



Elections to EACVI Board 2022-2024

Application for the position: *(Select one position)*

- EACVI President-Elect
- EACVI Treasurer
- EACVI Secretary
- EACVI Councillor (Echocardiography)
- EACVI Councillor (Cardiovascular Magnetic Resonance)
- EACVI Councillor (Nuclear Cardiology & Cardiac CT)
- EACVI Vice-President-Elect (Echocardiography)
- EACVI Vice-President-Elect (Cardiovascular Magnetic Resonance)
- EACVI Vice-President-Elect (Nuclear Cardiology & Cardiac CT)

1. Your Identity

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|----------------|-------------|
| Title | MD PhD |
| Family Name(s) | Rossi |
| First Name(s) | Alexia |
| City | Zürich |
| Country | Switzerland |



2. General Curriculum Vitae (300 words max)

In 2009, after completing my clinical training in diagnostic imaging, I successfully applied for a PhD program in non-invasive cardiac imaging at the Department of Radiology of the Erasmus Medical Center in Rotterdam. The main topic of my doctoral research was to investigate novel, non-invasive imaging tests and biomarkers in a range of heart conditions. In 2014, I was awarded a Training Grant by the ESC, which gave me the opportunity to move to London, where I worked as a postdoctoral clinical research fellow at the Centre for Advanced Cardiovascular Imaging, William Harvey Research Institute at the Barts Heart Centre. In 2017, I was appointed assistant professor in diagnostic imaging at Humanitas University in Milan. Currently, I hold a position as deputy group leader of clinical studies in the group of Prof. Gebhard, at the Department of Nuclear Medicine of the University Hospital Zurich.

During the past years, I have developed a consolidated clinical experience in non-invasive cardiovascular imaging, with a particular focus on cardiac CT. As a clinician-scientist, my goal has been to broaden the applications of non-invasive cardiovascular imaging to transform primary/secondary prevention, diagnostic, and clinical care in cardiovascular patients. For many years, my research has focused on the validation and clinical implementation of dynamic CT perfusion imaging. Currently, I moved my research interest to the evaluation of the effects of heart-brain/ brain-heart crosstalk on cardiovascular health by using different imaging tools (PET/CT, PET/MR), hence shifting the awareness from a single organ pathology to a more complex organ interaction.

I am the author/co-author of 99 indexed articles in national and international journals and >20 invited lectures at meetings in the field of cardiovascular imaging. Finally, I am a member of the editorial board of *Circulation: Cardiovascular Imaging* and the *European Journal of Nuclear Medicine and Molecular Imaging*.





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

ESC (European Society of Cardiology)

- 2014: ESC training grant

EACVI (European Association of Cardiovascular Imaging)

- Since 2021: Fellow of the EACVI

Official roles in the EACVI:

- 2018-2020: Member of the “EACVI Certification Cardiac CT sub-committee”
- 2020-2022: Deputy chair of the “EACVI Certification Cardiac CT sub-committee”
- 2020-2022: Member of the “EACVI Research & Innovation Committee”
- 2022: Coordinator of the online version of the EACVI course “Cardiac Computed Tomography - Level 1”

EACVI education:

- 2022: Speaker of the EACVI webinar “Use of imaging for detection of cardioembolic sources” with the presentation entitled “The role of CT and CMR for the detection of embolic sources”
- 2022: EACVI Cardiac CT course, Sophia Antipolis, France - Faculty member

EACVI documents:

- Author of the following EACVI documents:
 - Pontone G, Rossi A, Guglielmo M, Dweck MR, Gaemperli G, Nieman K, Pugliese F, Maurovich-Horvat P, Gimelli A, Cosyns B, Achenbach A Clinical application of Cardiac Computed Tomography: A Consensus Paper of the European Association of Cardiovascular Imaging - Part I. European Heart Journal Cardiovascular Imaging 2022; 23: 299-314
 - Pontone G, Rossi A, Guglielmo M, Dweck MR, Gaemperli G, Nieman K, Pugliese F, Maurovich-Horvat P, Gimelli A, Cosyns B, Achenbach A Clinical application of Cardiac Computed Tomography: A Consensus Paper of the European Association of Cardiovascular Imaging - Part II. European Heart Journal Cardiovascular Imaging 2022; 23: e136-e161
 - Lang RM, Cameli M, Sade LE, Faletra FF, Fortuni F, Rossi A, Soulat-Dufour L. Imaging assessment of the right atrium: anatomy and function. European Heart Journal Cardiovascular Imaging 2022; 23: 867-884





SIECVI (Italian Society of Echocardiography and Cardiovascular Imaging)

- Since 2022: Member of the committee “Imaging cardiovascolare integrato complesso”

4. Are you a Board or Nucleus Member of another scientific organisation?

Yes No

If Yes, please specify:

5. Selected publications (please list 10 max)

1. Rossi A, Mikail N, Bengs S, Haider A, Treyer V, Buechel RR, Wegener S, Rauen K, Tawakol A, Bairey Merz CN, Regitz-Zagrosek V, Gebhard C. Heart-brain interactions in cardiac and brain diseases: why sex matters. European Heart Journal 2022 - online ahead of print
2. Pontone G, Rossi A, Guglielmo M, Dweck MR, Gaemperli G, Nieman K, Pugliese F, Maurovich-Horvat P, Gimelli A, Cosyns B, Achenbach A Clinical application of Cardiac Computed Tomography: A Consensus Paper of the European Association of Cardiovascular Imaging - Part I. European Heart Journal Cardiovascular Imaging 2022; 23: 299-314
3. Pontone G, Rossi A, Guglielmo M, Dweck MR, Gaemperli G, Nieman K, Pugliese F, Maurovich-Horvat P, Gimelli A, Cosyns B, Achenbach A Clinical application of Cardiac Computed Tomography: A Consensus Paper of the European Association of Cardiovascular Imaging - Part II. European Heart Journal Cardiovascular Imaging 2022; 23: e136-e161





