



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s)

**Saima Mushtaq**

Address(es)

Telephone(s)

Fax(es)

E-mail(s)

Nationality

Date of birth

Gender

**Desired employment  
Occupational field**

**Cardiology**

### Dates

Occupation or position held

Name and address of employer

**September 2022-current**

Director of Cardiovascular CT unit in Centro Cardiologico Monzino, IRRCS, Milan Italy

Vice.Chairman of Italian Society of Cardiology (SIC)

From November 2023 Councilor of EACVI (European Society of Cardiovascular Imaging)

**April 2012-current**

Assistant

Centro Cardiologico Monzino, IRCCS

Imaging Cardiovascular Unit

University of Milan

Via C. Parea 4, 20138 Milan, Italy

Main activities and responsibilities

Cardiovascular CT Unit

Director: Dr. Daniele Andreini

Cardiac MRI Unit

Director: Dr. Gianluca Pontone

Echocardiography Unit

Director: Dr. M. Pepi

Heart Failure Unit

Director: Prof. PG Agostoni

### Dates

Occupation or position held

Name and type of organisation  
providing education and training

**2008 –March 2012**

Postgraduate in Cardiology

School of Cardiology

University of Milan, Italy

Director: Prof. M.D. Guazzi

Level in national or international  
classification

70/70 e lode

**Dates**

Title of qualification awarded

Name and type of organisation providing education and training

Level in national or international classification

**2001 – July 2007**

Bachelor of Medicine

University of Milan, Italy

110/110 lode

**Personal skills and competences**

Mother tongue(s)

Other language(s)

Self-assessment

*European level (\*)***English****Urdu****Italian**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user

(\*) [Common European Framework of Reference \(CEF\) level](#)

Organisational skills and competences

Computer skills and competences

Driving licence(s)

Skill in organizing teamwork

Competent with most Microsoft Office Package

Car (Type B)

**PUBBLICATIONS.****ORIGINAL PAPERS**

- 1) Daniele Andreini, Gianluca Pontone, Luca Dainese, Alberto Formenti, **Saima Mushtaq**, Antioco Cappai, Mauro Pepi, Giovanni Ballerini, Paolo Biglioli. Preoperative assessment of thymoma. J Thorac Imaging 2008
- 2) Cattadori G, Wasserman K, Meloni C, **Mushtaq S**, Contini M, Apostolo A, Andreini D, Magri D, Sciomer S, Veglia F, Berna G, Introcaso G, Palermo P, Fiorentini C, Agostoni PG. Alveolar membrane conductance decreases as BNP increases during exercise in heart failure. Rationale for BNP in the evaluation of dyspnea. J Cardiac Failure 2009 Mar;15(2):136-44.
- 3) Gianluca Pontone, Daniele Andreini, Antonio L. Bartorelli, Sarah Cortinovis, **Saima Mushtaq**, Erika Bertella, Andrea Annoni, Alberto Formenti, Enrica Nobili, Daniela Trabattoni, Piero Montorsi, Giovanni Ballerini, Piergiuseppe Agostoni, Mauro Pepi. Diagnostic Accuracy of Low-Dose Coronary CT Angiography: Comparison Between Prospective and Retrospective ECG Gating. J Am

- 4) Daniele Andreini, Gianluca Pontone, Antonio L. Bartorelli, Piergiuseppe Agostoni, **Mushtaq Saima**, Erika Bertella, Daniela Trabattoni, Gaia Cattadori, Sarah Cortinovis, Andrea Annoni, Alice Castelli, Giovanni Ballerini, Mauro Pepi. Sixty-four-slice Multidetector Computed Tomography: An Accurate Imaging Modality for the Evaluation of Coronary Arteries in Dilated Cardiomyopathy of Unknown Etiology. *Circulation: Cardiovascular Imaging* 2009
- 5) Daniele Andreini, Gianluca Pontone, Antonio L. Bartorelli, Daniela Trabattoni, **Saima Mushtaq**, Erika Bertella, Andrea Annoni, Alberto Formenti, Sarah Cortinovis, Piero Montorsi, Fabrizio Veglia, Giovanni Ballerini and Mauro Pepi. Feasibility and Diagnostic Accuracy of 64-slice Multidetector Computed Tomography Coronary Angiography for Evaluation of In-Stent Restenosis: A Comparison with Invasive Coronary Angiography and Intravascular Ultrasound. *Am J Cardiol* 2009
- 6) Gianluca Pontone, Daniele Andreini, Andrea Annoni, Alberto Formenti, **Saima Mushtaq**, Erika Bertella, Andrea Annoni, Alberto Formenti, Sarah Cortinovis, Giovanni Ballerini, Paolo Della Bella, Piergiuseppe Agostoni, and Mauro Pepi. Imaging of cardiac venous system in patients with dilated cardiomyopathy: the role of 64-slice computed tomography. *Int J Cardiol* 2009.
- 7) Pontone G, Bertella E, Andreini D, **Mushtaq S**, Pepi M. Role of the multidetector computed tomography for noninvasive evaluation of ischemic heart disease]. *Recenti Prog Med*. 2010 Dec;101(12):490-500. Review. Italian.
- 8) Andreini D, **Mushtaq S**, Pontone G, Cortinovis S, Annoni A, Formenti A, Agostoni P, Bartorelli AL, Fiorentini C, Ballerini G, Pepi M. Additional clinical role of 64-slice multidetector computed tomography in the evaluation of coronary artery variants and anomalies. *Int J Cardiol*. 2010 Nov 19;145(2):388-90. Epub 2010 Mar 12.
- 9) Andreini D, Pontone G, **Mushtaq S**, Pepi M, Bartorelli AL. Multidetector computed tomography coronary angiography for the assessment of coronary in-stent restenosis. *Am J Cardiol*. 2010 Mar 1;105(5):645-55. Review.
- 10) Andreini D, Pontone G, **Mushtaq S**, Pepi M, Bartorelli A. Anomalous origin of the left main coronary artery misdiagnosed by coronary angiography and correctly detected with multidetector computed tomography. *J Cardiovasc Med (Hagerstown)*. 2010 Nov;11(11):848-9.
- 11) Pontone G, Andreini D, Cortinovis S, **Mushtaq S**, Bertella E, Annoni A, Formenti A, Giraldi F, Bella PD, Ballerini G, Agostoni P, Pepi M. Imaging of cardiac venous system in patients with dilated cardiomyopathy by 64-slice computed tomography: comparison between non-ischemic and ischemic etiology. *Int J Cardiol*. 2010 Oct 8;144(2):340-3. Epub 2009 Mar 31.
- 12) Andreini D, Pontone G, **Mushtaq S**, Annoni A, Formenti A, Bertella E, Parolari A, Agostoni P, Bartorelli A, Ballerini G, Fiorentini C, Pepi M. Diagnostic performance of two types of low radiation exposure protocol for

- prospective ECG-triggering multidetector computed tomography angiography in assessment of coronary artery bypass graft. *Int J Cardiol.* 2010 Dec 28. [Epub ahead of print]
- 13) Andreini D, Pontone G, Bartorelli AL, Agostoni P, **Mushtaq S**, Antonioli L, Cortinovis S, Canestrari M, Annoni A, Ballerini G, Fiorentini C, Pepi M. Comparison of the diagnostic performance of 64-slice computed tomography coronary angiography in diabetic and non-diabetic patients with suspected coronary artery disease. *Cardiovasc Diabetol.* 2010 Nov 29;9:80.
  - 14) Laveneziana P, Agostoni P, Mignatti A, **Mushtaq S**, Colombo P, Sims D, Uriel N, Jorde UP. Effect of acute  $\beta$ -blocker withholding on ventilatory efficiency in patients with advanced chronic heart failure. *J Card Fail.* 2010 Jul;16(7):548-55. Epub 2010 May 23.
  - 15) Andreini D, Pontone G, Formenti A, Agnifili M, **Mushtaq S**, Pepi M. Complementary role of cardiac computed tomography and Doppler-echocardiography in the evaluation of an uncommon case of giant pseudoaneurysm of ascending aorta complicated by fistula to the pulmonary artery. *J Cardiovasc Med (Hagerstown).* 2011 Mar;12(3):173-5.
  - 16) Andreini D, Pontone G, Bartorelli AL, **Mushtaq S**, Trabattoni D, Bertella E, Cortinovis S, Annoni A, Formenti A, Ballerini G, Agostoni P, Fiorentini C, Pepi M. High diagnostic accuracy of prospective ECG-gating 64-slice computed tomography coronary angiography for the detection of in-stent restenosis: in-stent restenosis assessment by low-dose MDCT. *Eur Radiol.* 2011 Jul;21(7):1430-
  - 17) Pontone G, Andreini D, Bartorelli AL, Bertella E, **Mushtaq S**, Cortinovis S, Chiappa L, Annoni A, Formenti A, Trabattoni D, Montorsi P, Ballerini G, Fiorentini C, Pepi M. Comparison between low-dose multidetector computed coronary angiography and myocardial perfusion imaging test in patients with intermediate pre-test likelihood of coronary artery disease. *Int J Cardiol.* 2011 Mar 17;147(3):454-7.
  - 18) Pontone G, Andreini D, Bartorelli AL, Annoni A, **Mushtaq S**, Bertella E, Formenti A, Cortinovis S, Alamanni F, Fusari M, Bona V, Tamborini G, Muratori M, Ballerini G, Fiorentini C, Biglioli P, Pepi M. Feasibility and accuracy of a comprehensive multidetector computed tomography acquisition for patients referred for balloon-expandable transcatheter aortic valve implantation. *Am Heart J.* 2011 Jun;161(6):1106-13.
  - 19) Pontone G, Andreini D, Bartorelli AL, Bertella E, **Mushtaq S**, Annoni A, Formenti A, Chiappa L, Cortinovis S, Baggiano A, Conte E, Bovis F, Veglia F, Foti C, Ballerini G, Fiorentini C, Pepi M. Radiation dose and diagnostic accuracy of multidetector computed tomography for the detection of significant coronary artery stenoses A meta-analysis. *Int J Cardiol.* 2011 Oct 4. [Epub ahead of print]
  - 20) Andreini D, **Mushtaq S**, Pontone G, Conte E, Pepi M. Multidetector computed tomography detection of a very unusual double coronary

fistula from left anterior descending coronary artery to pulmonary artery and descending aorta. *Eur J Echocardiogr.* 2011

