieri A, Ciccarelli G, Briani M, Reimers B, Ceccacci A, Indolfi C, Sheiban I, Palmieri C, Bedogni F, Tespili M, Latib A, Gallo F, Colombo A. Italian Multicenter Registry of Bare Metal Stent Use in Modern Percutaneous Coronary Intervention Era (AMARCORD): A multicenter observational study. *Catheter Cardiovasc Interv*. 2021 Feb 15;97(3):411-420. doi: 10.1002/ccd.28798. Epub 2020 Mar 21. PMID: 32198845.
17. Ciardetti M, Coceani M, **Pastormerlo LE**, Berti S, Palmieri C. Let's go fishing: snaring a Reducer coronary sinus stent in the right atrium. *J Cardiovasc Med (Hagerstown)*. 2020 Jan;21(1):73-74. doi: 10.2459/JCM.0000000000000885. PMID: 31609852.
18. **Pastormerlo LE**, Jabri AA, Zezza L, Ubertini E, Nottoli J, Palmieri C, Berti S. Swelling neck: a potentially fatal complication of radial access treated by covered stent. *J Cardiovasc Med (Hagerstown)*. 2020 Apr;21(4):325-326. doi: 10.2459/JCM.0000000000000890. PMID: 31714329.
19. Montefusco A, De Filippo O, Gili S, Mancone M, Calcagno S, Cirillo P, Esposito G, Poli A, Ferrara E, Smolka G, Wanha W, Palmieri C, **Pastormerlo LE**, Baumbach A, Sganzerla P, Tamburino C, Bruno F, Secco GG, Nicolino A, Yew KL, di Palma G, Wojakowski W, Sardella G, Rinaldi M, Cortese B, D'Ascenzo F. Safety and effectiveness of the self-aPposing, bAlloon-delivered, siRolimus-eluting stent for the Treatment of the coronary Artery disease: SPARTA, a multicenter experience. *Coron Artery Dis*. 2020 Jan;31(1):27-34. doi: 10.1097/MCA.0000000000000790. PMID: 31658146.

20. Montefusco A, D'Ascenzo F, Gili S, Smolka G, Chieffo A, Baumbach A, Escaned J, Sganzerla P, Tomassini F, Secco GG, Ugo F, Tamburino C, Nicolino A, Mancone M, Poli A, Yew KL, Cirillo P, Wanha W, **Pastormerlo LE**, di Summa R, Sardella G, Colombo A, Gaita F, Cortese B. Self-expandable sirolimus-eluting stents compared to second-generation drug-eluting stents for the treatment of the left main: A propensity score analysis from the SPARTA and the FAILS-2 registries. *Catheter Cardiovasc Interv.* 2019 Feb 1;93(2):208-215. doi: 10.1002/ccd.27809. Epub 2018 Oct 8. PMID: 30298593.
21. Berti S, **Pastormerlo LE**, Celi S, Ravani M, Trianni G, Cerone E, Santoro G. First-in-Human Percutaneous Left Atrial Appendage Occlusion Procedure Guided by Real-Time 3-Dimensional Intracardiac Echocardiography. *JACC Cardiovasc Interv.* 2018 Nov 12;11(21):2228-2231. doi: 10.1016/j.jcin.2018.08.023. Epub 2018 Oct 17. PMID: 30343023.
22. **Pastormerlo LE**, Al Jabri A, Emdin M, Clemenza F. Behind enemy lines: How to enlarge heart transplant criteria. *Int J Cardiol.* 2019 Feb 15;277:104-105. doi: 10.1016/j.ijcard.2018.10.019. Epub 2018 Oct 6. PMID: 30309684.
23. **Pastormerlo LE**, Aimo A, Piepoli M, Emdin M. The bottleneck of cardiac rehabilitation for patients with coronary artery disease: How to overcome. *Eur J Prev Cardiol.* 2018 Aug;25(12):1239-1241. doi: 10.1177/2047487318785001. Epub 2018 Jul 4. PMID: 29972040.
24. Intra-Cardiac versus Transesophageal Echocardiographic Guidance for Left Atrial Appendage Occlusion: the LAAO Italian Multicenter Registry. Berti S, **Pastormerlo LE**, Santoro G, Brscic E, Montorfano M, Vignali L, Danna P, Tondo C, Rezzaghi M, D'Amico G, Stabile A, Saccà S, Patti G, Rapacciuolo A, Poli A, Golino P, Magnavacchi P, Meucci F, Pezzulich F, Stolcova M, Tarantini G. *JACC Interventions*, in press 2018
25. Natriuretic peptides. D'où venons-nous? Que sommes-nous? Où allons-nous? Emdin M, Aimo A, Vergaro G, **Pastormerlo LE**, Clerico A. *Int J Cardiol.* 2018 Mar 1;254:256-257. doi: 10.1016/j.ijcard.2017.12.028. Epub 2018 Jan 28.
26. 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, 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. *Eur J Heart Fail.* 2017. doi: 10.1002/ehf.989.
27. Celi S, Martini N, **Pastormerlo LE**, Positano V, Berti S. Multimodality imaging for interventional cardiology. *Curr Pharm Des.* 2017 Jul 4. doi: 10.2174/1381612823666170704171702. [Epub ahead of print]
28. Berti S, Varbella F, Marchese A, **Pastormerlo LE**, Musumeci G. Italy: coronary and structural heart interventions from 2010 to 2015. *EuroIntervention.* 2017 May 15;13(Z):Z37-Z41.

