

Curriculum Vitae

Personal information

First name, Surname: Andrada-Camelia, Guta

Work experience

Occupation: Specialist in Cardiology

Date: June 2020-present

Workplace: Victor Babes Private Medical Clinic

Address: 281 Mihai Bravu St., Bucharest, 030303

Occupation: Resident physician

Date: January 2015 - April 2020

Workplace: "Prof. Dr. C. C. Iliescu" Institute for Emergency Cardiovascular Diseases

Address: 258 Fundeni St., Bucharest, 022328, Romania

Education and training

Occupation: PhD student

Date: October 2016-present

Research project title: *Atrio-ventricular valve insufficiency: a comparative analysis of pathophysiological mechanisms of tricuspid functional regurgitation*

Coordinator: Bartos Daniela, MD PhD

Institution: "Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania

Degree: Doctor in medical science

Dates: 2008 - 2014

Research project title: *Association between beta-1adrenergic receptor polymorphism and beta-blocker therapy in cardiovascular diseases*

Coordinator: Andrei Anghel, MD PhD, Catalin Marian, MD PhD

Institution: "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania

Personal skills

Mother language: Romanian

Other languages: English (proficient user level), Spanish, Italian (basic level)

Job-related skills:

- Synthesis and analysis of scientific knowledge studied during residency program and university for clinical application (cardiology consultation and on call emergencies);
- Basic and advanced echocardiographic techniques for clinical and research practice (use of different software platforms from different vendors, 3D acquisition and post processing);
- Work in basic research and biochemistry laboratories (use of different apparatuses for the purpose of research, taking biological samples, extraction of nucleic acids, quantification of DNA, amplification through PCR technique, identification of mutations through electrophoresis agarose gel, taking images of samples under UV radiation);
- Elaboration of a research project in the medical field, including conceiving of a consent form, setting of a criteria group in order to include/exclude subjects of a sample under examination, interpretation of clinical study's results;
- Research interests: functional tricuspid and mitral regurgitation, right heart pathologies, mitral valve prolapse, congenital heart disease.

Digital competence:

- Use of different specific software meant to collect, manage and process data in healthcare field;
- Work with software designated to graphic processing of digital images;
- Use of MS Office package (MS word, MS excel, MS power point);
- Good command of reporting software (ComPACS), statistical software (STATA), digital reference manager software (EndNote).

Research fellowship and projects

Dates: February 2020 - March 2020

Research project title: *Pathophysiology of Functional Tricuspid and Mitral Regurgitation by 3D-Echocardiography*

Coordinator: Luigi P. Badano, MD PhD

Institution: Bicocca University of Milan, Milan, Italy

Dates: September 2017 - August 2018

Research project title: *Pathophysiology of Functional Tricuspid and Mitral Regurgitation by 3D-Echocardiography*

Coordinator: Luigi P. Badano, MD PhD

Institution: University of Padua, Department of Cardiac, Thoracic and Vascular Sciences, Padua, Italy and Bicocca University of Milan, Milan, Italy

Dates: May 2018 - present

Collaborator for preclinical in-vivo tests on Epygon valve prosthesis including the echocardiographic guidance and hemodynamic assessment of valve prosthesis

Epygon Chief Technical Officer: Enrico Pasquino

Dates: August 2011 - September 2011

Research project title: *Molecular modification of factor IX enzymatic properties*

Institution: Johann Wolfgang Goethe University, Frankfurt, Germany

Attended courses and certifications

1. EACVI Level 1 Certification in Cardiac Magnetic Resonance, May 2019.
2. Cardiac MRI – Intensive Course, 26 February – 2 March 2018, Universita degli Studi di Padova, Dipartamento di Scienze Cardiologiche, Padua, Italy.
3. Three-dimensional Echocardiography – Intensive Course, 6-10 November 2017, Universita degli Studi di Padova, Dipartamento di Scienze Cardiologiche, Padua, Italy.
4. EACVI Teaching Course on Transthoracic 2D and 3D Echocardiography, 20-22 October 2017, European Association of Cardiovascular Imaging and European Society of Cardiology, Sophia Antipolis.
5. 3D Echo 360, Implementing 3D-echocardiography to improve clinical practice, 21-23 September 2017, Universita degli Studi di Padova, Dipartamento di Scienze Cardiologiche, Padua, Italy.
6. “Methods and Techniques for Non-Invasive Assessment of Peripheral Circulation”, 12-16 June 2017, National and Kapodistrian University of Athens.
7. Clinical Electrocardiography, 23 May-25 June 2016, “Iuliu Hateganu” University of Medicine and Pharmacy, Cluj-Napoca, Romania.