- 21) Andreini D, Pontone G, Ballerini G, **Mushtaq S**, Pepi M. An unusual case of coronary fistula diagnosed by multidetector computed tomography. *J Cardiovasc Med (Hagerstown).* 2012 Feb;13(2):141-2.
- 22) Maffessanti F, Gripari P, Pontone G, Andreini D, Bertella E, **Mushtaq S**, Tamborini G, Fusini L, Pepi M, Caiani EG. *Three-dimensional dynamic assessment of tricuspid and mitral annuli using cardiovascular magnetic resonance.* *Eur Heart J Cardiovasc Imaging.* 2013 Jan 22.
- 23) Andreini D, Pontone G, **Mushtaq S**, Bartorelli AL, Pepi M. *Reply.* *Radiology* 2013. In press.
- 24). D Andreini, G Pontone, **S Mushtaq**, M Pepi, J Bogaert, PG Masci. *Microvascular Obstruction Complicating Acute Right Ventricular Myocardial Infarction.* *J Cardiovasc Med (Hagerstown)* 2013 in press.
- 25) D Andreini, G Pontone, **S Mushtaq**, E Bertella, E Conte, A Baggiano, F Veglia, P Agostoni, A Annoni, A Formenti, P Montorsi, G Ballerini, AL Bartorelli, C Fiorentini, M Pepi. *Prognostic Value of Multidetector Computed Tomography Coronary Angiography in Diabetes: Excellent Long-term Prognosis in Patients with Normal Coronary Arteries.* *Diabetes Care* 2013, in press.
- 26) Masci PG, Andreini D, Francone M, Bertella E, De Luca L, Cocceani M, **Mushtaq S**, Mariani M, Carbone I, Pontone G, Agati L, Bogaert J, Lombardi M. *Prodromal angina is associated with myocardial salvage in acute ST-segment elevation myocardial infarction.* *Eur Heart J Cardiovasc Imaging.* 2013 Jun 21
- 27) Pontone G, Andreini D, Bartorelli AL, Bertella E, Cortinovis S, **Mushtaq S**, Foti C, Annoni A, Formenti A, Baggiano A, Conte E, Bovis F, Veglia F, Ballerini G, Fiorentini C, Agostoni P, Pepi M. *A long-term prognostic value of CT angiography and exercise ECG in patients with suspected CAD.* *JACC Cardiovasc Imaging.* 2013 Jun;6(6):641-50.
- 28) Casella M, Dello Russo A, Fassini G, Andreini D, De Iulius P, **Mushtaq S**, Bartoletti S, Riva S, Tondo C. *Manifold benefits of choosing a minimally fluoroscopic catheter ablation approach.* *World J Cardiol.* 2013 Feb

26;5(2):8-11.

- 29) Pontone G, Andreini D, Bartorelli AL, Bertella E, **Mushtaq S**, Gripari P, Loguercio M, Cortinovis S, Baggiano A, Conte E, Beltrama V, Annoni A, Formenti A, Tamborini G, Muratori M, Guaricci A, Alamanni F, Ballerini G, Pepi M. *Comparison of Accuracy of Aortic Root Annulus Assessment With Cardiac Magnetic Resonance Versus Echocardiography and Multidetector Computed Tomography in Patients Referred for Transcatheter Aortic Valve Implantation*. Am J Cardiol. 2013 Dec 1;112(11):1790-9
- 30) Bertella E, **Mushtaq S**, Andreini D, Pontone G. *Role of multimodality imaging in patients undergoing transcatheter aortic valve implantation*. Recenti Prog Med. 2013 Sep;104(9):498-505.
- 31) Pontone G, Andreini D, Bertella E, Petullà M, Russo E, Innocenti E, **Mushtaq S**, Gripari P, Loguercio M, Segurini C, Baggiano A, Conte E, Beltrama V, Annoni A, Formenti A, Guaricci AI, Casella M, Fassini G, Giovannardi M, Veglia F, Tondo C, Pepi M. *Comparison of cardiac computed tomography versus cardiac magnetic resonance for characterization of left atrium anatomy before radiofrequency catheter ablation of atrial fibrillation*. Int J Cardiol. 2014 Nov 8;179C:114-121
- 32) Andreini D, Pontone G, **Mushtaq S**, Bartorelli AL, Ballerini G, Bertella E, Segurini C, Conte E, Annoni A, Baggiano A, Formenti A, Fusini L, Tamborini G, Alamanni F, Fiorentini C, Pepi M. *Diagnostic accuracy of multidetector computed tomography coronary angiography in 325 consecutive patients referred for transcatheter aortic valve replacement*. Am Heart J. 2014 Sep;168(3):332-9
- 33) **Mushtaq S**, Andreini D, Pontone G, Bertella E, Bartorelli AL, Conte E, Baggiano A, Annoni A, Formenti A, Trabattoni D, Veglia F, Alamanni F, Fiorentini C, Pepi M. *Prognostic value of coronary CTA in coronary bypass patients: a long-term follow-up study*. JACC Cardiovasc Imaging. 2014 Jun;7(6):580-9
- 34) Masci PG, Doulaptsis C, Bertella E, Del Torto A, Symons R, Pontone G, Barison A, Droigné W, Andreini D, Lorenzoni V, Gripari P, **Mushtaq S**, Emdin M, Bogaert J, Lombardi M. *Incremental prognostic value of myocardial fibrosis in patients with non-ischemic cardiomyopathy without congestive heart failure*. Circ Heart Fail. 2014 May;7(3):448-56
- 35) Andreini D, Pontone G, **Mushtaq S**, Bartorelli AL, Conte E, Bertella E, Baggiano A, Annoni A, Formenti A, Ballerini G, Agostoni P, Fiorentini C, Pepi M. *Coronary stent evaluation with coronary computed tomographic angiography: comparison between low-osmolar, high-iodine concentration iomeprol-400 and iso-osmolar, lower-iodine concentration iodixanol-320*. J Cardiovasc Comput Tomogr. 2014 Jan-Feb;8(1):44-51
- 36) Pontone G, Bertella E, **Mushtaq S**, Loguercio M, Cortinovis S, Baggiano A, Conte E, Annoni A, Formenti A, Beltrama V, Guaricci AI, Andreini D. *Coronary artery disease: diagnostic accuracy of CT coronary*

*angiography--a comparison of high and standard spatial resolution scanning*. Radiology. 2014 Jun;271(3):688-94

