



Curriculum Vitae

Personal information **Iana Simova**

Work experience

01/06/2020 – CURRENT – Pleven, Bulgaria

Academic head of department

MHAT Heart and Brain Pleven, Bulgaria

Head of cardiology clinic.

Chair of Thematic panel Circulatory system in the Expert panel of Medical Devices (EXPAMED) of European Medicines Agency (EMA) 2023 – ongoing

Professor of Cardiology, Medical University, Pleven, Bulgaria; 02.2021 – current

Chief Executive Officer of the Bulgarian Cardiac Institute; 01.2021 – current

2016 – 2020 – Sofia, Bulgaria

Associate professor, head of department of Cardiology Acibadem City Clinic Cardiovascular Center – University Hospital

2015 – 2016 – Sofia, Bulgaria

Associate professor

Cardiovascular Imaging and Functional Diagnostics, National Cardiology Hospital

Education and training

Experience in clinical cardiology, Heart failure, Valvular heart disease, Atherosclerotic cardiovascular disease, Systemic inflammation, Biomarkers, Imaging, Medical Devices, Adult Congenital heart disease, Cardiomyopathies, rare diseases, Dyslipidemy, Rhythm and conduction disorders, Arterial hypertension, Cardio-oncology, Clinical trials.

Management in Healthcare, Faculty of Public Health, Medical University, Sofia 2018-2021; Diploma № 047805

Basal and expert degree Echocardiography

Noninvasive coronary flow reserve - Department of Medical Translational Sciences, University of Naples Federico II, Naples, Italy - September 2013

Cardiology residency 11.2008 – 11.2012; Diploma № 013759

Basic Cardiology - Niguarda Hospital, Milan, Italy - October 2005

Internal Disease residency started 03.2003

PhD - Medical University, Sofia 2006 - 2009

Medical University of Sofia

01/10/2004 – 06/07/2008 – Str. Akad. Ivan Geshov 1, Sofia, Bulgaria

PhD

Medical University of Sofia

Master in Human Medicine

10/10/1996 – 11/11/2002 – 1 Akad Ivan Geshov Blvd , Sofia, Bulgaria

Additional information

Publications

I have 419 publications with 1255 citations at present.

Some of the publication are listed below:

Simova I., Nikolov D., Pavlov P., Vasilev I., Kornovski V., Krasnaliev Y., Vekov T. How to decide which COVID-19 patient with myocardial infarction to send to the Cath Lab? - A case series of COVID-19 patients with myocardial infarction. Am J Biomed Sci & Res. 202320(5) AJBSR.MS.ID.002753, DOI: 10.34297/AJBSR.2023.20.002753

https://biomedgrid.com/pdf/AJBSR_MS.ID.002753.pdf Impact Factor 1.628
Hristova D, I Simova, Vekov T. Influence of high temperatures on Post-COVID-19 conditions. *Ann Environ Sci Toxicol* 2022; 6(1): 120-128. DOI: 10.17352/aest.000062 <https://www.peertechzpublications.com/articles/AEST-6-162.php>
Impact Factor 2.82

Bortolan G., Christov I., Simova I. Modifications in ECG and VCG morphological parameters in elderly males as result of cardiovascular diseases and diabetes mellitus. *Diagnostics* 2022, 12, 2911.
<https://doi.org/10.3390/diagnostics12122911> Impact Factor 3.992 citations: 2

Tsanovska Hristina, Simova Iana, Genov Vladislav, Kundurzhiev Todor, Krasnaliev Jordan, Kornovski Vladimir, Dimitrov Nikolai, Vekov Toni, Hydroxychloroquine (HCQ) Treatment for Hospitalized Patients with COVID- 19, *Infectious Disorders - Drug Targets*; Volume 22, Issue 6, Year 2022, e030322201650. DOI: 10.2174/1871526522666220303121209 <https://www.eurekaselect.com/article/121288>
citations: 2

