# CURRICULUM VITAE

## DENISA MURARU, MD, PHD, FESC, FACC, FASE

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### Present Position and Address:

- Associate Professor – Department of Medicine and Surgery, University of Milano-Bicocca
- Cardiologist/Echocardiographer - Integrated Cardiovascular Imaging Center, Istituto Auxologico Italiano, IRCCS, Milan, Italy
- Head of Heart Valve Clinic, Department of Cardiology, San Luca Hospital, Piazzale Brescia 20, 20149, Milan, Italy

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### Training and Education:

- **1997-2003** - Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
- **2004-2010** - Speciality training in Cardiology, Bucharest, Romania
- **2006-2008** - Training in Echocardiography laboratory with accreditation by the European Association of Echocardiography (Director of Echo Lab: Prof. Bogdan Popescu) Emergency Institute for Cardiovascular Diseases Prof. Dr. C.C. Iliescu, Bucharest, Romania

### Research Activity and Academic Positions:

- **2009-2010** - Research Fellow on 3D Echocardiography – Echocardiography laboratory with advanced level accreditation by the European Association of Echocardiography (Director of Echo Lab: Prof. Luigi Badano), Udine, Italy
  Research topics: right ventricular remodeling in pulmonary hypertension by 3DE; validation of 3DE software for LV quantification against CMR. Training in advanced echocardiography (3D TTE, 3D TEE, 2D/3D STE, exercise and pharmacological stress echocardiography, coronary flow reserve, contrast echocardiography)
- **2011-2013** - PhD Fellow - Department of Cardiac, Thoracic and Vascular Sciences, University of Padua
  PhD Thesis: "Exploring the clinical feasibility and reliability of three-dimensional echocardiography for advanced quantitative analysis of left ventricular myocardial deformation"
- **2014-2015** - Postdoctoral Research Fellow – Department of Cardiac, Thoracic and Vascular Sciences, University of Padua
  Research topics: validation of 3D echocardiography against CMR for RV and atrial quantification, reference values for chamber quantification by 3D TTE and STE, mitral valve abnormalities and LV geometry and function in hypertrophic cardiomyopathy by 3DE.

- **2016-2020** - Senior Researcher - Department of Cardiac, Thoracic and Vascular Sciences, University of Padua
  Set up the advanced echo research laboratory (3D echo, deformation imaging, particle-image velocimetry), research, development and clinical testing of 3D echocardiography scanners and prototype software tools, consultancy for 3D echocardiography manufacturers. Research topics: functional tricuspid regurgitation and right heart geometry and function by 3DE

- **2018** - National Scientific Qualification as Associated Professor

- **01/04/2020 - 01/04/2023** - Assistant Professor - University of Milano-Bicocca

  Set up an advanced echo imaging protocol in patients with genetic cardiomyopathies for both clinical and research purposes. Conducted validation against cardiac CT and clinical testing of 3D echocardiography software for tricuspid annulus quantification, providing practical insights and authoring a dedicated White paper for users. Set up the specialized Heart Valve Clinic at the San Luca Hospital, Istituto Auxologico Italiano, IRCCS, in Milan, focusing on patient selection for interventional and surgical valve procedures, optimal timing of valvular intervention, and postprocedural follow-up.

  Nominated and selected as the **American Society of Echocardiography's 22nd Annual Feigenbaum Lecturer in 2021** "Right Heart, Right Now: The Role of 3DE" - being the first time that the American Society of Echocardiography selected a European female researcher to receive this recognition for significant contribution to the field https://www.asecho.org/feigenbaum-lecturer/

- **Since 01/04/2023 - Associate Professor** - Department of Medicine and Surgery, University of Milano-Bicocca
  Promoted the research on 3D echocardiography in the field of tricuspid regurgitation for a more accurate and reproducible assessment of right heart structures and regurgitation severity compared to conventional echocardiography.

  Had significant contribution to the field with innovative observations and original research on **atrial secondary tricuspid regurgitation (ASTR)** phenotype, proposing and developing the new classification of tricuspid regurgitation from the PCR Tricuspid Focus Group, and led the 2024 expert consensus on the definition and imaging of ASTR (10.1093/eurheartj/ehae088)

  Led the EACVI Document: **How to Conduct Clinical Research in Cardiovascular Imaging: A Primer for Clinical Cardiologists and Researchers.** A Statement of the European Association of Cardiovascular Imaging (EACVI) of the ESC (upcoming in 2024)

  Promoted the Project on **Radiation Exposure of Interventional Imagers** of the **EACVI echo section** (10.1093/ehjci/jeae086)

## Research Interests:

- valvular heart disease
- functional tricuspid regurgitation (classification/pathophysiology/quantification/outcome)
- artificial intelligence applied to cardiovascular imaging
- multi-modality imaging of the right heart structures
- multi-modality imaging in arrhythmic mitral valve prolapse
- multi-modality imaging in hypertrophic cardiomyopathy
- 3D echocardiography (software development/clinical applications/validation against CMR and cardiac CT)

## Funded Research Grants:

- Co-Principal Investigator, echocardiography core lab supervisor - Bando Ricerca Finalizzata 2021, Ministero della Salute - Project "In-depth characterization of atriogenic secondary tricuspid regurgitation due to atrial fibrillation. Prevalence, mechanisms, advanced quantification of regurgitation severity, and relative impact of sinus rhythm" (RF-2021-12374122 - 578.812,50 euro)
- Principal Research Collaborator, echocardiography core lab supervisor - Bando PNRR 2022 Ministero della Salute - Project "Use of intepREtable artificial intelligence techniqueS for a PErsonalized risk prediCTion of sudden cardiac death in patients with ischemic and non-ischemic left ventricular dysfunction. The RESPECT project" (PNRR-MAD-2022-12375700 - 807.500 euro).

## International Multicenter Research Activity:

- **EACVI TERRA** Study (TEst Retest reproducibility of Right heArt parameters by echocardiography and cardiac magnetic resonance) ClinicalTrials.gov ID NCT06193655 - Promoter and Principal Investigator
- **WASE** (The World Alliance of Societies of Echocardiography Normal Value Study) – Principal Investigator 10.1016/j.echo.2019.08.012
- **EURO-ENDO** Registry – Investigator (sponsored by ESC-EURObservational Research Programme) 10.1093/ehjqcco/qcz018
- **EACVI MASCOT HIT** study – Principal investigator 10.3390/diagnostics10110946.
- **EchoNoRMAL** study - Collaborator 10.1016/j.jcmg.2015.02.014
- **FAST-EF** study – Investigator 10.1016/j.jacc.2015.07.052

## Scientific output (see *Annex 1*):

- **264 papers** in peer-reviewed journals (Scopus 12/08/2024)
- **3 books** as co-editor (including Badano L, Lang RM, Muraru D. Textbook of 3D Echocardiography – 2nd Ed Springer 2019)
- **73 chapters** in international textbooks (including Hurst's the Heart 15th Ed; Solomon's Essential Echocardiography: A Companion to Braunwald's Heart Disease; EACVI Textbook of Echocardiography; ESC Textbook of Cardiovascular Imaging; ESC Textbook of Cardiovascular Medicine; ASE's Comprehensive Echocardiography 2nd and 3rd Ed; ASE's Comprehensive Strain Imaging; Skubas, Nicoara, Savage's Comprehensive Textbook of Intraoperative Transesophageal Echocardiography 3rd Ed; Shiota's 3D Echocardiography 3rd Ed)
- **334 abstracts** at international (ASE, EuroEcho Imaging, ESC) and national congresses

**Scopus metrics: H-index = 52, citations = 23502** (as of 13/08/2024)

**Google scholar metrics: H-index = 64, citations = 33272** (as of 13/08/2024)

**ORCID ID:** https://orcid.org/0000-0003-2514-3668

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## Clinical Activity:

- **2011-2019 -** Cardiologist/Echocardiographer - Echocardiography Laboratory with advanced level accreditation by the European Association of Cardiovascular Imaging (Director: Prof. Luigi Badano) - Cardiology Division, University of Padua, Padua, Italy
- **Since 2020, June 1st** – Cardiologist/Echocardiographer - Integrated Cardiovascular Imaging Center (Director: Prof. Luigi Badano)
- **Since 2020, September** – Lead Echocardiographer of the Cardiomyopathy Outpatient Clinic (Director: Prof. Lia Crotti) – Istituto Auxologico Italiano, IRCCS, Milan, Italy
- **Since 2023, April 1st** – Head of Heart Valve Clinic, Department of Cardiology, San Luca Hospital, Istituto Auxologico Italiano, IRCCS, Piazzale Brescia 20, 20149, Milan, Italy

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## Teaching and Academic Activity:

- Excellent teaching skills with **>60 international teaching courses** with hands-on practice on 3D echocardiography, speckle-tracking echocardiography and transesophageal echocardiography (see *Annex 1*)

- Invited **Visiting Professor at Mayo Clinic** – *Cardiac Imaging Grand Rounds* – and presenter of hands-on workshops for sonographers on transthoracic 3D echocardiography - Rochester, US – 2017
- Invited **Opponent for PhD Defense** of PhD Candidate Hjertaas J. "Measurement of LV Deformation using 3D Echocardiography"- University of Bergen, Bergen, Norway – 2023
- Promoter and reference person for the **educational and scientific exchange, and cooperation agreement** between the University of Milano-Bicocca and the Carol Davila University of Medicine and Pharmacy in Bucharest, Romania
- **Teaching 3D echocardiography, research support and mentoring activity** to international research and training fellows:
  - Dr. Alexandra Buta (Romania) – Cardiologist trainee from Bucharest (Romania), currently performing 1-year research fellowship with a project on tricuspid regurgitation at the Istituto Auxologico Italiano, Milan, Italy buta.alexandram@gmail.com
  - Dr. Alexandra Clement (Romania) – Cardiologist trainee from Iasi (Romania) – alexandram.clement@gmail.com
  - Dr. Ionela Movileanu (Romania) – Cardiologist trainee from Targu-Mures (Romania), who won a training grant from the Romanian Society of Cardiology – movileanu.ionela@yahoo.com
  - Dr. Noela Radu (Romania) - Cardiologist trainee from Bucharest (Romania), currently working as Cardiologist at the Istituto Auxologico Italiano, Milan, Italy – noela.radu91@gmail.com
  - Dr. Diana Ruxandra Florescu (Romania) - Cardiology trainee from Craiova (Romania) with Erasmus + traineeship agreement – dianarflorescu@yahoo.com
  - Dr. Pelegrino Ciampi (Italy) – Cardiology trainee from Fondazione Policlinico Universitario A. Gemelli IRCCS, Roma – pellegrino.ciampi.rc@gmail.com
  - Dr. Diana Mihalcea (Romania) - Cardiologist from Bucharest (Romania) who won an EACVI Training Grant in 2019 – dyddy_free@yahoo.com
  - Dr. Roberto Carlos Ochoa Jimenez (Republic of Honduras) - currently Cardiology Fellow at the Division of Cardiology, Department of Medicine, Mount Sinai Fuster Heart Hospital, New York, USA – roberto_ochoa@hotmail.es
  - Dr. Andrada Camelia Guta (Romania) – Cardiologist trainee from Bucharest who won a research grant from the Romanian Society of Cardiology, currently working as Cardiologist performing perioperative 2D and 3DTEE and CMR in Romania – andrada_guta@yahoo.com
  - Dr Sorina Mihaila (Romania) – Cardiologist from Bucharest (Romania) who won an EACVI Training Grant in 2012 and an ESC Research Grant in 2013, now Senior Lecturer at the University of Medicine in Bucharest performing clinical and interventional 2D/3DTEE – sorinamihaila1981@gmail.com
  - Dr. Marcelo Haertel Miglioranza (Brazil) – Cardiologist from Porto Alegre (Brazil) currently working as Professor at the post-graduation program and lead of Research Lab in Cardiovascular Imaging and Innovation marcelohaertel@gmail.com
  - Dr. Hugo Zanella (Mexico) - Cardiologist from National Institute of Cardiology Ignacio Chavez, Mexico City, Mexico – hugordzanella@gmail.com
  - Dr. Sebastian Onciul (Romania) – Cardiologist from Bucharest (Romania) expert in CMR imaging - sebastian.onciul@gmail.com
  - Dr. Csaba Jenei (Hungary) – Cardiologist from Debrecen, currently Assistant Professor of Cardiology csjenei@gmail.com
  - Dr. Jurate Bidviene (Lithuania) – Cardiologist from Kaunas, currently Assistant Professor at the Lithuanian University of Health Sciences, Kaunas, Lithuania jurate.bidviene@lsmuni.lt
  - Dr. Elena Surkova (Russia) - Cardiologist who won EACVI and ESC research grants, currently an international expert in cardiovascular imaging and congenital heart disease, Senior Medical Director at AstraZeneca and Honorary Consultant Cardiologist at Royal Brompton and Harefield Hospitals (UK) – elena.surkova.md@gmail.com
  - Dr. Attila Kovács (Hungary) - Cardiologist from Hungary, currently an Assistant Prof at Semmelweis University, Head of Echocardiography Research and Core Laboratory, Co-inventor of the ReVISION method to assess RV mechanics by 3D Echocardiography – kovatti@gmail.com

    and others
- Mentoring EACVI HIT in the **EACVI Leader of Tomorrow program** with the topic "Social Media and Building Your Personal Brand"- 8 June 2023
- Directed and organized the **EACVI 3D Echo Tutorials on Valvular Heart Disease 2024**
- Participated as a presenter in the first **EACVI Tutorials on Transthoracic Echocardiography 2014**
- Proposed and implemented since 2020 the **EACVI Excellence in Education Awards**, project aimed to recognize outstanding educators in the field of cardiovascular imaging
- Proposed (as Chair of EAE Club 35) and obtained approval from the EAE Board for the introduction of **EACVI Training Grants** designing and implementing the project together with the Club 35 Committee