- 37) Andreini D, Pontone G, **Mushtaq S**, Bartorelli A, Pepi M. *Intra-cycle motion correction in coronary CT angiography*. Curr Cardiovasc Imaging Rep 2014. 7:9280
- 38) Daniele Andreini, Gianluca Pontone, **Saima Mushtaq**, Erika Bertella, Edoardo Conte, Chiara Segurini, Marta Giovannardi, Andrea Baggiano, Andrea Annoni, Alberto Formenti, Maria Petullà, Virginia Beltrama, Valentina Volpato, Antonio L. Bartorelli, Daniela Trabattoni, Cesare Fiorentini, Mauro Pepi. *Diagnostic Accuracy of Rapid Kilovolt Peak-Switching Dual-Energy CT Coronary Angiography in Patients with High Calcium Score*. JACC Cardiovasc Imaging 2015. Mar 12.
- 39) **Saima Mushtaq**, Pedro De Araujo Gonçalves, Hector M. Garcia-Garcia, Gianluca Pontone, Antonio L. Bartorelli, Erika Bertella, Carlos M. Campos, Mauro Pepi, Patrick W. Serruys, Daniele Andreini. *Long-term prognostic impact of coronary atherosclerotic burden: validation of the CT-Leaman Score*. Circulation Cardiovasc imaging. 2015 Feb;8(2):e002332.
- 40) Andreini D, Pontone G, **Mushtaq S**, Bertella E, Conte E, Segurini C, Baggiano A, Bartorelli AL, Annoni A, Formenti A, Petullà M, Beltrama V, Fiorentini C, Pepi M. *Low-dose CT coronary angiography with a novel IntraCycle motion-correction algorithm in patients with high heart rate or heart rate variability*. Eur Heart J Cardiovasc Imaging. 2015 Mar 9.
- 41) Pontone G, Andreini D, Baggiano A, Bertella E, **Mushtaq S**, Conte E, Beltrama V, Guaricci AI, Pepi M. *Functional relevance of coronary artery disease by cardiac magnetic resonance and cardiac computed tomography: myocardial perfusion and fractional flow reserve*. Biomed Res Int. 2015;2015:297696.
- 42) A.D. Annoni, D. Andreini, G. Pontone, A. Formenti, M. Petulla`, E. Consiglio, E. Nobili, A. Baggiano, E.Conte, **S. Mushtaq**, E. Bertella, F. Billi, A.L. Bartorelli, P. Montorsi and M. Pepi. *Ultra-low-dose CT for left atrium and pulmonary veins imaging using new model-based iterative reconstruction algorithm*. European Heart Journal - Cardiovascular Imaging. Advance Access published April 24, 2015 IF 2014: 3.7. Original article.
- 43) Gianluca Pontone, Daniele Andreini, Erika Bertella, Andrea Baggiano, **Saima Mushtaq**, Monica Loguercio, Chiara Segurini, Edoardo Conte, Virginia Beltrama, Andrea Annoni, Alberto Formenti, Maria Petullà, Andrea I. Guaricci, Piero Montorsi, Daniela Trabattoni, Antonio L. Bartorelli, Mauro Pepi, MD. *Impact of intra-cycle motion correction algorithm on overall evaluability and diagnostic accuracy of computed tomography coronary angiography*. European Radiology 2015. Eur Radiol. 2015 May 9. IF 2014: 4.338. Original article.
- 44) Pontone G, Andreini D, Bertella E, Loguercio M, Guglielmo M, Baggiano

- A, Aquaro GD, **Mushtaq S**, Salerni S, Gripari P, Rossi C, Segurini C, Conte E, Beltrama V, Giovannardi M, Veglia F, Guaricci AI, Bartorelli AL, Agostoni P, Pepi M, Masci PG. *Prognostic value of dipyridamole stress cardiac magnetic resonance in patients with known or suspected coronary artery disease: a mid-term follow-up study*. Eur Radiol. 2015 Oct 29.
- 45) Saima Mushtaq, Daniele Andreini, Stefania Farina, Elisabetta Salvioni, Gianluca Pontone, Susanna Sciomer, Valentina Volpato and Piergiuseppe Agostoni. Levosimendan improves exercise performance in patients with advanced chronic heart failure. ESC Heart Failure 2015. 2: 133–141. Published online in Wiley Online Library (wileyonlinelibrary.com) DOI: 10.1002/ehf2.12047
- 46) Pontone G, Andreini D, Guaricci AI, Guglielmo M, **Mushtaq S**, Baggiano A, Beltrama V, Trabattoni D, Ferrari C, Calligaris G, Teruzzi G, Fabbicchi F, Lualdi A, Montorsi P, Bartorelli AL, Pepi M. Rationale and design of the PERFECTION (comparison between stress cardiac computed tomography PERfusion versus Fractional flow rEserve measured by Computed Tomography angiography In the evaluation of suspected cOroNary artery disease) prospective study. J Cardiovasc Comput Tomogr. 2016 Mar 23. pii: S1934-5925(16)30040-5. doi: 10.1016/j.jcct.2016.03.004. [Epub ahead of print]
- 47) Andreini D, **Mushtaq S**, Conte E, Segurini C, Guglielmo M, Petullà M, Volpato V, Annoni A, Baggiano A, Formenti A, Bartorelli AL, Fiorentini C, Pepi M. Coronary CT angiography with 80 kV tube voltage and low iodine concentration contrast agent in patients with low body weight. J Cardiovasc Comput Tomogr. 2016 Jun 15. pii: S1934-5925(16)30113-7. doi: 10.1016/j.jcct.2016.06.003. [Epub ahead of print]
- 48) Guaricci AI, Pontone G, Brunetti ND, De Rosa F, Montrone D, Guglielmo M, **Mushtaq S**, Fusini L, Maffei E, Cademartiri F, Macarini L, Andreini D, Di Biase M, Bartorelli AL, Pepi M. The presence of remodeled and mixed atherosclerotic plaques at coronary ct angiography predicts major cardiac adverse events - The CAFÉ-PIE Study. Int J Cardiol. 2016 Jul 15;215:325-31. doi: 10.1016/j.ijcard.2016.04.129. Epub 2016 Apr 18.
- 49) Pontone G, Andreini D, Bertella E, Loguercio M, Guglielmo M, Baggiano A, Aquaro GD, **Mushtaq S**, Salerni S, Gripari P, Rossi C, Segurini C, Conte E, Beltrama V, Giovannardi M, Veglia F, Guaricci AI, Bartorelli AL, Agostoni P, Pepi M, Masci PG. Prognostic value of dipyridamole stress cardiac magnetic resonance in patients with known or suspected coronary artery disease: a mid-term follow-up study. Eur Radiol. 2016 Jul;26(7):2155-65. doi: 10.1007/s00330-015-4064-x. Epub 2015 Oct 29.
- 50) Conte E, Annoni A, Pontone G, **Mushtaq S**, Guglielmo M, Baggiano A, Volpato V, Agalbato C, Bonomi A, Veglia F, Formenti A, Fiorentini C, Bartorelli AL, Pepi M, Andreini D. *Evaluation of coronary plaque characteristics with coronary computed tomography angiography in patients with non-obstructive coronary artery disease: a long-term follow-up study*. Eur Heart J Cardiovasc Imaging. 2016 Sep 27.



- 51) Daniele Andreini, Gianluca Pontone, Jan Bogaert, Alberto Roghi, Andrea Barison, Juerg Schwitter, **Saima Mushtaq**, Georgios Vovas, Paola Sormani, Giovanni D. Aquaro, Pierre Monney, Chiara Segurini, Marco Guglielmo, Edoardo Conte, Laura Fusini, Antonio Dello Russo, Massimo Lombardi, Paola Gripari, Andrea Baggiano, Cesare Fiorentini, Federico Lombardi, Antonio L. Bartorelli, Mauro Pepi and Pier Giorgio Masci. *Long-term Prognostic Value of Cardiac Magnetic Resonance in Left Ventricle Non-Compaction: A Prospective Multicenter Study*. J Am Coll Cardiol. 2016 Nov 15;68(20):2166-2181.
- 52) Pontone G, Guaricci AI, Andreini D, Solbiati A, Guglielmo M, **Mushtaq S**, Baggiano A, Beltrama V, Fusini L, Rota C, Segurini C, Conte E, Gripari P, Dello Russo A, Moltrasio M, Tundo F, Lombardi F, Muscogiuri G, Lorenzoni V, Tondo C, Agostoni P, Bartorelli AL, Pepi M. *Prognostic Benefit of Cardiac Magnetic Resonance Over Transthoracic Echocardiography for the Assessment of Ischemic and Nonischemic Dilated Cardiomyopathy Patients Referred for the Evaluation of Primary Prevention Implantable Cardioverter-Defibrillator*. Therapy. Circ Cardiovasc Imaging. 2016 Oct;9(10).
- 53) Daniele Andreini, Gianluca Pontone, **Saima Mushtaq**, Manuela Muratori, Marco Guglielmo, Patrizia Carità, Mauro Pepi. *Ebstein's Anomaly and Left Ventricular Non Compaction Cardiomyopathy: A Not So Unusual Association*. International Cardiovascular Forum Journal 8 (2016). DOI: 10.17987/icfj.v8i0.288
- 54) Guaricci AI, Pontone G, Fusini L, De Luca M, Cafarelli FP, Guglielmo M, Baggiano A, Beltrama V, Muscogiuri G, **Mushtaq S**, Conte E, Guglielmi G, Andreini D, Brunetti ND, Di Biase M, Bartorelli AL, Pepi M. *Additional value of inflammatory biomarkers and carotid artery disease in prediction of significant coronary artery disease as assessed by coronary computed tomography angiography*. Eur Heart J Cardiovasc Imaging. 2016 Oct 14
- 55) Gianluca Pontone, Daniele Andreini, Andrea I. Guaricci, Cristina Rota, Marco Guglielmo, **Saima Mushtaq**, Andrea Baggiano, Virginia Beltrama, Laura Fusini, Anna Solbiati, Chiara Segurini, Edoardo Conte, Paola Gripari, Andrea Annoni, Alberto Formenti, Maria Petulla', Federico Lombardi, Giuseppe Muscogiuri, Antonio L. Bartorelli, Mauro Pepi. *The STRATEGY Study (Stress Cardiac Magnetic Resonance Versus Computed Tomography Coronary Angiography for the Management of Symptomatic Revascularized Patients) Resources and Outcomes Impact*. Circ Cardiovasc Imaging. 2016;9:e005171. DOI: 10.116
- 56) Andreini D, Pontone G, **Mushtaq S**, Gransar H, Conte E, Bartorelli AL, Pepi M, Opolski MP, Ó Hartaigh B, Berman DS, Budoff MJ, Achenbach S, Al-Mallah M, Cademartiri F, Callister TQ, Chang HJ, Chinnaiyan K, Chow BJ, Cury R, Delago A, Hadamitzky M, Hausleiter J, Feuchtner G, Kim YJ, Kaufmann PA, Leipsic J, Lin FY, Maffei E, Raff G, Shaw LJ, Villines TC, Dunning A, Marques H, Rubinshtein R, Hindoyan N, Gomez M, Min JK. *Long-term prognostic impact of CT-Leaman score in patients with non-*