Ivanova A, Canovska H, Genov V, Krasnaliev J, Simova I, Vekov T, Kundurzhiev T, Dimitrov N and Kornovski V. Post Covid-19 Conditions after Dehospitalization according to Therapy. *Am J Biomed Sci & Res.* 2022 - 16(4).
AJBSR.MS.ID.002242. DOI: 10.34297/AJBSR.2022.16.002242
https://biomedgrid.com/pdf/AJBSR_MS.ID.002242.pdf Impact Factor 1.628

Dilaveris PE., Antoniou CK, Caiani EG, Casado-Arroyo R., Climent AM., Cluitmans M., Cowie MR., Doehner W., Guerra F., Jensen MT., Kalarus Z., Locati ET., Platonov P., Simova I., Schnabe R., Schuurung M., Tsvigoulis G., Lumens J. ESC Working Group on e-Cardiology Position Paper: accuracy and reliability of electrocardiogram monitoring in the detection of atrial fibrillation in cryptogenic stroke patients: In collaboration with the Council on Stroke, the European Heart Rhythm Association, and the Digital Health Committee, *Eur Heart J Digit Health* 2022; 3(3):341–358. <https://doi.org/10.1093/ehjdh/ztac026>. citations: 17

Merli E., Ciampi Q., Scali MC., Zagatina A., Merlo PM., Arbucci R., Daros CB., de Castro e Silva Pretto JL., Amor M., Salamè MF., Mosto H., Morrone D., D'Andrea A., Reisenhofer B., Rodriguez-Zanella H., Wierzbowska-Drabik K., Kasprzak JD., Agoston G., Varga A., Lowenstein J., Dodi C., Cortigiani L., Simova I., Samardjieva M., Citro R., Celutkienė J., Re F., Monte I., Gligorova S., Antonini-Canterin F., Pepi M., Carpegiani C., Pellikka PA., Picano E. on behalf of Stress Echo 2020 and 2030 study group of the Italian Society of Echocardiography and Cardiovascular Imaging (SIECVI). Pulmonary Congestion during Exercise Stress Echocardiography in Ischemic, Heart Failure, and Valvular Patients. *Circulation Cardiovascular Imaging* 2022; 15 (5) Originally published 17 May 2022
<https://doi.org/10.1161/CIRCIMAGING.121.013558> Impact factor (2021): 7.792
citations: 5

Pálinskás ED., Re F., Peteiro J., Tesic M., Pálinskás A., Torres MAR., Dikic AD., Beleslin B., Van De Heyning CM., D'Alfonso MG., Mori F., Ciampi Q., de Castro e Silva Pretto JL., Simova I., Nagy V., Boda K., Sepp R., Olivotto I., Pellikka PA., Picano E. Pulmonary Congestion during Exercise Stress Echocardiography in Hypertrophic Cardiomyopathy. *The International Journal of Cardiovascular Imaging.* 2022; 38 (12):1875-8312.
<https://doi.org/10.1007/s10554-022-02620-0> <https://link.springer.com/content/pdf/10.1007/s10554-022-02620-0.pdf>
Impact factor (2020): 2.357

Wierzbowska-Drabik K., Kasprzak JD, Haberka M, Peteiro J, Re F, D'Alfonso MG, Mori F, Palinkas ED, Agoston G, Varga A, Djordjevic-Dikic A, Tesic M, Zagatina A, Rodriguez-Zanella H, Simova I, Merli E, Morrone D, D'Andrea A, Camarozano AC, Reisenhofer B, Protá C, Citro R, Celutkienė J, Boshchenko A, Ciampi Q, Picano E. Left atrial volume changes during exercise stress echocardiography in heart failure and hypertrophic cardiomyopathy. *Hellenic Journal of Cardiology* 2022; ISSN 1109-9666, <https://doi.org/10.1016/j.hjc.2022.01.003>. Impact Factor 4.047
citations: 2