29. **Pastormerlo LE**, Maffei S, Latta DD, Chubuchny V, Susini C, Berti S, Prontera C, Storti S, Passino C, Pasanisi E, Emdin M, Chiappino D. N-terminal fragment of B-type natriuretic peptide predicts coexisting subclinical heart and vessel disease. *J Cardiovasc Med (Hagerstown)*. 2017;18:750-757.
30. 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, Scrutino D, Badagliacca R, Raimondo R, Emdin M, Magrì D, Correale M, Parati G, Caravita S, Spadafora E, Re F, Ciccoira M, Frigerio M, Bussotti M, Minà 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;19:904-914.
31. Berti S, **Pastormerlo LE**, Rezzaghi M, Trianni G, Paradossi U, Cerone E, Ravani M, De Caterina AR, Rizza A, Palmieri C. Left Atrial Appendage Occlusion in High Risk Patients with Non-Valvular Atrial Fibrillation. *Heart*. 2016 Dec 15;102(24):1969-1973
32. Emdin M, Mirizzi G, **Pastormerlo LE**, Poletti R, Giannelli E, Prontera C, Passino C, Vergaro G. The search for efficient diagnostic and prognostic biomarkers of heart failure. *Future Cardiol*. 2016 May;12(3):327-37.
33. **Pastormerlo LE**, Ciardetti M, Cocceani M, Trianni G, Ravani M, Vaghetti M, Rizza A, De Caterina A, Berti S, Palmieri C. Self-expanding stent for complex percutaneous coronary interventions: A real life experience. *Cardiovasc Revasc Med*. 2016 Apr-May;17(3):186-9.
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35. Aimo A, Borrelli C, Giannoni A, **Pastormerlo LE**, Barison A, Mirizzi G, Emdin M, Passino C. Cardioprotection by remote ischemic conditioning: Mechanisms and clinical evidences. *World J Cardiol* 2015; 7(10): 621-632.
36. **Pastormerlo LE**, Agazio A, Benelli E, Gabutti, Polett R, Prontera C, Clerico A, Emdin M, Passino C. Usefulness of High-Sensitive Troponin Elevation After Effort Stress to Unveil Vulnerable Myocardium in Patients with Heart Failure. *Am J Cardiol* 2015;116(4):567-72.

37. Ciardetti M, Coceani M, **Pastormerlo LE**, Fommei E, Ghione S, Passino C, Emdin M, Palmieri C, Berti S. Renal denervation in resistant arterial hypertension: Effects on neurohormonal activation and cardiac natriuretic peptides. *Int J Cardiol.* 2015;184:574-5.
38. 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: Fiorentini C, Apostolo A, Palermo P, Contini M, Bertella E, Mantegazza V, Pietrucci F, Ferraironi A, Casenghi M, Roselli T, Buono A, Calabrò R, Murge C, Santoro D, Campanale S, Caputo D, Bertipaglia D, Vaninetti R, Confalonieri M, Zambon E, Berton E, Torregiani C, Dei Cas L, Carubelli V, Binno S, Marchese G, Oliva F, **Pastormerlo LE**. 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.
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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; on behalf of the MECKI Score Research Group: Salvioni E, Giovannardi M, Veglia F, Mantegazza V, Bertella E, Giannuzzi P, Giordano A, Mezzani A, Pietrucci F, Malfatto G, Roselli T, Buono A, Calabro` R, Masarone D, De Maria R, Passantino A, Santoro D, Campanale S, Caputo D, Vaninetti R, Bertipaglia D, Confalonieri M, Berton E, Torregiani C, **Pastormerlo LE**, Dei Cas L, Carubelli V, Vassanelli C, Marchese G. 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(8):1046-55.