*obstructive CAD: Results from the COronary CT Angiography Evaluation For Clinical Outcomes InteRnational Multicenter (CONFIRM) study.* Int J Cardiol. 2016 Dec 28. pii: S0167-5273(16)32116-7

- 57) Pontone G, Muscogiuri G, Andreini D, Guaricci AI, Guglielmo M, Mushtaq S, Baggiano A, Conte E, Beltrama V, Annoni A, Formenti A, Mancini E, Rabbat MG, Pepi M. The New Frontier of Cardiac Computed Tomography Angiography: Fractional Flow Reserve and Stress Myocardial Perfusion. Curr Treat Options Cardiovasc Med. 2016 Dec;18(12):74. Review.
- 58) Pontone G, Andreini D, Petulla M, Annoni A, Guaricci AI, Innocenti E, Russo E, Guglielmo M, Mushtaq S, Baggiano A, Beltrama V, Fusini L, Segurini C, Conte E, Formenti A, Fassini G, Riva S, Tondo C, Agostoni P, Bartorelli AL, Pepi M. Left atrium and pulmonary vein imaging using sub-millisivert cardiac computed tomography: Impact on radiofrequency catheter ablation cumulative radiation exposure and outcome in atrial fibrillation patients. Int J Cardiol. 2017 Feb 1;228:805-811
- 59) Andreini D, Pontone G, **Mushtaq S**, Conte E, Perchinunno M, Guglielmo M, Volpato V, Annoni A, Baggiano A, Formenti A, Mancini ME, Beltrama V, Ditali V, Campari A, Fiorentini C, Bartorelli AL, Pepi M. Atrial Fibrillation: Diagnostic Accuracy of Coronary CT Angiography Performed with a Whole-Heart 230-µm Spatial Resolution CT Scanner. Radiology. 2017 Apr 26:161779. doi: 10.1148/radiol.2017161779. [Epub ahead of print]
- 60) Andreini D, Mushtaq S, Min JK, Int J Cardiol. 2017 Sep 1;242:16. doi: 10.1016/j.ijcard.2017.04.009. No abstract available.
- 61) Pontone G, Guaricci AI, Andreini D, Ferro G, Guglielmo M, Baggiano A, Fusini L, Muscogiuri G, Lorenzoni V, **Mushtaq S**, Conte E, Annoni A, Formenti A, Mancini ME, Carità P, Verdecchia M, Pica S, Fazzari F, Cosentino N, Marenzi G, Rabbat MG, Agostoni P, Bartorelli AL, Pepi M, Masci PG. Prognostic Stratification of Patients With ST-Segment-Elevation Myocardial Infarction (PROSPECT): A Cardiac Magnetic Resonance Study. Circ Cardiovasc Imaging. 2017 Nov;10(11).
- 62) Andreini D, Conte E, **Mushtaq S**. Cardiac-CT in 2017: Over the coronary artery assessment. Int J Cardiol. 2017 Dec 15;249:497-499
- 63) Symons R, Pontone G, Schwitter J, Francone M, Iglesias JF, Barison A, Zaleski J, de Luca L, Degrauwe S, Claus P, Guglielmo M, Nessler J, Carbone I, Ferro G, Durak M, Magistrelli P, Lo Presti A, Aquaro GD, Eeckhout E, Roguelov C, Andreini D, Vogt P, Guaricci AI, **Mushtaq S**, Lorenzoni V, Muller O, Desmet W, Agati L, Janssens S, Bogaert J, Masci PG. Long-Term Incremental Prognostic Value of Cardiovascular Magnetic Resonance After ST-Segment Elevation Myocardial Infarction: A Study of the Collaborative Registry on CMR in STEMI. JACC Cardiovasc Imaging. 2017 Aug 11.

- 64) .Annoni AD, Mancini ME, Andreini D, Formenti A, **Mushtaq S**, Nobili E, Guglielmo M, Baggiano A, Conte E, Pepi M. Overall evaluability of low dose protocol for computed tomography angiography of thoracic aorta using 80 kV and iterative reconstruction algorithm using different concentration contrast media. *J Med Imaging Radiat Oncol*. 2017 Oct;61(5):614-621. doi: 10.1111/1754-9485.12608. Epub 2017 Mar 27.
- 65) Andreini D, **Mushtaq S**, Pontone G, Conte E, Sonck J, Collet C, Guglielmo M, Baggiano A, Trabattoni D, Galli S, Montorsi P, Ferrari C, Fabbicchi F, De Martini S, Annoni A, Mancini ME, Formenti A, Magatelli M, Resta M, Consiglio E, Muscogiuri G, Fiorentini C, Bartorelli AL, Pepi M. Rationale and design of advantage (additional diagnostic value of CT perfusion over coronary CT angiography in stented patients with suspected in-stent restenosis or coronary artery disease progression) prospective study. *J Cardiovasc Comput Tomogr*. 2018 Jun 18. pii: S1934-5925(18)30207-7. doi: 10.1016/j.jcct.2018.06.003. [Epub ahead of print]
- 66) Pontone G, Andreini D, Guaricci AI, Guglielmo M, Baggiano A, Muscogiuri G, Fusini L, Fazzari F, Berzovini C, Pasquini A, **Mushtaq S**, Conte E, Cosentino N, Rabbat MG, Marenzi G, Bartorelli AL, Pepi M, Tremoli E, Banfi C. Association Between Haptoglobin Phenotype and Microvascular Obstruction in Patients With ST-Segment Elevation Myocardial Infarction: A Cardiac Magnetic Resonance Study. *JACC Cardiovasc Imaging*. 2018 Apr 13. pii: S1936-878X(18)30276-6. doi: 10.1016/j.jcmg.2018.03.004
- 67) Andreini D, Lin FY, Rizvi A, Cho I, Heo R, Pontone G, Bartorelli AL, Mushtaq S, Villines TC, Carrascosa P, Choi BW, Bloom S, Wei H, Xing Y, Gebow D, Gransar H, Chang HJ, Leipsic J, Min JK. Diagnostic Performance of a Novel Coronary CT Angiography Algorithm: Prospective Multicenter Validation of an Intracycle CT Motion Correction Algorithm for Diagnostic Accuracy. *AJR Am J Roentgenol*. 2018 Jun;210(6):1208-1215. doi: 10.2214/AJR.17.18670. Epub 2018 Apr 18.
- 68) Andreini D, Conte E, **Mushtaq S**. Cardiac hybrid imaging for the management of patients with known or suspected coronary artery disease. *Int J Cardiol*. 2018 Jun 15;261:236-238. doi: 10.1016/j.ijcard.2018.03.023. No abstract available.
- 69) Guaricci AI, Lorenzoni V, Guglielmo M, Mushtaq S, Muscogiuri G, Cademartiri F, Rabbat M, Andreini D, Serviddio G, Gaibazzi N, Pepi M, Pontone G. Prognostic relevance of subclinical coronary and carotid atherosclerosis in a diabetic and nondiabetic asymptomatic population. *Clin Cardiol*. 2018 Jun;41(6):769-777. doi: 10.1002/clc.22952
- 70) Pontone G, Muscogiuri G, Andreini D, Guaricci AI, Guglielmo M, Baggiano A, Fazzari F, Mushtaq S, Conte E, Annoni A, Formenti A, Mancini E, Verdecchia M, Campari A, Martini C, Gatti M, Fusini L, Bonfanti L, Consiglio E, Rabbat MG, Bartorelli AL, Pepi M. Impact of a New Adaptive Statistical Iterative. Reconstruction (ASIR)-V Algorithm on Image Quality in Coronary Computed Tomography Angiography. *Acad Radiol*. 2018 Mar 27. pii: S1076-6332(18)30094-1. doi: 10.1016/j.acra.2018.02.009. [Epub ahead of print]
- 71) Andreini D, **Mushtaq S**, Pontone G, Conte E, Guglielmo M, Annoni A, Baggiano A, Formenti A, Ditali V, Mancini ME, Zanchi S, Melotti E, Trabattoni D, Montorsi P, Ravagnani PM, Fiorentini C, Bartorelli AL, Pepi