- Teaching echocardiography to cardiology trainees, MDs and international cardiology fellows in the echo lab since 2011
- Invited lecturer "3D Echocardiography: State-of-the-Art" for Prof. Dr. CC Iliescu (Bucharest, Romania) cardiology trainees (2022-2024)
- Member of PhD Teaching Faculty (Collegio Docenti) *PhD Research Course of Translational Specialized Medicine "G.B. Morgagni"*, University of Padua, Italy – since 2018
- Faculty member for Medical School-University of Milano-Bicocca and University of Padua
- Faculty and Scientific Secretary *Online Master Course on Basic and Advanced Echocardiography*, University of Padua (2016-2019)
- Lecturer of *Cardiology Intensive Care Master Course*, University of Padua, Italy (2019)
- Director of Teaching Courses for MDs *Applications of Three-Dimensional Technology to Cardiovascular Imaging* and *Basic Course of Two and Three-Dimensional Echocardiography with Practical Hands-On Training* (2017-2019, University of Padua)
- Co-Director of the International Course *3D Echo Intensive Course* 2012-2019 - 3 editions/year and 14 extramural courses (University of Padua, Italy)
- Co-Director of the *EACVI Teaching Course on 2D and 3D Transesophageal Echocardiography* (2017, 2018, 2019 – European Heart House, Sophia Antipolis, France)
- Member of the Organizing Committee and Faculty of the *Echocardiography for Trainees* Teaching Course (20 October 2018, Antalya, Turkey) organized by the EACVI Heart Imagers of Tomorrow and Turkish Society of Cardiology Cardiac Imaging Working Group
- Scientific Secretary of *My Echocardiolab* online free course (Spanish) organized by ECHOSIAC, Interamerican Society of Cardiology and University of Padua
- Member of Scientific Committee of *China-Europe Echocardiography CME Project*: Interactive Webcast on Basic and Advanced Echocardiography (October 2014-September 2016) organized by University of Padua
- Member of Scientific Committee of *3D Echo 360°* E-learning platform
- Invited Speaker at *Marcus Heart Valve Center online teaching conferences* (2014 – Piedmont Atlanta, US)
- Invited Speaker *ASE's DVD: Utility of 3D Echocardiography: Promises and Perspectives* - web-based recording of the digital lecture "Assessment of LA Function" (2018)

## Scientific Meetings and Invited Presentations (see *Annex 2*):

- Participated in the organization of **28 large international congresses, teaching courses and conferences** (EuroEcho 2024, EACVI 2023, ESC Congress 2019, EchoNice 2022, EchoLisbon 2023, etc)
- **337** invited presentations and chairperson roles (Invited Faculty at EuroEcho since 2009, ESC Congress since 2012)

## Associate Editor:

- IMAGING (Senior Associate Editor)
- CASE (Subsection Editor for the Advanced Echo Tools & The Right Ventricle).

## Editorial Board Member:

- J Am Soc Echocardiogr

- Eur Heart J Cardiovasc Imaging (Social Media Editor since 2020)
- Rom J Cardiol

## Invited Co-Editor of Focus Issue:

- The Right Heart. European Heart Journal – Cardiovascular Imaging Vol 23, Issue 7, July 2022 (IF 9.130)

**Reviewer:** JACC, JACC Imaging, Eur Heart J, Eur J Heart Fail, JACC Cardiovascular Interventions, Circulation, EuroIntervention

## Fellowships/honors (see *Annex 3*):

- Honorary Lecture PolEcho 2024 - the annual Congress of the Association of Echocardiography of the Polish Society of Cardiology, Cracow, 2024
- Keynote Lecture at the Annual Symposium of the Belgian Working Group on Non-Invasive Cardiac Imaging (BWGNICI) – 2022
- Fellow American Society of Echocardiography - 2019
- Fellow American College of Cardiology – 2019
- Fellow European Society of Cardiology - 2018
- Honorary Lecture "Gerhard Hoghenkerke" – German Society of Cardiology (DGK) Cardiology Congress, Leipzig 2019
- Honorary Member Romanian Society of Cardiology – 2018
- European Association of Echocardiography Research Grant Award Winner - 2011

## Professional Societies Memberships and Positions within EACVI and ESC:

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| **Since 2007** | **ESC/EACVI(EAE) member** |
| **2010-2012** | Club 35 Committee member |
| | Club 35 Ambassador for Romania |
| **2012-2014** | **Chair of Club 35 Committee – EACVI Board** |
| | Member of Scientific Documents Committee |
| | Member of European Communities Committee |
| **2014-2016** | **HIT Committee member (Past Chair)** |
| | Member of Scientific Documents Committee |
| | Member of Web & Communication Committee |
| **2016-2018** | **Elected Councillor – EACVI Board** |
| | **Education Committee (Chair)** |
| | Member of Scientific Documents Committee |
| | Member of EACVI Task Force of Multi-Modality Imaging (MMI) |
| | Member of EACVI FoCUS Task Force |
| **2018-2020** | **Elected Councillor (Echo Section) – EACVI Board** |
| | **Education Committee (Chair)** |
| | Member of Scientific Documents Committee |
| | Member of Web & Communication Committee |

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| | Member of EACVI Excellence in Education Awards Task Force |
| | Member of ESC Education Committee (EACVI representative) |
| | Member of ESC Task Force of Live Events Endorsement (EACVI representative) |
| | Member of ESC Congress Program Committee (EACVI representative) |
| 2020-2022 | **Elected Vice-President Elect (Echo Section) – EACVI Board** |
| | **Research and Innovation Committee (Chair)** |
| | Member of ESC Education Committee (EACVI representative) |
| | Member of ESC Clinical Case Gallery Task Force |
| 2022-2024 | **Vice-President (Echo Section) – EACVI Board** |
| | **Web and Communication Committee (Deputy Chair)** |
| | **EuroEcho Imaging 2024 Scientific Program Chair** |

## Other memberships:

- HFA Silver Member
- EAPCI Regular Member
- ESC WG on Myocardial and Pericardial Diseases
- ESC Council on Hypertension
- Italian Society of Cardiology – Valvular Heart Disease WG, SIECVI

## Languages:

- Romanian (mother tongue)
- English (proficient level)
- Italian (proficient level)
- French (intermediate level)

*Milan, 13 August 2024*

## Publications

### Peer-review papers indexed on PubMed/PubMed Central (PMC)


1. Dreyfus J, Juarez-Casso F, Sala A, Carnero-Alcazar M, Eixerés-Esteve A, Bohbot Y, Bazire B, Flagiello M, Riant E, Mbaki Y, Tomasi J, Senage T, Rahmouni El Idrissi K, Coisne A, Eyharts D, Doguet F, Viau F, Eggenspieler F, Heuts S, Sardari Nia P, Heitzinger G, Galloo X, Ajmone-Marsan N, Benfari G, Badano L, Muraru D, Maisano F, Topilsky Y, Michelena H, Enriquez-Sarano M, Bax JJ, Bartko P, Selton-Suty C, Habib G, Lavie-Badie Y, Modine T, Chan V, Le Tourneau T, Donal E, Lim P, Radu C, Bernick J, Wells GA, Tribouilloy C, Iung B, Obadia J, De Bonis M, Crestanello J, Messika-Zeitoun D for the TRIGISTRY investigators.Long-term benefit of isolated surgical tricuspid valve repair and replacement in patients with severe functional tricuspid regurgitation – Impact of the TRI-SCORE. Eur Heart J. 2024 (in press)
2. Zgheib A, De Backer O, Afilalo J, Quagliana A, Campens L, Asmar M, Al Ismaili A, Angiolillo D, Ajmone Marsan N, von Bardeleben RS, Buithieu J, Cavalcante J, Chetrit M, Choi C, Coisne A, Delgado V, Donal E, Duncan A, Dreyfus J, Fam N, Grapsa J, Granada J, Gackowski A, Hahn R, Ho E, Latib A, Medina de Chazal H, Martucci G, Maisano F, Messika-Zeitoun D, Modine T, Muraru D, Mousavi N, Praz F, Redwood S, Patterson T, Enriquez-Sarano M, Spaziano M, Swaans M, Sitges M, Zamorano Gómez JL, Van Mieghem N, Tchetche D, Tournoux F, Wunderlich N, Prendergast N, Piazza N. Tricuspid valve - S-curves and chamber views Implications for transcatheter tricuspid and pulmonary valve interventions. JACC Cardiovasc Interv 2024 (in press)
3. Gavazzoni M, Badano LP, Pugliesi GM, Penso M, Hădăreanu DR, Ciampi P, Fisicaro S, Oliverio G, Heilbron F, Tomaselli M, Muraru D. Assessing Right Atrial Size in Patients with Tricuspid Regurgitation: Importance of the Right Ventricular-Focused View. Eur Heart J Cardiovasc Imaging. 2024 Jul 25:jeae186. doi: 10.1093/ehjci/jeae186. Epub ahead of print. PMID: 39052930.
4. Westwood M, Almeida AG, Barbato E, Delgado V, Dellegrottaglie S, Fox KF, Gargani L, Huber K, Maurovich-Horvat P, Merino JL, Mindham R, Muraru D, Neubeck L, Nijveldt R, Papadakis M, Pontone G, Price S, Rosano GMC, Rossi A, Sade LE, Schulz-Menger J, Weidinger F, Achenbach S, Petersen SE. Competency-based cardiac imaging for patient-centred care. A statement of the European Society of Cardiology (ESC). With the contribution of the European Association of Cardiovascular Imaging (EACVI), and the support of the Association of Cardiovascular Nursing & Allied Professions (ACNAP), the Association for Acute CardioVascular Care (ACVC), the European Association of Preventive Cardiology (EAPC), the European Association of Percutaneous Cardiovascular Interventions (EAPCI), the European Heart Rhythm Association (EHRA), and the Heart Failure Association (HFA) of the ESC. Eur Heart J Imaging Methods Pract. 2023 Aug 25;1(2):qyad023. doi: 10.1093/ehjimp/qyad023. PMID: 39045068; PMCID: PMC11195717.
5. Badano LP, Tomaselli M, Muraru D, Galloo X, Li CHP, Ajmone Marsan N. Advances in the Assessment of Patients with Tricuspid Regurgitation: A State-of-the-Art Review on the Echocardiographic Evaluation Before and After Tricuspid Valve Interventions. J Am Soc Echocardiogr. 2024 Jul 17:S0894-7317(24)00356-0. doi: 10.1016/j.echo.2024.07.008. Epub ahead of print. PMID: 39029717.
6. Muraru D, Badano LP. Impact of new-onset atrial fibrillation on the incidence of tricuspid regurgitation: a call to attention. Eur Heart J. 2024 Jul 8:ehae382. doi: 10.1093/eurheartj/ehae382. Epub ahead of print. PMID: 38973019.
7. Cameli M, Aboumarie HS, Pastore MC, Caliskan K, Cikes M, Garbi M, Lim HS, Muraru D, Mandoli GE, Pergola V, Plein S, Pontone G, Soliman OI, Maurovich-Horvat P, Donal E, Cosyns B, Petersen SE. Multimodality imaging for the evaluation and management of patients with long-term (durable) left ventricular assist devices A Clinical Consensus Statement of the European Association of Cardiovascular Imaging (EACVI) of the ESC. Eur Heart J Cardiovasc Imaging. 2024 Jul 5:jeae165. doi: 10.1093/ehjci/jeae165. Epub ahead of print. PMID: 38965039.
8. 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, Vandenberk 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; PMCID: PMC11211946.
9. Badano LP, Tomaselli M, Gavazzoni M, Clement A, Muraru D. Management of Isolated Tricuspid Regurgitation: 2 Sides of the Same Coin. JACC Cardiovasc Interv. 2024 Jun 10;17(11):1408. doi: 10.1016/j.jcin.2024.04.033. PMID: 38866464.
10. Tomaselli M, Badano LP, Muraru D. Letter by Tomaselli et al Regarding Article, "Left Atrial Strain Predicts Subclinical Atrial Fibrillation Detected by Long-Term Continuous Monitoring in Elderly High-Risk Individuals". Circ Cardiovasc Imaging. 2024 Jun;17(6):e016864. doi: 10.1161/CIRCIMAGING.124.016864. Epub 2024 May 22. PMID: 38775055.
11. Dreyfus J, Taramasso M, Kresoja KP, Omran H, Iliadis C, Russo G, Weber M, Nombela-Franco L, Estevez Loureiro R, Hausleiter J, Latib A, Stolz L, Praz F, Windecker S, Zamorano JL, von Bardeleben RS, Tang GHL, Hahn R, Lubos E, Webb J, Schofer J, Fam N, Lauten A, Pedrazzini G, Rodés-Cabau J, Nejjari M, Badano L, Alessandrini H, Himbert D, Sievert H, Piayda K, Donal E, Modine T, Nickenig G, Pfister R, Rudolph V, Bernick J, Wells GA, Bax J, Lurz P, Enriquez-Sarano M, Maisano F, Messika-Zeitoun D; TRIGISTRY Investigators. Prognostic Implications of Residual Tricuspid Regurgitation Grading After Transcatheter Tricuspid Valve Repair. JACC Cardiovasc Interv. 2024 Jun 24;17(12):1485-1495. doi: 10.1016/j.jcin.2024.04.023. Epub 2024 May 16. PMID: 38752971.
12. Schuuring MJ, Anwer S, Petersen SE, Moharem-Elgamal S, Muraru D. Social media for cardiac imagers: a review. Eur Heart J Cardiovasc Imaging. 2024 Apr 23:jeae109. doi 10.1093/ehjci/jeae109. Epub ahead of print. PMID: 38650541.
13. Tolvaj M, Kovács A, Radu N, Cascella A, Muraru D, Lakatos B, Fábián A, Tokodi M, Tomaselli M, Gavazzoni M, Perelli F, Merkely B, Badano LP, Surkova E. Significant Disagreement Between Conventional Parameters and 3D Echocardiography-Derived Ejection Fraction in the Detection of Right Ventricular Systolic Dysfunction and Its Association With Outcomes. J Am Soc Echocardiogr. 2024 Jul;37(7):677-686. doi: 10.1016/j.echo.2024.04.005. Epub 2024 Apr 17. PMID: 38641069.
14. Fisicaro S, Clement A, Tomaselli M, Penso M, Rota A, Menna A, Badano LP, Muraru D. Timing and Patient Position During Cuff Blood Pressure Measurement Affect Myocardial Work Parameters Measured by Echocardiography. J Am Soc Echocardiogr. 2024 Jul;37(7):690-697. doi: 10.1016/j.echo.2024.03.018. Epub 2024 Apr 7. PMID: 38593889.
15. Hahn RT, Muraru D, Lindman BR, Delgado V, Dweck MR. Heart valve disease: at the threshold of a new era in patient management. Lancet. 2024 Apr 20;403(10436):1519-1522. doi: 10.1016/S0140-6736(24)00423-9. Epub 2024 Mar 27. PMID: 38554723.
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**Abstracts presented at national congresses:**