Conferences and seminars

1. Invited speaker at 3D Echo360, European Edition, September 2019.
2. Invited speaker at the 57th Romanian National Congress of Cardiology, September 2018.

Honors and awards

2017- Winner of Romanian Society of Cardiology Research Grant with the project “*Pathophysiology of Functional Tricuspid and Mitral Regurgitation by 3D-Echocardiography*”

2018- Winner of a 6-month research grant from the University of Padua, Department of Cardiac, Thoracic and Vascular Sciences, Padua, Italy, with the project “*Optimization of ICD implants using advanced imaging techniques in patients with reduced left ventricular ejection fraction*”

Memberships: member of Romanian Society of Cardiology, European Society of Cardiology, EACVI Silver Member

Published papers

1. **A. C. Guta**, Luigi P. Badano, Michele Tomaselli, Diana Mihalcea, Daniela Bartos, Gianfranco Parati, Denisa Muraru. The pathophysiological link between right atrial remodeling and functional tricuspid

- regurgitation in patients with atrial fibrillation. A three-dimensional echocardiography study. JASE Am Soc Echocardiogr 2021 Jan 10;S0894-7317(21)00006-7. Doi: 10.1016/j.echo.2021.01.004.
2. D. Muraru, K. Addetia, **A.C. Guta**, R.C. Ochoa-Jimenez, D. Genovese, F. Veronesi, C. Bassi, S. Iliceto, L.P. Badano R.M. Lang. Right atrial volume is a major determinant of tricuspid annulus area in functional tricuspid regurgitation- a three-dimensional echocardiographic study. Eur Heart J Cardiovasc Imaging. DOI: 10.1093/ehjci/jeaa286.
 3. Muraru D, Previtero M, Ochoa-Jimenez RC, **Guta AC**, Figliozzi S, Gregori D, Bottigliengo D, Parati G, Badano LP. Prognostic validation of partition values for quantitative parameters to grade functional tricuspid regurgitation severity by conventional echocardiography. Eur Heart J Cardiovasc Imaging. 2020;in press. DOI: 10.1093/ehjci/jez233.
 4. M. Scorsin, P. Aruta, **A.C. Guta**, E. Pasquino, L. P. Badano. Novel transcatheter mitral prosthesis designed to preserve physiological ventricular flow dynamics. Accepted for publication The Annals of Thoracic surgery.
 5. Muraru D., Caravita S., **Guta A.C.**, Mihalcea D., Branzi G., Parati G. BLP. Functional Tricuspid Regurgitation and Atrial Fibrillation: Which Comes First, the Chicken or the Egg? CASE Cardiovasc Imaging Case Reports. 2020; 5(4): 458-463. DOI: 10.1016/j.case.2020.04.011.
 6. D. Muraru, **A.C.Guta**, R.C. Ochoa-Jimenez, D.Bartos, P. Aruta, S. Mihaila, B.A.Popescu, S. Iliceto, C. Bassi, L.P. Badano. Functional regurgitation of atrioventricular valves and atrial fibrillation: an elusive pathophysiological link deserving further attention. JASE, 2020 Jan; 33(1):42-53.
 7. L.P. Badano, P. Aruta, K. Nguyen, C. Palermo, A. Baritussio, A. Cecchetto, M. Previtero, S. Figliozzi, D. Genovese, **A.C. Guta**, R.C. Ochoa-Jimenez, D. Muraru. Current clinical applications of three-dimensional echocardiography. 2G Ital Cardiol (Rome) 2019 Dec;20(12):722-735.
 8. **A.C. Guta**, L.P. Badano, R.C. Ochoa-Jimenez, D. Genovese, M. Previtero, S. Civera, A. Ruocco, N. Bettella, G. Parati, D. Muraru. Three-dimensional echocardiography to assess left ventricular geometry and function. December 2019; Expert Review of Cardiovascular Therapy; vol 17, issue 11.
 9. Khalique O.K, Cavalcante J.L., Shah D., **Guta A.C.**, Zhan Y, Muraru D. Multimodality Imaging of the Tricuspid Valve and Right Heart Anatomy. JACC Imaging 2019 Mar;12(3):516-531.
 10. P. Aruta, D. Muraru, **A.C. Guta**, S. Mihaila, N. Ruozzi, C. Palermo, B. Elnegar, S. Iliceto, L.P. Badano. Comparison of mitral annulus geometry between patients with ischemic and non-ischemic functional mitral regurgitation: implications for transcatheter mitral valve implantation. Cardiovascular Ultrasound 2018;16:27.
 11. **A.C. Guta**, R.C. Ochoa-Jimenez, P. Aruta, S. Mihaila Baldea, D. Bartos, B.A. Popescu, L.P. Badano, D. Muraru. The role of three-dimensional echocardiography for the clinical diagnosis and management of mitral valve disease. Romanian Journal of Cardiology 2018, 28:4.
 12. A.M. Balahură, **A. Guta**, V. Mihalcea, E. Weiss, M. Dorobanțu, D. Bartoș, E. Bădilă, G.A. Dan. Pulmonary thromboembolism in an emergency hospital: Are our patients different? Rom J Intern Med, 2-17 decembrie, 1;55(4):237-244. Doi:10.1515/rjim-2017-0026.
 13. **A. Guta**, A. M. Daraban, E. Badilă, D. Bartos. Hypertension and Atrial Fibrillation: the “why?” behind their coexistence. Journal of Hypertension Research, 2016;2(3):100-104.