- M. Diagnostic performance of coronary CT angiography carried out with a novel whole-heart coverage high-definition CT scanner in patients with high heart rate. *Int J Cardiol.* 2018 Apr 15;257:325-331. doi: 10.1016/j.ijcard.2017.10.084.
- 72) Pontone G, Andreini D, Guaricci AI, Baggiano A, Fazzari F, Guglielmo M, Muscogiuri G, Berzovini CM, Pasquini A, **Mushtaq S**, Conte E, Calligaris G, De Martini S, Ferrari C, Galli S, Grancini L, Ravagnani P, Teruzzi G, Trabattoni D, Fabbicocchi F, Lualdi A, Montorsi P, Rabbat MG, Bartorelli AL, Pepi M. Incremental Diagnostic Value of Stress Computed Tomography Myocardial Perfusion With Whole-Heart Coverage CT Scanner in Intermediate- to High-Risk Symptomatic Patients Suspected of Coronary Artery Disease. *JACC Cardiovasc Imaging.* 2018 Feb 9. pii: S1936-878X(17)31149-X. doi: 10.1016/j.jcmg.2017.10.025. [PMID: 29454774]
- 73) Pontone G, Muscogiuri G, Baggiano A, Andreini D, Guaricci AI, Guglielmo M, Fazzari F, **Mushtaq S**, Conte E, Annoni A, Formenti A, Mancini E, Verdecchia M, Fusini L, Bonfanti L, Consiglio E, Rabbat MG, Bartorelli AL, Pepi M. Image Quality, Overall Evaluability, and Effective Radiation Dose of Coronary Computed Tomography Angiography With Prospective Electrocardiographic Triggering Plus Intracycle Motion Correction Algorithm in Patients With a Heart Rate Over 65 Beats Per Minute. *J Thorac Imaging.* 2018 Jul;33(4):225-231. doi: 10.1097/RTI.0000000000000320.
- 74) Annoni AD, Andreini D, Pontone G, Mancini ME, Formenti A, **Mushtaq S**, Baggiano A, Conte E, Guglielmo M, Muscogiuri G, Muratori M, Fusini L, Trabattoni D, Teruzzi G, Coutinho Santos AI, Agrifoglio M, Pepi M. CT angiography prior to TAVI procedure using third-generation scanner with wide volume coverage: feasibility, renal safety and diagnostic accuracy for coronary tree. *Br J Radiol.* 2018 Jul 24:20180196. doi: 10.1259/bjr.20180196. [Epub ahead of print]
- 75) Andreini D, Pontone G, **Mushtaq S**, Mancini ME, Conte E, Guglielmo M, Volpato V, Annoni A, Baggiano A, Formenti A, Ditali V, Perchinunno M, Fiorentini C, Bartorelli AL, Pepi M. Image quality and radiation dose of coronary CT angiography performed with whole-heart coverage CT scanner with intra-cycle motion correction algorithm in patients with atrial fibrillation. *Eur Radiol.* 2018 Apr;28(4):1383-1392. doi: 10.1007/s00330-017-5131-2. Epub 2017 Nov 21.
- 76) Pontone G, Scafuri S, Mancini ME, Agalbato C, Guglielmo M, Baggiano A, Muscogiuri G, Fusini L, Andreini D, Mushtaq S, Conte E, Annoni A, Formenti A, Gennari AG, Guaricci AI, Rabbat MR, Pompilio G, Pepi M, Rossi A. Role of computed tomography in COVID-19. *J Cardiovasc Comput Tomogr.* 2021 Jan-Feb;15(1):27-36. doi: 10.1016/j.jcct.2020.08.013. Epub 2020 Sep 4. PMID: 32952101; PMCID: PMC7473149.
- 77) Serruys PW, Hara H, Garg S, Kawashima H, Nørgaard BL, Dweck MR, Bax JJ, Knuuti J, Nieman K, Leipsic JA, Mushtaq S, Andreini D, Onuma Y. Coronary Computed Tomographic Angiography for Complete Assessment of Coronary Artery Disease: JACC State-of-the-Art Review. *J*

Am Coll Cardiol. 2021 Aug 17;78(7):713-736. doi:  
10.1016/j.jacc.2021.06.019. PMID: 34384554.

- 78) Serruys PW, Hara H, Garg S, Kawashima H, Nørgaard BL, Dweck MR, Bax JJ, Knuuti J, Nieman K, Leipsic JA, Mushtaq S, Andreini D, Onuma Y. Coronary Computed Tomographic Angiography for Complete Assessment of Coronary Artery Disease: JACC State-of-the-Art Review. *J Am Coll Cardiol*. 2021 Aug 17;78(7):713-736. doi: 10.1016/j.jacc.2021.06.019. PMID: 34384554.
- 79) Pontone G, Mushtaq S, Al'Aref SJ, Andreini D, Baggiano A, Canan A, Cavalcante JL, Chelliah A, Chen M, Choi A, Damini D, De Cecco CN, Farooqi KM, Ferencik M, Feuchtner G, Hecht H, Gransar H, Kolossváry M, Leipsic J, Lu MT, Marwan M, Ng MY, Maurovich-Horvat P, Nagpal P, Nicol E, Weir-McCall J, Whelton SP, Williams MC, Reid A, Fairbairn TA, Villines T, Vliegenthart R, Arbab-Zadeh A. The journal of cardiovascular computed tomography: A year in review: 2022. *J Cardiovasc Comput Tomogr*. 2023 Mar-Apr;17(2):86-95. doi: 10.1016/j.jcct.2023.03.001. Epub 2023 Mar 14. PMID: 36934047.
- 80) Figliozzi S, Georgiopoulos G, Lopes PM, Bauer KB, Moura-Ferreira S, Tondi L, Mushtaq S, Censi S, Pavon AG, Bassi I, Servato ML, Teske AJ, Biondi F, Filomena D, Pica S, Torlasco C, Muraru D, Monney P, Quattrocchi G, Maestrini V, Agati L, Monti L, Pedrotti P, Vandenberg B, Squeri A, Lombardi M, Ferreira AM, Schwitter J, Aquaro GD, Chiribiri A, Rodríguez Palomares JF, Yilmaz A, Andreini D, Florian A, Leiner T, Abecasis J, Badano LP, Bogaert J, Masci PG. Myocardial Fibrosis at Cardiac MRI Helps Predict Adverse Clinical Outcome in Patients with Mitral Valve Prolapse. *Radiology*. 2023 Jan;306(1):112-121. doi: 10.1148/radiol.220454. Epub 2022 Sep 13. PMID: 36098639.
- 81) Mushtaq S, Conte E, Pontone G, Baggiano A, Annoni A, Formenti A, Mancini ME, Guglielmo M, Muscogiuri G, Tanzilli A, Nicoli F, Bartorelli AL, Pepi M, Andreini D. State-of-the-art-myocardial perfusion stress testing: Static CT perfusion. *J Cardiovasc Comput Tomogr*. 2020 Jul-Aug;14(4):294-302. doi: 10.1016/j.jcct.2019.09.002. Epub 2019 Sep 12. PMID: 31530496.
- 82) Andreini D, Conte E, Mushtaq S. Cardiac-CT in 2017: Over the coronary artery assessment. *Int J Cardiol*. 2017 Dec 15;249:497-499. doi: 10.1016/j.ijcard.2017.09.177. Epub 2017 Sep 29. PMID: 28970038.
- 83) Pontone G, Mushtaq S, Narula J. Dynamic Perfusion With CT Angiography: Adding Another Feather to a Heavily Decorated Cap. *J Am Coll Cardiol*. 2021 Nov 16;78(20):1950-1953. doi: 10.1016/j.jacc.2021.09.016. PMID: 34763771.
- 84) Baggiano A, Italiano G, Guglielmo M, Fusini L, Guaricci AI, Maragna R, Giacari CM, Mushtaq S, Conte E, Annoni AD, Formenti A, Mancini ME, Andreini D, Rabbat M, Pepi M, Pontone G. Changing Paradigms in the Diagnosis of Ischemic Heart Disease by Multimodality Imaging. *J Clin Med*. 2022 Jan 18;11(3):477. doi: 10.3390/jcm11030477. PMID: 35159929; PMCID: PMC8836710.
- 85) Serruys PW, Kotoku N, Nørgaard BL, Garg S, Nieman K, Dweck MR, Bax

JJ, Knuuti J, Narula J, Perera D, Taylor CA, Leipsic JA, Nicol ED, Piazza N, Schultz CJ, Kitagawa K, Bruyne B, Collet C, Tanaka K, Mushtaq S, Belmonte M, Dudek D, Zlahoda-Huzior A, Tu S, Wijns W, Sharif F, Budoff MJ, Mey J, Andreini D, Onuma Y. Computed tomographic angiography in coronary artery disease. *EuroIntervention*. 2023 Apr 3;18(16):e1307-e1327. doi: 10.4244/EIJ-D-22-00776. PMID: 37025086; PMCID: PMC10071125.