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2. Michele Tomaselli, Denisa Muraru, Alexandra Clement, Marco Penso, Noela Radu, Francesco P. Perelli, Andrea Cascella, Mara Gavazzoni, Antonio Sorropago, Sergio Caravita, Claudia Baratto, Samantha Fisicaro, Gianfranco Parati, Luigi P. Badano. The prognostic impact of right ventricular function and right ventricular-to-pulmonary artery coupling in patients with low-risk secondary tricuspid regurgitation. Abstract 84° Congresso Società Italiana di Cardiologia 2023
3. Mara Gavazzoni, Andrea Cascella, Marco Penso, GiordanoMaria Pugliesi, Alexandra Clement (4), Michele Tomaselli, Francesca Heilbron, Giorgio Oliverio, Sergio Caravita, Claudia Baratto, Samantha Fisicaro, Gia nfranco Parati, Cristina Giannattasio, Luigi Paolo Badano, Denisa Muraru. In patients with secondary tricuspid regurgitation the use of the conventional apical 4-chamber view underestimates the right atrial volumes calculated by two-dimensional echocardiography. Abstract 84° Congresso Società Italiana di Cardiologia 2023
4. Alexandra Clement, Michele Tomaselli, Luigi P. Badano, Mara Gavazzoni, Andrea Cascella, Diana R, Handareanu, Noela Radu, Samantha Fisicaro. Marco Penso, Sergio Caravita, Claudia Baratto, Denisa Muraru. Correcting the right ventricular ejection fraction by the volume overload improves the association with outcome in patients with secondary tricuspid regurgitation. Abstract 84° Congresso Società Italiana di Cardiologia 2023
5. Fisicaro Samantha, Alexandra Clement, Michele Tomaselli, Marco Penso, Alessandra Rota, Alessandro Menna, Luigi P. Badano, Denisa Muraru. Timing and patients' position during cuff blood pressure measurement affect myocardial work parameters measured by echocardiography. Abstract 84° Congresso Società Italiana di Cardiologia 2023
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## Organiser of International Scientific Meetings, Congresses and Courses

1. Scientific Program (SP) Chair EuroEcho Imaging 2024 Congress
2. Scientific Program Co-Chair EACVI 2023 Congress
3. Scientific Program Co-Chair EuroEcho 2021 Congress
4. Co-Director PCR Imaging Valves Madrid 2023, 2024
5. PCR Tricuspid Focus Group Referral Meeting - Regional chapter member - Milan 2024
6. Co-Director EACVI Echo Lisbon 2023
7. Co-Director EACVI Echo Nice 2022
8. CPC Member ESC Congress 2018-2020
9. Co-Director EACVI Teaching Course on 2D and 3D TOE (2017-2019)
10. Scientific Program Committee Advisor EuroEcho Congress 2019, 4-7 December 2019, Vienna, Austria
    - Organizer "Course on 3D Echocardiography by EACVI/ASE" with Rebecca Hahn (New York, US)
    - Organizer "EACVI TOE workshop" with Prof. Bogdan A. Popescu (Bucharest, Romania) - teaching course with hands-on practice on TEE simulators sponsored by Medaphor/Heartworks
11. Director of EACVI Webinar Program as Chair EACVI Education Committee 2016-2018 e 2018-2020
    https://www.escardio.org/Sub-specialty-communities/European-Association-of-Cardiovascular-Imaging-(EACVI)/Education/Webinars
    https://www.youtube.com/results?search_query=eacvi+free+webinar
12. Supervisor of EACVI E-learning courses as Chair EACVI Education Committee
    https://www.escardio.org/Sub-specialty-communities/European-Association-of-Cardiovascular-Imaging-(EACVI)/Education/eacvi-e-learning-courses
13. Co-Director of International Workshop "3D Echo 360° European Edition" - 13-15 September 2019, Padua, Italy
14. Scientific Program Committee Advisor EuroEcho Imaging 2018 5-8 December 2018, Milan, Italy
    - Organizer "EACVI TOE workshop" with Prof. Bogdan A. Popescu (Bucharest, Romania) - teaching course with hands-on practice on TEE simulators sponsored by Medaphor/Heartworks
    - Organizer "EACVI Echocardiography Core Curriculum Teaching Course
15. Co-Director "3D Echocardiography: Meet the Experts" - 25-27 October 2018, Eindhoven, The Netherlands
16. Member of Organizing Committee "Echocardiography for Trainees" Teaching Course organized by the EACVI Heart Imagers of Tomorrow and Turkish Society of Cardiology Cardiac Imaging Working Group – 20 October 2018, Antalya, Turkey
17. Co-Director International Course "Why and how to implement 4D TTE and 4D TEE in the routine of the echocardiography laboratory", 5-7 April 2018, Beirut, Lebanon
18. Scientific Committee Advisor - EuroEcho Imaging 2017 6-9 December 2017, Lisbon, Portugal
19. Co-Director International Course "3D Intensive Course", Padua, Italy - 3 editions/year since 2013
20. Co-Director International Workshop "3D Echo 360° European Edition" – 21-23 September 2017, Padova, Italy
21. Member of Scientific Committee International Congress "Right Heart - The New Frontier" - 1-3 March 2017, Padova, Italy
22. Organiser of International Course with online hands-on teaching sessions "Curso Intensivo de Formaçao em Ecocardiografia"- 10-14 October 2016, Rio de Janeiro, Brasil
23. Scientific Committee member of online echocardiography course (chinese): "China-Europe Echocardiography CME Project: Interactive Webcast on Basic and Advanced Echocardiography" organized by Chinese Society of Echocardiography and University of Padua (2014-2016)
24. Scientific secretary and speaker Tutorials for online course of echocardiography "My Echocardiolab" (spanish) organised by ECHOSIAC, Interamerican Society of Cardiology and University of Padova (2014-2015)
25. Organizer of International Workshop "3D Echo 360°. European Edition. From Innovation to Practice"- 26-27 October 2015, Padua, Italy
26. Scientific secretary of online course "Clinically oriented course on Echocardiography" organized by University of Padua, Emirates Cardiac Society and Gulf Heart association (2015)

27. Organiser of International Course "Echocardiography for trainees - Teaching course with hands-on sessions", 18 October 2014, Sofia, Bulgaria
28. Organiser of International Course "The Role of Advanced Cardiac Imaging: Course on 3D echo", 8-10 May 2013, Padua, Italy

## Presentations

***IT**, invited talks; **AP**, abstract presentation*

1. "Mitral regurgitation" – Echocardiography made easy - ESC Congress 2024, 1 Sep, London, UK **(IT)**
2. "New Approaches to Assessing RV Remodeling and Dysfunction by Echocardiography" – TomTec Webinar – 27 June 2024, online **(IT)**
3. "Tricuspid regurgitation severity grading: severe, massive, torrential – Does it really matter?" SECVI Webinar – 13 June 2024, online **(IT)**
4. "How to assess right ventricle function prior to transcatheter tricuspid valve replacement" – EuroPCR 14-17 June 2024, Paris **(IT)**
5. **"**Pacemaker Lead and Tricuspid Valve: Diagnosis" - EuroPCR 14-17 June 2024, Paris **(IT)**
6. "Standard TOE views, applied physics and image optimization" – EACVI Teaching Course on Transoesophageal 2D and 3D Echocardiography - 24-25 May 2024, Prague, Czech Republic **(IT)**
7. "Assessment of TR by TOE" - 24-25 May 2024, Prague, Czech Republic **(IT)**
8. "3D Echocardiography: Ready for Everyday Use" – POLECHO 10-11 May 2024, Krakow, Poland **(IT)**
9. "The integrated approach in mitral regurgitation patients: is it still appropriate? Do we need to switch to hemodynamic quantification? The time schedule of MR in echocardiography in relation to intervention: Repetitive documentations prior to therapy - a "MUST"? DEK Congress 28 April 2024, Leipzig, Germany **(IT)**
10. "Atrial Functional Regurgitation: Pathophysiology, Diagnosis and Clinical Relevance"- Portuguese Congress of Cardiology CPC 19-21 April 2024, Algarve, Portugal **(IT)**
11. "Tricuspid regurgitation: indication for percutaneous treatment – the optimal timing" – SIECVI Congress 4-6 April 2024, Milan, Italy **(IT)**
12. "Classification of TR etiology: Primary, Secondary disease, and CIED-related" – PCR Imaging Valves Madrid 2024 1-2 February 2014, Madrid, Spain **(IT)**
13. "Current approaches to aortic stenosis grading and staging classifications" – PCR Imaging Valves Madrid 2024 1-2 February 2014, Madrid, Spain **(IT)**
14. "Assessment of bioprosthetic mitral valve function" - PCR Imaging Valves Madrid 2024 1-2 February 2014, Madrid, Spain **(IT)**
15. "Management of tricuspid regurgitation in heart failure" - Heart Failure 2024 - 16 February 2024, Catania, Italy **(IT)**
16. "Progress in Secondary TR" – GE workshop, Lodz, Poland – online, 31 January 2024 **(IT)**
17. "Atrial vs Ventricular Secondary Tricuspid Regurgitation – PCR Tricuspid Referral Meeting Rénnes 15 December 2023, France (online) **(IT)**
18. "Funzione ventricolare destra a riposo e da sforzo: oltre il TAPSE" – SIC Congress 2023, Rome, Italy (IT)
19. "New perspectives on atrial secondary tricuspid regurgitation" – Echo Lisbon 30 November – 2 December 2023, Lisbon, Portugal **(IT)**
20. "An intriguing case of TR" - Echo Lisbon 30 November – 2 December 2023, Lisbon, Portugal **(IT)**
21. "Echocardiography of the Tricuspid Valve - Diagnostic and Therapeutic Considerations" - CSC-ESC Joint Session Cardiac Imaging to Solve Clinical Problems - 25th Scientific Session of the Chinese Society of Cardiology – 3 November 2023 (online) **(IT)**
22. "La valutazione tridimensionale ecocardiografica della valvola tricuspide" - ECHO VALVE SURGERY VII National Congress 19-20 October 2023 Naples, Italy **(IT)**
23. "Atrial Functional Mitral Regurgitation" – EACVI Course: Cardiac Imaging in Clinical Practice – 13-14 October 2023, Bucharest, Romania **(IT)**
24. **"**Left atrial cardiomyopathy" - – EACVI Course: Cardiac Imaging in Clinical Practice – 13-14 October 2023, Bucharest, Romania **(IT)**
25. "Clinical and Echocardiographic Phenotypes of TR" – GISE Congress – 3-6 October 2023, Milan, Italy **(IT)**
26. "Echocardiography when and how in hypertensive patient" – ESH Summer School – 24-29 September, Villa Cagnola, Italy **(IT)**
27. "Interventional treatment of tricuspid regurgitation: echocardiographic assessment before the procedure" – SIECVI Conference - 16 September 2023, Torino, Italy **(IT)**

