

Elections to EACVI Board 2018-2020

Application for the position:

**EACVI Councillor (Cardiovascular Magnetic
Resonance)**



1. Your Identity	
Title	Medical Doctor
Family Name(s)	Raimondi
First Name(s)	Francesca
Birth Date	23/03/1976
Institute/Organisation	Hopital Necker Enfants Malades Université la Sorbonne
Department	Pediatric Cardiology and Cardiovascular Surgery, Pediatric Radiology
City	Paris
Country	France



2. General Curriculum Vitae (300 words max)

Specialisation in Cardiology, 2005, Università Cattolica Rome, 50/50 cum laude

Consultant Pediatric Cardiologist, 2006-2009

Department of Pediatric Cardiology and Cardiac Surgery Bambino Gesù' Hospital Rome, Prof. SP Sanders

Consultant Paediatric Cardiologist, January 2011 till present

Department of Pediatric Cardiology and Cardiac Surgery Hôpital Necker Enfants Malades Paris, Pr D.Bonnet

Clinical Lead of Non invasive Paediatric Cardiac Imaging 2012 till present (CMR and cardiac CT) in the Department of Pediatric Radiology, Pr Nathalie Boddaert

Researcher of Heart-Morphogenesis group directed by Dr Sigolene Meilhac, Institut Imagine INSERM, Université Paris Descartes

Honorary contract since may 2018 at Evelina Children's Hospital London, Fetal cardiology Unit, Pr John Simpson and Fetal MRI, Dr K. Pushparajah.

Certification level 3 of the European Society of Cardiology for Congenital Cardiac MRI since may 2018.

Scientific collaboration:

Co-PI of PhD Jeanne Ventre since Novembre 2017 with Pr Jose Fullana, Institut Jean le Rond d'Alembert CNRS, Université Pierre et Marie Curie

« Modelling of pressure gradients in simple and complex stenosis with 4D Flow MRI sequence»

Dr K. Pushparajah, Evelina Children's Hospital London,

Foetal MRI in congenital heart disease

Prof. Stephen P. Sanders

Children's Hospital, Harvard University, Boston

Study of embryogenesis and fiber orientation with diffusion MRI

Dr. Giovanni Aquaro, Fondazione G. Monasterio, Pisa.

T1 mapping in pediatric population

Dr Albert Xsiao

Dept. Pediatric Radiology University of California, San Diego

Pediatric application of 4D Flow

Member of Scientific Board of "Lumière Project"

Multimaging platform for fetal imaging <http://fondation-lumiere.org>

Areas of interest

Fetal and pediatric Echocardiography

Expertise in diagnosis and follow up of complex congenital heart diseases

Cardiac MRI

Development of 4D flow for assessment of intra and extra-cardiac flows.

Development of T1 mapping sequences to assess myocardial inflammation

Cardiac CT

Development of scanning protocols to minimize radiation burden (certification 5/5 stars for radioprotection by the European society of Radiology 2018)



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

I'm a silver member of EACVI since several years, I participate regularly as faculty member to the annual congress of CMR/SCMR.
In France, I'm part of the French Society of Congenital heart disease (FCPC), in particular in the Imaging Group, with which I collaborate to scientific collaboration between different Pediatric Cardiology groups.