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EDUCATIONAL BACKGROUND:

Date: 1998 to 2003

Institution: High School Benedetto Cairoli Vigevano– classical studies (secondary school), 100/100 cum laude

Date: 2003 to 2009

Institution: Medical studies at University of Pisa, degree with 110/110 cum laude, thesis title “Vulnerabilità miocardica e bioumorale all'esercizio fisico nel paziente con insufficienza cardiaca. Effetti del training fisico aerobico.”

Date: 2003 to 2009

Institution: 6 years upgrade program at Scuola Superiore Sant’Anna, Pisa Medical science degree with 100/100 cum laude, thesis title “Diabete mellito ed insufficienza cardiaca”.

Date: February 2010

Institution: Exam for qualification as Medical Doctor , positive result: admitted to Ordine dei Medici Chirurghi Provincia di Pisa

Date: From 2010 until 18 May 2015

Institution: Fellowship in Cardiology and Cardiovascular Diseases at University of Florence Italy – 5 exams by year (30/30 cum laude each one). Final examination (18 May 2015) 70/70 cum laude), thesis title Neurohormonal activation in resistant arterial hypertension: influence of renal denervation

Date From November 2014 to January 2018

Institution: Scuola Superiore Sant’Anna, Pisa, Institute of Life Sciences

Main Activities: - **PhD program in translational medicine of Scuola Superiore Sant’Anna**

- - experimental protocol on induction of myocardial infarction in pigs to evaluate cardiac remodeling and metabolism in the translational research Laboratory of Medical Sciences. Performing of 40 experiments of myocardial infarction in pigs, followed in half of them from percutaneous renal denervation procedure.
- Thesis title: Renal sympathetic denervation for cardioprotection after acute myocardial infarction: a preclinical study. Final evaluation 100/100 cum laude.

Date: October 2018- October 2019

Institution: Scuola Superiore Sant'Anna

**MASTER UNIVERSITARIO di II LIVELLO “CARDIOLOGIA INTERVENTISTICA
CARDIOVASCOLARE E STRUTTURALE”**

COURSE AND ACTIVITIES

Date: 2000

Activity: Trinity College Exam on English Language

Date: 2003

Activity: First Certificate in English Exam, Cambridge University

Date: 2003

Activity: European Computer Driving Licence (ECDL), Pisa University

Date: 2008

Activity: Acute Cardiac Life Support (ACLS) accreditation, American Heart Association

Date: 2008

Activity: Basic Life Support and Defibrillation (BLS-D) accreditation, American Heart Association

Date: 2009

Activity: Cardiopulmonary stress test Interpretation course, Centro Cardiologico Monzino, Milano

Date: From July 2009 to December 2009

Activity: POR - Progetto formativo del tirocinante - Regione Toscana Scuola Superiore S.Anna/
Stage at Fondazione Toscana Gabriele Monasterio in Pisa

Date: 2011

Activity: European Society of Cardiology Accreditation in Transthoracic echocardiography - Paris

Date: 2012

Activity: European Society of Cardiology Accreditation in Transoesophageal echocardiography - Athens

Date: 2014

Activity: European Association of Percutaneous Coronary Intervention – European Society of Cardiology Fellows course on Coronary Interventions, Sophia Antipolis - France

AWARDS AND GRANTS

Date: May 2010

Award: First Edition of the “Mino Solimeo” Award with the research protocol: Evaluation of haemodynamic and neurohormonal response to exercise in diabetic cardiomyopathy”

Date: September 2012

Award: Travel grant award for European Society of Cardiology Congress, Munchen

Date: March 2015

Award: First Contact Initiative Grant of European Society of Cardiology, at Homburg University under the supervision of Professor Michael Boehm with the project: Renal sympathetic denervation for cardioprotection after acute myocardial infarction: a preclinical study.

