

## 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	Dr
Family Name(s)	Keenan
First Name(s)	Niall Gerald James
Birth Date	10/09/1977
Type of address	Business <input checked="" type="checkbox"/> Home <input type="checkbox"/>
Institute/Organisation	West Hertfordshire NHS Trust
Department	Cardiology
Address	Watford Hospital, Vicarage Road
Post Code/Zip	WD18 0HB
City	Watford
Country	UK

## 2. General Curriculum Vitae (300 words max)

I am a consultant cardiologist in the UK specialised in cardiac imaging. My main clinical interest is cardiac MR, but I am also active in cardiac CT, echocardiography, stress echo, and TOE, plus general inpatient and outpatient cardiology.

In my hospital I set up and lead a CMR Unit with a clinical volume of >1000 exams a year.

Current post(2014-date):

Consultant cardiologist West Hertfordshire NHS Trust

Honorary consultant cardiologist, Imperial College Healthcare NHS Trust

Honorary Lecturer, Imperial College, London.

Training:

1995-2001 Oxford University Medical School (first class honours physiological sciences)

2001-2004 House officer and senior house officer in Oxford, Bath, Hammersmith, Royal Brompton, Guy's and St Thomas' Hospitals.

2004-2007 Research fellow in CMR Royal Brompton Hospital under Prof Dudley Pennell for MD(Res) degree: "Cardiovascular Magnetic Resonance of the Arterial Wall".

2007-2014 Cardiology trainee North West London cardiology rotation.

Including:

-2009 – Echo fellow for 6 months Hôpital Bichat, Paris (Dr David Messika-Zeitoun and Prof Alec Vahanian)

-2011-2013 Imaging fellow at Hammersmith Hospital

-2012-2013 Pan London Cardiac CT Fellowship at London Chest Hospital

-2013-2014 Transplant fellow at Harefield Hospital.

Qualifications:

BA(Hons) (1998),BMBCCh(2001),MRCP(2004),MD(Res)(2010),

MA(Oxon)(2011),FESC (2015),FSCMR(2018),FRCP(2019).

Level 3 accreditation in CMR and cardiac CT.

EACVI TTE and TOE accreditation.

**Research interests/themes:**

1. CMR of the arterial wall and in the inflammatory arthritides(Brompton Hospital).
2. Echo in valvular disease (Paris). Paper about LA size in mitral stenosis referenced in 2012 ESC/EACTS valvular guidelines.
3. Stress echo - ORBITA group, Imperial College.
4. CMR in valvular disease (local PI for the EVOLVED trial of early intervention using CMR for risk stratification in AS).

2018 Elected to the board of the British Society for CMR (BSCMR) with responsibility for clinical standards.

Lectured widely including invited presentations at EuroCMR and SCMR.

Lead for cardiology training in our hospital.

**Reviewer for journals including:**

- JCMR
- JMRI
- Atherosclerosis
- and ESC conference.



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

-I am a board member of the British Society of CMR (BSCMR) – elected 2018 with responsibility for clinical standards.

-I have led the UK national survey of all CMR Units. This has just been completed and a manuscript is in review with oral presentation accepted at ESC 2020. We achieved a 100% response rate and have looked in detail at potential disparities in access to CMR across the UK. This is likely to have significant implications for how CMR is delivered in the UK to the benefit of clinical teams and ultimately to patients. (**Keenan NG, Captur G, McCann G, Berry C, Myerson S, Fairbairn T, Hudsmith L, O'Regan DP, Westwood M, Greenwood JP. Variation in Cardiovascular Magnetic Resonance Service Delivery across the United Kingdom.**)

- I was the primary author (with Prof Saul Myerson) of the national standards document for CMR. This is an important document written under the auspices of the British Cardiac Society which aims to encourage standardisation of CMR delivery in the UK to reduce variation in practice and promote clinical excellence.

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

Yes  No

If Yes, please specify:

Board member of the British Society of CMR (BSCMR) – elected 2018 with responsibility for clinical standards. Please see above.