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. Martins D, Ovaert C, Legendre A, Maltret A, Khraiche D, Boddaert N, Bonnet D, **Raimondi F**. Myocardial Inflammation detected by cardiac MRI in Arrhythmogenic Right Ventricular Cardiomyopathy: a pediatric case series. **International Journal of cardiology** 2018 May 31
2. **Raimondi F**, Aquaro GD, De Marchi D, Sandrini C, Khraiche D, Festa P, Ait Ali L, Boddaert N, Bonnet D. MRI myocardial perfusion after arterial switch for transposition of great arteries. **JACC Imaging** May 11(5):778-779
3. **Raimondi F**, Iserin F, MD, Raïsky O, Laux D, Bajolle F, Boudjemline, Bonnet D. Myocardial inflammation on cardiovascular magnetic resonance predicts left ventricular function recovery in children with recent dilated cardiomyopathy. **Eur Heart J Cardiovasc Imaging** 2015; 16 (7): 756-762
4. Sizarov A, **Raimondi F**, Bonnet D, Boudjemline Y. Cardiovascular Anatomy in Children with Bidirectional Glenn Anastomosis Regarding the Transcatheter Fontan Completion **Archives of Cardiovascular Diseases** 2017, Nov 13
5. Habib Geryes B, Calmon R, Warin-Fresse K, Boddaert N, Khraiche D, Bonnet D, **Raimondi F**. Low-dose paediatric cardiac computed tomography at any heart rate: assessment of effective dose and image quality. **European Journal of Phisica Medica** 2018 May; 49:99-104
6. Berteloot L, Proisy M, Jais JP, Levy M, Boddaert N, Bonnet D, **Raimondi F**. Idiopathic and Heritable Pulmonary Arterial Hypertension in childhood: a systematic analysis of Chest angiographic Computed Tomography at diagnosis. **European Radiology** (accepted august 2018)
7. Sizarov A, **Raimondi F**, Bonnet D, Boudjemline Y. Vascular anatomy in children with univentricular hearts regarding transcatheter bidirectional Glenn anastomosis. **Arch Cardiovasc Dis.** 2017 Jan 27
8. **Raimondi F**, Bonnet D. Imaging of congenital anomalies of the coronary arteries **Diagn Interv Imaging.** 2016 May;97(5):561-9.
9. **Raimondi F**, Bonnet D, Geva T, Sanders SP. Anomalous origin of the left innominate (brachiocephalic) artery in the right aortic arch: How can it be anomalous when the left innominate artery is absent? **Ann Pediatr Cardiol.** 2016 May-Aug;9(2):170-2
10. Bonnemains L, **Raimondi F**, Odille F Specifics of cardiac magnetic resonance imaging in children. **Arch Cardiovasc Dis.** 2016, February 109 (2)





6. Received Hirsch Index (Year / Index)

7 (159 citations)

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

82

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

I am a cardiologist, specialised in congenital heart disease and with a distinct expertise in non-invasive imaging (foetal/paediatric echocardiography, MRI, CT). I would really like to join the EACVI Board to represent the congenital heart disease area.

The number of patients with congenital heart disease is dramatically increasing, therefore, cardiologists are nowadays facing a new population of complex patients (children and grown-up) who survive previously lethal conditions. Non-invasive cardiac imaging is the most important tool for diagnosis and follow-up in patients with congenital heart disease.

Echocardiography needs a really specific expertise, including deep knowledge of cardiac anatomy and pathological variants of anatomical structures. It requires long and specific learning tutoring by expert paediatric cardiologists.

Cardiac MRI, non-invasive and not reliant on ionizing radiations, is the gold standard for anatomical and functional cardiac assessment, especially in adolescents and adults, where Echocardiography is often technically challenging.

Multimodality approaches based on different cardiac imaging techniques (Echo, MRI and CT scan) are precious for both diagnostic and therapeutic decisional processes, and this area should be encouraged and taught to young generation.

I had the opportunity to learn and practice in all fields of congenital heart disease both in term of population (pediatric and grown-up), and imaging techniques (fetal, pediatric echo, MRI, CT scan), and to collaborate with many international groups of congenital experts.

Therefore, I think it is the right moment for me to offer my experience and expertise to the European Community in order to contribute to scientific and clinical advances, and to support the growth of "multimodality expertise".





I would like to help coordinate the European group in the “teaching programme” in non-invasive imaging, to support young cardiologists in approaching the congenital world with enthusiasm and passion, looking at the enormous potential of multimodality techniques in the future of congenital heart disease.