- 86) Andreini D, Conte E, Mushtaq S. Cardiac hybrid imaging for the management of patients with known or suspected coronary artery disease. *Int J Cardiol*. 2018 Jun 15;261:236-238. doi: 10.1016/j.ijcard.2018.03.023. PMID: 29657048.
- 87) Conte E, Mushtaq S, Carbuicchio C, Piperno G, Catto V, Mancini ME, Formenti A, Annoni A, Guglielmo M, Baggiano A, Muscogiuri G, Belmonte M, Cattani F, Pontone G, Jereczek-Fossa BA, Orecchia R, Tondo C, Andreini D. State of the art paper: Cardiovascular CT for planning ventricular tachycardia ablation procedures. *J Cardiovasc Comput Tomogr*. 2021 Sep-Oct;15(5):394-402. doi: 10.1016/j.jcct.2021.01.002. Epub 2021 Feb 1. PMID: 33563533.
- 88) Baggiano A, Del Torto A, Guglielmo M, Muscogiuri G, Fusini L, Babbaro M, Collevicchio A, Mollace R, Scafuri S, Mushtaq S, Conte E, Annoni AD, Formenti A, Mancini ME, Mostardini G, Andreini D, Guaricci AI, Pepi M, Fontana M, Pontone G. Role of CMR Mapping Techniques in Cardiac Hypertrophic Phenotype. *Diagnostics (Basel)*. 2020 Sep 29;10(10):770. doi: 10.3390/diagnostics10100770. PMID: 33003571; PMCID: PMC7601617.
- 89) Maragna R, Mushtaq S, Baggiano A, Annoni A, Carerj ML, Cilia F, Fazzari F, Formenti A, Fusini L, Mancini E, Marchetti F, Penso M, Volpe A, Tassetti L, Baessato F, Rossi A, Rovera C, Guaricci AI, Pontone G. Cardiac computed tomography: from anatomy to function. *Eur Heart J Suppl*. 2023 Apr 26;25(Suppl C):C49-C57. doi: 10.1093/eurheartjsupp/suad037. PMID: 37125321; PMCID: PMC10132556.
- 90) Mushtaq S, Conte E, Melotti E, Andreini D. Coronary CT Angiography in Challenging Patients: High Heart Rate and Atrial Fibrillation. A Review. *Acad Radiol*. 2019 Nov;26(11):1544-1549. doi: 10.1016/j.acra.2019.01.022. Epub 2019 Feb 10. PMID: 30745172.
- 91) Bergamaschi L, Pavon AG, Angeli F, Tuttolomondo D, Belmonte M, Armillotta M, Sansonetti A, Foà A, Paolisso P, Baggiano A, Mushtaq S, De Zan G, Carriero S, Cramer MJ, Teske AJ, Broekhuizen L, van der Bilt I, Muscogiuri G, Sironi S, Leo LA, Gaibazzi N, Lovato L, Pontone G, Pizzi C, Guglielmo M. The Role of Non-Invasive Multimodality Imaging in Chronic Coronary Syndrome: Anatomical and Functional Pathways. *Diagnostics (Basel)*. 2023 Jun 16;13(12):2083. doi: 10.3390/diagnostics13122083. PMID: 37370978; PMCID: PMC10297526.
- 92) Melotti E, Belmonte M, Gigante C, Mallia V, Mushtaq S, Conte E, Neglia

D, Pontone G, Collet C, Sonck J, Grancini L, Bartorelli AL, Andreini D. The Role of Multimodality Imaging for Percutaneous Coronary Intervention in Patients With Chronic Total Occlusions. *Front Cardiovasc Med.* 2022 May 2;9:823091. doi: 10.3389/fcvm.2022.823091. PMID: 35586657; PMCID: PMC9108201.

- 93) Conte E, Mushtaq S, Muscogiuri G, Formenti A, Annoni A, Mancini E, Ricci F, Melotti E, Gigante C, Lorenza Z, Guglielmo M, Baggiano A, Maragna R, Giacari CM, Carbucicchio C, Catto V, Pepi M, Andreini D, Pontone G. The Potential Role of Cardiac CT in the Evaluation of Patients With Known or Suspected Cardiomyopathy: From Traditional Indications to Novel Clinical Applications. *Front Cardiovasc Med.* 2021 Sep 14;8:709124. doi: 10.3389/fcvm.2021.709124. PMID: 34595219; PMCID: PMC8476802.
- 94) Conte E, Mushtaq S, Marchetti D, Mallia V, Belmonte M, Melotti E, Pontone G, Pepi M, Andreini D. Potential Application of Cardiac Computed Tomography for Early Detection of Coronary Atherosclerosis: From Calcium Score to Advanced Atherosclerosis Analysis. *J Clin Med.* 2021 Feb 1;10(3):521. doi: 10.3390/jcm10030521. PMID: 33535691; PMCID: PMC7867151.
- 95) Conte E, Sonck J, Mushtaq S, Collet C, Mizukami T, Barbato E, Tanzilli A, Nicoli F, De Bruyne B, Andreini D. FFR<sub>CT</sub> and CT perfusion: A review on the evaluation of functional impact of coronary artery stenosis by cardiac CT. *Int J Cardiol.* 2020 Feb 1;300:289-296. doi: 10.1016/j.ijcard.2019.08.018. Epub 2019 Aug 9. PMID: 31466886.
- 96) Trabattoni D, Mushtaq S, Andreini D. Ruolo diagnostico della tomografia computerizzata (TC) e della riserva frazionale di flusso derivata dalla TC nella coronaropatia [Role of coronary computed tomography angiography and computed tomography-derived fractional flow reserve in coronary artery disease]. *G Ital Cardiol (Rome).* 2020 Apr;21(4 Suppl 2):5S-11S. Italian. doi: 10.1714/3336.33068. PMID: 32250364.
- 97) Andreini D, Pontone G, Mushtaq S, Pepi M, Bartorelli AL. Multidetector computed tomography coronary angiography for the assessment of coronary in-stent restenosis. *Am J Cardiol.* 2010 Mar 1;105(5):645-55. doi: 10.1016/j.amjcard.2009.10.046. PMID: 20185011.
- 98) Guaricci AI, Neglia D, Acampa W, Andreini D, Baggiano A, Bianco F, Carrabba N, Conte E, Gaudieri V, Mushtaq S, Napoli G, Pergola V, Pontone G, Pedrinelli R, Mercuro G, Indolfi C, Guglielmo M; Working Group CT & Nuclear of the Italian Society of Cardiology. Computed tomography and nuclear medicine for the assessment of coronary inflammation: clinical applications and perspectives. *J Cardiovasc Med (Hagerstown).* 2023 Apr 1;24(Suppl 1):e67-e76. doi: 10.2459/JCM.0000000000001433. PMID: 37052223.
- 99) Baessato F, Fusini L, Muratori M, Tamborini G, Ghulam Ali S, Mantegazza V, Baggiano A, Mushtaq S, Pepi M, Patti G, Pontone G. Echocardiography vs. CMR in the Quantification of Chronic Mitral

Regurgitation: A Happy Marriage or Stormy Divorce? J Cardiovasc Dev Dis. 2023 Mar 31;10(4):150. doi: 10.3390/jcdd10040150. PMID: 37103029; PMCID: PMC10145831.

- 100) Conte E, Mushtaq S, Pontone G, Casella M, Russo AD, Pepi M, Andreini D. Left-dominant arrhythmogenic cardiomyopathy diagnosed at cardiac CT. J Cardiovasc Comput Tomogr. 2020 Sep-Oct;14(5):e7-e8. doi: 10.1016/j.jcct.2018.09.004. Epub 2018 Sep 11. PMID: 30220484.
- 101) Andreini D, Mushtaq S, Conte E, Mei M, Nicoli F, Melotti E, Pompilio G, Pepi M, Bartorelli AL, Onuma Y, Serruys PW. The usefulness of cardiac CT integrated with FFRCT for planning myocardial revascularization in complex coronary artery disease: a lesson from SYNTAX studies. Cardiovasc Diagn Ther. 2020 Dec;10(6):2036-2047. doi: 10.21037/cdt.2019.11.07. PMID: 33381442; PMCID: PMC7758756.
- 102) Serruys PW, Hara H, Garg S, Kawashima H, Nørgaard BL, Dweck MR, Bax JJ, Knuuti J, Nieman K, Leipsic JA, **Mushtaq S**, Andreini D, Onuma Y. Coronary Computed Tomographic Angiography for Complete Assessment of Coronary Artery Disease: JACC State-of-the-Art Review. J Am Coll Cardiol. 2021 Aug 17;78(7):713-736. doi: 10.1016/j.jacc.2021.06.019.
- 103) Serruys PW, Kotoku N, Nørgaard BL, Garg S, Nieman K, Dweck MR, Bax JJ, Knuuti J, Narula J, Perera D, Taylor CA, Leipsic JA, Nicol ED, Piazza N, Schultz CJ, Kitagawa K, Bruyne B, Collet C, Tanaka K, **Mushtaq S**, Belmonte M, Dudek D, Zlahoda-Huzior A, Tu S, Wijns W, Sharif F, Budoff MJ, Mey J, Andreini D, Onuma Y. Computed tomographic angiography in coronary artery disease. EuroIntervention. 2023 Apr 3;18(16):e1307-e1327. doi: 10.4244/EIJ-D-22-00776. PMID: 37025086
- 104) Pontone G, Scafuri S, Mancini ME, Agalbato C, Guglielmo M, Baggiano A, Muscogiuri G, Fusini L, Andreini D, **Mushtaq S**, Conte E, Annoni A, Formenti A, Gennari AG, Guaricci AI, Rabbat MR, Pompilio G, Pepi M, Rossi A. Role of computed tomography in COVID-19. J Cardiovasc Comput Tomogr. 2021 Jan-Feb;15(1):27-36. doi: 10.1016/j.jcct.2020.08.013. Epub 2020 Sep 4
- 105) Napoli G, Pergola V, Basile P, De Feo D, Bertrandino F, Baggiano A, **Mushtaq S**, Fusini L, Fazzari F, Carrabba N, Rabbat MG, Motta R, Ciccone MM, Pontone G, Guaricci AI. Epicardial and Pericoronary Adipose Tissue, Coronary Inflammation, and Acute Coronary Syndromes. J Clin Med. 2023 Nov 21;12(23):7212. doi: 10.3390/jcm12237212. PMID: 38068263 **Free PMC article.** Review.
- 106) Bergamaschi L, Pavon AG, Angeli F, Tuttolomondo D, Belmonte M, Armillotta M, Sansonetti A, Foà A, Paolisso P, Baggiano A, **Mushtaq S**, De Zan G, Carriero S, Cramer MJ, Teske AJ, Broekhuizen L, van der Bilt I, Muscogiuri G, Sironi S, Leo LA, Gaibazzi N, Lovato L, Pontone G, Pizzi C, Guglielmo M. The Role of Non-Invasive Multimodality Imaging in Chronic Coronary Syndrome: Anatomical and Functional Pathways. Diagnostics (Basel). 2023 Jun 16;13(12):2083. doi: 10.3390/diagnostics13122083. PMID: 37370978