Chapters published in books

1. K. Addetia, D. Muraru, **A.C. Guta**, R.M. Lang. The normal tricuspid valve. Textbook of three-dimensional echocardiography. ISBN 978-3-030-14032-8
2. J.K. Song, D. Muraru, **A.C. Guta**, L.P. Badano. Functional tricuspid regurgitation. Textbook of three-dimensional echocardiography. ISBN 978-3-030-14032-8
3. P. Aruta, L.P. Badano, **A.C. Guta**, D. Muraru. Transcatheter interventional techniques for mitral valve regurgitation: devices and up-to-date results. Current Perspectives on Mitral Valve Disease, ISBN 978-1-78985-688-0.
4. **A.C. Guta**, D. Bartos. Antihypertensive treatment: principles. Arterial hypertension: from practice to theory, from patients to guidelines. Niculescu, 2017.

Abstracts and posters presentations

1. D. Mihalcea, **A.C.Guta**, S. Caravita, G. Parati, L.P. Badano, D. Vinereanu, D. Muraru. Sex, body size and right atrial volume are the main determinants of tricuspid annulus geometry in healthy volunteers. A 3D study using a novel, commercially available dedicate software package. ESC Congress 2020.
2. M. Previtero, **A.C. Guta**, R.C. Ochoa-Jimenez, S. Figliozzi, C. Palermo, A. Baritussio, A. Cecchetto, P. Aruta, S. Iliceto, L.P. Badano, D. Muraru. Prognostic validation of partition values obtained with conventional two-dimensional and doppler echocardiography to grade tricuspid regurgitation severity. European Heart Journal – Cardiovascular Imaging 21 (Suppl 1), January 2020, DOI: 10.1093/ehjci/jez319.
3. M. Previtero, **A.C. Guta**, R.C. Ochoa-Jimenez, C. Palermo, D. Bottigliengo, S. Figliozzi, A. Baritussio, A. Cecchetto, P. Aruta, S. Iliceto, L.P. Badano, D. Muraru. Right ventricular basal diameter, but not volume, can predict severe tricuspid regurgitation. European Heart Journal – Cardiovascular Imaging 21 (Suppl 1), January 2020, DOI: 10.1093/ehjci/jez319.426.
4. M. Previtero, D. Bottigliengo, **A.C. Guta**, R.C. Ochoa-Jimenez, S. Figliozzi, C. Palermo, A. Baritussio, A. Cecchetto, P. Aruta, S. Iliceto, L.P. Badano, D. Muraru. Identification of threshold values to define right chamber enlargement consistent with severe tricuspid regurgitation. European Heart Journal – Cardiovascular Imaging 21 (Suppl 1), January 2020, DOI: 10.1093/ehjci/jez319.009.
5. **A.C. Guta**. Different etiologies of functional tricuspid regurgitation are associated with significant heterogeneity in right chamber size and tricuspid valve geometry. Oral presentation at 3D Echo360, European Edition, 2019.
6. **A.C. Guta**, P. Aruta, S. Mihaila, D. Muraru, C. Palermo, E. Surkova, S. Iliceto, L.P. Badano. In patients with end-stage functional mitral regurgitation, mitral annulus geometry is independent on the ischemic or non-ischemic etiology of left ventricular dysfunction. Poster presented at 3D Echo360, European Edition, 2019.
7. R.C. Ochoa-Jimenez, **A.C. Guta**, M. Previtero, C. Palermo, P. Aruta, L.P. Badano, D. Muraru. Right Ventricular Global Longitudinal Strain Predicts Cardiovascular Mortality and Heart Failure