Yakova-Hristova D, Simova I, Pavlov P, Hristov M, Kundurzhiev T, et al. Pulmonary Thromboembolism in Patients After COVID-19: Predictive Indicators for Correct Diagnosis. *Arch Clin Infect Dis.* 2021;16(5):e118892. doi: 10.5812/archcid.118892 <https://brief.land/archcid/articles/118892.html> CiteScore 2020: 1.5

Bortolan G., Christov I., Simova I. Potential of Rule-Based Methods and Simple Deep Learning Architectures on ECG Diagnostics. 2021; 11(9):1678. <https://doi.org/10.3390/diagnostics11091678> Impact factor 3.706
citations: 12

Picano E., Ciampi Q., Cortigiani L., Arruda-Olson AM., Borguezan-Daros C., Castro e Silva Pretto JL., Cocchia R., Bossone E., Merli E., Kane GC., Varga A., Agoston G., Scali MC., Morrone D., Simova I., Samardjieva M., Boshchenko A., Ryabova T., Vrublevsky A., Palinkas A., Palinkas ED., Sepp R., Torres MAR., Villarraga HR., Preradović TK, Citro R., Amor M., Mosto H., Salamè M., Leeson P., Mangia C., Gaibazzi N., Tuttolomondo D., Protá C., Peteiro J., Van De Heyning CM., D'Andrea A., Rigo F., Nikolic A., Ostojic M., Lowenstein J., Arbucci R., Haber DML, Merlo PM., Wierzbowska-Drabik K., Kasprzak JD., Haberka M., Camarozano AC., Ratanasit N., Mori F., D'Alfonso MG., Tassetti L., Milazzo A., Olivotto I., Marchi A., Rodriguez-Zanella H., Zagatina A., Padang R., Dekleva M., Djordjevic-Dikic A., Boskovic N., Tesic M., Giga V., Beleslin B., Di Salvo G., Lorenzoni V., Cameli M., Mandoli GE., Bombardini T., Caso P., Celutkienė J., Barbieri A., Benfari G., Bartolacelli Y., Malagoli A., Bursi F., Mantovani F., Villari B., Russo A., De Nes M., Carpegiani C., Monte I., Re F., Cotrim C., Bilardo G., Saad AK., Karuzas A., Matuliaskas D., Colonna P., Antonini-Canterin F., Pepi M., Pellikka PA. Stress echo 2030: the novel ABCDE-(FGLPR) protocol to define the future of imaging. *J. Clin. Med.* 2021, 10, 3641. <https://doi.org/10.3390/jcm10163641>
<https://www.mdpi.com/2077-0383/10/16/3641/pdf> Impact factor 4.421
citations: 6

Ciampi Q., Zagatina A., Cortigiani L., Wierzbowska-Drabik K., Kasprzak JD., Haberka M., Djordjevic-Dikic A., Beleslin B., Boshchenko A., Ryabova T., Gaibazzi N., Rigo F., Dodi C., Simova I., Samardjieva M., Barbieri A., Morrone D., Lorenzoni V., Protá C., Villari B., Antonini-Canterin F., Pepi M., Carpegiani C., Pellikka P., Picano E. on behalf of the Stress Echo 2020 study group of the Italian Society of Echocardiography and Cardiovascular Imaging (SIECVI). Prognostic Value of Stress Echocardiography assessed by the ABCDE protocol. *European Heart Journal* 2021; 42:3869–3878, <https://doi.org/10.1093/eurheartj/ehab493> doi:10.1093/eurheartj/ehab493 Impact factor 22.673
citations: 8

