

Elections to EACVI Board 2018-2020

Application for the position:
EACVI Councillor (Echocardiography)



1. Your Identity	
Title	M.D., Ph.D.
Family Name(s)	Muraru
First Name(s)	Denisa
Birth Date	03 April 1979
Institute/Organisation	University of Padua
Department	Department of Cardiac, Thoracic, Vascular Sciences and Public Healthcare
City	Padua
Country	Italy



2. General Curriculum Vitae (300 words max)

2004-2010: Cardiology specialization training, “Carol Davila” University of Medicine (Colentina Clinical Hospital and “C.C. Iliescu” Institute of Cardiovascular Diseases), Bucharest, Romania

2009: Research fellowship on 3D echocardiography (Udine, Italy)

Since 2010: Senior specialist - Cardiology

2011: Winner of the EAE Research Grant

2011 – 2015: Worked as PhD fellow and echocardiographer at the University of Padua (Italy), setting up the Echo Research lab

Since 2016: Appointed as researcher and cardiologist/echocardiographer at the Dpt of Cardiac, Thoracic and Vascular Sciences, University of Padua

Research fields: 3D echocardiography and myocardial 2D/3D deformation imaging (reference values; right ventricular function; valve diseases)

Scientific output:

- 93 papers in peer-reviewed journals
- 3 books as co-editor
- 51 chapters (35 international, including ESC Textbook of Cardiovascular Medicine, ESC Textbook of Cardiovascular Imaging, EACVI/EAE Textbook of Echocardiography, ASE’s Comprehensive Echocardiography and Solomon’s Essential Echocardiography: A Companion to Braunwald’s Heart Disease)
- 187 abstracts at international congresses (EuroEcho, ESC, ASE)

Congresses and Courses:

- > 120 presentations and hands-on tutorials (Faculty at EuroEcho since 2009 and ESC Congress since 2012)
- Co-Director of 3D Echo Intensive Course since 2012 (3 editions/year and 8 extramural courses)
- Co-Director of “3D Echo 360° European meeting” (Padua 2017)
- Member of Scientific Committee of “Right Heart: The New Frontier” meeting (Padua 2017)
- Scientific Secretary of several international online courses for South America, China and UAE
- Scientific Secretary of the online Master Course on Basic and Advanced Echocardiography at the University of Padua
- Invited Visiting Professor at Cardiac Imaging Grand Rounds - Mayo Clinic, Rochester US (2017)

Editorial Board Member:

- Eur Heart J Cardiovasc Imaging
- J Am Soc Echocardiogr

Reviewer for: JACC, JACC Imaging, Circulation, Circulation Imaging, EuroIntervention

Memberships: ESC, EACVI, EAPCI, ASE, Romanian Society of Cardiology, ANMCO

**3. Previous experience(s) in the EACVI or ESC or your National Bodies?**

Since 2007	ESC/EACVI(EAE) member
2010-2012	Club 35 Committee member Club 35 Ambassador for Romania
2012-2014	Chair of Club 35 Committee Member of 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	Education Committee (Chair) Member of EACVI Board (Elected Councillor) Member of Scientific Documents Committee Member of EACVI Task Force of Multi-Modality Imaging Member of EACVI FoCUS Task Force
2018-2020	ESC Education Committee (EACVI representative) ESC Task Force of Live Events Endorsement (EACVI representative) ESC Congress Program Committee (EACVI representative)

Activities and projects coordinated as Chair of EACVI Education and Club 35 committees

*(*new proposal, implemented and active to date):*

- EACVI Webinar Course Director 2017-2018
- *EACVI Webinar Playlist on YouTube channel (free access to 12 EACVI webinars 2017-2018)
- *EACVI Teaching Course on 2D and 3D TOE - Sophia Antipolis (2017; 2018) -Co-Director
- *EACVI Hands-on Teaching Courses for the young community (dedicated and free of charge for young EACVI members) - Athens (2013); Sofia (2014); Antalya (2015, 2018) - Organizing Committee member
- EACVI Teaching Courses in Italy, Romania, Turkey, Macedonia - Faculty member
- *EACVI Training Grants
- *EACVI Continuing Education and Training Catalogue 2018
- *EACVI Workshop with TOE simulator at EuroEcho Imaging Congress (2014-2016, 2017-2018)
- EACVI Echocardiography Core Curriculum Teaching Course at EuroEcho Imaging Congress (2017, 2018)
- *ESC TV interviews at EuroEcho Imaging 2017 - Editor
- EuroEcho Imaging 2017 Congress reports - Editor





- *LinkedIn Group “Young Network of Cardiovascular Imaging”
- *Club 35/HIT poster sessions
- “How to...” and Club 35 Sessions at EuroEcho Imaging Congress
- Updated the Online Directory of European Training Centers on Multi-modality Imaging
- Promoted the participation of young scientists as Faculty at EuroEcho Congress
- Co-author 3D Echo Box Atlas
- Contributor: EACVI Echo Handbook, e-Learning Course, WikiEcho, Clinical case gallery
- Abstract reviewer for ESC and EuroEcho Imaging Congress