Hospitalizations in Patients with Functional Tricuspid Regurgitatio. European Heart Journal, Vol 40, Issue Suppl 1, October 2019.

8. A.C. Guta, D. Muraru, L.P. Badano, Y. Nagata, P. Aruta, R.C. Ochoa Jimenez, E. Surkova, K. Otani, D. Genovese, Y. Otsuji, D. Azzolina, M. Takeuchi. Development and prognostic validation of partition values to grade right ventricular dysfunction severity with three-dimensional echocardiography. Eur Heart J - Cardiovascular Imaging. Volume 20, Issue Suppl 1, 1 January 2019, i320–i324. **Abstract selected for Young Investigator Award Session – Clinical Science at Euroecho 2018, Milan.**
9. A.C. Guta, R.C. Ochoa Jimenez, V. Guida, P. Aruta, R. Tenaglia, M.P. Marra, M. De Lazzari, S. Iliceto, L.P. Badano, D. Muraru. Heterogeneity of segmental left ventricular deformation in patients with mitral valve prolapse as potential substrate of ventricular arrhythmias. Eur Heart J - Cardiovascular Imaging. Volume 20, Issue Suppl 1, 1 January 2019, i307–i319.
10. R.C. Ochoa-Jimenez, A.C. Guta, V. Guida, M. Previato, P. Aruta, C. Palermo, S. Figlizzoli, M.P. Marra, A. Cipriani, S. Iliceto, L.P. Badano, D. Muraru. Potential echocardiographic markers of arrhythmic burden in patients with mitral valve prolapse and mild regurgitation. Eur Heart J - Cardiovascular Imaging. Volume 20, Issue Suppl 1, 1 January 2019, i307–i319.
11. A.C. Guta, R.C. Ochoa-Jimenez, P. Aruta, D. Genovese, K. Nguyen, G. Sammarco, V. Guida, R. Tenaglia, C. Palermo, R. Enache, D. Bartos, S. Iliceto, L.P. Badano, D. Muraru. In patients with functional tricuspid regurgitation due to atrial fibrillation, right atrial three-dimensional volume is the most important determinant of tricuspid annulus dilation. Eur Heart J - Cardiovascular Imaging, Volume 20, Issue Suppl 1, 1 January 2019, i1022–i1148.
12. G. Sammarco, N. Ruozzi, R. Tenaglia, H. Rodriguez-Zanella, F. Boccalini, E. Secco, C. Palermo, T. Barrella, D. Azzolina, A. Guta, P. Aruta, D. Muraru, S. Iliceto, L.B. Badano. Added value of the combined use of left ventricular mechanical dispersion and three-dimensional ejection fraction in the arrhythmic risk stratification of patients with systolic dysfunction. Eur Heart J - Cardiovascular Imaging. Volume 20, Issue Suppl 1, 1 January 2019, i1210–i1300.
13. R.C. Ochoa-Jimenez, A.C. Guta, S. Civera, V. Guida, P. Aruta, C. Palermo, M. Previato, H. Shehata, M. De Lazzari, A. Cipriani, S. Iliceto, L.P. Badano, D. Muraru. Left ventricular and mitral valve geometry in patients with mitral valve prolapse and mild regurgitation: a three-dimensional echocardiographic study. Eur Heart J - Cardiovascular Imaging. Volume 20, Issue Suppl 1, 1 January 2019, i1210–i1300.
14. Muraru D., Guta A.C., Addetia K., Genovese D., Ochoa-Jimenez RC., Veronesi F., Aruta P., Palermo C., Prado A., Sammarco G., Tenaglia R., Iliceto S., Badano LP., Lang RM. Accuracy of conventional and 3D echo-derived indices of right chamber and tricuspid annulus size to predict severe functional tricuspid regurgitation. Eur Heart J 2018, Volume 39, Issue Suppl 1.
15. Muraru D., Addetia K., Genovese D., Guta A.C., Ochoa-Jimenez RC., Aruta P., Veronesi F., Mor-Avi V., Previtero M., Guida V., Nguyen K., Iliceto S., Badano LP., Lang, RM. Right atrial volume is the major determinant of tricuspid annulus area in healthy subjects and in patients with functional tricuspid regurgitation due to various etiologies. Eur Heart J 2018, Volume 39, Issue Suppl 1.