28. **"**State-Of-The-Art Lecture: New Insights Into Left Atrial Cardiomyopathy" – ESC Congress 25 August 2023, Amsterdam, The Netherlands **(IT)**

29. "Understanding TR complexity: etiologies and anatomical imaging" – EuroPCR 2023, Paris **(IT)**
30. "Social Media and Building Your Personal Brand" – 8 June 2023, EACVI Leader of Tomorrow programme (online) **(IT)**
31. "Echocardiographic Techniques and Tips to Optimize the Diagnosis and Characterization of HCM" – EACVI 2023 Congress 10-12 May 2023 – Barcelona, Spain **(IT)**
32. "Advances in the Assessment of Secondary TR - EACVI 2023 Congress 10-12 May 2023 – Barcelona, Spain **(IT)**
33. "EACVI 2023 Highlights – Echocardiography" - EACVI 2023 Congress 10-12 May 2023 – Barcelona, Spain **(IT)**
34. "Imaging Insight into the Pathophysiology of Tricuspid Regurgitation" - ACC 4-6 March 2023 (online) **(IT)**
35. "How to select patients for tricuspid regurgitation interventions based on anatomical and functional assessment" – EACVI – PCR Tricuspid Focus Group webinar – online 26 January 2023 **(IT)**
36. "How to Assess Tricuspid Regurgitation Severity" - EACVI Webinar "New vision on the tricuspid valve" - 15 December 2022 https://esc365.escardio.org/event/508 **(IT)**
37. "Atrial Functional Mitral and Tricuspid Regurgitation" – Keynote Lecture at the Annual Symposium of the Belgian Working Group on Non-Invasive Cardiac Imaging (BWGNICI) "Valvular Heart Disease in Heart Failure" - 18 November 2022, Brussels, Belgium **(IT)**
38. "Tricuspid regurgitation: novel advances in understanding its anatomy, pathophysiology and treatment" - Cardiovascular Institute of the Hospital Clínic de Barcelona weekly online scientific meeting - 4 November 2022 **(IT)**
39. "Left ventricular hypertrophy: measures for differential diagnosis" - Theoretical-practical course of echocardiography, A.R.C.A. Eco Liguria - 11-12 November 2022, Genoa **(IT)**
40. "The research journey from Mentee to Mentor" - Istituto Auxologico Italiano and Romanian Cardiology: A Long-Standing Win-Win Collaboration - 26 November 2022, Bucharest, Romania **(IT)**
41. "Standard TOE views, applied physics and image optimization" - EACVI Teaching Course on Transoesophageal 2D and 3D Echocardiography – 21-23 October 2022, Prague, Czech Republic
42. "Advanced examination of the tricuspid valve" - EACVI Teaching Course on Transoesophageal 2D and 3D Echocardiography – 21-23 October 2022, Prague, Czech Republic **(IT)**
43. "Tricuspid regurgitation and atrial fibrillation" - ECM course "Diagnostics and treatment of mitral and tricuspid regurgitation in 2022" organized by the Istituto Auxologico Italiano, IRCCS, San Raffaele Hospital, IRCCS and Milan-Bicocca University with the unconditional support of Abbott Medical Italia srl. and GE Healthcare - 2 September 2022, Auxologico San Luca Hospital, Milan **(IT)**
44. "Mitral Valvular Dynamics: Understanding the Functional Mitral Insufficiency Mechanisms" - SONECOM Imagen Cardiovascular 8th Annual Multimodality Cardiovascular Imaging Update – 13-16 July 2022, Mexico (online) **(IT)**
45. "Right ventricular strain" at the "Cardiac Imaging in Clinical Practice" Romanian Society of Cardiology course endorsed by the EACVI – 17-18 June 2022, Bucharest, Romania **(IT)**
46. "The phenotypes of tricuspid regurgitation: how does echo help?" at the "Cardiac Imaging in Clinical Practice" Romanian Society of Cardiology course endorsed by the EACVI – 17-18 June 2022, Bucharest, Romania **(IT)**
47. "Imaging in Hypertrophic cardiomyopathy" at the "Cardiac Imaging in Clinical Practice" Romanian Society of Cardiology course endorsed by the EACVI – 17-18 June 2022, Bucharest, Romania **(IT)**
48. "Sindrome del Prolasso Mitralico: Mito o Realtà" - Corso ECM "La diagnostica ed il trattamento delle insufficienze mitralica e tricuspidale nel 2022" organizzato da Istituto Auxologico Italiano, IRCCS, Ospedale San Raffaele, IRCCS e Università Milano-Bicocca con il supporto incondizionato di Abbott Medical Italia srl. e GE Healthcare - 6 May 2022, Ospedale Auxologico San Luca, Milano **(IT)**
49. "Tricuspid and Pulmonary Valve Diseases" – EACVI Level 1 Online Program – 23 June 2022 **(IT)**
50. "3D Echocardiography: RV Volumes and Ejection Fraction" - Grey Zones – 9-11 June 2022, Bergamo **(IT)**
51. "3D EF Left and right: how to measure, interpret and report" - EACVI EchoNice Course – 19-21 May 2022, Nice, France **(IT)**
52. "The phenotypes of tricuspid regurgitation: what echo brings" - EACVI EchoNice Course - 19-21 May 2022, Nice, France **(IT)**

53. “Anatomic and Functional Classifications of TR: Clinical Application” – ACC Congress, 1 April 2022 (online) **(IT)**
54. “Selecting the most appropriate transcatheter TV intervention: what do I need to know?” in the PCR Tricuspid Group Webinar “Imaging the journey of a patient with severe tricuspid regurgitation: from diagnosis to management” - 22 December 2021 (online) https://www.youtube.com/watch?v=XYS0_-8YXDE&t=1381s **(IT)**
55. “Latest Advances to Analyze Right Heart Efficiently” – 9-11 December, EuroEcho 2021 (online) **(IT)**
56. “How and Why to Assess the Functional Anatomy and Etiology of TR” – 9-11 December, EuroEcho 2021 (online) **(IT)**
57. “Pacemaker leads: pathophysiological role and tips for imaging” – 2021 PCR London Valves – 21-23 November 2021 (online) **(IT)**
58. “Newer Echo Techniques and Their Role in Pulmonary Hypertension” - RV Echocardiography Masterclass: Sheffield Pulmonary Hypertension Meeting – 22 October 2021 (online) **(IT)**
59. “When and How to Optimize 3D Ventricular Assessment” – British Society of Echocardiography – 16 October 2021 (online) **(IT)**
60. “Anatomy of Tricuspid Valve and Classification of Tricuspid Regurgitation” in the PCR Tricuspid Group Webinar “Natural history and prognosis of tricuspid valve disease” - 22 September 2021 (online) https://www.youtube.com/watch?v=2f8WkRJlZAM **(IT)**
61. “Tricuspid valve Imaging” - American Society of Echocardiography Scientific Sessions - 18-21 June 2021 (online) **(IT)**
62. “American Society of Echocardiography’s 22nd Annual Feigenbaum Lecture: Right Heart, Right Now: The Role of Three-Dimensional Echocardiography” - - American Society of Echocardiography Scientific Sessions - 18-21 June 2021 (online) **(IT)**
63. “The Role of Advanced Echocardiography to Understand the Pathophysiology of FTR” - Innovation in Patient-Centered Multimodality Cardiac Imaging online symposium – 11 June 2021 (online) **(IT)**
64. Mitral Valve Prolapse or MV Billowing: What are the criteria and how should I properly and easily name it” – Brazilian International Symposium of Cardiovascular Imaging - DIC 2021 - 6 March 2021 (online) **(IT)**
65. “RV longitudinal strain: technical pitfalls and clinical value” - Brazilian International Symposium of Cardiovascular Imaging - DIC 2021 - 6 March 2021 (online) **(IT)**
66. “Welcome Seminar” – Value of 3D Echocardiography for the Imaging Assessment of the Right Heart” – 25 February 2021 (online) University of Milano-Bicocca https://www.youtube.com/watch?v=ZBZUpOGJj_o&t=9s **(IT)**
67. “La valutazione della funzione sistolica nel paziente post COVID, cosa cercare e con che tempistiche”. Corso A.R.C.A. Eco Liguria – 5 Dicembre 2020, Genova (online) **(IT)**
68. “Practical tips for 3D Transthoracic Echocardiography” organized by International Society of Tele-Medicine and eHealth – 26 November 2020 (online) **(IT)**
69. “Tricuspid Valve Evaluation in 2020” - ANCAM XIX Mexican National Congress of Cardiology online – 28 October 2020 **(IT)**
70. “3D Echo for Myocardial Structure and Function Assessment” - Saudi and Gulf Heart Association (SHA/GHA) Virtual meeting 2020 – 10 October 2020 **(IT)**
71. **“**TR Severity Assessment: My Routine” - Re-IMAGINE New York virtual meeting – 8 October 2020 **(IT)**
72. **“**Multimodality Imaging of the Tricuspid Valve and the Right Heart” – ESC Congress 2020 The Digital Experience **(IT)**
73. **“**Essential Tips on 3D Acquisition and Postprocessing” – EACVI webinar – 18 February 2020 (IT)
74. “3D Echocardiography in Clinical Practice: Implementation of 3D-TTE and 3D-TEE in the Daily Routine. Is it a Must, or just a Toy?” Honorary lecture “Gerhard Hoghenkerke” Mitteldeutscher Echokardiographie-Kongress der DGK – 14 June 2019, Leipzig, Germany **(IT)**
75. “My best 4D Clinical Case: Complication After Transapical TAVI Procedure” - PolEcho 2019. XXV World Congress of Echocardiography and Allied Techniques WorldEcho 2019, 17-19 May 2019, Lodz, Poland **(IT)**
76. “Tricuspid valve in 3D: specific benefits” - PolEcho 2019. XXV World Congress of Echocardiography and Allied Techniques WorldEcho 2019, 17-19 May 2019, Lodz, Poland **(IT)**
77. “Will 3D solve any issue” - PolEcho 2019. XXV World Congress of Echocardiography and Allied Techniques WorldEcho 2019, 17-19 May 2019, Lodz, Poland **(IT)**
78. “Lo studio della Funzione Diastolica del Ventricolo Sinistro” – Ecocardiografia in Cardiologia Pediatrica 5° Ed., 9-11 May 2019, Padova, Italy **(IT)**
79. “CMR in the evaluation and clinical management of mitral regurgitation” – EuroCMR 2019, 2-4 April 2019, Venice Lido, Italy **(IT)**

