

INFORMAZIONI PERSONALI
Domenico Filomena**ESPERIENZA PROFESSIONALE**

Aprile 2022- Marzo 2023

Assegnista di Ricerca
 Sapienza Università di Roma

Gennaio 2021- Agosto 2021

Dirigente Medico
 POLICLINICO UMBERTO I, ROMA

Settembre 2021- Dicembre 2021

Clinical and Research Fellow
 KU LEUVEN, LEUVEN

Agosto 2016- Dicembre 2016

Clinical Fellow
 KING'S COLLEGE HOSPITAL, LONDRA

ISTRUZIONE E FORMAZIONE

Gennaio 2022- in corso

Dottorato di ricerca
SAPIENZA UNIVERSITÀ DI ROMA
 • Dottorato di ricerca in Fisiopatologia e imaging Cardio-Toraco-Vascolare (in corso)

2017-2021

Specializzazione in Malattie dell'Apparato Cardiovascolare
SAPIENZA UNIVERSITÀ DI ROMA

2010-2016

Corso di Laurea in Medicina e Chirurgia
SAPIENZA UNIVERSITÀ DI ROMA

2005-2010

Maturità scientifica
LICEO SCIENTIFICO "TITO LIVIO" MARTINA FRANCA
COMPETENZE PERSONALI

Lingua madre

Italiano

Altre lingue

Inglese

COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
Ascolto	Lettura	Interazione	Produzione orale	
C1	C1	C1	B2	C1
Sostituire con il nome del certificato di lingua acquisito. Inserire il livello, se conosciuto				

 Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato
 Quadro Comune Europeo di Riferimento delle Lingue

Patente di guida

B

 ULTERIORI INFORMAZIONI

Pubblicazioni

1. Cimino S, Palombizio D, Cicogna F, Cantisani D, Reali M, Filomena D, et al. Significant increase of flow kinetic energy in "nonresponders" patients to cardiac resynchronization therapy. *Echocardiography*. 2017;34(5).
2. Cimino S, Maestrini V, Cantisani D, Petronilli V, Filomena D, Mancone M, et al. 2D/3D echocardiographic determinants of left ventricular reverse remodelling after MitraClip implantation. *Eur Hear J - Cardiovasc Imaging*. 2019 May 1;20(5):558–64.
3. Cimino S, Maestrini V, Cantisani D, Petronilli V, Filomena D, Gatto MC, et al. 2D/3D Echocardiographic features of patients with reverse remodeling after cardiac resynchronization therapy. *Echocardiography*. 2019 Aug;36(8):1475–81
4. Filomena D, Cimino S, Maestrini V, Cantisani D, Petronilli V, Mancone M, et al. Changes in Intraventricular Flow Patterns after MitraClip Implant in Patients with Functional Severe Mitral Regurgitation. *J Am Soc Echocardiogr*. 2019 Sep;32(9):1250-1253.e1.
5. Filomena D, Versacci P, Cimino S, Mattiucci C, Maestrini V, Cantisani D, et al. Echocardiographic long-term follow-up of adult survivors of pediatric cancer treated with Dexrazoxane-Anthracyclines association. *Int J Cardiol*. 2019 Aug;
6. Cimino S, Maestrini V, Cantisani D, Petronilli V, Filomena D, Mancone M, et al. Mid-term repair durability after MitraClip implantation in patients with functional mitral regurgitation. *J Cardiovasc Med*. 2019;20(10):701–8.
7. Arcari L, Cimino S, Filomena D, Monosilio S, Luongo F, Mancone M, Galea N, Francione M, Maestrini V, Agati L. Peak white blood cell count, infarct size and myocardial salvage in patients with reperfused ST-elevation myocardial infarction: a cardiac magnetic resonance study. *J Cardiovasc Med (Hagerstown)*. 2021 Mar 1;22(3):228-230. doi: 10.2459/JCM.0000000000001033.
8. Cimino S, Arcari L, Filomena D, Agati L. In the Eye of the Storm: Echocardiographic Particle Image Velocimetry Analysis in a Patient with Takotsubo Syndrome. *Echocardiography*. 2020 Aug;37(8):1312-1314. doi: 10.1111/echo.14776. Epub 2020 Jul 17
9. Chen P, van Sloun RJG, Turco S, Wijkstra H, Filomena D, Agati L, Houthuizen P, Mischi M. Blood flow patterns estimation in the left ventricle with low-rate 2D and 3D dynamic contrast-enhanced ultrasound. *Comput Methods Programs Biomed*. 2021 Jan;198:105810. doi: 10.1016/j.cmpb.2020.105810. Epub 2020
10. Filomena D, Cimino S, Maestrini V, Monosilio S, Birtolo LI, Vicenzini E, Mancone M, Fedele F, Agati L. The evolving role of echocardiography in the assessment of patent foramen ovale in patients with left-side thromboembolism. *Echocardiography*. 2021 Apr;38(4):657-675. doi: 10.1111/echo.15018. Epub 2021 Mar 19.
11. Cimino S, Monosilio S, Luongo F, Neccia M, Birtolo LI, Salvi N, Filomena D, Mancone M, Fedele F, Agati L, Maestrini V. Myocardial contractility recovery following acute pressure unloading after transcatheter aortic valve intervention (TAVI) in patients with severe aortic stenosis and different left ventricular geometry: a multilayer longitudinal strain echocardiographic analysis. *Int J Cardiovasc Imaging*. 2021 Mar;37(3):965-970. doi: 10.1007/s10554-020-02074-2.
12. Filomena D, Monosilio S, Cimino S, Maestrini V, Luongo F, Neccia M, Salvi N, Colantonio R, Mancone M, Sardella G, Fedele F, Agati L. Prognostic role of pre- and post-interventional myocardial injury in patients undergoing transcatheter aortic valve implantation. *Minerva Cardiol Angiol*. 2021 May 4. doi: 10.23736/S2724-5683.21.05630-1
13. Filomena D, Birtolo LI, Penza M, Galdi G, Di Giacinto B, Maestrini V. The role of cardiovascular magnetic resonance in the screening before the return-to-play of elite

- athletes after COVID-19: utility o futility? *J Sports Med Phys Fitness*. 2021 Aug;61(8):1137-1143. doi: 10.23736/S0022-4707.21.12764-1.
14. Filomena D, Cimino S, Monosilio S, Galea N, Mancuso G, Francone M, Tonti G, Pedrizzetti G, Maestrini V, Fedele F, Agati L. Impact of intraventricular haemodynamic forces misalignment on left ventricular remodelling after myocardial infarction. *ESC Heart Fail*. 2021 Dec 23. doi: 10.1002/ehf2.13719.
 15. Pandozi C, Mariani MV, Chimenti C, Maestrini V, Filomena D, Magnocavallo M, Straito M, Piro A, Russo M, Galeazzi M, Ficili S, Colivicchi F, Severino P, Mancone M, Fedele F, Lavalle C. The scar: the wind in the perfect storm-insights into the mysterious living tissue originating ventricular arrhythmias. *J Interv Card Electrophysiol*. 2022 Jan 24. doi: 10.1007/s10840-021-01104-w.
 16. Cimino S, Agati L, Filomena D, Maestrini V, Monosilio S, Birtolo LI, Mocci M, Mancone M, Sardella G, Grayburn P, Fedele F. 3D Echo Characterization of Proportionate and Disproportionate Functional Mitral Regurgitation before and after Percutaneous Mitral Valve Repair. *J Clin Med*. 2022 Jan 27;11(3):645. doi: 10.3390/jcm11030645.
 17. Filomena D, Monosilio S, Sannino M, Cimino S, Maestrini V, Bruno E, Miraldi F, Fedele F, Vizza CD, Agati L. Complex connections: A young man presenting with shortness of breath, hypoxemia, right lumbar pain and left limb swelling. *Echocardiography*. 2022 Mar 6. doi: 10.1111/echo.15330.
 18. Calvieri C, Galea N, Cilia F, Pambianchi G, Mancuso G, Filomena D, Cimino S, Carbone I, Francone M, Agati L and Catalano C (2022) Protective Value of Aspirin Loading Dose on Left Ventricular Remodeling After ST-Elevation Myocardial Infarction. *Front. Cardiovasc. Med*. 9:786509. doi: 10.3389/fcvm.2022.786509
 19. Manzi G, Papa S, Mariani MV, Scoccia G, Filomena D, Malerba C, Adamo FI, Caputo A, De Lazzari C, De Lazzari B, Cedrone N, Madonna R, Recchioni T, Serino G, Vizza CD, Badagliacca R. Telehealth: A winning weapon to face the COVID-19 outbreak for patients with pulmonary arterial hypertension. *Vascul Pharmacol*. 2022 Jun 16;145:107024.
 20. Maestrini V, Filomena D, Birtolo LI, Serdoz A, Fiore R, Tatangelo M, Lemme E, Squeo MR, Mango R, Di Gioia G, Fedele F, Gualdi G, Spataro A, Pelliccia A, Di Giacinto B. Systematic Cardiovascular Screening in Olympic Athletes before and after SARS-CoV-2 Infection. *J Clin Med*. 2022 Jun 17;11(12):3499.
 21. Monosilio S, Filomena D, Luongo F, Sannino M, Cimino S, Neccia M, Mariani MV, Birtolo LI, Benedetti G, Tonti G, Pedrizzetti G, Vizza CD, Maestrini V, Agati L. Cardiac and Vascular Remodeling After 6 Months of Therapy With Sacubitril/Valsartan: Mechanistic Insights From Advanced Echocardiographic Analysis. *Front Cardiovasc Med*. 2022 May 18;9:883769.
 22. Monosilio S, Filomena D, Cimino S, Birtolo LI, Tocci M, Mancone M, Sardella G, Fedele F, Maestrini V, Agati L. Prognostic value of systemic inflammatory response syndrome after transcatheter aortic valve implantation. *J Cardiovasc Med (Hagerstown)*. 2022 Jun 1;23(6):394-398.
 23. De Lazzari B, Iacovoni A, Capoccia M, Papa S, Badagliacca R, Filomena D, De Lazzari C. Ventricular and Atrial Pressure-Volume Loops: Analysis of the Effects Induced by Right Centrifugal Pump Assistance. *Bioengineering (Basel)*. 2022 Apr 20;9(5):181.
 24. Filomena D, Dresselaers T and Bogaert J. Role of Cardiovascular Magnetic Resonance to Assess Cardiovascular Inflammation. *Front. Cardiovasc. Med*. 2022 9:877364
 25. 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, Schwitler J,

- Aquaro GD, Chiribiri A, Rodríguez Palomares JF, Yilmáz 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*. 2022 Sep 13;220454. doi: 10.1148/radiol.220454.
26. Badagliacca R, Vizza CD, Lang I, Sadushi-Kolici R, Papa S, Manzi G, Filomena D, Ogawa A, Shimokawahara H, Matsubara H. Pulmonary pressure recovery in idiopathic, hereditary and drug and toxin-induced pulmonary arterial hypertension: determinants and clinical impact. *Vascul Pharmacol*. 2022 Sep 1;146:107099. doi: 10.1016/j.vph.2022.107099.
 27. De Lazzari B, Badagliacca R, Filomena D, Papa S, Vizza CD, Capoccia M, De Lazzari C. CARDIOSIM®: The First Italian Software Platform for Simulation of the Cardiovascular System and Mechanical Circulatory and Ventilatory Support. *Bioengineering (Basel)*. 2022 Aug 11;9(8):383. doi: 10.3390/bioengineering9080383
 28. Maestrini V, Penza M, Filomena D, Birtolo LI, Monosilio S, Lemme E, Squeo MR, Mango R, Di Gioia G, Serdoz A, Fiore R, Fedele F, Pelliccia A, Di Giacinto B. Low prevalence of cardiac abnormalities in competitive athletes at return-to-play after COVID-19. *J Sci Med Sport*. 2022 Nov 1:S1440-2440(22)00466-2. doi: 10.1016/j.jsams.2022.10.015.
 29. Badagliacca R, D'Alto M, Ghio S, Argiento P, Brunetti ND, Casu G, Cedrone N, Confalonieri M, Corda M, Correale M, D'Agostino C, De Michele L, Di Marino S, Filomena D, Galgano G, Greco A, Lombardi C, Manzi G, Mercurio V, Mulè M, Paciocco G, Papa S, Romeo E, Scelsi L, Stolfo D, Vitulo P, Vizza CD. Relevance of comorbidities on initial combination therapy in pulmonary arterial hypertension. *ERJ Open Res*. 2022 Nov 7;8(4):00298-2022. doi: 10.1183/23120541.00298-2022.
 30. Pezzuto B, Piepoli M, Galotta A, Sciomer S, Zaffalon D, Filomena D, Vignati C, Contini M, Alimento M, Baracchini N, Apostolo A, Palermo P, Mapelli M, Salvioni E, Carriere C, Merlo M, Papa S, Campodonico J, Badagliacca R, Sinagra G, Agostoni P. The importance of re-evaluating the risk score in heart failure patients: An analysis from the Metabolic Exercise Cardiac Kidney Indexes (MECKI) score database. *Int J Cardiol*. 2023 Apr 1;376:90-96. doi: 10.1016/j.ijcard.2023.01.069.
 31. Filomena D, Vandenberg B, Dresselaers T, Willems R, Van Cleemput J, Olivetto I, Robyns T, Bogaert J. Apical papillary muscle displacement is a prevalent feature and a phenotypic precursor of apical hypertrophic cardiomyopathy. *Eur Heart J Cardiovasc Imaging*. 2023 Apr 28;jead078. doi: 10.1093/ehjci/jead078.
 32. Manzi G, Mariani MV, Filomena D, Poscia R, Severino P, Iaconelli A, Recchioni T, Madonna R, Vizza CD, Badagliacca R. Biobanks: The unmet need in heart failure management. *Vascul Pharmacol*. 2023 Apr 28;150:107179. doi: 10.1016/j.vph.2023.107179.

Atti di Congresso

1. Filomena D, Cimino S, Reali M, Pagliaro M, Tonti G, et al.; Intraventricular flow patterns after percutaneous mitral valve repair with MitraClip implantation *in* Young Investigator Award session: Basic Science, European Heart Journal-Cardiovascular Imaging, 17, suppl_2, ii53-ii54, 2016, Oxford University Press
2. Cimino, S, Maestrini, V, Pagliaro, M, Reali, M, Mancone, M, Filomena D, et al. Immediate effect of a successful MitraClip procedure on mitral annulus geometry in a patient with secondary severe mitral regurgitation *European Heart Journal Cardiovascular Imaging*, 18, suppl_3, iii260, 2017, Oxford University Press.
3. Filomena D, Cimino S, Maestrini V, Cantisani D, Petronilli V, Sannino M, et al. Intraventricular flow patterns after percutaneous mitral valve repair with MitraClip implantation in patients with functional MR, *in* Moderated Posters session-Mitral regurgitation in the era of edge-to-edge percutaneous procedure, *European Heart Journal-Cardiovascular Imaging*, 18, suppl_3, iii94-iii96, 2017, Oxford University Press

4. Filomena D, Cimino S, Maestrini V, Cantisani D, Petronilli V, Velato L, et al. Intraventricular fluid dynamics evaluated during DSE: new horizon for CAD patients in Moderated Posters-The diversity of clinical use of stress echo, *European Heart Journal-Cardiovascular Imaging*, 20, Supplement_1, i767-i774, 2019, Oxford University Press
5. Filomena D, Cimino S, Maestrini V, Petronilli V, Cantisani D, Neccia M, et al. P795 Intraventricular fluid patterns during dobutamine stress echo in patients with significant coronary stenosis, *European Heart Journal - Cardiovascular Imaging*, Volume 21, Issue Supplement_1, January 2020, jez319.451, <https://doi.org/10.1093/ehjci/jez319.451>
6. Filomena D, Cimino S, Maestrini V, Petronilli V, Cantisani D, Mattiucci C, et al. P1781 Cardio-protective role of dexrazoxane co-administered with anthracyclines: long-term echocardiographic follow-up in adult survivors of pediatric cancer, *European Heart Journal - Cardiovascular Imaging*, Volume 21, Issue Supplement_1, January 2020, jez319.1137, <https://doi.org/10.1093/ehjci/jez319.1137>
7. Cimino S, Birtolo L I, Maestrini V, De Leo F, Vinciguerra M, Filomena D, et al. P1523 Impact of different techniques for mitral valve repair on left ventricular function: a 2D/3D echocardiographic analysis, *European Heart Journal - Cardiovascular Imaging*, Volume 21, Issue Supplement_1, January 2020, jez319.946, <https://doi.org/10.1093/ehjci/jez319.946>
8. Cimino S, Maestrini M, Monosilio S, Luongo F, Neccia M, Birtolo L I, Petronilli V, Cantisani D, Salvi N, Filomena D, et al. P1365 Different response of myocardial contractility by layer following acute pressure unloading after transcatheter aortic valve implantation, *European Heart Journal - Cardiovascular Imaging*, Volume 21, Issue Supplement_1, January 2020, jez319.800, <https://doi.org/10.1093/ehjci/jez319.800>
9. Cimino S, Maestrini V, Monosilio S, Luongo F, Neccia M, Birtolo L I, Petronilli V, Salvi N, Cantisani D, Filomena D, et al. P1752 Prognostic role of Multilayer Strain Speckle Tracking Echocardiography in patients with severe aortic stenosis treated with Transcatheter Aortic Valve Implantation, *European Heart Journal - Cardiovascular Imaging*, Volume 21, Issue Supplement_1, January 2020, jez319.1111, <https://doi.org/10.1093/ehjci/jez319.1111>
10. Prospero S, Birtolo L I, Yarden Revivo M, Monosilio S, Cimino S, Filomena D, et al. 288 The effects of cardiovascular diseases and treatment on clinical course of hospitalized COVID-19 patients, *European Heart Journal Supplements*, Volume 23, Issue Supplement_G, December 2021, suab135.040, <https://doi.org/10.1093/eurheartj/suab135.040>
11. Monosilio S, Filomena D, Luongo F, Neccia M, Sannino M, Birtolo L I, Cimino S, Benedetti G, Tonti G, Pedrizzetti G, Fedele F, Maestrini V, Agati L, 511 Cardiovascular remodelling during sacubitril/valsartan therapy in patients with heart failure and reduced ejection fraction, *European Heart Journal Supplements*, Volume 23, Issue Supplement_G, December 2021, suab132.039, <https://doi.org/10.1093/eurheartj/suab132.039>
12. Birtolo L I, Prospero S, Monosilio S, Cimino S, Filomena D, et al. 282 Follow-up of hospitalized COVID-19 survivors: assessment of short- and long-term cardiovascular sequelae after SARS-CoV-2 infection, *European Heart Journal Supplements*, Volume 23, Issue Supplement_G, December 2021, suab135.039, <https://doi.org/10.1093/eurheartj/suab135.039>
13. Figliozzi S, Georgiopoulos G, Aquaro G D, Bauer K, Monti L, Filomena D, Pica S, Censi S, Lopez P, Quattrocchi G, Servato M L, Schwitzer J, Andreini D, Bogaert J, Masci P G, Late gadolinium enhancement predicts adverse clinical outcome in patients with mitral valve prolapse/mitral annulus disjunction, *European Heart Journal*

- Cardiovascular Imaging, Volume 22, Issue Supplement_2, June 2021, jeab090.048, <https://doi.org/10.1093/ehjci/jeab090.048>

14. Filomena D, Cimino S, Monosilio S, Birtolo L I, Galea N, Francone M, Mancuso G, Riccio F, Pierucci N, Pedrizzetti G, Tonti G, Fedele F, Maestrini V, Agati L. Misalignment of hemodynamic forces in the left ventricle is associated with adverse remodeling following STEMI, European Heart Journal - Cardiovascular Imaging, Volume 22, Issue Supplement_1, January 2021, jeaa356.283, <https://doi.org/10.1093/ehjci/jeaa356.283>
15. Monosilio S, Filomena D, Cimino S, Neccia M, Luongo F, Mariani M, Birtolo L I, Benedetti G, Fedele F, Maestrini V, Agati L. Improvement of left ventricular systolic performance during sacubitril/valsartan in a cohort of patients with heart failure and reduced ejection fraction, European Heart Journal - Cardiovascular Imaging, Volume 22, Issue Supplement_1, January 2021, jeaa356.157, <https://doi.org/10.1093/ehjci/jeaa356.157>

ALLEGATI

Dati personali Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

Data

f.to Domenico Filomena

17/08/2023

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000)

Il sottoscritto Domenico Filomena, ai sensi e per gli effetti degli articoli 46 e 47 e consapevole delle sanzioni penali previste dall'articolo 76 del D.P.R. 28 dicembre 2000, n. 445 nelle ipotesi di falsità in atti e dichiarazioni mendaci, dichiara che le informazioni riportate nel presente curriculum vitae, redatto in formato europeo, corrispondono a verità.

Data

f.to Domenico Filomena

17/08/2023