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

1. Al-Lamee RK, Shun-Shin MJ, Howard JP, ... **Keenan NG**, ... Francis DP. Dobutamine Stress Echocardiography Ischemia as a Predictor of the Placebo-Controlled Efficacy of Percutaneous Coronary Intervention in Stable Coronary Artery Disease: The Stress Echocardiography-Stratified Analysis of ORBITA. *Circulation*. 2019;140:1971-1980.
2. Al-Lamee R, Howard JP, Shun-Shin MJ, ... **Keenan NG**, ... Francis DP. Fractional Flow Reserve and Instantaneous Wave-Free Ratio as Predictors of the Placebo-Controlled Response to Percutaneous Coronary Intervention in Stable Single-Vessel Coronary Artery Disease. *Circulation*. 2018;138:1780-1792.
3. **Keenan NG**, Sheppard MN, Nott DM, Pennell DJ, Mohiaddin RH. Carotid plaque rupture. *Lancet* 2009;374:1703.
4. **Keenan NG**, Sheppard MN, Grasso A, Chan CF, Mukherjee RK, Boyle JJ, Gatehouse PD, Firmin DN, Pennell DJ. Validation of carotid arterial wall volume measurement by cardiovascular magnetic resonance. *J Magn Reson Imaging*. 2010;31:935-41.
5. **Keenan NG**, Brochet E, Juliard J-M, Malanca M, Aubry P, Lepage L, Cueff C, Jondeau G, lung B, Vahanian A, Messika-Zeitoun D. Aortic root dilatation in young patients with cryptogenic stroke and patent foramen ovale. *Arch Cardiovasc Dis*. 2012; 105:13-17
6. **Keenan NG**, Cueff C, Cimadevilla C, Brochet E, lung B, Vahanian A, Messika-Zeitoun D. Usefulness of left atrial volume versus diameter to assess thromboembolic risk in mitral stenosis. *American Journal of Cardiology*. 2010;106:1152-6.
7. **Keenan NG**, Mason JC, Maceira A, Assomull R, O'Hanlon R, Chan C, Roughton M, Andrews J, Gatehouse PD, Firmin DN, Pennell DJ. Integrated cardiac and vascular assessment in Takayasu's arteritis by cardiovascular magnetic resonance. *Arthritis and Rheumatism* 2009; 60: 3501-3509.
8. **Keenan NG**, Locca D, Varghese D, Roughton M, Gatehouse PD, Hooper J, Firmin DN, Pennell DJ. Magnetic resonance of carotid artery ageing in healthy subjects. *Atherosclerosis*. 2009;205:168-73.
9. **Keenan NG**, Grasso A, Locca D, Varghese A, Roughton M, Gatehouse PD, Firmin DN, Pennell DJ. Comparison of 2D and multi-slab 3D magnetic resonance techniques for measuring carotid wall volumes. *J Magn Reson Imaging*. 2008;28:1476-82.
10. Assomull RG, Lyne JC, **Keenan N**, Gulati A, Bunce NH, Davies SW, Pennell DJ, Prasad SK. The role of cardiovascular magnetic resonance in patients presenting with chest pain, raised troponin and unobstructed coronary arteries. *Eur Heart J* 2007; 28: 1242-1249.





## 6. Hirsch Index to date, by Web of Science

14

<https://publons.com/researcher/3437120/niall-keenan/>

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

I have found being a board member of BSCMR very fulfilling and I would like to do similar work in a European context, and in particular among such an inspirational group of people as the EACVI board with true advocates for excellence in clinical care and research.

My echo fellowship in Paris in 2009 with Dr David Messika-Zeitoun and Prof Alec Vahanian was very helpful in my training and gave me an international perspective. At the time I realised how important the ESC was and I applied for FESC as early as I was able to.

My role on the BSCMR board with responsibility for clinical standards, and in particular leading the survey of UK CMR units has highlighted to me potential disparities in access to CMR. It is likely that there may be disparities of access to CMR across Europe. With my background in this area I would aim to be a strong advocate within EACVI for patient access to CMR so that patients have the benefit of this technology in their management.

My role in writing the UK CMR standards document has shown me the importance of such documents in standardising practice and promoting clinical excellence, and I would like to take part in similar initiatives across Europe within the framework of EACVI and ESC.

I am a proud European with both British and Irish citizenship and I speak English and French.