16. Muraru, D., Addetia, K., **Guta, A.C.**, Ochoa-Jimenez, RC., Genovese, D., Aruta, P., Mihaila, S., Bidviene, J., Mor-Avi, V., Prado, A., Iliceto, S., Lang, RM., Badano, LP. Different etiologies of functional tricuspid regurgitation are associated with significant heterogeneity in right chamber size and tricuspid valve geometry. *Eur Heart J* 2018, Volume 39, Issue Suppl 1.
17. **A. Guta**, G. Raileanu, A. M. Daraban, A. Burducea, M. Beuran, D. Bartos. Is Arterial Hypertension Different in Patients Performing Non-Cardiac Surgery? *Journal of Hypertension* 2016; 34(suppl 1): e123. ISSN 0263-6352.
18. G. Raileanu, **A. Guta**, S. Postelnicu, C. Ginghina, R. Tataru, M. Raileanu, M. Serban. Clinical and Paraclinical Features in Grade 2 And 3 Hypertensive Women with Angina. *Journal of Hypertension* 2016; 34(suppl 1): e309. ISSN 0263-6352.
19. M. Serban, **A.C. Gută**, G. Răileanu, S. Postelnicu, D. Gherasim, C. Ginghină, Angina pectoris in Woman, *Romanian Journal of Cardiology*, Supplement The 54th National Congress of Cardiology, 17-19 September 2015, Sinaia.
20. **A. Guta**, L. Gruescu – Association of CYP2D6 and ADRB1 Single Nucleotide Polymorphisms and Response to Beta Blocker Therapy in a Patient Sample Set with Cardiovascular Diseases from Romania, Cambridge Healthcare Institutes' 21st International Molecular Med Tri-Con, February 2014, San Francisco, CA.
21. A. Anghel, M. Tomescu, **A. Guta**, L. Gruescu, E. Seclaman, M. Mititelu, C. Marian. Gene variants modulating the response to beta blockers therapy for cardiovascular diseases, presented at The 11thNational Symposium of Microscopic Morphology, May 2013, Craiova.
22. L. Gruescu, **A. Guta**, A lecturer's one semester tutoring experience in a preclinical year of study, presented at Timisoara Medical Education Days, April 2013.
23. L. Gruescu, **A. Guta**, Drug metabolism genes polymorphism - population study in west Romania, presented at the 22nd European Students' Conference, 21st – 24th September 2011, Berlin.