80. "Acquisition of 4D data sets" – Implementation of 4DTTE and 4DTEE in the routine of the echocardiography laboratory" – 24-26 Jan 2019, Dubai, United Arab Emirates **(IT)**
81. "Display and post-processing of 4D data sets" – Implementation of 4DTTE and 4DTEE in the routine of the echocardiography laboratory" – 24-26 Jan 2019, Dubai, United Arab Emirates **(IT)**
82. "The added value of 3D echo for assessing the aortic valve" – Implementation of 4DTTE and 4DTEE in the routine of the echocardiography laboratory" – 24-26 Jan 2019, Dubai, United Arab Emirates **(IT)**
83. "4D strain" – Implementation of 4DTTE and 4DTEE in the routine of the echocardiography laboratory" – 24-26 Jan 2019, Dubai, United Arab Emirates **(IT)**
84. "The added value of 3D echo for assessing the left atrium" – Implementation of 4DTTE and 4DTEE in the routine of the echocardiography laboratory" – 24-26 Jan 2019, Dubai, United Arab Emirates **(IT)**
85. "The added value of 3D echo for assessing the right ventricle" – Implementation of 4DTTE and 4DTEE in the routine of the echocardiography laboratory" – 24-26 Jan 2019, Dubai, United Arab Emirates **(IT)**
86. "The added value of 3D echo for assessing cardiac masses" – Implementation of 4DTTE and 4DTEE in the routine of the echocardiography laboratory" – 24-26 Jan 2019, Dubai, United Arab Emirates **(IT)**
87. "ASD and LAA closure" – Implementation of 4DTTE and 4DTEE in the routine of the echocardiography laboratory" – 24-26 Jan 2019, Dubai, United Arab Emirates **(IT)**
88. "EuroEcho Imaging Highlights on New Technologies" - EuroEcho Imaging Congress, 5-8 December 2018, Milan, Italy **(IT)**
89. "Incremental Value of 3D Echocardiography in Tricuspid Valve Disease" - EuroEcho Imaging Congress, 5-8 December 2018, Milan, Italy **(IT)**
90. "Tricuspid valve regurgitation" Teaching Course - EuroEcho Imaging Congress, 5-8 December 2018, Milan, Italy **(IT)**
91. "Right ventricular geometry and function" - 3D Echocardiography: Meet the Experts - 25-27 October 2018, Eindhoven, The Netherlands **(IT)**
92. "Atria" - 3D Echocardiography: Meet the Experts - 25-27 October 2018, Eindhoven, The Netherlands **(IT)**
93. "PFO, atrial septal defect closure" - 3D Echocardiography: Meet the Experts - 25-27 October 2018, Eindhoven, The Netherlands **(IT)**
94. "Mitral valve quantification" - Echocardiography for Trainees Teaching Course organized by the EACVI Heart Imagers of Tomorrow and Turkish Society of Cardiology Cardiac Imaging Working Group - 20 October 2018, Antalya, Turkey **(IT)**
95. "Tricuspid valve" - Echocardiography for Trainees Teaching Course organized by the EACVI Heart Imagers of Tomorrow and Turkish Society of Cardiology Cardiac Imaging Working Group - 20 October 2018, Antalya, Turkey **(IT)**
96. "EACVI Education for the HIT Community" - Echocardiography for Trainees Teaching Course organized by the EACVI Heart Imagers of Tomorrow and Turkish Society of Cardiology Cardiac Imaging Working Group – 20 October 2018, Antalya, Turkey **(IT)**
97. "Imaging in Coronary Heart Disease" - 2018 Cardiovascular Diseases. Current and Future Approaches in Diagnosis and Treatment. A Theorical/Practical Interactive Course - 18-20 October 2018, Padua, Italy **(IT)**
98. "3DTOE imaging acquisition and display: a practical guide" - EACVI Teaching Course on 2D and 3D Echocardiography - European Heart House, 5-7 October 2018, Sophia Antipolis, France **(IT)**
99. "Left heart chambers" - EACVI Teaching Course on 2D and 3D Echocardiography - European Heart House, 5-7 October 2018, Sophia Antipolis, France **(IT)**
100. "Funzione e disfunzione diastolica" – XXII Congresso Regionale ARCA Sardegna, 28-29 September 2018, Oristano, Italy **(IT)**
101. "Insufficienza tricuspidale funzionale: valore prognostico ed implicazioni fisiopatologiche e terapeutiche" - 10° ARCA Imaging, 14-15 September 2018, Monastier di Treviso, Italy **(IT)**
102. "Funzione ventricolare, funzione atriale, ricostruzione 3D dell'atrio e del ventricolo, l'auricola e la mitrale in 3D" – Interactive session with hands on practice - Up to Date della Fibrillazione Atriale tra Imaging e Terapia, 15 September 2018, Roncade, Italy **(IT)**
103. "Come studiare il ventricolo destro nel 2018?" - 52° Convegno Cardiologia Milano – 24-27 September 2018 Milan, Italy **(IT)**
104. "Left atrial function assessment: when does it provide added value?" - Joint Session Romanian Society of Cardiology – European Association of Cardiovascular Imaging (EACVI). Romanian Congress of Cardiology – 19-22 September 2018, Sinaia, Romania **(IT)**
105. "Tips and tricks in the assessment of mitral valve prolapse" - Joint Session Romanian Society of Cardiology – University of Medicine and Pharmacy Carol Davila – University of Padova. Romanian Congress of Cardiology – 19-22 September 2018, Sinaia, Romania **(IT)**
106. "In pazienti con cardiopatia organica, la dispersione temporale della deformazione longitudinale segmentaria del ventricolo sinistro è un predittore di aritmie ventricolari maggiori più potente e

accurato della frazione d'eiezione del ventricolo sinistro" - 49° Congresso Nazionale ANMCO, 31 May - 2 June 2018, Rimini, Italy **(AP)**

107. "Carcinoid heart disease" – ASE 2018, 22-26 June 2018, Nashville, US **(IT)**
108. "2D and 3D Assessment of Tricuspid Valve Anatomy" - ASE 2018, 22-26 June 2018, Nashville, US **(IT)**
109. "Assessment of LA Function" – ASE's DVD: Utility of 3D Echocardiography: Promises and Perspectives – web-based recording of digital lecture – 29 March 2018 **(IT)**
110. "Functional tricuspid regurgitation: How 3D echo is changing our understanding of FTR pathophysiology?" at the Symposium "Imagen en el Paciente Valvular" - 15 March 2018, Madrid, Spain **(IT)**
111. "An uncommon mechanism of tricuspid regurgitation" - 5 January 2017, Tel-Aviv, Israel **(IT)**
112. "Hands on 3D Lunch and Learn with the Sonographers" - 14 March 2017, Mayo Clinic, Rochester, Minnessotta, US **(IT)**
113. "The added value of 3D echocardiography to assess left and right ventricles" – Invited Visiting Professor at the Mayo Clinic Cardiac Imaging Grand Rounds - 15 March 2017, Rochester, Minnessotta, US **(IT)**
114. "Workshop with sonographers and fellows: 3DE in the echo lab" - 17 March 2017, Mayo Clinic, Rochester, Minnessotta, US **(IT)**
115. International Course on 3D Echocardiography - 19-20 May 2017, Dubai (UAE) **(IT)**
116. "Echocardiographic assessment of the right ventricle" - International Congress "Right Heart - The New Frontier" - 1-3 March 2017, Padova, Italy **(IT)**
117. "Teaching eco 3D: studio della valvola tricuspide" - 18° Congresso Nazionale SIEC, 6-8 April 2017, Naples, Italy **(IT)**
118. "Ventricolo destro, tricuspide, stampa 3D" - 18° Congresso Nazionale SIEC, 6-8 April 2017, Naples, Italy
119. "Remodelling of the tricuspid valve in functional tricuspid regurgitation: are all tricuspid regurgitant valves the same?" - Imaging and the Heart, 9-14 April 2017, Erice **(IT)**
120. "Right ventricular function beyond TAPSE" - Imaging and the Heart, 9-14 April 2017, Erice, Italy
121. "Aortopatie geneticamente determinate. Diagnostica per immagini" - XXXVI Corso di aggiornamento in cardiologia pediatrica - 19-20 April 2017, Padova, Italy **(IT)**
122. IV° Workshop SIEC Triveneto 2017 "La patologia acuta e cronica dell'aorta nell'era dell'imaging multimodale" – 16 June 2017, Abano Terme, Italy **(IT)**
123. "Il 3D nella pratica clinica" - Focus on Diagnosi e management dei difetti cardiaci semplici - Ecocardiografia in Cardiologia Pediatrica III Edizione - 4-6 May 2017, Padova, Italy **(IT)**
124. "Pathology of tricuspid regurgitation by 3D echo" – Annual Scientific Congress of the Hungarian Society of Cardiology – 16 May 2017, Balatonfüred, Hungary **(IT)**
125. "3D echo or CMR for RV assessment?" - EuroCMR 25-27 May 2017, Praga, Czeck Republic **(IT)**
126. "Beyond 2D Echo: When and why should I go for …3D echocardiography" - International Congress "SYNERGY" 7-9 September 2017, Belgrade, Serbia **(IT)**
127. "Assessing left ventricular function in aortic stenosis: standard and advanced echo techniques" - International Congress "SYNERGY" 7-9 September 2017, Belgrade, Serbia **(IT)**
128. "Come misurare le dimensioni dell'atrio sinistro" - 51° Convegno Cardiologia Milano – 25-28 September 2017, Milan, Italy **(IT)**
129. "Right ventricle. Case post-processed" - "3D Echo 360° European Edition" – 21-23 September 2017, Padova, Italy **(IT)**
130. "How 3D echo changed our understanding of tricuspid regurgitation pathophysiology" - "3D Echo 360° European Edition" – 21-23 September 2017, Padova, Italy **(IT)**
131. "Anatomy and functional dysfunction: the imaging cardiologist point of view" - 29th International day of Monaco Cardio Thoracic Center"- 3 November 2017, Monaco, France **(IT)**
132. "Lessons learned about RV using 3D echo – clinical cases" - EuroEcho Imaging 2017 6-9 December 2017, Lisbon, Portugal **(IT)**
133. "Right-sided valve diseases" - EuroEcho Imaging 2017 6-9 December 2017, Lisbon, Portugal **(IT)**
134. "EuroEcho Imaging Highlights: New Technologies" - EuroEcho Imaging 2017 6-9 December 2017, Lisbon, Portugal **(IT)**
135. "Strain e patologie del ventricolo destro". III Workshop SIEC Triveneto 2016 "Lo strain in ecocardiografia dalla A alla Z" - 27 maggio 2016, Camposampiero, Italia **(IT)**
136. "Valutazione ecocardiografica della funzione ventricolare sinistra: dalle vecchie alle nuove tecnologie". Convegno SIEC "Rimodellamento e funzione ventricolare sinistra" – 6 maggio 2016, Pescara, Italia **(IT)**
137. "Beyond right ventricular volumes: RV shape and mechanics" - EuroEcho Imaging 2016, 7-10 December 2016, Leipzig, Germany **(IT)**

138. "Comprehensive evaluation of the right ventricle: Pulmonary hypertension" - EuroEcho Imaging 2016, 7-10 December 2016, Leipzig, Germany **(IT)**
139. "Tips and tricks in tricuspid valve evaluation" - EuroEcho Imaging 2016, 7-10 December 2016, Leipzig, Germany **(IT)**
140. "Find the guilty" - ESC Congress 27-31 August 2016, Rome, Italy **(IT)**
141. "The Heart in 3D Echo - Clinical Applications. Assessment of LV volumes and function" - ESC Congress 27-31 August 2016, Rome, Italy **(IT)**
142. "EACVI Recommendations for the imaging assessment of prosthetic heart valves" - The 55th Edition of the Romanian Congress of Cardiology, 21-24 September 2016, Sinaia, Romania **(IT)**
143. "Left atrial size and function by 3D echo" – EACVI HIT Teaching course: Basic knowledge in advanced echo techniques", 25 September 2016, Sinaia, Romania **(IT)**
144. "The forgotten valve - tricuspid valve assessment using 3D echo" – EACVI HIT Teaching course: Basic knowledge in advanced echo techniques", 25 September 2016, Sinaia, Romania **(IT)**
145. "Imaging to evaluate CRT results" - EP Academy 2016, 27-28 October 2016, Padova, Italy **(IT)**
146. "Left Atrium in 3D". EuroEcho Imaging 2-5 December 2015, Seville, Spain **(IT)**
147. "Advanced Echo Imaging of the Right Ventricle: The Added Value of 3D Echocardiography". EuroEcho Imaging 2-5 December 2015, Seville, Spain **(IT)**
148. "Il paziente valvolare e il 3D" – 31 ottobre 2015 – "Il Laboratorio di Cardiac Imaging nello Scompenso Cardiaco", Trieste, Italia **(IT)**
149. "3D echocardiography: cardiomyopathies". 3D 360° Congress, 25-27 Sep 2015, Padua, Italy **(IT)**
150. "3D echocardiography: mitral stenosis". 3D 360° Congress, 25-27 Sep 2015, Padua, Italy **(IT)**
151. **"**3D echocardiography: the right ventricle" 3D 360° Congress, 25-27 Sep 2015, Padua, Italy **(IT)**
152. "New 4D Echo Enhancements for Evaluating Heart Anatomy and Function". 3D 360° Congress, 25-27 Sep 2015, Padua, Italy **(IT)**
153. "Current perspective on 3D strain: advantages and limitations". 3D 360° Congress, 25-27 Sep 2015, Padua, Italy **(IT)**
154. "Severe, secondary tricuspid regurgitation after mitral valve surgery". Mitral and tricuspid disease – keeping up with the guidelines. ESC Congress 2015, 29 Aug – 2 Sept 2015, London, UK **(IT)**
155. "3D Echo Assessment of Right Ventricular Geometry and Function" - Presentation at TomTec booth. ESC Congress 2015, 29 Aug – 2 Sept 2015, London, UK **(IT)**
156. "How to acquire and display 3D datasets". 3D Echo Intensive Course. 25-29 June 2015, Padua, Italy **(IT)**
157. "Right ventricle". 3D Echo Intensive Course. 25-29 June 2015, Padua, Italy **(IT)**
158. "Left and right atria". 3D Echo Intensive Course. 25-29 June 2015, Padua, Italy **(IT)**
159. "Aortic valve". 3D Echo Intensive Course. 25-29 June 2015, Padua, Italy **(IT)**
160. "Congenital heart diseases". 3D Echo Intensive Course. 25-29 June 2015, Padua, Italy **(IT)**
161. "Cardiac masses". 3D Echo Intensive Course. 25-29 June 2015, Padua, Italy **(IT)**
162. "3D strain". 3D Echo Intensive Course. 25-29 June 2015, Padua, Italy **(IT)**
163. "How to acquire and display 3D datasets". 3D Echo Symposium. 8-10 June 2015, St. Petersburg, Russia **(IT)**
164. "Right ventricle". 3D Echo Symposium. 8-10 June 2015, St. Petersburg, Russia **(IT)**
165. "Aortic valve" 3D Echo Symposium. 8-10 June 2015, St. Petersburg, Russia **(IT)**
166. "Tricuspid valve" 3D Echo Symposium. 8-10 June 2015, St. Petersburg, Russia **(IT)**
167. "How to acquire and display 3D datasets". 3D Echo Course. 18-21 May 2015, Porto Alegre, Brazil **(IT)**
168. "Right ventricle". 3D Echo Course. 18-21 May 2015, Porto Alegre, Brazil **(IT)**
169. "Congenital heart diseases" 3D Echo Course. 18-21 May 2015, Porto Alegre, Brazil **(IT)**
170. "How to acquire and display 3D datasets". 3D Echo Course. 11-15 May 2015, Rio de Janeiro, Brazil
171. "Right ventricle". 3D Echo Course. 11-15 May 2015, Rio de Janeiro, Brazil **(IT)**
172. "Aortic valve". 3D Echo Course. 11-15 May 2015, Rio de Janeiro, Brazil **(IT)**
173. "Congenital heart diseases". 3D Echo Course. 11-15 May 2015, Rio de Janeiro, Brazil **(IT)**
174. "Ecocardiogramma e Ventricolo Destro: cosa serve sapere in UTIC?" Novità in Terapia Intensiva Cardiologica: le sfide cardiologiche del nuovo millennio (2° Congresso). 8 May 2015, Padua, Italy **(IT)**
175. "Three-dimensional printing of tricuspid valve using transthoracic echocardiography". XVII Congresso SIEC, 16-18 April 2015, Naples, Italy **(AP)**
176. "Analisi Quantitativa e Refertazione dell'Ecocardiogramma Secondo le Linee Guida ASE/EACVI 2015" The 17th National Congress SIEC 2015, 17 April 2015, Naples, Italy **(IT)**