Bombardini T., Zagatina A., Ciampi Q., Arbucci R., Merlo PM., Haber DML, Morrone D., D'Andrea A., Djordjevic-Dikic A., Beleslin B., Tesic M., Boskovic N., Giga V., de Castro e Silva Pretto JL, Daros CB, Amor M., Mosto H., Salamè M., Monte I., Citro R., Simova I., Samardjieva M., Wierzbowska-Drabik K., Kasprzak JD., Gaibazzi N., Cortigiani L., Scali MC., Pepi M., Antonini-Canterin F., Torres MAR., De Nes M., Ostojic M., Carpegiani C., Kovačević-Preradović T., Lowenstein J., Arruda-Olson AM., Pellikka PA., Picano E. on behalf of the Stress Echo 2020 study group of the Italian Society of Echocardiography and Cardiovascular Imaging (SIECVI). Hemodynamic heterogeneity of reduced cardiac reserve unmasked by volumetric exercise echocardiography. *J. Clin. Med.* 2021, 10, 2906.
<https://doi.org/10.3390/jcm10132906> Impact factor 4.421

Hristova D., Simova I., Kornovski V., Dimitrov N., Vekov T, Effects of Combination Antihypertensive Therapy Candesartan and Amlodipine on Blood Pressure and Diastolic Function Parameters – Rationale and Design of a Clinical Study. *Am J Biomed Sci & Res.* 2021 - 12(2). AJBSR.MS.ID.001733. DOI: 10.34297/AJBSR.2021.12.001733
https://biomedgrid.com/pdf/AJBSR_MS.ID.001733.pdf Impact Factor 1.628

Jensen MT, Treskes RW, Caiani E, Casado R, Cowie M, Dilaveris P, Duncker D, Frederix I, De Groot N, Kolh P, Kemps H, Mamas M, McGreavy P, Neubeck L, Parati G, Platonov P, Di Rienzo M, Schmidt-Trucksäss, Simova I, Svennberg E, Verstraal A, Lumens J. ESC Working Group on e-Cardiology Position Paper: Use of Commercially Available Wearable Technology for Heart Rate and Activity Tracking in Primary and Secondary Cardiovascular Prevention. *European Heart Journal – Digital Health* 2021; 2 (1): 49–59 doi: <https://doi.org/10.1093/ehjdh/ztab011>
<https://academic.oup.com/ehjdh/article/2/1/49/6130819> citations: 49

Morrone D., Arbucci R., Wierzbowska-Drabik K., Ciampi Q., Peteiro J., Agoston G., Varga A., Camarozano AC., Boshchenko A., Ryabova T., Dekleva M., Simova I., Haber DML., Tesic M., Boskovic N., Djordjevic-Dikic A., Beleslin B., D'Alfonso MG., Mori F., Rodriguez-Zanella H., Kasprzak JD., Cortigiani L., Lattanzi F., Scali MC., Torres MAR., Daros CB., de Castro e Silva Pretto JL., Gaibazzi N., Zagatina A., Zhuravskaya N., Amor M., Miele PEV., Merlo PM., Monte I., D'Andrea A., Re F., Di Salvo G., Merli E., Lorenzoni V., De Nes M., Paterni M., Limongelli G., Protá C., Citro R., Colonna P., Villari B., Antonini-Canterin F., Carpegiani C., Lowenstein J., Picano E. on behalf of the Stress Echo 2020 study group of the Italian Society of Echocardiography and Cardiovascular Imaging - Subproject all you need is LAV. Feasibility and Functional Correlates of Left Atrial Volume Changes during Stress Echocardiography in Chronic Coronary Syndromes. *International Journal of Cardiovascular Imaging* 2021; 37:953–964 doi: 10.1007/s10554-020-

Projects

Partnership project „Identification of patients with familial hypercholesterolaemia (FH) with cascade screening“. Project of Bulgarian Cardiac Institute in partnership with Amgen 2023 – ongoing

Partnership project: “Safety and Efficacy of anticoagulation therapy in patients with cancer-associated thrombosis,” Pfizer Tracking Number #76166107. Project of Bulgarian Cardiac Institute in partnership with Pfizer 2022 – ongoing

Partnership project: “Diagnosis and treatment of cardiac amyloidosis in patients with aortic stenosis,” Pfizer Tracking Number #73057479. Project of Bulgarian Cardiac Institute in partnership with Amgen 2022 – ongoing