Clinical cases presentations and posters

1. **A.C. Guta**, S. Caravita, D. Mihalcea, G. PArati, L.P. BAdano, D. Muraru. Functional tricuspid regurgitation and atrial fibrillation. Which comes first: the chicken or the egg? *ESC Congress*, 2020.
2. **A.C. Guta**, A.I. Necula, D.N. Radu, G. Olaru-Lego, A. Calin, L. Predescu, B. Radulescu, B.A. Popescu, R. Enache. A classical dilemma – to be or not to be constriction- solved by CMR. *EuroCMR*, 2019, Venice.
3. D. N. Radu, **A.C. Guta**, A. Florian, L. Predescu, B.A. Popescu, R. Enache. Congenital left ventricular diverticulum- an innocent bystander in a patient with hereditary haemorrhagic telangiectasia. *EuroCMR*, 2019, Venice.
4. **A. Guta**, A. Calin, D. Dorobantu, A. Burducea, M. Rosca, M. Croitoru, C. Ginghina, B.A. Popescu. From hepatocellular carcinoma to heart failure - a rare late complication with a devastating cascading effect. *Eur Heart J* 2017, 18(suppl 3).
5. **A. Guta**, R. Enache, L. Predescu, P. Platon, C. Toma, C. Ginghina. Tuberculous constrictive pericarditis- a difficult diagnosis. The 56th National Congress of Cardiology, 20-23 September 2017, Sinaia.

6. **A. Guta**, A. Calin, D. Dorobantu, A. Burducea, M. Rosca, M. Croitoru, C. Ginghina, B.A. Popescu. From hepatocellular carcinoma to heart failure - a rare late complication with a devastating cascading effect. The 56th National Congress of Cardiology, 20-23 September 2017, Sinaia.
7. **A. Guta**, A. M. Daraban, G. Sica, D. Bartos. The restless heart: a case report. The 9th International Congress of Internal Medicine, Athens, March 9-11, 2017.
8. **A. Guta**, T. Radu, P. Platon, R. Enache, I. M. Coman. Extrinsic left main coronary artery compression in a patient with Pulmonary Hypertension due to large Atrial Septal Defect. Imaging role in PH- PHADER Spring Forum, 3-4 March 2017, Sibiu.
9. **A. Guta**, A. M. Daraban, E. Badilă, D. Bartos. Hypertension and Atrial Fibrillation: the “why?” behind their coexistence. Journal of Hypertension Research, 2016;2(3):100-104.
10. **A. Guta**, A. M. Daraban, A. Burducea, D. Bartos. New-Onset Atrial Fibrillation Associated with Cyclophosphamide-Induced Cardiotoxicity: Case Report. Cardiology 2016;134(suppl 1):357. e-ISSN: 1421-9751.
11. **A. Guta**, A. M. Daraban, A. Burducea, D. Bartos. Syncope in a patient diagnosed with non-Hodgkin's lymphoma. European Congress of Internal Medicine, 2-3 September 2016, Amsterdam.
12. **A. Guta**, C. Tirziu, L. Gulie, A. Burducea, D. Bartoş. Thrombophilia and Tromboangiitis Obliterans: an unfortunate association. European Congress of Internal Medicine, 2-3 September 2016, Amsterdam.
13. **A. Guta**, A.M. Daraban, A. Burducea, D. Bartos. New-onset atrial fibrillation associated with cyclophosphamide-induced cardiotoxicity; case report. The Journal of Heart Disease: abstracts of The International Academy of Cardiology Annual Scientific Sessions 2016, 21st World Congress on Heart Disease, 30 July- 1st August 2016, Boston, MA, USA.
14. **A. Guta**, A. M. Daraban, a. Burducea, D. Bartos. Three normal coronary arteries: is it enough? National Internal Medicine Congress, 6-9 April 2016, Calimanesti, Romania.
15. **A. C. Guta**, M. Serban, R. Ciudin, L. Mandes, G. Raileanu, I. Gheorghiu, C. Ceck, C. Ginghina, A rare variation of the heterotaxy syndrome with dextrocardia, Romanian Journal of Cardiology, Supplement The 54th National Congress of Cardiology, 17-19 September 2015, Sinaia.
16. G. Raileanu, M. Ţerban, I. Gheorghiu, A. Popara, P. Platon, L. Predescu, **A. Guta**, C. Radulescu, C. Ginghină. What can hide behind a tricuspid valve regurgitation? Romanian Journal of Cardiology, Supplement The 54th National Congress of Cardiology, 17-19 September 2015, Sinaia.
17. C. I. Radulescu, M. Ţerban, P. Platon, A. Covaliov, L. Predescu, A. Călin, **A. Guta**, C. Ginghina, Thromboangiitis obliterans: easy diagnostic, difficult case, Romanian Journal of Cardiology, Supplement The 54th National Congress of Cardiology, 17-19 September 2015, Sinaia.

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