177. "L'eco 3D, la sonda a matrice e i setting di acquisizione". Corso teorico-pratico di ecocardiografia in cardiologia pediatrica. 9-11 April, 2015, Padua, Italy **(IT)**
178. "Il ventricolo destro ed il 3D: il santo Graal per l'ecografista?" Corso teorico-pratico di ecocardiografia in cardiologia pediatrica. 9-11 April, 2015, Padua, Italy **(IT)**
179. "Why and how to implement 3D echocardiography in daily routine?" Congress on Echocardiography. 18-20 March 2015, Tÿlosand, Sweden **(IT)**
180. "3D echocardiography for left atrium assessment". Congress on Echocardiography. 18-20 March 2015, Tÿlosand, Sweden **(IT)**
181. "How to acquire and display 3D datasets". 3D Echo Intensive Course. 2-6 March 2015, Padua, Italy **(IT)**
182. "Right ventricle". 3D Echo Intensive Course. 2-6 March 2015, Padua, Italy **(IT)**
183. "Left and right atria". 3D Echo Intensive Course. 2-6 March 2015, Padua, Italy **(IT)**
184. "Aortic valve". 3D Echo Intensive Course. 2-6 March 2015, Padua, Italy **(IT)**
185. "Congenital heart diseases". 3D Echo Intensive Course. 2-6 March 2015, Padua, Italy **(IT)**
186. "Cardiac masses". 3D Echo Intensive Course. 2-6 March 2015, Padua, Italy **(IT)**
187. "3D strain". 3D Echo Intensive Course. 2-6 March 2015, Padua, Italy **(IT)**
188. "A rare complication after transapical TAVI procedure" Meeting SIEC Triveneto. 20 February 2015, Padua, Italy **(IT)**
189. "Chamber quantification" - Imaging Highlights from 2014 Recommendations. Joint session EACVI Club 35 and ESC Cardiologists of Tomorrow. EuroEcho Imaging 2014, 3-6 December 2014, Vienna, Austria **(IT)**
190. "3D Echo Assessment of Right Ventricular Geometry and Function" - Presentation at TomTec booth. EuroEcho Imaging 2014, 3-6 December 2014, Vienna, Austria **(IT)**
191. "Speckle tracking 3D: vantaggi e limiti della tecnologia attuale" - 9 October 2014, Trieste, Italy **(IT)**
192. "How to acquire and display 3D datasets". 3D Echo Intensive Course. 27-31 October 2014, Padua, Italy
193. "Right ventricle". 3D Echo Intensive Course. 27-31 October 2014, Padua, Italy **(IT)**
194. "Left and right atria". 3D Echo Intensive Course. 27-31 October 2014, Padua, Italy **(IT)**
195. "Aortic valve". 3D Echo Intensive Course. 27-31 October 2014, Padua, Italy **(IT)**
196. "Congenital heart diseases". 3D Echo Intensive Course. 27-31 October 2014, Padua, Italy **(IT)**
197. "Cardiac masses". 3D Echo Intensive Course. 27-31 October 2014, Padua, Italy **(IT)**
198. "3D strain". 3D Echo Intensive Course. 27-31 October 2014, Padua, Italy **(IT)**
199. "3D Echo for cardiac chamber quantification" - EACVI Teaching course - Echocardiography for trainees **-** 18 October 2014, Sofia, Bulgaria **(IT)**
200. "Quantification of mitral stenosis severity" - China-Europe Echocardiography CME Project. Interactive webcast on basic and advanced echocardiography (IT) 14 September -15 October 2014, http://cn.intermeeting.org/project.html (IT)
201. "The added value of measuring RV deformation" - EACVI Teaching course - Echocardiography for trainees **-** 18 October 2014, Sofia, Bulgaria **(IT)**
202. "The left atrium by 3D echocardiography" - 3D Echo 360° Conference, 12-14 September 2014, Atlanta, US **(IT)**
203. "The left atrium – how and when do I measure 3D LA volume?" - 3D Echo 360° Conference, 12-14 September 2014, Atlanta, US **(IT)**
204. "Right heart" - 3D Echo 360° Conference, 12-14 September 2014, Atlanta, US **(IT)**
205. "3-D Echo for Tricuspid Valve Anatomy and Function" - 3D Echo 360° Conference, 12-14 September 2014, Atlanta, US **(IT)**
206. "3D Echocardiography" – Recent advances in cardiology: what does the busy cardiologist need to know about…- Joint sesssion COT, EACVI Club 35, Young EAPCI, Young ACCA, EHRA Young Committee. ESC Congress 2014, 30 august – 3 September 2014, Barcelona, Spain **(IT)**
207. "Characterization of transmural longitudinal and circumferential mechanics by multi-layer strain analysis in hypertrophic cardiomyopathy". ESC Congress 2014, 30 August – 3 September 2014, Barcelona, Spain **(IT)**
208. "Prosthetic valve endocarditis complicated by embolism" – Infective endocarditis. Clinical cases: an echo nightmare. ESC Congress 2014, 30 August – 3 September 2014, Barcelona, Spain **(IT)**
209. "Low-flow/low-gradient aortic stenosis with low ejection fraction: dobutamine stress echo is useful!". ESC Congress 2014, 30 August – 3 September 2014, Barcelona, Spain **(IT)**
210. "How to acquire and display 3D datasets". 3D Echo Intensive Course. 9-13 June 2014, Padua, Italy **(IT)**
211. "Right ventricle". 3D Echo Intensive Course. 9-13 June 2014, Padua, Italy **(IT)**
212. "Left and right atria". 3D Echo Intensive Course. 9-13 June 2014, Padua, Italy **(IT)**

213. "Aortic valve". 3D Echo Intensive Course. 9-13 June 2014, Padua, Italy **(IT)**
214. "Congenital heart diseases". 3D Echo Intensive Course. 9-13 June 2014, Padua, Italy **(IT)**
215. "Cardiac masses". 3D Echo Intensive Course. 9-13 June 2014, Padua, Italy **(IT)**
216. "3D strain". 3D Echo Intensive Course. 9-13 June 2014, Padua, Italy **(IT)**
217. "Current perspective on 3D strain" - The XIXth World Congress of Echocardiography and Allied Techniques. 10-11 May 2014, Sibiu, Romania **(IT)**
218. "3D echo assessment of right ventricular geometry and function" - The XIXth World Congress of Echocardiography and Allied Techniques. 10-11 May 2014, Sibiu, Romania **(IT)**
219. "How to acquire and display 3D datasets". 3D Echo Intensive Course. 10-14 March 2014, Padua, Italy **(IT)**
220. "Right ventricle". 3D Echo Intensive Course. 10-14 March 2014, Padua, Italy **(IT)**
221. "Left and right atria". 3D Echo Intensive Course. 10-14 March 2014, Padua, Italy **(IT)**
222. "Aortic valve". 3D Echo Intensive Course. 10-14 March 2014, Padua, Italy **(IT)**
223. "Congenital heart diseases". 3D Echo Intensive Course. 10-14 March 2014, Padua, Italy **(IT)**
224. "Cardiac masses". 3D Echo Intensive Course. 10-14 March 2014, Padua, Italy **(IT)**
225. "Etiologies of tricuspid regurgitation" - The forgotten valve. Annual Congress of Belgian Society of Cardiology - 31 January 2014, Brussels, Belgium **(IT)**
226. "Right ventricular function" - 3D Echo in clinical practice: better than 2D? EuroEcho Imaging 2013, 11-14 December 2013, Istanbul, Turkey **(IT)**
227. "The left atrium: size and function" - Course on 3D echocardiography: ready for prime time. EuroEcho Imaging 2013, 11-14 December 2013, Istanbul, Turkey **(IT)**
228. "Storage diseases" - The heart in systemic diseases: what does the echocardiographer need to know?" - EuroEcho Imaging 2013, 11-14 December 2013, Istanbul, Turkey **(IT)**
229. "Mitral valve abnormalities correlate with LV remodelling and dysfunction in hypertrophic cardiomyopathy: a quantitative 3DTTE study" - EuroEcho Imaging 2013, 11-14 December 2013, Istanbul, Turkey **(AP)**
230. "How to acquire and display 3D datasets". 3D Echo Intensive Course. 18-22 November 2013, Padua, Italy **(IT)**
231. "Right ventricle". 3D Echo Intensive Course. 18-22 November 2013, Padua, Italy **(IT)**
232. "Left and right atria". 3D Echo Intensive Course. 18-22 November 2013, Padua, Italy **(IT)**
233. "Aortic valve". 3D Echo Intensive Course. 18-22 November 2013, Padua, Italy **(IT)**
234. "Congenital heart diseases". 3D Echo Intensive Course. 18-22 November 2013, Padua, Italy **(IT)**
235. "Cardiac masses". 3D Echo Intensive Course. 18-22 November 2013, Padua, Italy **(IT)**
236. "3D Echocardiography: basic principles and clinical applications" - EACVI Club 35 Teaching course - Echocardiography for trainees - 9 November 2013, Athens, Greece **(IT)**
237. "Tricuspid valve: what 3D echo can add" – 52nd National Congress of Romanian Society of Cardiology. 3-5 October 2013, Sinaia, Romania **(IT)**
238. "Tricuspid regurgitation: what 3D echo can add?" – The tricuspid valve in the spotlight. ESC Congress 2013, 31 august-4 september, Amsterdam, The Netherlands **(IT)**
239. "A multimodality approach to assess RV remodelling" – Noninvasive imaging in pulmonary hypertension. ESC Congress 2013, 31 August-4 September, Amsterdam, The Netherlands **(IT)**
240. "How to acquire and display 3D datasets". 3D Echo Intensive Course. 3-7 June 2013, Padua, Italy **(IT)**
241. "Right ventricle". 3D Echo Intensive Course. 3-7 June 2013, Padua, Italy **(IT)**
242. "Left and right atria". 3D Echo Intensive Course. 3-7 June 2013, Padua, Italy **(IT)**
243. "Aortic valve". 3D Echo Intensive Course. 3-7 June 2013, Padua, Italy **(IT)**
244. "Congenital heart diseases". 3D Echo Intensive Course. 3-7 June 2013, Padua, Italy **(IT)**
245. "Cardiac masses". 3D Echo Intensive Course. 3-7 June 2013, Padua, Italy **(IT)**
246. "Right ventricle" – 3D Assessment of Heart Chambers. The Role of Advanced Cardiac Imaging. 8-10 May 2013, Venice, Italy **(IT)**
247. "Tricuspid valve" – 3D Assessment of Heart Valves. The Role of Advanced Cardiac Imaging. 8-10 May 2013, Venice, Italy **(IT)**
248. "Echocardiographic assessment in primary tricuspid valve pathology" - SIEC XVI Congresso Nazionale di Ecocardiografia, 29 April – 1 May 2013, Torino, Italy **(IT)**
249. "2D/3D strain imaging: where are we in 2013?" - 16 April 2013, Prague, Czech Republic **(IT)**
250. "How to acquire and display 3D datasets". 3D Echo Intensive Course. 18-22 March 2013, Padua, Italy
251. "Right ventricle". 3D Echo Intensive Course. 18-22 March 2013, Padua, Italy **(IT)**