Partnership project for Identification of patients with familial hypercholesterolaemia (FH) with high and very high cardiovascular risk defined in the European recommendations for the treatment of dyslipidemia. Project of Bulgarian Cardiac Institute in partnership with Amgen 2021 – 2022

Stress Echo 2030: the Novel ABCDE-(FGLPR) Protocol to Define the Future of Imaging (SE2030). ClinicalTrials.gov ID: NCT05081115. Unique Protocol ID: Fatebenefratelli H. Multicenter international project. Co-ordinating center Fatebenefratelli Hospital, Benevento, Italy, 2020 – ongoing

The International Stress Echo Study in Ischemic and Non-ischemic Heart Disease – Stress Echo 2020 (SE2020). ClinicalTrials.gov ID: NCT03049995. Unique Protocol ID: FBF001. Multicenter international project. Co-ordinating center Fatebenefratelli Hospital, Benevento, Italy, 2016 – 2020

European Registry of Echocardiography in Atrial Fibrillation (AFib Echo Europe). Study promoter: European Association of Cardiovascular Imaging (EACVI). Co-ordinating center: Department of Advanced Biomedical Sciences, University of Naples “Federico II”, Naples, Italy, 2018 – ongoing

Function of the Left Atrium and Symptoms in Patients with Chronic Heart Failure. The FLASH study. Multicenter Project. Co-ordinating center Department of Cardiovascular Diseases, University of Siena, AOUS Policlinico Le Scotte, Siena, Italy, 2016-2018

Normal Reference Ranges for Echocardiography: An Individual Person Meta-Analysis. EchoNoRMAL study. Multinational project. Co-ordinating Centre: University of Auckland and Unitec, New Zealand, 2012-2015

“Study of efficacy of ECG risk markers in different populations”. Joint research project between Institute of Biophysics and Biomedical Engineering (IBPhBME), Bulgarian Academy of Sciences, Sofia, Bulgaria and Institute of Neuroscience (IN) - CNR, Padua, Italy, 2016-2018

„Evaluation of fetal cardiac contractions with non-invasive electrocardiogram from the mother's abdomen“. Research topic: Methods and algorithms for registration, analysis and classification of biomedical data, signals and images and their realization with program solutions in electronic clinical and life-saving devices. International joint project between CLBMI-BAS, National Cardiology Hospital and City Clinic in Sofia, Bulgaria and Schiller AG, Switzerland, 2014-2015

“Evaluation of morphological changes in electrocardiogram during haemodialysis”. Research topic: Methods and algorithms for registration, analysis and classification of biomedical data, signals and images and their realization with program solutions in electronic clinical and life-saving devices. International joint project between CLBMI-BAS, National Cardiology Hospital, Sofia Bulgaria and Institute of Biomedical Engineering - Consiglio Nazionale delle Ricerche, Padua, Italy, 2014-2015

“Innovative electronic system for functional diagnostics of individuals involved in extreme physical work” at Operational Program „Competitional progress in Bulgarian economy” 2007-2013; BG161PO003-1.1.05-0047-C0001

„Development of a small molecule for implementation in a personal diagnostic device for fast measurement of plasma rennin activity” at Operational Program „Competitional progress in Bulgarian economy” 2007-2013

“Periodic changes in QRS complex and T wave in electrocardiographic signals during standardized stress ECG test” CLBMI - BAS; 2011-2012

“Evaluation of energies of a series of electrical impulses providing successful defibrillation with minimal patient loading” Scientific Studies Fund at Ministry of Education and Science; 2009-2012

„Detection and analysis of microvolt QRS and T wave alternans in electrocardiographic signals” Joint research project between Bulgarian Academy of Sciences, Sofia, Bulgaria and Consiglio Nazionale delle Ricerche, Padua, Italy, 2010-2012

“Repolarization phase in computerized electrocardiography: Analysis of T wave morphology and QT dispersion.” Joint research project between Bulgarian Academy of Sciences, Sofia, Bulgaria and Consiglio Nazionale delle Ricerche, Padua, Italy, 2007-2009

“Evaluation of coronary atherosclerosis using flow-mediated dilatation of the brachial artery and intima-media thickness of the common carotid artery”; contract No 12-D/2007; Medical University, Sofia project for financial support of PhD students; awarded for excellent scientific work, 2006-2007

“Evaluation of noninvasive monitor for ambulatory blood pressure measurement Schiller BR-102”. International project for scientific research, Schiller SA, Switzerland and CLBMI - BAS, 2007 - 2008.

