

Elections to EACVI Board and Sections 2016-2018

Application for the position: Councillor



1. Your Identity

Title: M.D., Ph.D.

Family Name: Muraru

First Name: Denisa

Birth Date: 03.Apr.1979

Type of address: Business

Institute/Organisation: University of Padua

Department: Department of Cardiac, Thoracic and Vascular Sciences

Address: Via Giustiniani 2

Post Code/Zip: 35128

City: Padua

Country: Italy

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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

2016 – 2018: Appointed as Researcher 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:

- 70 papers in peer-reviewed journals
- 2 books (co-editor)
- 39 chapters (25 international, including ESC Cardiovascular Imaging Textbook, EACVI/EAE Textbook of Echocardiography, ASE's Comprehensive Echocardiography and Solomon's Essential Echocardiography: A Companion to Braunwald's Heart Disease)
- 161 abstracts at international congresses (EuroEcho, ESC, ACC, ASE)

Congresses and Courses:

- more than 100 invited talks (including to EuroEcho since 2009 and ESC Congress since 2012) and hands-on presentations
- Co-Director of 3D Echo Intensive Course since 2012 (3 editions/year and 3 extramural courses)
- Member of Scientific Committee of "Right Heart: The New Frontier" meeting (to be held in 2017)

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- Member of Scientific Committee of "3D Echo 360° European meeting" and 3D Echo 360° E-learning platform
- 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

Editorial Board Member:

- J Am Soc Echocardiogr (since 2016)

Reviewer for:

- Eur Heart J Cardiovasc Imaging
- JACC Imaging
- Am J Cardiol
- Int J Cardiovasc Imaging
- Acta Cardiologica
- J Heart Valve Disease
- EuroEcho, ESC, ACC (abstracts)

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

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

Experience

As Chair of Club 35, I had the privilege to coordinate and work together with 55 members of Club 35 committee and national ambassadors. Specifically, I had the responsibility to: (i) design, implement and coordinate several innovative EACVI projects; (ii) obtain approvals, offer and receive support from Club 35 colleagues, EACVI Board, and Industry.

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

- *EACVI Training Grants Project
- *LinkedIn Group "Young Network of Cardiovascular Imaging"
- *Hands-on Teaching Courses (dedicated and free of charge for Club 35)
- *Club 35 Imaging Campus with TOE simulator (HeartWorks) at EuroEcho
- *Club 35 poster
- "How to..." and Club 35 Sessions at EuroEcho
- Update the Online Directory of European Training Centers on Multi-modality Imaging
- Promoted the participation of young scientists as Faculty at EuroEcho
- Achieved 60% increase in Club 35 membership (37% of EACVI) in 2 years

As member of Scientific Documents committee, I have **co-authored 6 EACVI papers** (EACVI/ASE Update on Chamber Quantification - Right Ventricle section with Dr Rudski; Criteria for Recommendation and Expert Consensus papers; Heart Transplantation; Young Community of EACVI; Eight years of the EACVI's Grant programme; EAE Research Grant Programme) and served as **Reviewer for > 6 EACVI papers** between 2013-2016

I have collaborated with the **EACVI Education committee** as:

- Scientific Committee and Faculty member for **EACVI Club 35 Teaching courses** - Athens (2013); Sofia (2014)
- Invited Faculty member to **EACVI Teaching Courses** in Italy, Romania, Turkey, Macedonia
- Co-author **3D Echo Box Atlas**
- Contributor: EACVI Echo Handbook and Textbook, e-Learning Course, WikiEcho, Clinical case gallery

4. Are you a Board or Nucleus Member of another scientific organisation? If Yes, please specify

No

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5. Publications (please list 10 max)

1. **Muraru D**, Onciul S,...Badano LP. Sex- and method-specific reference values for right ventricular strain by two-dimensional speckle-tracking echocardiography. **Circ Cardiovasc Imaging** **2016**;9(2): e003866.
2. 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**;Jul 9(7). pii: e004229.
3. **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** **2015** Dec 8. pii: jev309.
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. Knackstedt C, Bekkers S,...**Muraru D**,...Sengupta PP. Fully automated versus standard tracking of left ventricular ejection fraction and longitudinal strain: the (FAST-EFs) multi-center study. **J Am Coll Cardiol** **2015**;66(13):1456-66.
6. **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**; 2014 Aug;27(8):858-871
7. **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.
8. Maffessanti F*, **Muraru D***,...Badano LP. Age-, body size-, and sex-specific reference values for right ventricular volumes and ejection fraction by three-dimensional echocardiography: a multicenter echocardiographic study in 507 healthy volunteers. **Circ Cardiovasc Imaging** **2013**;6(5):700-10.
(*both authors contributed equally)
9. Badano LP, **Muraru D**, Enriquez-Sarano M. Assessment of functional tricuspid regurgitation. **Eur Heart J** **2013**;34(25):1875-85
10. **Muraru D**, Badano LP, Vannan M, Iliceto S. Assessment of aortic valve complex by three-dimensional echocardiography: a framework for its effective application in clinical practice. **Eur Heart J Cardiovasc Imaging** **2012**;13(7):541-55

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6. Received Hirsch Index : Year / Index

H-index (Scopus): 18

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

Accumulated impact: 285 points. Average impact per paper: 4.25

Total citations: 1304. Average citing per paper: 19.2

8. Why are you interested in joining the EACVI Board (150 words max)?

The EACVI is a very dynamic, innovative and stimulating Association. Being part of EACVI Board 2012-2014 allowed me to become acquainted with EACVI organization, vision and specific goals.

Research and education have been 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 develop these activities at a higher level. I would prioritize investments in innovative teaching formats and facilitating people's access to high-quality information, research and training. In line with EACVI vision, I believe it would be important to run multicenter studies aimed to validate flowcharts for choosing the optimal imaging modality(ies) that improve(s) patient outcome in different clinical situations.

Since I joined the EACVI, I feel I have grown very much both professionally and personally, and I would be very happy and honoured to serve it again for the next years to come.