



Elections to EACVI Board 2020-2022

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	
Title	Professor
Family Name(s)	Dweck
First Name(s)	Marc
Birth Date	28/07/1979
Type of address	Business <input checked="" type="checkbox"/> Home <input type="checkbox"/>
Institute/Organisation	University of Edinburgh
Department	Centre for Cardiovascular Science
Address	Chancellor's Building, Little France Crescent Little France, Edinburgh
Post Code/Zip	EH16 4SB
City	Edinburgh
Country	United Kingdom



2. General Curriculum Vitae (300 words max)

I am a Professor of Clinical Cardiology at the University of Edinburgh and Consultant Cardiologist at the Edinburgh Heart Centre. I am a strong proponent of both nuclear and CT imaging but also have wider clinical and research experience with other multi-modality imaging approaches and believe in the principle that the optimum imaging test be selected to answer the specific clinical or research question at hand. As such I am trained in computed tomography, nuclear cardiology, cardiovascular magnetic resonance and echocardiography having conducted international imaging fellowships at the Royal Brompton Hospital London, Cedars Sinai Medical Centre Los Angeles and Mount Sinai Hospital New York.

Aside from my busy clinical and teaching commitments in multi-modality imaging I run a large research program, focusing on the clinical application of novel non-invasive techniques to the study of cardiovascular disease. In particular I have i) pioneered the use of PET to measure disease activity in aortic stenosis, myocardial disease and coronary atherosclerosis; ii) investigated the use of CT in both coronary artery disease (SCOTHEART trial) and aortic stenosis ; iii) used echocardiography to explore disease the cardiac complications of COVID-19; and iv) applied cardiovascular magnetic resonance to investigate myocardial fibrosis in aortic stenosis. I am the author of over 230 manuscripts and the PI of two ongoing international randomised controlled trials using novel imaging strategies to improve patient care in aortic stenosis (EVOLVED and SALTIRE 2).

I am the recipient of multiple national and international awards including : Prof J Roelandt's Young Investigator Award EACVI; Michael Davies Early Career Award British Cardiac Society ; British Heart Foundation Outstanding Investigator Award; Glaxo-Smith Kline Emerging Scientist of the Year; and The William W Parmley Young Author Award from JACC.



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

- Member of the EACVI board 2018-20 (councilor nuclear/CT)
 - EACVI 2020 Congress Program Committee
 - Congress Program Committee, European Society of Cardiology (Meetings in 2019/2020)
 - EACVI Education Committee Member 2016-2018
 - ESC/EACVI Task Force Member on Multi-modality Imaging
 - Co-chair EACVI Scientific Initiatives Committee
 - EACVI Lead Question Writer on Multi-Modality Imaging for Accreditation Examinations
 - EACVI question writer for CT and nuclear accreditation examinations
 - Course co-director EACVI CT course 2020
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- Member of the European Society of Cardiology Working Group on Valvular Heart Disease
 - Lead of the Valve Heart Disease Task Force for the British Society of Cardiovascular Magnetic Resonance
 - British Heart Foundation. Project Grants Committee 2018-2021

I have contributed to numerous expert consensus statements for the EACVI, including the imaging of prosthetic valves, restrictive cardiomyopathy, echocardiography during the COVID-19 pandemic and multi-modality cardiovascular imaging. I delivered multiple lectures on multi-modality imaging at the ESC, EuroEcho Imaging, EuroCMR and ICNC meetings over the past 5 years.

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

Yes No

If Yes, please specify:

Editorial Board Circulation
Editorial Board Heart
Editorial Board Circulation cardiovascular imaging
Editorial Board Journal of Nuclear Cardiology