Activity as member of Scientific Documents committee:

- **Co-Author of 10 EACVI papers** (including EACVI/ASE/Industry Task Force Standardization of RV and atrial strain; EACVI/ASE Chamber Quantification; Euro-Echo Imaging 2017 Highlights; FoCUS core curriculum; Heart Transplantation; EACVI Grant programme; Criteria for recommendation, expert consensus and appropriateness criteria papers from EACVI; etc)
- **Reviewer for 10 EACVI papers**

4. Are you a Board or Nucleus Member of another scientific organisation?Yes ☐ No ☒

If Yes, please specify:



**5. Publications (please list 10 max)**

1. Badano LP, **Muraru D**, Enriquez-Sarano M. Assessment of functional tricuspid regurgitation. **Eur Heart J** **2013**;34(25):1875-85
2. **Muraru D**, Maffessanti F, ... Badano LP. Ascending aorta diameters measured by echocardiography using both leading edge-to-leading edge and inner edge-to-inner edge conventions in healthy volunteers. **Eur Heart J Cardiovasc Imaging** **2014**;15(4):415-22.
3. **Muraru D**, Cucchini U, ... Badano LP. Left ventricular myocardial strain by three-dimensional speckle-tracking echocardiography in healthy subjects: reference values and analysis of their physiologic and technical determinants. **J Am Soc Echocardiogr** **2014**;27(8):858-871.
4. Lang RM, Badano LP, ... **Muraru D**,... Voigt JU. Recommendations for cardiac chamber quantification by echocardiography in adults: an update from the American Society of Echocardiography and the European Association of Cardiovascular Imaging. **Eur Heart J Cardiovasc Imaging** **2015**;16(3):233-70.
5. **Muraru D**, Spadotto V, ...Badano LP. New speckle-tracking algorithm for right ventricular volume analysis from three-dimensional echocardiographic data sets: validation with cardiac magnetic resonance and comparison with the previous analysis tool. **Eur Heart J Cardiovasc Imaging** **2016**; 17:1279-1289
6. Badano LP, Miglioranza MH,...**Muraru D**. Left atrial volumes and function by three-dimensional echocardiography: reference values, accuracy, reproducibility and comparison with two-dimensional echocardiographic measurements. **Circ Cardiovasc Imaging** **2016**;9(7)
7. **Muraru D**, Onciul S, ... Badano LP. Sex- and method-specific reference values for right ventricular strain by two-dimensional speckle-tracking echocardiography. **Circ Cardiovasc Img** **2016**;9(2):e003866.
8. **Muraru D**, Veronesi F, ... Badano LP. Three-dimensional printing of normal and pathologic tricuspid valves from transthoracic three-dimensional echocardiography data sets. **Eur Heart J Cardiovasc Imaging** **2017**;18(7):802-808.
9. Badano LP, Kolias TJ, **Muraru D**,...Voigt JU. Standardization of left atrial, right ventricular, and right atrial deformation imaging using two-dimensional speckle tracking echocardiography: a consensus document of the EACVI/ASE/Industry Task Force to standardize deformation imaging. **Eur Heart J Cardiovasc Imaging** **2018**;19(6):591-600
10. Rodríguez-Zanella H, Haugaa K, ...**Muraru D**. Physiological determinants of left ventricular mechanical dispersion: a 2-dimensional speckle tracking echocardiographic study in healthy volunteers. **JACC Cardiovasc Imaging** **2018**;11(4):650-651.



6. Received Hirsch Index (Year / Index)

H-index (Scopus): **23** (2009-2018)

7. Received Impact Factor(s) (Year / IF)

Accumulated impact: **420 points** (September 2018)

Average impact per paper: **4.83**

Total citations: **4147**

Average citing per paper: **44.6**

8. Why are you interested in joining the EACVI Board (300 words max)?

The EACVI is a very dynamic, innovative and stimulating Association. Being part of EACVI Boards 2012-2014 and 2016-2018 allowed me to become acquainted with EACVI multi-modality imaging vision and its specific goals.

Education is one of the main pillars of the ESC and of the EACVI, and has represented the core of my activity during the last years.

Having the opportunity to join again the EACVI Board as elected Councillor would allow me to continue to develop educational projects using innovative teaching formats (practical micro-tutorials, webinars, case-based learning etc), to facilitate access to high-quality information and to training programs in imaging centers of excellence.

From interaction with attendees during the teaching courses held in various countries, I understood it is essential to provide better opportunities for the practical training of both young generations and more experienced professionals, in order to reduce the regional training differences involving costly equipments, to help them maintain an adequate level of practical expertise and up-to-date culture in the rapidly evolving field of cardiovascular imaging. An important objective to accomplish for the next years would be to help define the EACVI training levels standards for the various imaging modalities and to support their implementation.

Having been invited to join the ESC Education committee 2018-2020 as EACVI representative will be an excellent opportunity to harmonize the EACVI projects with the ESC mission and with its educational strategies involving cardiac imaging.

I would be happy and honored to have the opportunity to continue the ongoing projects successfully implemented so far, and to create and support new initiatives of the distinguished colleagues from the EACVI Board and committees.