“Exact QT interval measurement in single-channel electrocardiographic recording”. CLBMI - BAS, 2006-2007. Acknowledged as of significant scientific contribution from CLBMI scientific counsel and published in the annual report of BAS 2006.

Second place at “QT interval measurement” challenge at Physionet/Computers in Cardiology, 2006, section “fully automated methods”. Published on the WEB pages of Physionet; © Christov-Simova, http://www.physionet.org/challenge/2006/sources/christov-simova/Fully_Automatic_QT_Ch_m

“QT dispersion evaluation as a clinical testing in cardiology”. CLBMI - BAS, 2007-2008 - 2009. Acknowledged as of significant scientific contribution from CLBMI scientific counsel and published in the annual report of BAS 2007.

“Evaluation of defibrillation electrodes during continuous measurement of thoracic impedance and comparison of ECG signals derived from defibrillation and conventional electrodes”; International project for scientific research, ISIB-CNR, CLBMI “Prof I. Daskalov”; 2006

Memberships

1. Chair of Thematic panel Circulatory system in the Expert panel of Medical Devices (EXPAMED) of European Medicines Agency (EMA) 2023 – ongoing
2. Advisor to the European Commission expert panels in the field of medical devices - Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, and Commission Implementing Decision (EU) 2019/1396; 2020 – ongoing
3. Web and Communication Committee member in European Association of Cardiovascular Imaging 2017-2018
4. Educational Committee member in European Association of Cardiovascular Imaging 2015-2016
5. Nucleus member in E-Cardiology Working group of the ESC 2016-2020
6. EACVI 2017 Training Grants Grading Committee
7. Member of Scientific Council at National Cardiology Hospital 03.2015-03.2016
8. Member of Scientific Council at City Clinic – University Hospital from 04.2016
9. Bulgarian ambassador for the Club 35 in the European Association of Cardiovascular Imaging 2012-2014
10. Club 35 Committee member in the European Association of Cardiovascular Imaging 2012-2014
11. Working group on e-Cardiology of the European Society of Cardiology
12. Working group on Acute Cardiac Care of the European Society of Cardiology
13. Working group on Myocardial and Pericardial Diseases of the European Society of Cardiology
14. Working group on Myocardial and Pericardial Diseases of the European Society of Cardiology
15. Working group on Coronary Pathophysiology and Microcirculation of the European Society of Cardiology
16. Council on Stroke of the European Society of Cardiology

Other Relevant Information

- 118 oral presentations or posters at international congresses
- 107 oral presentations or posters at Bulgarian congresses with international participation

Honours and Awards

Certificate for best achievement in "Competition for high scientific achievements for 2010", organized by Bulgarian Union of Scientists

Certificate for best achievement in the "Competition for scientific achievements for PhD students, graduated 2008", organized by Bulgarian Union of Scientists

Second best in the Physionet/Computers in Cardiology Challenge "QT interval measurement" 2006 in: Division 1: Manual and semi-automated methods Division 3: Fully automated methods with source code submitted

Participation in editorial boards

Deputy Editor of Cardiology & Cardiosurgery Journal
Editor of European Journal of Preventive Cardiology
Editorial Board member of Romanian Journal of Cardiology
Editor-in-chief of CardioD Journal 2009-2020
Editor of MD Journal
Editor of European Cardiology Review
Editorial Board member of EC Cardiology journal
Guest Editor of Journal of Diabetes Research

Reviewer for 37 international journals, textbooks and conferences – 175 reviews