- 107) Guaricci AI, Sturdà F, Russo R, Basile P, Baggiano A, **Mushtaq S**, Fusini L, Fazzari F, Bertandino F, Monitillo F, Carella MC, Simonini M, Pontone G, Ciccone MM, Grandaliano G, Vezzoli G, Pesce F Assessment and management of heart failure in patients with chronic kidney disease..Heart Fail Rev. 2024 Mar;29(2):379-394. doi: 10.1007/s10741-023-10346-x. Epub 2023 Sep 20.PMID: 37728751 Review.
- 108) Pontone G, **Mushtaq S**, Al'Aref SJ, Andreini D, Baggiano A, Canan A, Cavalcante JL, Chelliah A, Chen M, Choi A, Damini D, De Cecco CN, Farooqi KM, Ferencik M, Feuchtner G, Hecht H, Gransar H, Kolossváry M, Leipsic J, Lu MT, Marwan M, Ng MY, Maurovich-Horvat P, Nagpal P, Nicol E, Weir-McCall J, Whelton SP, Williams MC, Reid A, Fairbairn TA, Villines T, Vliegenthart R, Arbab-Zadeh A. The journal of cardiovascular computed tomography: A year in review: 2022. J Cardiovasc Comput Tomogr. 2023 Mar-Apr;17(2):86-95. doi: 10.1016/j.jcct.2023.03.001. Epub 2023 Mar 14.
- 109) Serruys PW, Kageyama S, Pompilio G, Andreini D, Pontone G, **Mushtaq S**, La Meir M, De Mey J, Tanaka K, Doenst T, Teichgräber U, Schneider U, Puskas JD, Narula J, Gupta H, Agarwal V, Leipsic J, Masuda S, Kotoku N, Tsai TY, Garg S, Morel MA, Onuma Y. Coronary bypass surgery guided by computed tomography in a low-risk population..Eur Heart J. 2024 May 27;45(20):1804-1815. doi: 10.1093/eurheartj/ehae199.PMID: 38583086
- 110) Andreini D, Conte E, Monizzi G, Prestini B, Ratti A, Belmonte M, Melotti E, Doldi M, Marchetti D, Schillaci M, Nicoli F, Mastrangelo A, Paolisso P, Gigante C, Novembre ML, Baggiano A, Mancini ME, Annoni A, Formenti A, Pizzamiglio F, Pontone G, Zeppilli P, Bartorelli AL, **Mushtaq S**. Predictors of adverse cardiac events of coronary myocardial bridging diagnosed with computed tomography angiography. Int J Cardiol. 2024 Jul 1;406:131997. doi: 10.1016/j.ijcard.2024.131997. Epub 2024 Mar 29.PMID: 38556216
- 111) Kotoku N, Ninomiya K, Ding D, O'Leary N, Tobe A, Miyashita K, Masuda S, Kageyama S, Garg S, Leipsic JA, **Mushtaq S**, Andreini D, Tanaka K, de Mey J, Wijns W, Tu S, Piazza N, Onuma Y, Serruys PW. Murray law-based quantitative flow ratio to assess left main bifurcation stenosis: selecting the angiographic projection matters. Int J Cardiovasc Imaging. 2024 Jan;40(1):195-206. doi: 10.1007/s10554-023-02974-z. Epub 2023 Oct 23.PMID: 37870715
- 112) van Rosendaal AR, Crabtree T, Bax JJ, Nakanishi R, **Mushtaq S**, Pontone G, Andreini D, Buechel RR, Gräni C, Feuchtner G, Patel TR, Choi AD, Al-Mallah M, Nabi F, Karlsberg RP, Rochitte CE, Alasnag M, Hamdan A, Cademartiri F, Marques H, Kalra D, German DM, Gupta H, Hadamitzky M, Deaño RC, Khalique O, Knaapen P, Hoffmann U, Earls J, Min JK, Danad I; CONFIRM 2 investigators. Rationale and design of the CONFIRM2 (Quantitative COroNary CT Angiography Evaluation For Evaluation of Clinical Outcomes: An InteRnational, Multicenter Registry) study. J Cardiovasc Comput . 2024 Jan-Feb;18(1):11-17. doi: 10.1016/j.jcct.2023.10.004. Epub 2023 Nov 10.PMID: 37951725
- 113) Corti A, Iacono FL, Ronchetti F, **Mushtaq S**, Pontone G, Colombo GI,

- Corino VDA. Enhancing Cardiovascular Risk Stratification: Radiomics of Coronary Plaque and Perivascular Adipose Tissue - Current Insights and Future Perspectives. *Trends Cardiovasc Med*. 2024 Jul 1:S1050-1738(24)00058-6. doi: 10.1016/j.tcm.2024.06.003. Online ahead of print.
- 114) Forleo C, Carella MC, Basile P, Mandunzio D, Greco G, Napoli G, Carulli E, Dicorato MM, Dentamaro I, Santobuono VE, Memeo R, Latorre MD, Baggiano A, **Mushtaq S**, Ciccone MM, Pontone G, Guaricci AI. The Role of Magnetic Resonance Imaging in Cardiomyopathies in the Light of New Guidelines: A Focus on Tissue Mapping. *Clin Med*. 2024 Apr 29;13(9):2621. doi: 10.3390/jcm13092621.PMID: 38731153
- 115) Tasseti L, Sfriso E, Torlone F, Baggiano A, **Mushtaq S**, Cannata F, Del Torto A, Fazzari F, Fusini L, Junod D, Maragna R, Volpe A, Carrabba N, Conte E, Guglielmo M, La Mura L, Pergola V, Pedrinelli R, Indolfi C, Sinagra G, Perrone Filardi P, Guaricci AI, Pontone G; Working Group CT & Nuclear of the Italian Society of Cardiology. The Role of Multimodality Imaging (CT & MR) as a Guide to the Management of Chronic Coronary Syndromes. *J Clin Med*. 2024 Jun 13;13(12):3450. doi: 10.3390/jcm13123450.
- 116) Napoli G, Mushtaq S, Basile P, Carella MC, De Feo D, Latorre MD, Baggiano A, Ciccone MM, Pontone G, Guaricci AI. Beyond Stress Ischemia: Unveiling the Multifaceted Nature of Coronary Vulnerable Plaques Using Cardiac Computed Tomography. *J Clin Med*. 2024 Jul 22;13(14):4277. doi: 10.3390/jcm13144277.PMID: 39064316 Review.
- 117) Carbuicchio C, Guarracini F, Schiavone M, Gasperetti A, Conte E, Preda A, Cellucci S, De Iuliis P, Catto V, **Mushtaq S**, Mancini ME, Marchetti F, Bianchini L, Tundo F, Moltrasio M, Andreini D, Pontone G. Preprocedural imaging with cardiac computed tomography for endo-epicardial ventricular tachycardia ablation. *Heart Rhythm*. 2024 Jun 20:S1547-5271(24)02738-3. doi: 10.1016/j.hrthm.2024.06.025. Online ahead of print.
- 118) Nannini G, Saitta S, Baggiano A, Maragna R, **Mushtaq S**, Pontone G, Redaelli A. A fully automated deep learning approach for coronary artery segmentation and comprehensive characterization. *APL Bioeng*. 2024 Jan 23;8(1):016103. doi: 10.1063/5.0181281. eCollection 2024 Mar
- 118) Masuda S, Revaiah PC, Kageyama S, Tsai TY, Miyashita K, Tobe A, Puskas JD, Teichgräber U, Schneider U, Doenst T, Tanaka K, De Mey J, La Meir M, **Mushtaq S**, Bartorelli AL, Pompilio G, Garg S, Andreini D, Onum Y, Serruys PW. Quantitative coronary computed tomography assessment for differentiating between total occlusions and severe stenoses. *J Cardiovasc Comput Tomogr*. 2024 May 7:S1934-5925(24)00108-4. doi: 10.1016/j.jcct.2024.04.013. Online ahead of print.
- 119) Gerbasi A, Dagliati A, Albi G, Chiesa M, Andreini D, Baggiano A, **Mushtaq S**, Pontone G, Bellazzi R, Colombo G. CAD-RADS scoring of coronary CT angiography with Multi-Axis Vision Transformer: A clinically-inspired deep learning pipeline. *Comput Methods Programs Biomed*. 2024 Feb;244:107989. doi: 10.1016/j.cmpb.2023.107989. Epub 2023 Dec 21.PMID: 38141455