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| <p>4. Mikail N, Males L, Hyafil F, Benali K, Deschamps L, Brochet E, Ehmer C, Driss AB, Saker L, Rossi A, Alkhoder S, Raffoul R, Rouzet F, Ou P. Diagnosis and staging of cardiac masses: additional value of CMR with 18 F-FDG-PET compared to CMR with CECT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> 2022; 49: 2232-2241</p> |
| <p>5. de Knecht MC, Rossi A, Petersen SE, Wragg A, Khurram R, Westwood M, Saberwal B, Mathur A, Nieman K, Bamberg F, Jensen MT, Pugliese F. Stress myocardial perfusion with qualitative magnetic resonance and quantitative dynamic computed tomography: comparison of diagnostic performance and incremental value over coronary computed tomography angiography. <i>European Heart Journal Cardiovascular Imaging</i> 2020 - online ahead of print (doi: 10.1093/ehjci/jeaa270)</p> |
| <p>6. Rossi A, Wragg A, Klotz E, Pirro F, Moon JC, Nieman K, Pugliese F. Dynamic CT myocardial perfusion imaging: comparison of clinical analysis methods for the detection of vessel-specific ischaemia. <i>Circulation Cardiovascular Imaging</i> 2017; 10</p> |
| <p>7. Rossi A, De Cecco CN, Kennon SRO, Zou L, Meinel FG, Toscano W, Segreto S, Achenbach S, Hausleiter J, Schoepf UJ, Pugliese F. CT angiography to evaluate coronary artery disease and revascularization requirement before trans-catheter aortic valve replacement. <i>Journal of Cardiovascular Computed Tomography</i> 2017; 11: 338-346</p> |
| <p>8. Coenen A, Rossi A, Lubbers M, Kurata A, Kono AK, Chelu R, Segreto S, Dijkshoorn M, Wragg A, van Geuns RJ, Pugliese F, Nieman K. Integrating CT myocardial perfusion and CT derived FFR in the workup of coronary artery disease. <i>JACC Cardiovascular Imaging</i> 2016; 10: 760-770</p> |
| <p>9. Rossi A, Dharampal A, Wragg A, Ceri Davies L, van Geuns RJ, Anagnostopoulos, Klotz E, Kitslaar P, Broersen A, Mathur A, Nieman K, Hunink MG, de Feyter, PJ, Petersen SE, Pugliese F. Diagnostic performance of hyperaemic myocardial blood flow index obtained by dynamic computed tomography: does it predict functionally significant coronary lesions? <i>European Heart Journal Cardiovascular Imaging</i> 2014; 15: 85-94</p> |
| <p>10. Rossi A, Papadopoulou SL, Pugliese F, Russo B, Dharampal AS, Dedic A, Kitslaar PH, Broersen A, Meijboom WB, van Geuns RJ, Wragg A, Ligthart J, Schultz C, Petersen SE, Nieman K, Krestin GP, de Feyter PJ. Quantitative CT Coronary Angiography: Does It Predict Functionally Significant Coronary Stenoses? <i>Circulation Cardiovascular Imaging</i> 2014; 7: 43-51</p> |





6. Publication metrics

ORCID ID:

0000-0001-6845-1199

Google scholar profile link:

https://scholar.google.com/citations?view_op=list_works&hl=en&user=NYP_VQEAAAAJ

Google scholar h-index:

34 (Scopus h-index: 30)

Google scholar number of citations:

3463 (Scopus citations: 2543)

7. Total number of peer reviewed publications / textbooks and chapters

Peer reviewed publications in national and international journals: 99
(<https://www.scopus.com/authid/detail.uri?authorId=36183503300>)

Book chapters in cardiovascular imaging textbooks: 5



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

The European Association of Cardiovascular Imaging has the mission of promoting excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging. As such, I would be thrilled at the opportunity to contribute to the further dissemination and consolidation of non-invasive cardiovascular imaging on a large scale. I believe that my clinical and research experience across several imaging modalities, along with the strategic collaborations I have established over the past years, will help me in fostering the following activities:

1) Clinical diagnosis: To promote the best diagnostic strategy, focusing on the patient and not on the modality, I aim at establishing recommendations in collaboration with the various scientific societies, taking into account the current state of knowledge. As the spreading of knowledge is highly dependent on the supply of training centers, I will also work to increase the number of accredited centers.

2) Education: I look forward to being involved in the organization and teaching of new educational courses. Indeed, the rapid technical advancements of new imaging technologies offer many opportunities for the development of multimodality and interdisciplinary courses. In addition to the existing formats, I propose to promote continuous education through alternative communication tools, such as elevator pitches, given by well-renowned experts.

3) Research: I strongly believe in the need of providing educational courses on research methodology to guarantee high standard cardiovascular research. In addition, I advocate the idea of developing new multidisciplinary and multimodality research programs by joining forces with other imaging associations and national societies.

4) Mentoring: I intend to expand the mentoring activities to empower early-career researchers. I support the idea of building a network of early-career researchers to disseminate research ideas and improve their visibility in the scientific community.