Abstract and Poster as first author:

1. European Society of Cardiology Congress, 2017, Barcelona: Sympathetic renal denervation after acute myocardial infarction results in increased myocardial salvage in pigs. Abstract presentation
2. Transcatheter Cardiovascular Therapeutics (TCT) congress 2014, Washington: Renal denervation in hypertensive patients: effects on neurohormonal activation and cardiac natriuretic peptides. Abstract presentation
3. European Society of Cardiology (ESC) congress 2013, Amsterdam: N-terminal fragment of brain natriuretic peptide as a powerful and independent predictor of subclinical heart and vascular disease (stage B) in an asymptomatic population from the community screening. Abstract Presentation
4. ESC Heart Failure congress 2013, Lisbon: Prediction of ongoing myocardial damage by noradrenergic response and haemodynamic impairment during exercise in systolic heart failure. Non invasive estimation of Frank-Starling curve. Poster Presentation
5. ESC congress 2012, Munchen: a) N- terminal fragment of brain natriuretic peptide predicts vascular health and subclinical atherosclerosis: results from MEHLP study. Abstract Presentation. b) Glycometabolic imbalance is a main determinant of neurohormonal activation and cardiac mortality in mild systolic heart failure. Abstract Presentation. c) Subclinical coronary atherosclerosis across the peri-menopausal age: association between flogistic activation and coronary calcium score. Poster presentation
6. Italian Society of Cardiology SIC congress 2011, Rome: a) Hyperglycemia and insuline resistance predict neurohormonal activation and prognosis at early stage of chronic heart failure. Abstract Presentation. b) Aerobic training decreases cardiac vulnerability along with reduction of catecholaminergic response and haemodinamic overload during maximal effort. Abstract Presentation. c) Gammaglutamyl-transferase and high-sensitivity C-reactive protein independently predict coronary calcium score and echographic carotid intima-media thickness: an Italian population-based cohort-study. Abstract Presentation d) Has cardiopulmonary exercise test still prognostic value for systolic heart failure patients in the biomarkers era? Abstract Presentation
7. ESC 2011, Paris: a) Prognostic role of pVO₂ in 2011 in an unselected Italian population with cardiac disease. Poster presentation; b) Need for cardiac valvular surgery in 2011: preliminary results from a community screening of an Italian unselected population. Poster presentation; c) Gammaglutamyl-transferase and high-sensitivity C-reactive protein independently predict coronary calcium score and echographic carotid intima-media thickness: an Italian population-based cohort-study. Poster presentation

8. Heart failure 2011, Goteborg: a)Cardiac vulnerability decrease by reduction of catecholaminergic response and haemodynamic overload during maximal effort. The role of aerobic training. Poster presentation; b) Has cardiopulmonary exercise test prognostic implications in an unselected heart disease population? An Italian multi-centre study. Poster presentation; c)Does cardiopulmonary exercise test still hold prognostic value in the BNP era? Poster presentation.
9. ESC 2010, Stockholm: Diabetes is a predictor of effort tolerance and ventilatory efficiency in patients with moderate systolic dysfunction on beta-blocker therapy. Poster presentation
10. Heart Failure 2010, Berlin: a)Neurohormonal and prognostic weight of type 2 diabetes mellitus in chronic heart failure. Poster presentation; b)Prediction of ongoing myocardial damage by neurohormonal evaluation and non invasive estimation of Frank-Starling curve during effort stress in systolic heart failure. Poster presentation; c)Inflammatory activation during maximal physical effort predicts specific cardiomyocyte membrane damage in systolic heart failure. Poster presentation.
11. ESC 2009, Barcelona: a)Diabetes is a determinant of plasma B-type natriuretic peptide concentration and renin activity in patients with systolic heart failure. Poster presentation; b) Predictors of plasma rennin activity, a main prognostic determinant in systolic heart failure. Poster presentation.
12. Heart Failure 2009, Nice: a) Plasma B-type natriuretic peptide levels and renin activity are increased in diabetic patients with moderate systolic heart failure. Poster presentation; b) Low triiodothyronine predict impaired functional capacity in systolic heart failure patients.
13. ESC 2008, Munchen: Exertional periodic breathing is frequent in heart failure patients: correlation with clinical status and neuro-hormonal activation. Poster presentation
14. Heart Failure 2008, Milan: Exertional periodic breathing is frequent in heart failure patients: correlation with clinical status and neuro-hormonal activation. Poster presentation