**5. Publications (please list max 10 of your most important publications)**

1. The Scottish Computed Tomography of the HEART (SCOT-HEART) Trial Investigators. Coronary CT angiography and the future risk of myocardial infarction. **New England Journal of Medicine** 2018 Sep 6;379(10):924-933. doi: 10.1056/NEJMoa1805971
2. Williams MC, Kwiecinski J, Doris M, McElhinney P, D'Souza MS, Cadet S, Adamson PD, Moss AJ, Alam S, Hunter A, Shah ASV, Mills NL, Pawade T, Wang C, Weir McCall J, Bonnici-Mallia M, Murrills C, Roditi G, van Beek EJR, Shaw LJ, Nicol ED, Berman DS, Slomka PJ, Newby DE, Dey D, **Dweck MR**. Low-Attenuation Noncalcified Plaque on Coronary Computed Tomography Angiography Predicts Myocardial Infarction: Results From the Multicenter SCOT-HEART Trial (Scottish Computed Tomography of the HEART). **Circulation**. 2020 Mar 16. doi: 10.1161/CIRCULATIONAHA.119.044720. [Epub ahead of print]
3. Forsythe RO, **Dweck MR**, McBride OMB, Vesey AT, Semple SI, Shah ASV, Adamson PD, Wallace WA, Kaczynski J, Ho W, van Beek EJR, Gray CD, Fletcher A, Lucatelli C, Marin A, Burns P, Tambyraja A, Chalmers RTA, Weir G, Mitchard N, Tavares A, Robson MJM, Newby DE. ¹⁸F-Sodium Fluoride Uptake in Abdominal Aortic Aneurysms: The SoFIA₃ Study. **Journal American College of Cardiology** 2018 Feb 6;71(5):513-523. doi: 10.1016/j.jacc.2017.11.053.
4. **Dweck MR**, Williams MC, Moss AC, Newby DE, Fayad ZA. CT and MR in Ischemic Heart Disease. **Journal of the American College of Cardiology**. 2016. 2016 Nov 15;68(20):2201-16
5. The Scot Heart Investigators. Computed Tomography Coronary Angiography in Patients with Suspected Angina due to Coronary Heart Disease. *The Scottish Computed Tomography of the HEART (SCOT-HEART) Trial*. **The Lancet**. 2015. Jun 13;385(9985):2383-91
6. Joshi NV, Vesey AT, Williams MC, Shah ASV, Calvert PA, Craighead FHM, Yeo SE, Wallace W, Salter D, Fletcher AM, van Beek EJR, Flapan AD, Uren NG, Behan MWHM, Cruden NLM, Mills, NL, Fox KAA, Rudd JHF, **Dweck MR**,* Newby DE.* ¹⁸F-Fluoride positron emission tomography for identification of ruptured and high-risk coronary atherosclerotic plaques: a prospective clinical trial. **Lancet**. 2014; 383(9918):705-13. * joint senior author
7. Everett RJ, Treibel TA, Fukui M, Lee H, Rigolli M, Singh A, Bijsterveld P, Tastet L, Al Musa T, Dobson L, Chin C, Captur G, Wiesemann S, Ferreira VM, Piechnik SK, Schulz-Menger J, Schelbert EB, Clavel MA, Newby DE, Myerson SG, Pibarot P, Lee S, Cavalcante JL, Lee SP, McCann GP, Greenwood JP, Moon JC, **Dweck MR**. Extracellular Myocardial Volume in Patients With Aortic Stenosis. **Journal American College of Cardiology**. 2020. 75: 304 – 16. <https://doi.org/10.1016/j.jacc.2019.11.032>





8. **Dweck MR**, Khaw HJ, Baird A, Luo ELC, Williams MC, Makielo P, Sng GKZ, Joshi N, Mirsadraee S, Boon NA, Van Beek EJR, Rudd JHF, Newby DE. Aortic stenosis, atherosclerosis and skeletal bone. *Is there a common link with inflammation and calcification?* **European Heart Journal**. 2013 Jun;34(21):1567-74.
9. **Dweck MR**, Jones C, Joshi N, Fletcher AM, Richardson H, White A, Marsden M, Pessotto R, Clark JC, Wallace WA, Salter DM, McKillop G, van Beek EJR, Boon NA, Rudd JHF, Newby DE. Assessment of valvular calcification and inflammation by positron emission tomography in patients with aortic stenosis. **Circulation**. 2012;125(1):76-86.
10. Zheng KH, Tsimikas S, Pawade TA, Kroon J, Jenkins WSA, Doris MK, White AC, Timmers NKLM, Hjortnaes J, Rogers MA, Aikawa E, Arsenault BJ, Witztum JL, Newby DE, Koschinsky ML, Fayad ZA, Stroes ESG, Boekholdt SM, **Dweck MR**. Lipoprotein(a) and oxidized phospholipids drive disease progression by aggravating calcification in aortic valve stenosis patients. **Journal of the American College Cardiology**. 2019;73(17):2150-2162. doi: 10.1016/j.jacc.2019.01.070.

6. Hirsch Index to date, by Web of Science

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



EACVI

European Association of
Cardiovascular Imaging

I would relish the opportunity to continue my participation on the EACVI board and would bring the same enthusiasm and energy that I have demonstrated over the past two years. I am a keen proponent of the value that nuclear and CT imaging bring to clinical practice, using the strengths of these modalities to improve patient care. However I also have both clinical and research experience in imaging across multiple modalities and share the EACVI's vision that this is the future of cardiovascular imaging I would work fervently to promote the EACVI and cardiovascular imaging across Europe and indeed across the globe and would very much welcome the opportunity to contribute my skills and energy to this outstanding and unique imaging association.



ESC

European Society
of Cardiology