252. "Left and right atria". 3D Echo Intensive Course. 18-22 March 2013, Padua, Italy **(IT)**
253. "Aortic valve". 3D Echo Intensive Course. 18-22 March 2013, Padua, Italy **(IT)**
254. "Congenital heart diseases". 3D Echo Intensive Course. 18-22 March 2013, Padua, Italy **(IT)**
255. "Cardiac masses". 3D Echo Intensive Course. 18-22 March 2013, Padua, Italy **(IT)**
256. "Tricuspid valve anatomy for repair" - Quantitative 3D Echocardiography of Heart Valve Disease - ACC13, 9-11 March 2013, San Francisco, US **(IT)**
257. "3D strain" - EuroEcho and Other Imaging Modalities, December 5-8, 2012, Athens, Greece **(IT)**
258. "Intervendor consistency of 3D strain", EuroEcho and Other Imaging Modalities, December 5-8, 2012, Athens, Greece **(IT)**
259. "How to acquire and display 3D datasets". November 26-29, 2012, Padua, Italy **(IT)**
260. "Right ventricle". 3D Echo Intensive Course. November 26-29, 2012, Padua, Italy **(IT)**
261. "Left and right atria". 3D Echo Intensive Course. November 26-29, 2012, Padua, Italy **(IT)**
262. "Aortic valve". 3D Echo Intensive Course. November 26-29, Padua, Italy **(IT)**
263. "Congenital heart diseases". 3D Echo Intensive Course. November 26-29, 2012, Padua, Italy **(IT)**
264. "Cardiac masses". 3D Echo Intensive Course. November 26-29, 2012, Padua, Italy **(IT)**
265. "3D echo assessment of the left atrium - basics and new methods". Role of multimodality imaging of the left atrium in clinical practice, organized by the Belgian Working Group of Non-Invasive Cardiac Imaging of the Belgian Society of Cardiology endorsed by EAE, November 23, 2012, Brussels (Belgium) **(IT)**
266. "3D speckle-tracking echocardiography: can it detect ischemic substrate?" – EKK Echocardiography Congress endorsed by EAE, November 8-10, 2012, Cologne, Germany **(IT)**
267. "Valvular heart disease by 3D transoesphageal echocardiography" - Walking into new technologies, November 14-16, 2012, Naples (Italy) **(IT)**
268. "How to acquire good 3D data sets?" - EAE Teaching Course, 26-27 October, 2012, Skopje **(IT)**
269. "3D echocardiography in ischemic heart disease" - EAE Teaching Course, 26-27 October, 2012, Skopje **(IT)**
270. "3D echocardiography for aortic valve" - EAE Teaching Course, 26-27 October, 2012, Skopje **(IT)**
271. "3D echocardiography for the left atrium and atrial appendage" - EAE Teaching Course, 26-27 October, 2012, Skopje **(IT)**
272. "Assessment of right ventricle: speckle-tracking and 3D echocardiography" - Echocardiography and new technologies - September 29, 2012, Città di Castello, Italy **(IT)**
273. "Three-dimensional deformation imaging: advantages and challenges" - ESC Congress 2012, August 25-28, 2012, Munich, Germany **(IT)**
274. "Two-dimensional longitudinal strain is more accurate than three-dimensional longitudinal strain to identify infarcted LV segments in STEMI patients" - ESC Congress 2012, August 25-28, 2012, Munich, Germany **(AP)**
275. "How to acquire and display 3D datasets". June 25-29, 2012, Padua, Italy **(IT)**
276. "Right ventricle". 3D Echo Intensive Course. June 25-29, 2012, Padua, Italy **(IT)**
277. "Left and right atria". 3D Echo Intensive Course. June 25-29, 2012, Padua, Italy **(IT)**
278. "Aortic valve". 3D Echo Intensive Course. June 25-29, 2012, Padua, Italy **(IT)**
279. "Congenital heart diseases". 3D Echo Intensive Course. June 25-29, 2012, Padua, Italy **(IT)**
280. "Cardiac masses". 3D Echo Intensive Course. June 25-29, 2012, Padua, Italy **(IT)**
281. "Impact of 3D echo on the assessment of aortic stenosis severity" - Joint EAE/SIEC Teaching Course: Update in Valvular Heart Diseases - May 8-9 2012, Milan, Italy **(IT)**
282. "The added value of three-dimensional transthoracic and transoesophageal echocardiography in valvular heart diseases: from diagnosis to treatment" - GE Satellite Symposium - May 7, 2012, Milan, Italy **(IT)**
283. "A novel approach to the tricuspid valve assessment by 3D echocardiography" - 10th Coronary and Cardiac National Multi-Imaging Congress - April 10, 2012, Naples, Italy **(IT)**
284. "3D strain: reference values and clinical application in STEMI" – Myocardial Velocity and Deformation Imaging, February 9-10, 2012, Leuven (Belgium) **(IT)**
285. „Assessment of 3D strain" - EuroEcho & other Imaging Modalities 2011 - December 7-10 - Budapest, Hungary **(IT)**
286. „3D strain: limitations and reproducibility" - EuroEcho & other Imaging Modalities 2011 - December 7-10 - Budapest, Hungary **(IT)**
287. „3D strain: from principles to practice" - 2nd Meeting of the Italian Council of PhD Fellows" - November 21-23 - Erice, Italy **(IT)**
288. „Echocardiografia Monaldi 2011: walking into new technologies" - November 9-11, 2011 - Naples, Italy

289. „Deformation imaging" - November 5th, 2011 - Master course for sonographers, University of Padua - Padua, Italy **(IT)**
290. "3D Echocardiography: Left atrium and left atrial appendage" - Present Clinical Practice and Future Developments of Three-dimensional Echocardiography (EAE Teaching Course) - October 27-28, 2011 - Venice, Italy **(IT)**
291. „Echocardiographic assessment of atrial size and function" - May 18th, 2011 - Master course for sonographers, University of Padua - Padua, Italy **(IT)**
292. „3D echocardiography: a primer on transducers, acquisitions and post-processing modalities" - 45th Congress of Cardiology 2011, Niguardia Ca' Granda Hospital - September 12-16 - Milan, Italy **(IT)**
293. „Future developments: 3D strain" - May 7th, 2011 - Brasov, Romania **(IT)**
294. „State-of-the-art for the noninvasive assessment of aortic stenosis" - April 11-13, 2011 - Ostuni, Italy **(IT)**
295. „3D echo to assess left ventricular morphology and function" - April 11-13, 2011 - Ostuni, Italy **(IT)**
296. „Speckle-tracking echocardiography and right ventricular function: an added value?" - The 15th National Congress SIEC 2011, April 14-16th - Naples, Italy **(IT)**
297. "Inconsistency of 3D strain measurements between vendors" - Finalist Young investigators' award for best scientific presentation, The 15th National Congress SIEC 2011, April 14-16th - Naples, Italy **(AP)**
298. „3D assessment of tricuspid valve" - „Theorical-practical Course of Three-Dimensional Echocardiography" - The 5th National Congress of Echo-cardiosurgery", March 23-25, 2011 - Milano, Italy **(IT)**
299. „3D assessment of tricuspid and pulmonary valves" - Seminar on Three-Dimensional Echocardiography - Medical, Clinical and Experimental Sciences Doctoral School, February 22, 2011 - Padua, Italy **(IT)**
300. „3D assessment of left and right atria" - Seminar on Three-Dimensional Echocardiography - Medical, Clinical and Experimental Sciences Doctoral School, February 22, 2011 - Padua, Italy **(IT)**
301. „3D assessment of right ventricular geometry and function" - Seminar on Three-Dimensional Echocardiography - Medical, Clinical and Experimental Sciences Doctoral School, February 15, 2011 - Padua, Italy **(IT)**
302. „3D assessment of mitral valve" - Seminar on Three-Dimensional Echocardiography - Medical, Clinical and Experimental Sciences Doctoral School, February 15, 2011 - Padua, Italy **(IT)**
303. „3D speckle tracking: comparison of 3D strain among different echo machines" - Myocardial Velocity and Deformation Imaging, February 10-11, 2011 - Leuven, Belgium **(IT)**
304. „3D assessment of heart valves: right-sided valves" Teaching Course (Joint Session with the ASE) - EuroEcho 2010, December 8-11 - Copenhagen, Denmark **(IT)**
305. „Modern echo assessment of right ventricle function" Symposium - EuroEcho 2010, December 8-11 - Copenhagen, Denmark **(IT)**
306. „Mitral valve and 3D echocardiography" - November 3-4, 2010 - Naples, Italy **(IT)**
307. „3D echocardiography for the assessment of aortic and tricuspid valve" - November 3-4, 2010 - Naples, Italy **(IT)**
308. „European Association of Echocardiography recommendations for the assessment of valvular regurgitation. Part 2: tricuspid regurgitation" - National Congress of Cardiology, October 7-9, 2010 - Sinaia, Romania **(IT)**
309. „Sources of variation and bias in assessing left ventricular dyssynchrony using three-dimensional echocardiography" - ESC Congress 2010, August 28 - September 1st, Stockholm, Sweden **(AP)**
310. „Third-generation full-volume 3D stress echocardiography to assess inducible myocardial ischemia" - ANMCO 41th National Congress of Cardiology May 19-22, 2010 - Florence, Italy **(AP)**
311. „Assessment of myocardial deformation in ischemic heart disease" - May 10-12, 2010 - Gubbio, Italy **(IT)**
312. „Cost-effectiveness of 4D stress echocardiography" - May 10-12, 2010 - Gubbio, Italy **(IT)**
313. „3D Echocardiography - principles and clinical applications" Teaching Course for Advanced Level Echo Accreditation - April 21, 2010 - Institute of Cardiovascular Diseases, Bucharest, Romania **(IT)**
314. „Speckle-tracking echocardiography - principle and clinical applications" Teaching Course for Advanced Level Echo Accreditation - April 22, 2010 - Institute of Cardiovascular Diseases, Bucharest, Romania **(IT)**
315. „Tissue velocity imaging and speckle tracking" Teaching Course - EuroEcho 2009, December 9-12 - Madrid, Spain **(IT)**
316. „European Association of Echocardiography recommendations of standardization of performance, digital storage and reporting of echocardiographic studies" - National Congress of Cardiology, September 19-22, 2009 - Sinaia, Romania **(IT)**

317. „Echocardiographic assessment of right ventricular size and function" - June 13, 2009 - Palmanova, Italy **(IT)**
318. „Standard and real-time 3D echocardiography for the assessment of acute pulmonary embolism" - May 8, 2009 - University of Padua, Italy **(IT)**
319. „Real-time 3D echocardiography: quantitation of right ventricular size and function" - March 2nd, 2009 - University Hospital Santa Maria della Misericordia, Udine, Italy **(IT)**
320. „Differences in timing of peak apical and basal rotation: a possible mechanism for early alterations in left ventricular mechanics" - EuroEcho 2008, December 2008, 10-13 - Lyon, France **(AP)**
321. „Speckle-tracking echocardiography - a new tool for noninvasive assessement of left ventricular torsion and untwisting" - June 18-23, 2008 - The 6th International Cardiology Congress. Review Course: Latest news in cardiology, Clinical Emergency Hospital, Targu-Mures, Romania **(IT)**
322. „New echocardiographic techniques: between pathophysiology and clinics - Speckle-tracking echocardiography" - April 15, 2008 - Institute of Cardiovascular Diseases, Bucharest, Romania **(IT)**
323. „Left ventricular torsion: an important mechanism for maintaining normal filling pressures. A speckle tracking echocardiography study in normal subjects" - EuroEcho 2007, December 5-8, 2007 - Lisbon, Portugal **(AP)**
324. „Left ventricular torsion: an important mechanism for maintaining normal filling pressures" - March 26, 2007 - Monthly meeting of Bucharest Subsidiary of the Romanian Society of Cardiology, Romania **(IT)**

## Chairperson

1. Young Investigator Award Session in Cardiovascular Imaging - ESC Congress 2024, 30 August 2024, London, UK
2. "Echo in heart failure, can we do better now?" – ESC Congress 2022 - Philips Healthcare Satellite Symposium 26 August 2022, Barcelona, Spain
3. "Imaging essentials in atrial secondary tricuspid regurgitation" - PCR Tricuspid Group Webinar 25 October 2022 https://www.youtube.com/watch?v=x95rxkKs4Sg&t=110s
4. EACVI Teaching Course on 2D and 3D Echocardiography: Session III - European Heart House, 5-7 October 2018, Sophia Antipolis, France
5. "Image Interpretation with the Masters" - ESC Congress 2018, 25-29 August 2018, Munich, Germany
6. "Multimodality imaging in arrhythmogenic cardiomyopathy" - EACVI Webinar (live webcast) Presenter: Kristina Haugaa (Oslo, Norway), 22 March 2017
7. "The tricuspid valve - new insights into invasive therapies" - ESC Congress 26-30 August 2017 Barcelona, Spain
8. "Teaching course on imaging aortic stenosis – Part 2". International Congress "SYNERGY" 7-9 September 2017, Belgrade, Serbia
9. "Extend the experience of two important past EACVI webinars" - EuroEcho Imaging 2017 6-9 December 2017, Lisbon, Portugal
10. "Le nuove metodiche ecocardiografiche". Corso teorico-pratico di ecocardiografia in cardiologia pediatrica. 9-11 April, 2015, Padua, Italy
11. "Case-based session: imaging unusual cases". EuroEcho Imaging 2014, 3-6 December 2014, Vienna, Austria
12. "New approaches to analyze right ventricular function" - EuroEcho & other Imaging Modalities 2011 - 7-10 December - Budapest, Hungary
13. "How to critically read a research paper" - EuroEcho & other Imaging Modalities 2011 - 7-10 December - Budapest, Hungary

*Annex 3*

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**Fellowships, awards and acknowledgments**

**2024:**

- Honorary Lecture PolEcho 2024 – the annual Congress of the Association of Echocardiography of the Polish Society of Cardiology, Krakow, Poland

**2022:**

- Keynote Lecture at the Annual Symposium of the Belgian Working Group on Non-Invasive Cardiac Imaging (BWGNICI) - 2022
- **Best Abstract Award** - 83rd SIC National Congress - 15-18 December, 2022, Rome

1. Michele Tomaselli, Luigi Paolo Badano, Francesco Paolo Perelli, Noela Radu, Giorgio Oliverio, Heilbron Francesca, Davide Stucchi, Cinzia Pece, Virginia Camponetti, Andrea Cascella, Sergio Caravita, Claudia Baratto, Francesca Ciambellotti, Gianfranco Parati, Mara Gavazzoni, **Denisa Muraru** 227 THE PROGNOSTIC VALUE OF RIGHT ATRIAL STRAIN IN PATIENTS WITH SECONDARY TRICUSPID REGURGITATION, European Heart Journal Supplements, Volume 24, Issue Supplement_K, December 2022, suac121.238, https://doi.org/10.1093/eurheartjsupp/suac121.238
2. Michele Tomaselli, Vincenzo Cannone, **Denisa Muraru**, Giorgio Oliverio, Mara Gavazzoni, Francesca Heilbron, Noela Radu, Francesco Perelli, Davide Stucchi, Cinzia Pece, Virginia Camponetti, Salvatore Rizzo, Giovanni Battista Perego, Sergio Caravita, Claudia Baratto, Gianfranco Parati, Francesco Brasca, Luigi Paolo Badano, 511 INCREMENTAL VALUE OF RIGHT ATRIAL STRAIN ANALYSIS TO PREDICT ATRIAL FIBRILLATION RECURRENCE AFTER CARDIOVERSION, *European Heart Journal Supplements*, Volume 24, Issue Supplement_K, December 2022, suac121.239, https://doi.org/10.1093/eurheartjsupp/suac121.239
3. Michele Tomaselli, Emanuele Curti, Noela Radu, Francesco Perelli, Andrea Cascella, Davide Stucchi, Cinzia Pece, Virginia Camponetti, Giorgio Oliverio, Francesca Ciambellotti, Mara Gavazzoni, Francesca Heilbron, Sergio Caravita, Claudia Baratto, Gianfranco Parati, **Denisa Muraru**, Luigi Paolo Badano, 843 QUANTIFICATION OF VENTRICULAR FUNCTIONAL MITRAL REGURGITATION USING THE VOLUMETRIC METHOD BY 3D-ECHOCARDIOGRAPHY, *European Heart Journal Supplements*, Volume 24, Issue Supplement_K, December 2022, suac121.241, https://doi.org/10.1093/eurheartjsupp/suac121.241

**2021**

- American Society of Echocardiography's 22nd Annual Feigenbaum Lecturer
- Top 3 Most Cited Articles in Eur Heart J Cardiovascular Imaging in the Past Two Years

**#2 Muraru D**, Addetia K, Guta AC, Ochoa-Jimenez RC, Genovese D, Veronesi F, Basso C, Iliceto S, Badano LP, Lang RM. 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. 2021 May 10;22(6):660-669. doi: 10.1093/ehjci/jeaa286. Erratum in: Eur Heart J Cardiovasc Imaging. 2021 May 10;22(6):669. PMID: 33387441.

**#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. 2021 Jan 22;22(2):155-165. doi: 10.1093/ehjci/jeaa282. PMID: 33247930.

https://academic.oup.com/eurheartj/pages/highly-cited-articles#1886730caffbb3e46c3e

- Two publications listed in Top 5 Best of Imaging in Eur Heart J Cardiovascular Imaging in 2020 (top Altmetric Scoring articles)

  **#4** Skulstad H, Cosyns B, Popescu BA, Galderisi M, Salvo GD, Donal E, Petersen S, Gimelli A, Haugaa KH, **Muraru D**, Almeida AG, Schulz-Menger J, Dweck MR, Pontone G, Sade LE, Gerber B, Maurovich-Horvat P, Bharucha T, Cameli M, Magne J, Westwood M, Maurer G, Edvardsen T. COVID-19 pandemic and cardiac imaging: EACVI recommendations on precautions, indications, prioritization, and protection for patients and healthcare personnel. Eur Heart J Cardiovasc Imaging. 2020 Jun 1;21(6):592-598. doi: 10.1093/ehjci/jeaa072. PMID: 32242891; PMCID: PMC7184341.

  **#5** Badano LP, **Muraru D**, Parati G, Haugaa K, Voigt JU. How to do right ventricular strain. Eur Heart J Cardiovasc Imaging. 2020 Aug 1;21(8):825-827. doi: 10.1093/ehjci/jeaa126. PMID: 32504092.

- Publication cited among the Top 6 Most Read Articles in JASE in the past 3 years (https://www.onlinejase.com/):

  Guta AC, Badano LP, Tomaselli M, Mihalcea D, Bartos D, Parati G, **Muraru D**. The Pathophysiological Link between Right Atrial Remodeling and Functional Tricuspid Regurgitation in Patients with Atrial Fibrillation: A Three-Dimensional Echocardiography Study. J Am Soc Echocardiogr. 2021 Jun;34(6):585-594.e1. doi: 10.1016/j.echo.2021.01.004. Epub 2021 Jan 10. PMID: 33440232.

- **Best Abstract Award** - *82rd SIC National Congress - 9-12 December, 2021, Rome*

  Mara Gavazzoni, Francesca Heilbron, Diana Florescu, Pellegrino Ciampi, Andrada C Guta, Roberto Ochoa, Michele Tomaselli, Valentina Volpato, Giorgio Oliverio, Sergio Caravita, Gianfranco Parati, Denisa Muraru, Luigi Badano, 144 Atrial and ventricular phenotypes in a cohort of patients with functional tricuspid regurgitation: clinical, echocardiographic, and prognostic aspects, *European Heart Journal Supplements*, Volume 23, Issue Supplement_G, December 2021, suab132.024, https://doi.org/10.1093/eurheartj/suab132.024

**2019:**
- Fellow American Society of Echocardiography (FASE)
- Fellow American College of Cardiology (FACC)
- Honorary Lecture “Gerhard Hoghenkerke” Mitteldetscher Echokardiographie Kongress der GDK – 14 June 2019, Leipzig, Germany

**2018:**
- Honorary Member of Romanian Society of Cardiology - awarded during the 57° National Congress of Cardiology, 19-22 September 2018, Sinaia, Romania
- Fellow European Society of Cardiology (FESC)

**2017:**
- First Prize from the Sociedad Espanola de Cardiologia for the paper with highest number of citations at mid-term published in Revista Espanola de Cardiologia
- Award for Excellence in Research in 2017 from the Romanian Society of Cardiology with the original study "Mihaila S, Muraru D, Miglioranza MH, Piasentini E, Aruta P, Cucchini U, Iliceto S, Vinereanu D, Badano LP. Relationship between mitral annulus function and mitral regurgitation severity and left atrial remodelling in patients with primary mitral regurgitation" European Heart Journal Cardiovascular Imaging 2016;17(8):918-29. doi: 10.1093/ehjci/jev301

**2016:**

- Outstanding Contribution in Reviewing in 2016 from the Editorial Board of the Journal of the American Society of Echocardiography
- 1st Prize at the Young Investigators Award 2016 from the Romanian Society of Cardiology with the original study "Mihaila S, Marotta C, Calore C, Aruta P, Iliceto S, Vinereanu D, Badano LP, Muraru D. Impact of 3D echocardiography for mitral valve sizing in hypertrophic cardiomyopathy: excessive posterior mitral valve leaflet closure correlates with left ventricular outflow tract obstruction" (24 September 2016)

**2015:**

- Best abstract presentation award at XVII Congresso Nazionale SIEC, 16-18 Aprile 2015, Napoli. Ermacora D, Miglioranza-Haertel M, Muraru D, Mihaila S, Cucchini U, Marotta C, Calabrò F, Brunello G, Cecchetto A, Cavalli G, Romeo G, Iliceto S, Badano LP. Left atrial volumes measured with 3D echocardiography are significantly larger than those calculated with 2D echocardiography and need different normative values.
- High score abstract "Three-dimensional printing of normal and pathologic valves from transthoracic three-dimensional echocardiographic data sets: feasibility and relative accuracy" - poster EuroEcho Imaging 2015, Seville (Spain)

**2014:**

- Honorary Medal from the Romanian Society of Cardiology for the participation at the XIX World Congress of Echocardiography and Allied Techniques, 10-11 May 2014, Sibiu, Romania

**2011:**

- Winner of a 1-year Echocardiography Research Grant awarded by the European Association of Echocardiography with the project “Left and right atrial size and function assessment by novel semi-automated software tailored for atrium analysis by three-dimensional echocardiography” for 2011 (25.000 €)
- 3rd Prize at Young Investigators’ Awards session, awarded by Romanian Society of Cardiology. Muraru D, Popescu BA, Ginghina C, Badano LP: Global 3D circumferential strain is related to infarct size and transmural extent of myocardial necrosis in patients with successfully reperfused STEMI. The 50th National Congress of Romanian Society of Cardiology, 29 Sep-1 Oct 2011, Sinaia, Romania (1.000 €)
- Finalist at Young Investigators’ Awards session, awarded by Italian Society of Cardiovascular Echography: Muraru D, Cucchini U, Badano LP, Soldà E, Tuveri MF, Al Nono O, Sarais C, Iliceto S. Inconsistency of 3D strain measurements between vendors. XVth National Congress of Italian Society of Cardiovascular Echography, Naples, 14-16 April 2011

**2010:**

- Winner of a prize for excellence in cardiology research (co-author of 2 ISI papers with IF 1-3) awarded by Romanian Society of Cardiology in 2010 (1.500 €)
- Winner of a prize for abstract presenter of original research at ESC Congress 2010 (3 abstracts as first author) awarded by Romanian Society of Cardiology (1.200 €)
- Winner of a prize for scientific research results (co-author of 2 papers published in Web of Science - Thomson Reuters) awarded by the Romanian Ministry of Education, Research, Youth and Sport - CNCSIS in 2010 (4.000 RON)
- Second prize at Young Investigators award session, awarded by Romanian Society of Cardiology: Calin A, Popescu BA, Beladan CC, Rosca M, Muraru D, Lupascu L, Calin C, Jurcut R,

Sandu C, Ginghina C. Impactul cresterii postsarcinii globale a ventriculului stang asupra torsiunii si detorsiunii ventriculare stangi la pacientii cu stenoza aortica stransa. National Congress of Romanian Society of Cardiology, Sinaia, 7-9 Oct 2010

**2009:**

- Winner of a 1-year Echocardiography Research Grant awarded by the Azienda Ospedaliero-Universitaria "S. Maria della Misericordia" (Udine, Italy) with the project „Time course and extent of left and right ventricular remodelling during pharmacological treatment of pulmonary hypertension. A real-time three-dimensional echocardiographic study" for 2009 (12.000 €)
- First prize for best original abstract awarded by Romanian Society of Cardiology: Popescu BA, Beladan CC, Calin A, Muraru D, Deleanu D, Rosca M, Ginghina C. Rotaţia apicală inversată: marker de severitate în cardiomiopatia dilatativă. National Congress of Romanian Society of Cardiology, Sinaia, 19-22 Sep 2009

**2008:**

- First prize for best original abstract awarded by Romanian Society of Cardiology: Teodorescu A, Popescu BA, Beladan CC, Muraru D, Deleanu D, Antonini-Canterin F, Nicolosi GL, Ginghina C. Relatia detorsiunii ventriculare stangi cu parametrii de functie diastolica si presiunile de umplere la pacientii cu stenoza aortica. National Congress of Romanian Society of Cardiology, Sinaia, 20-23 Sep 2008.

**2007:**

- Winner of a Travel Grant with abstract oral presentation for EuroEcho 2007 (5-8 December 2007, Lisbon, Portugal) awarded by European Association of Echocardiography (500 €)
- First prize for best original abstract awarded by Romanian Society of Cardiology: Beladan CC, Popescu BA, Teodorescu A, Muraru D, Popescu AC, Antonini-Canterin F, Nicolosi GL, Ginghină. Torsiunea ventriculului stâng – un mecanism compensator pentru menţinerea unei fracţii de ejecţie ventriculare stângi normale la pacienţii cu stenoză aortică medie strânsă. National Congress of Romanian Society of Cardiology, Sinaia, 15-18 Sep 2007