

CURRICULUM VITAE
DR ALESSANDRA FRIGIOLA, MD, MD(res), FRCP

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GMC Number: 4691697 (Full- May 2002)

QUALIFICATIONS

- September 1991 - July 1997
Medical Degree at the University of Verona, Italy – First Class Degree
- September 1997 - February 1998
Medical degree validation, University of Verona, Italy
- November 1997 - October 2001 - First Class Degree
Specialist training in Adult Cardiology at the University of Verona, Italy – Exam: First Class Degree
- **MD(res)**, University College of London – April 2012
- **Level III SCMR certification**
- **EACVI level III CHD CMR accreditation**
- **Level II SCCT accreditation**
- **Honorary Senior Clinical Lecturer, King's College London**
- **Fellow of the Royal Society of Physicians**

MEMBERSHIPS:

- **General Medical Council: 4691697**
- **Royal College of Physician: 308210**
- **British Cardiac Congenital Association: 1619**
- **Medical Defence Unit: 640983C**
- **Information Commissioner Office: ZA147312**
- **EACVI: 1S1/0/01800032**
- **SCMR: 38971285**

EMPLOYMENT HISTORY

- May 2014 till present (full-time)
Consultant Cardiologist – ACHD specialist
Guy's & St Thomas' NHS Foundation Trust
- September 2013 to May 2014 (full-time)
Trust Fellow in Cardiology - post CCT at Great Ormond Street Hospital for children, NHS Foundation trust, London, UK
- October 2012 to September 2013 (part time – 70% of WTE)
ACHD SpR, Royal Brompton & Harefield Hospital, NHS Trust, London, UK
- October 2011 to October 2012 (full-time)
ACHD SpR, Heart Hospital, UCLH, London UK
- January 2009 - September 2011 (part-time)
- **Clinical research post in cardiology at Great Ormond Street Hospital (GOSH), London, UK**
Research project title: Cross sectional study of tetralogy of Fallot
- January 2007 to May 2012 (part-time)
MD(res) at University College of London and ICH (Institute of Child Health), London, UK
- January 2006 to December 2006 (part time)

Clinical research post at Great Ormond Street Hospital and research collaborator with Policlinico San Donato, IRCCS, Milan, Italy

- September 2002 to September 2004 (full-time)
ACHD fellow, the Heart Hospital, UCLH, London, UK
- November 1997 - October 2001 (full-time)
Specialist training in general Cardiology at the University of Verona, Italy
- May 2000 to October 2000 (full time)
Clinical research, Wales Heart Research Institute, University of Wales College of Medicine, Cardiff, United Kingdom

SPECIAL INTERESTS

Cardiovascular imaging (CMR, CT, echocardiography), Exercise Physiology

PRICES

- Recognition of outstanding scientific work for winning the best moderated poster, ESC, London, 2015
- Young Investigator Awards, Euroecho, Nice, December 2001

GRANTS

- **Functional and protein analysis of right ventricular tissue from tetralogy of Fallot patients with pulmonary regurgitation: comparison with healthy ventricular tissue.** BHF (2011) – £32,998 awarded. Co-PI with Professor Kentish, KCL
- **Characterization of the electrical, structural, and functional impact of an atrial septal defect.** BHF grant (May 2018); co-applicant
- **Non-contrast Enhanced Multi-contrast 3D Whole-heart MRI for Improved Management of Patients with Congenital Heart Disease.** BHF grant (June 2018); co-applicant
- **Lifestyle intervention and heart rate variability in congenital heart disease.** Internal KCL Med Tech Grant, IRAS 252743, January 2019; Role: principal investigator
- **Impact of lifestyle intervention on cardiovascular and psychological health profile in adult patients with congenital heart disease: a feasibility study (RCT).** IRAS 239345 – In progress; Role: principal investigator
- **Efficient, Simplified and Comprehensive Whole-heart Multiparametric Assessment in Patients with Fontan Physiology.** BHF Grant Application – Dr Anastasia Fotaki. October 2020. Role: Co-PI; Outcome: application under evaluation.
- **Impact of lifestyle intervention on cardiovascular and psychological health profile in adolescents with congenital heart disease.** July 2021, Evelina Charity Grant; 650 K pounds; Role -Co PI

PUBLICATIONS

1. Nadeev Wijesuriya, Felicity De Vere, Sandra Howell, Nilanka Mannakkara, Paolo Bosco, Alessandra Frigiola, Seshandri Balaji, Henry Chubb, Steven A Niederer, Christopher A Rinaldi. Potential applications of ultrasound-based leadless endocardial pacing in adult congenital heart disease. Heart Rhythm 2024 Sep 12: S1547-5271(24)03296-X.
2. Gräni C, Stark AW, Lo Rito M, Frigiola A, Siepe M, Tchana B, Cipriani A, Zorzi A, Pergola V, Crea D, Sarris G, