

# Maria Beatrice Musumeci

## Curriculum Vitae

### Part I – General Information

<b>Full Name</b>	<b>MARIA BEATRICE MUSUMECI</b>
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### Part II – Education

2001: Doctor of Medicine (MD) Degree, Faculty of Medicine, Sapienza University of Rome, final grade: 110/110 cum laude.

2005: Clinical Fellowship in Cardiology, 2<sup>nd</sup> Faculty of Medicine, Sapienza University of Rome, finale grade: 70/70 cum laude

2009-2014: Acute Cardiac Care Certification of the European Society of Cardiology

2017: Master Degree in “Clinical Competence in Cardiac Intensive Care”, University of Florence

### Part III – Appointments

2006 – present: Cardiologist, MD - Cardiac Intensive Care Unit at Azienda Ospedaliera Sant’Andrea, Sapienza University

2007 – present: Assistant professor of Cardiology - Department of Clinical and Molecular Medicine, Sapienza University, Cardiology, St. Andrea Hospital, Rome, IT

2018 – present: member of Academic Board of PhD “Arterial Hypertension and Vascular Biology”, Department of Precision and Translational Medicine, Sapienza University

### Part IV – Teaching experience

2006 – 2012: teaching of Cardiology in the Graduate Course of Cardio-Circulatory Physiopathology and Cardiovascular Perfusion, Sapienza University, Faculty of Medicine and Psychology

2008 – present: teaching of Cardiology in the Undergraduate Course of Medicine and Surgery, Sapienza University, Faculty of Medicine and Psychology

2008 – present: teaching of Cardiac Critical Care in the Graduate Residency Course of Cardiology, Sapienza University, Faculty of Medicine and Psychology

2010 – 2019: teaching in Master in Echocardiography, Sapienza University, Department of Clinical and Molecular Medicine

2012 – present: teaching in Master in Nursing in Cardiac Critical Care, Sapienza University, Department of Clinical and Molecular Medicine

2015 – present: teaching of Cardiology in the Graduate Course of Technical Ambiental Prevention, Sapienza University, Faculty of Medicine and Psychology

2015 – present: director of Master in Nursing in Cardiac Critical Care, Sapienza University, Department of Clinical and Molecular Medicine

2022 – present: teaching of Cardiology in the Graduate Course of Nursing, Sapienza University, Faculty of Medicine and Psychology, Ospedale Fatebenefratelli San Pietro, Rome

## **Part V - Society memberships, Awards and Honors**

### **Awards**

2001-2002: Research Grant, “Genetics of Dilated Cardiomyopathy”

2005: Italian Society of Arterial Hypertension National Grant, “Volume Overload and Neurohormonal alterations in Hypertensive Patients”

2006-2007: Fondazione Valentino Onlus Grant for research purpose in the field of Juvenile Sudden Cardiac Death

### **Society memberships**

- Member of Italian Society of Cardiology (SIC)
- Member of Associazione Nazionale Medici Cardiologi Ospedalieri (ANMCO)
- Member of Cardiomyopathies and Pericardial Disease Working Group promoted by the Italian Society of Cardiology

- Member of Myocardial and Pericardial Disease Working Group of the European Society of Cardiology
- Member of Acute Cardiovascular Care Group of the European Society of Cardiology

## **Others**

Speaker and moderator at several Italian and international conferences

Member of Editorial Board of High Blood Pressure and Cardiovascular Prevention Journal

## **Part VI - Funding Information [grants as PI-principal investigator or I-investigator]**

### **Funding requests**

2006: "Effetto dell'eritropoietina sull'estensione dell'infarto miocardico acuto nell'uomo" - PRIN (number of protocol 2006063891\_002) – Component of Research Unit

2007: "Studio della fibrosi nella cardiomiopatia ipertrofica", Sapienza University (cod. [C26F07FW2X](#)) - Component of Research Unit

2008: "Ruolo degli ormoni sessuali nella sindrome di Brugada", Sapienza University (cod. C26F08KSJS) - Component of Research Unit

2008: "Mortalità e storia naturale della cardiomiopatia ipertrofica nei pazienti a basso rischio clinico.", Sapienza University (cod. C26F08TCPX) - Component of Research Unit

2009: "Caratteristiche cliniche e di decorso della cardiomiopatia ipertrofica nei bambini. Studio multicentrico", Sapienza University (cod. C26F099TM3) - Component of Research Unit

2009 "Identificazione di nuove mutazioni per la cardiomiopatia in una popolazione Italiana grazie ad un sequenziamento di nuova generazione", Italian Ministry of Health - Component of Research Unit

2010: "Genetic Profiling for the Prediction of Life-Threatening Arrhythmias in Heart Failure", Sapienza University (cod. [C26A10XTWY](#)) - Component of Research Unit

2011: "Genetic Basis of Ventricular Arrhythmias in Heart Failure: focus on ion channel gene variants and a comparative analysis of extreme phenotypes.", Sapienza University (cod. [C26A11CC2B](#)) - Component of Research Unit

2012: "Translational effects of a molecular variant of the Atrial natriuretic peptide gene: a contributory role in the pathogenesis of acute coronary events", Sapienza University (cod. [C26A12472B](#)) - Component of Research Unit

2012: "Diagnostica genetica di cardiomiopatie primitive ipertrofiche, dilatative e aritmiche", Project to acquire heavy equipment funded by Sapienza University (cod. [C26G12FSTH](#)) - Component of Research Unit

2013: "Improving Sudden Death Risk Stratification in Hypertrophic Cardiomyopathy", Sapienza University (cod. [C26A13XKFJ](#)) - Component of Research Unit

2014: "Prevalenza dell'amiloidosi da transtiretina in una popolazione consecutiva di pazienti affetti da cardiomiopatia ipertrofica a esordio tardivo.", Sapienza University (cod. C26A148PFL) – Responsible of Research Unit

2015: "Assessing cardiac fibrosis as a substrate of sudden death in hypertrophic cardiomyopathy through signal averaged electrocardiography, QRS fragmentation, and microvolt T-wave alternans", Sapienza University (cod. C26A15SM2T) - Component of Research Unit

2022: "Insights into the Genetic basis of Left Ventricular Hypertrophy in Hypertensive Heart disease", Sapienza University (cod. RP1221816C6CBED0) – Responsible of Research Unit

### **Multicentric international randomized clinical trials**

- "Safety and Efficacy of Aliskiren in Post Myocardial Infarction Patients (ASPIRE)", CSPP100A2340, NCT00414609, sponsor: Novartis – Investigator
- "A Comparison of Ticagrelor (AZD6140) and Clopidogrel in Patients With Acute Coronary Syndrome", PLATO, NCT00391872, sponsor: Astra Zeneca – Investigator
- "Thrombin-Receptor Antagonist Vorapaxar in Acute Coronary Syndromes", TRA-CER, NCT00527943, sponsor: Merck Sharp & Dohme Corp.- Investigator
- "A 2 Year Extension to a 36-Week, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Aliskiren on the Prevention of Left Ventricular Remodeling in High Risk Post-Acute Myocardial Infarction Patients When Added to Optimized Standard Therapy", CSPP100A3440E1, sponsor: Novartis – Investigator
- "A Comparison of Prasugrel and Clopidogrel in Acute Coronary Syndrome Subjects", TRILOGY, NCT00699998, sponsor: Eli Lilly and Company; Daiichi Sankyo Co., Ltd.; Duke Clinical Research Institute – Investigator
- "Examining Outcomes in Subjects With Acute Coronary Syndrome: Vytorin (Ezetimibe/Simvastatin) vs Simvastatin", IMPROVE-IT, P04103, NCT00202878, sponsor: Merck Sharp & Dohme Corp.- Investigator

- "Cardiovascular Outcomes Study of Alogliptin in Patients With Type 2 Diabetes and Acute Coronary Syndrome", EXAMINE, SYR-322\_402, NCT00968708, sponsor: Takeda – Investigator
- "Six Months Efficacy and Safety of Aliskiren Therapy on Top of Standard Therapy, on Morbidity and Mortality in Patients With Acute Decompensated Heart Failure", ASTRONAUT, NCT00894387, sponsor: Novartis. – Investigator
- "Effect of Otamixaban Versus Unfractionated Heparin + Eptifibatide in Patients With Unstable Angina/Non ST Elevation Myocardial Infarction Undergoing Early Invasive Strategy", TAO, EFC6204, NCT01076764, sponsor: Sanofi – Investigator
- "Cardiovascular Risk Reduction Study (Reduction in Recurrent Major CV Disease Events) ", CANTOS, CACZ885M2301, NCT01327846, sponsor: Novartis Pharmaceuticals – Coordinator
- EmploYEd Antithrombotic Therapies in Patients With Acute Coronary Syndromes HOspitalized in iTalian Coronary Care Units", EYESHOT, NCT02015624, sponsor: Heart Care Foundation – Investigator
- "A Phase 2b Study of CSL112 in Subjects With Acute Myocardial Infarction", AEGIS-1, CSLCT-HDL-12-77 , NCT02108262, sponsor: CSL Behring – Study Coordinator
- "The Evaluation of Bococizumab (PF-04950615;RN316) in Reducing the Occurrence of Major Cardiovascular Events in High Risk Subjects ", SPIRE-1, B1481022 , NCT01975376 , sponsor: Pfizer. – Study Coordinator
- " Novel Markers of Prognosis in Hypertrophic Cardiomyopathy", HCMR, promosso da University of Virginia, National Heart, Lung, and Blood Institute (NHLBI), Oxford University Hospitals NHS Trust – Study Coordinator
- "A Study of ARRAY-371797 in Patients With Symptomatic Dilated Cardiomyopathy Due to a Lamin A/C Gene Mutation", ARRAY-797-301, NCT03439514 , sponsor: Array BioPharma – Principal Investigator
- IONIS "A Phase 3 Global, Double-Blind, Randomized, Placebo-Controlled Study to Evaluate the Efficacy and Safety of ION- 682884 in Patients with Transthyretin-Mediated Amyloid Cardiomyopathy (ATTR CM)" – Principal Investigator
- CY6022 "An Open-Label Study of CK-3773274 for Patients with Symptomatic Hypertrophic Cardiomyopathy (HCM) and Left Ventricular Outflow Tract Obstruction" - Principal Investigator

## **Part VII – Research Activities**

<b>Keywords</b>	<b>Brief Description</b>
<b>Cardiomyopathies</b>	<p>Participation in multicentric international and national studies about molecular basis and clinical course of hypertrophic cardiomyopathy with indexed publications</p> <p>Clinical activity in Regional Referral Center of Cardiomyopathies at Sant'Andrea Hospital, Sapienza University</p> <p>Specific interest in phenocopies of hypertrophic cardiomyopathy</p>
<b>Amyloidosis</b>	<p>Participation in multicentric international and national studies about natural history and management of cardiac amyloidosis with indexed publications.</p> <p>Principal investigator in multicentric international clinical trial about new drug in the treatment of ATTR cardiac amyloidosis</p> <p>Activation of the compassionate program of Tafamidis at Sant'Andrea Hospital, Rome, for patients with ATTR cardiac amyloidosis</p> <p>Clinical activity as Cardiologist in Regional Referral Center of Amyloidosis at Sant'Andrea Hospital, Sapienza University</p>
<b>Cardiac Intensive Care</b>	<p>Main interests are pathogenesis of acute coronary events, new antiplatelet drugs in myocardial infarction, treatment approach for elderly and young patients.</p> <p>Participation as coordinator in multicentric international clinical trials regarding new drugs for the treatment of acute myocardial infarction.</p> <p>Clinical activity as Cardiologist in Cardiac Intensive Care at Sant'Andrea Hospital, Sapienza University</p>
<b>Takotsubo syndrome</b>	<p>Main interests are genetic basis and clinical course of patients with Takotsubo syndrome.</p> <p>Participation in multicentric international registries (Deutch-Italian GEIST registry) with indexed publications.</p>

**Part VIII – Summary of Scientific Achievements**

**Number of papers:** 118

Number of papers in last 5 years: 60

**Number of citations:** 1647

Mean number of citations/publication: 14.07

Number of citations in last 5 years: 408

**H index:** 20

H index last 5 years: 12

**Total Impact Factor:** 496.51

Mean Impact Factor: 4.24

Impact factor last 5 years: 355.26

Mean impact factor last 5 years: 5.92

## Part IX– Selected Publications

1: Stiermaier T, Walliser A, El-Battrawy I, Pätz T, Mezger M, Rawish E, Andrés M, Almendro-Delia M, Martinez-Sellés M, Uribarri A, Pérez-Castellanos A, Guerra F, Novo G, Mariano E, **Musumeci MB**, Arcari L, Cacciotti L, Montisci R, Akin I, Thiele H, Brunetti ND, Núñez-Gil IJ, Santoro F, Eitel I. Happy Heart Syndrome: Frequency, Characteristics, and Outcome of Takotsubo Syndrome Triggered by Positive Life Events. *JACC Heart Fail.* **2022** Jul;10(7):459-466. doi: 10.1016/j.jchf.2022.02.015. Epub 2022 May 4. PMID: 35772855.

**IF: 12.54 – citations: 8**

2: Cappelli F, Cipriani A, Russo D, Tini G, Zampieri M, Zocchi C, Sinigiani G, Tasseti L, Licchelli L, Perfetto F, Autore C, **Musumeci MB**. Prevalence and prognostic role of nonsustained ventricular tachycardia in cardiac amyloidosis. *Amyloid.* **2022** Sep;29(3):211-212. doi: 10.1080/13506129.2022.2060073. Epub 2022 Apr 22. PMID: 35451897.

**IF: 6.57 – citations: 0**

3: Pelliccia A, Borrazzo C, Caselli S, Lemme E, **Musumeci MB**, Maestrini V, Francia P, Russo D, Pelliccia M, Olivotto I, Autore C. Neither Athletic Training nor Detraining Affects LV Hypertrophy in Adult, Low-Risk Patients With HCM. *JACC Cardiovasc Imaging.* **2022** Jan;15(1):170-171. doi: 10.1016/j.jcmg.2021.08.012. Epub 2021 Oct 13. PMID: 34656472.

**IF: 16.05 – citations: 3**

4: Arcari L, Núñez Gil IJ, Stiermaier T, El-Battrawy I, Guerra F, Novo G, **Musumeci B**, Cacciotti L, Mariano E, Caldarola P, Parisi G, Montisci R, Vitale E,



Sclafani M, Volpe M, Corbi-Pasqual M, Martinez-Selles M, Almendro-Delia M, Sionis A, Uribarri A, Akin I, Thiele H, Brunetti ND, Eitel I, Santoro F. Gender Differences in Takotsubo Syndrome. *J Am Coll Cardiol.* **2022** May 31;79(21):2085-2093. doi: 10.1016/j.jacc.2022.03.366. PMID: 35618345; PMCID: PMC8972425.

**IF: 27.20 – citations: 6**

5: Porcari A, Rossi M, Cappelli F, Canepa M, **Musumeci B**, Cipriani A, Tini G, Barbati G, Varrà GG, Morelli C, Fumagalli C, Zampieri M, Argirò A, Vianello PF, Sessarego E, Russo D, Sinigiani G, De Michieli L, Di Bella G, Autore C, Perfetto F, Rapezzi C, Sinagra G, Merlo M. Incidence and risk factors for pacemaker implantation in light-chain and transthyretin cardiac amyloidosis. *Eur J Heart Fail.* **2022** Jul;24(7):1227-1236. doi: 10.1002/ejhf.2533. Epub 2022 May 16. PMID: 35509181.

**IF: 18.17 – citations: 6**

6: Merlo M, Pagura L, Porcari A, Cameli M, Vergaro G, **Musumeci B**, Biagini E, Canepa M, Crotti L, Imazio M, Forleo C, Cappelli F, Perfetto F, Favale S, Di Bella G, Dore F, Girardi F, Tomasoni D, Pavasini R, Rella V, Palmiero G, Caiazza M, Carella MC, Igoren Guaricci A, Branzi G, Caponetti AG, Satri G, La Malfa G, Merlo AC, Andreis A, Bruno F, Longo F, Rossi M, Varrà GG, Saro R, Di Lenno L, De Carli G, Giacomini E, Arzilli C, Limongelli G, Autore C, Olivotto I, Badano L, Parati G, Perlini S, Metra M, Emdin M, Rapezzi C, Sinagra G. Unmasking the prevalence of amyloid cardiomyopathy in the real world: results from Phase 2 of the AC-TIVE study, an Italian nationwide survey. *Eur J Heart Fail.* **2022** Aug;24(8):1377-1386. doi: 10.1002/ejhf.2504. Epub 2022 May 10. PMID: 35417089.

**IF: 18.17 – citations: 15**

7: **Musumeci MB**, Spirito P, Conte MR, Lillo R, Devoto E, Francia P, Russo D, Volpe M, Boni L, Autore C. Clinical Course of Pregnancy and Long-Term Follow-Up After Delivery in Hypertrophic cardiomyopathy. *J Am Coll Cardiol.* **2021** Mar 9;77(9):1262-1264. doi: 10.1016/j.jacc.2020.12.055. PMID: 33663744. –

**IF: 27.20 – citations: 2**

8: Cappelli F, Tini G, Russo D, Emdin M, Del Franco A, Vergaro G, Di Bella G, Mazzeo A, Canepa M, Volpe M, Perfetto F, Autore C, Di Mario C, Rapezzi C, **Musumeci MB**. Arterial thrombo-embolic events in cardiac amyloidosis: a look beyond atrial fibrillation. *Amyloid.* **2020** Sep 28:1-7. doi: 10.1080/13506129.2020.1798922. Epub ahead of print. PMID: 32981389. –

**IF: 7.14 – citations: 16**

9: Pelliccia A, Caselli S, Pelliccia M, **Musumeci MB**, Lemme E, Di Paolo FM, Maestrini V, Russo D, Limite L, Borrazzo C, Autore C. Clinical outcomes in adult athletes with hypertrophic cardiomyopathy: a 7-year follow-up study. *Br J Sports Med.* **2020** Aug;54(16):1008-1012. doi: 10.1136/bjsports-2019-100890. Epub 2020 Jun 12. PMID: 32532845.

**IF: 13.8 - citations: 16**

10: **Musumeci MB**, Cappelli F, Russo D, Tini G, Canepa M, Milandri A, Bonfiglioli R, Di Bella G, My F, Luigetti M, Grandis M, Autore C, Perlini S, Perfetto F, Rapezzi C. Low Sensitivity of Bone Scintigraphy in Detecting Phe64Leu Mutation- Related Transthyretin Cardiac Amyloidosis. *JACC Cardiovasc Imaging.* **2020** Jun;13(6):1314-1321. doi: 10.1016/j.jcmg.2019.10.015. Epub 2019 Dec 18. PMID: 31864976.

**IF: 14.80 - citations: 60**

11: Russo D, Limite LR, Arcari L, Autore C, **Musumeci MB**. Predicting the Unpredictable: How to Score the Risk of Stroke in Cardiac Amyloidosis? **J Am Coll Cardiol.** 2019 Jun 11;73(22):2910-2911. doi: 10.1016/j.jacc.2019.02.078. PMID: 31171104.

**IF: 20.58 – citations: 7**

12: Canepa M, Tini G, **Musumeci B**, Cappelli F, Milandri A, Mussinelli R, Autore C, Perfetto F, Rapezzi C, Perlini S. Real-world versus trial patients with transthyretin amyloid cardiomyopathy. **Eur J Heart Fail.** 2019 Nov;21(11):1479-1481. doi: 10.1002/ejhf.1563. Epub 2019 Jul 24. PMID: 31339212.

**IF: 11.627 – citations:15**

## Part X– All Publications

1. Rubattu S, Stanzione R, Gigante B, Bagalino A, Musumeci B, Volpe M. Genetic susceptibility to cerebrovascular accidents. *J Cardiovasc Pharmacol.* 2001 Nov;38 Suppl 2:S71-4. doi: 10.1097/00005344-200111002-00017. PubMed PMID: 11811383.
2. De Paolis P, Porcellini A, Savoia C, Lombardi A, Gigante B, Frati G, Rubattu S, Musumeci B, Volpe M. Functional cross-talk between angiotensin II and epidermal growth factor receptors in NIH3T3 fibroblasts. *J Hypertens.* 2002 Apr;20(4):693-9. doi: 10.1097/00004872-200204000-00027. PubMed PMID: 11910305.
3. Volpe M, Musumeci B, De Paolis P, Savoia C, Morganti A. Angiotensin II AT2 receptor subtype: an uprising frontier in cardiovascular disease?. *J Hypertens.* 2003 Aug;21(8):1429-43. doi: 10.1097/00004872-200308000-00001. Review. PubMed PMID: 12872031.
4. Cosentino F, Francia P, Musumeci B, De Siati L, Rao MA, De Luca N, Balla C, De Sensi F, Volpe M. Nitric oxide release is impaired in hypertensive individuals with familial history of stroke. *Am J Hypertens.* 2006 Dec;19(12):1213-6. doi: 10.1016/j.amjhyper.2006.06.002. PubMed PMID: 17161765.
5. Conti E, Musumeci MB, Assenza GE, Quarta G, Autore C, Volpe M. Recombinant human insulin-like growth factor-1: a new cardiovascular disease treatment option?. *Cardiovasc Hematol Agents Med Chem.* 2008 Oct;6(4):258-71. doi: 10.2174/187152508785909456. Review. PubMed PMID: 18855638.
6. Gurgo AM, Ciccone AM, D'Andrilli A, Ibrahim M, Musumeci B, Quarta G, Saponaro A, Rendina EA, Volpe M. Plasma NT-proBNP levels and the risk of atrial fibrillation after major lung resection. *Minerva Cardioangiol.* 2008 Dec;56(6):581-5. PubMed PMID: 19092733.
7. Sciarretta S, Pontremoli R, Rosei EA, Ambrosioni E, Costa V, Leonetti G, Pessina AC, Trimarco B, Francione V, Tocci G, Musumeci MB, De Siati L, Ferrucci A, Deferrari G, Volpe M. Independent association of ECG abnormalities with microalbuminuria and renal damage in hypertensive patients without overt cardiovascular disease: data from Italy-Developing Education and awareness on MicroAlbuminuria in patients with hypertensive Disease study. *J Hypertens.* 2009 Feb;27(2):410-7. doi: 10.1097/hjh.0b013e32831bc764. PubMed PMID: 19226711.
8. Assenza GE, Spirito P, Musumeci MB, Lombardi M, Quarta G, Autore C. Severe left ventricular wall thinning and extensive fibrosis without evolution to end stage disease in a patient with hypertrophic cardiomyopathy. *J Am Soc Echocardiogr.* 2009 Oct;22(10):1196.e1-2. doi: 10.1016/j.echo.2009.04.011. PubMed PMID: 19801310.
9. Andreotti F, Agati L, Conti E, Santucci E, Rio T, Tarantino F, Natale L, Berardi D, Mattatelli A, Musumeci B, Bonomo L, Volpe M, Crea F, Autore C. Update on phase II studies of erythropoietin in acute myocardial infarction. Rationale and design of Exogenous erythroPoietin in Acute Myocardial Infarction: New Outlook aNd Dose

Association Study (EPAMINONDAS). *J Thromb Thrombolysis*. 2009 Nov;28(4):489-95. doi: 10.1007/s11239-009-0363-x. PubMed PMID: 19533304.

10. Autore C, Pagannone E, Re F, Romeo D, Musumeci B, Baratta P, Marino L, Cauti FM, Zachara E. [Cardiologic assessment of surviving family members of young victims of sudden cardiac death: diagnostic yield]. *G Ital Cardiol (Rome)*. 2010 Jul-Aug;11(7-8):557-65. Review. PubMed PMID: 21033332.
11. Mastromarino V, Volpe M, Musumeci MB, Autore C, Conti E. Erythropoietin and the heart: facts and perspectives. *Clin Sci (Lond)*. 2011 Jan;120(2):51-63. doi: 10.1042/CS20100305. Review. PubMed PMID: 20929439.
12. Musumeci B, Spirito P, Parodi MI, Assenza GE, Autore C. Congenital accessory mitral valve tissue anomaly in a patient with genetically confirmed hypertrophic cardiomyopathy. *J Am Soc Echocardiogr*. 2011 May;24(5):592.e5-6. doi: 10.1016/j.echo.2010.08.006. Epub 2010 Sep 16. PubMed PMID: 20843659.
13. Conti E, Musumeci MB, De Giusti M, Dito E, Mastromarino V, Autore C, Volpe M. IGF-1 and atherothrombosis: relevance to pathophysiology and therapy. *Clin Sci (Lond)*. 2011 May;120(9):377-402. doi: 10.1042/CS20100400. Review. PubMed PMID: 21244364.
14. Musumeci MB, Spirito P, Cauti FM, Autore C. High risk for sudden death identified by electrocardiographic loop recording in a patient with hypertrophic cardiomyopathy without major risk factors. *Am J Cardiol*. 2011 May 15;107(10):1558-60. doi: 10.1016/j.amjcard.2011.01.034. Epub 2011 Mar 17. PubMed PMID: 21420061.
15. Roncarati R, Latronico MV, Musumeci B, Aurino S, Torella A, Bang ML, Jotti GS, Puca AA, Volpe M, Nigro V, Autore C, Condorelli G. Unexpectedly low mutation rates in beta-myosin heavy chain and cardiac myosin binding protein genes in Italian patients with hypertrophic cardiomyopathy. *J Cell Physiol*. 2011 Nov;226(11):2894-900. doi: 10.1002/jcp.22636. PubMed PMID: 21302287; PubMed Central PMCID: PMC3229838.
16. Elliott P, Baker R, Pasquale F, Quarta G, Ebrahim H, Mehta AB, Hughes DA. Prevalence of Anderson-Fabry disease in patients with hypertrophic cardiomyopathy: the European Anderson-Fabry Disease survey. *Heart*. 2011 Dec;97(23):1957-60. doi: 10.1136/heartjnl-2011-300364. Epub 2011 Sep 2. PubMed PMID: 21890869.
17. Perli E, Giordano C, Tuppen HA, Montopoli M, Montanari A, Orlandi M, Pisano A, Catanzaro D, Caparrotta L, Musumeci B, Autore C, Morea V, Di Micco P, Campese AF, Leopizzi M, Gallo P, Francisci S, Frontali L, Taylor RW, d'Amati G. Isoleucyl-tRNA synthetase levels modulate the penetrance of a homoplasmic m.4277T>C mitochondrial tRNA(Ile) mutation causing hypertrophic cardiomyopathy. *Hum Mol Genet*. 2012 Jan 1;21(1):85-100. doi: 10.1093/hmg/ddr440. Epub 2011 Sep 26. PubMed PMID: 21945886.

18. Caselli S, Autore C, Serdoz A, Santini D, Musumeci MB, Pelliccia A, Agati L. Three-dimensional echocardiographic characterization of patients with left ventricular noncompaction. *J Am Soc Echocardiogr.* 2012 Feb;25(2):203-9. doi: 10.1016/j.echo.2011.11.012. Epub 2011 Dec 9. PubMed PMID: 22154390.
19. Mariani S, Musumeci B, Basciani S, Fiore D, Francia P, Persichetti A, Volpe M, Autore C, Moretti C, Ulisse S, Gnessi L. Lack of Influence of the Androgen Receptor Gene CAG-Repeat Polymorphism on Clinical and Electrocardiographic Manifestations of the Brugada Syndrome in Man. *Clin Med Insights Cardiol.* 2012;6:145-52. doi: 10.4137/CMC.S10553. Epub 2012 Oct 31. PubMed PMID: 23136466; PubMed Central PMCID: PMC3489086.
20. Musumeci B, Saponaro A, Pagannone E, Proietti G, Mastromarino V, Conti E, Tubaro M, Volpe M, Autore C. Simultaneous Takotsubo syndrome in two sisters. *Int J Cardiol.* 2013 May 25;165(3):e49-50. doi: 10.1016/j.ijcard.2012.11.016. Epub 2012 Nov 22. PubMed PMID: 23182002.
21. Francia P, Adduci C, Santini D, Musumeci B, Tocci G. New oral anticoagulants in non-valvular atrial fibrillation. *High Blood Press Cardiovasc Prev.* 2013 Jun;20(2):53-60. doi: 10.1007/s40292-013-0011-6. Epub 2013 May 8. Review. PubMed PMID: 23653173.
22. Conti E, Romiti A, Musumeci MB, Passerini J, Zezza L, Mastromarino V, D'Antonio C, Marchetti P, Paneni F, Autore C, Volpe M. Arterial thrombotic events and acute coronary syndromes with cancer drugs: are growth factors the missed link?: what both cardiologist and oncologist should know about novel angiogenesis inhibitors. *Int J Cardiol.* 2013 Sep 10;167(6):2421-9. doi: 10.1016/j.ijcard.2013.01.052. Epub 2013 Feb 12. Review. PubMed PMID: 23414744.
23. Conti E, Zezza L, Ralli E, Caserta D, Musumeci MB, Moscarini M, Autore C, Volpe M. Growth factors in preeclampsia: a vascular disease model. A failed vasodilation and angiogenic challenge from pregnancy onwards?. *Cytokine Growth Factor Rev.* 2013 Oct;24(5):411-25. doi: 10.1016/j.cytogfr.2013.05.008. Epub 2013 Jun 22. Review. PubMed PMID: 23800655.
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Roma 9/2/2023