- 120) Guglielmo M, Fusini L, Baessato F, Baggiano A, **Mushtaq S**, Annoni A, Carerj ML, Cilia F, Fazzari F, Formenti A, Gripari P, Mancini ME, Marchetti F, Penso M, Volpe A, Tasseti L, Guaricci AI, Muscogiuri G, Costantini P, van der Bilt I, van der Harst P, Rabbat MG, Rossi A, Fontana M, Pontone G PROGnostic RolE of strain measurements in stress cardiac MRI in predicting major adverse cardiac events.  
Int J Cardiol. 2024 Oct 1;412:132337. doi: 10.1016/j.ijcard.2024.132337. Epub 2024 Jul 2.
- 121) Conte E, Pizzamiglio F, Dessanai MA, Guarnieri G, Ardizzone V, Schillaci M, Dello Russo A, Casella M, **Mushtaq S**, Melotti E, Marchetti D, Volpato V, Drago G, Gigante C, Sforza C, Bartorelli AL, Pepi M, Pontone G, Tondo C, Andreini D. Prevalence and prognosis of structural heart disease among athletes with negative T waves and normal transthoracic echocardiography.  
Clin Res Cardiol. 2024 May;113(5):706-715. doi: 10.1007/s00392-023-02282-5. Epub 2023 Aug 15.
- 122) Akyea RK, Figliozzi S, Lopes PM, Bauer KB, Moura-Ferreira S, Tondi L, **Mushtaq S**, Censi S, Pavon AG Bassi I, Galian-Gay L, Teske AJ, Biondi F, Filomena D, Stylianidis V, Torlasco C, Muraru D, Monney P, Quattrocchi G, Maestrini V, Agati L, Monti L, Pedrotti P, Vandenberg B, Squeri A, Lombardi M, Ferreira AM, Schwitter J, Aquaro GD, Pontone G, Chiribiri A, Rodríguez Palomares JF, Yilmaz A, Andreini D, Florian AR, Francone M, Leiner T, Abecasis J, Badano LP, Bogaert J, Georgiopoulos G, Masci PG Arrhythmic Mitral Valve Prolapse Phenotype: An Unsupervised Machine Learning Analysis Using a Multicenter Cardiac MRI Registry.  
Radiol Cardiothorac Imaging. 2024 Jun;6(3):e230247. doi: 10.1148/ryct.230247.PMID: 38900026
- 123) Conte E, Marchetti D, Melotti E, Schillaci M, **Mushtaq S**, Maffi V, Pontone G, Bartorelli A, Andreini D. Clinical and cardiac CT characteristics of congenital coronary abnormalities occasionally detected in a middle-aged population: A long-term follow-up study. J Cardiovasc Radiol Cardiothorac Imaging. 2024 Jun;6(3):e230247. doi: 10.1148/ryct.230247.PMID: 38900026
- 124) De Cillis E, Acquaviva T, Ursi R, Soldato N, Basile P, Siena P, Carella MC, Baggiano A, **Mushtaq S**, Fusini L, Rabbat MG, Pontone G, Bottio T, Bortone AS, Ciccone MM, Milano AD, Guaricci AI. A comparison of intracardiac echocardiography and transesophageal echocardiography for guiding device closure of ostium secundum atrial septal defect: A 15-year experience.  
Echocardiography. 2024 Jan;41(1):e15724. doi: 10.1111/echo.15724. Epub 2023 Dec 8.PMID: 38064288
- 125) Basile P, Soldato N, Pedio E, Siena P, Carella MC, Dentamaro I, Khan Y, Baggiano A, **Mushtaq S**, Forleo C, Ciccone MM, Pontone G, Guaricci AI. Cardiac magnetic resonance reveals concealed structural heart disease in patients with frequent premature ventricular contractions and normal echocardiography: A systematic review.  
Int J Cardiol. 2024 Oct 1;412:132306. doi: 10.1016/j.ijcard.2024.132306. Epub

2024 Jun 29.

## **ABSTRACTS**

More than 600 (available for the complete list).

## **OTHER ACTIVITIES**

2010: nominated best Resident in cardiology during the IX Giornata Cardiologica Clinica a Laveno di Menaggio (Como),

2013: Best Poster Awards at the annual congress of the European Society of Cardiology, for the study “Prognostic value of coronary CTA in coronary bypass patients: a long-term follow-up study” (1<sup>st</sup> author Saima Mushtaq)

-2013: the paper (1<sup>st</sup> author Daniele Andreini) “Prognostic Value of Multidetector Computed Tomography Coronary Angiography in Diabetes: Excellent Long-Term Prognosis in Patients with Normal Coronary Arteries” selected as one of the 5 best articles published in 2013 in “Diabetes Care” and included in the dedicated “Diabetes Care Symposium” during the annual meeting of the American Diabetes Association.

- 2013: the abstract “Diagnostic accuracy of multidetector computed tomography coronary angiography in 325 consecutive patients referred for transcatheter aortic valve replacement” included in the “Highlights” of the Congress “Euro Echo-Imaging” of the European Society of Cardiology.

-2014: Best Abstract Awards at the annual meeting of the Society of Cardiovascular Computed Tomography, for the study “Diagnostic Accuracy of Rapid Kilovolt Peak-Switching Dual-Energy CT Coronary Angiography in Patients with High Calcium Score”.

-2015 in Congresso Nazionale della Società di Cardiologia (SIC) the study “Prognostic value of coronary CTA in coronary bypass patients: a long-term follow-up study” (1<sup>st</sup> author Saima Mushtaq) was one of the best published study

- passed the exam held in London on 29 August 2015 during the ESC 2015 for the European Certification of MRI (level III)

- November 2016 has been awarded certification in Cardiovascular Magnetic Resonance Level 3

- December 2016 In the Congress of Italian cardiac Society (SIC) the study ‘Log-Term Prognostic Effect of coronary atherosclerotic Burden: Validation of the Computed Tomography-Leaman Score (1<sup>st</sup> author Saima Mushtaq) was one of the best published study (Young Investigator award)

-May 2017 during the *International conference on Nuclear Cardiology and Cardiac CT (ICNC)* in Vienna the abstract *Diagnostic accuracy of coronary CT angiography performed by the novel whole organ volumetric high definition CT scanner in patients with atrial fibrillation* was a top scored abstract and Dr. Mushtaq S received “Best regional abstract Award” certificate.

-Best Abstract Award in SCTT Winter Meeting Dublin 2019 (Additional diagnostic value of CT perfusion over coronary CT angiography in patients

with suspected in-stent restenosis or coronary artery disease progression: the ADVANTAGE Study.)

-Best Oral Abstract Finalist STATE-OF-THE-ART CARDIOVASCULAR CT Edinburgh, Scotland, February 7-8, 2023 Presented to Saima Mushtaq, MD, FSCCT For the presentation entitled Diagnostic Accuracy Of Dynamic Stress Myocardial Ct Perfusion As Compared With Invasive Coronary Physiology Assessment In Patients With Suspected In-stent Restenosis Or Cad Progression: Results Of Advantage 2 Study

-Top enroller for the study of FAST TRACK CABG for Centro Cardiologico Monzino (July 2023)

- She has the European Certification of MRI and CT (level III).

**-From June 2023 she has joined JCCT (Journal of Cardiovascular Computed Tomography) as associate editor**

Lectures 2022-2023 "Ruolo della Risonanza Magnetica Cardiaca e della TC Coronarica nella valutazione cardiovascolare dell'atleta" SIC  
SPORT ROMA 13-15 giugno

Ruolo della TC coronarica nella valutazione cardiovascolare dell'atleta  
SIC SPORT ROMA 13-15 giugno

Coronary CT angiography in revascularized patients: are we ready for routine use? Innovations in Cardiology (Bari)

Sessione I: Cardio-TC Complementarietà dell'Imaging Multimodale nel Management del paziente con cardiopatia: esperti a confronto (Roma)

PERFUSIONE MIOCARDICA DA STRESS Advanced  
Multimodality Imaging in Cardiovascular Disease

CT perfusion is ready for prime-time? Yes, and static approach is all you need Advanced Multimodality Imaging in Cardiovascular Disease

New insights in ACM: not only right...

Imaging e Cardiologia dello sport: Minicorso Advanced  
Multimodality Imaging in Cardiovascular Disease

-April 2023 Teacher c/o EACVI CT learning course held in Sophia Antipolis

-GE CT course held in Barcelona during the EACVI 2023 congress

-Two moderations at ESC congress in Amsterdam Congress in September

2023

### **MULTICENTER TRIALS**

1. GISSI Outlier CAPIRE. Multicenter trial. Role: Investigator.
2. VICTORY multicenter trial. Role: Investigator. Principal Investigator: James K Min.
3. CONSERVE multicenter trial. Role: Investigator. Principal Investigator: James K Min.
4. PLATFORM multicentre trial. Role Investigator
5. SYNTAX III REVOLUTION: Role: Study coordinator. Principal Investigator Prof Serruys
6. FAST TRACK CABG STUDY Study Coordinator
7. P4 trial CO-PI
- 8- VICTORION-Plaque CO-PI

Autorizzo il trattamento dei miei dati personali ai sensi del D.lgs. 196 del 30 giugno 2003.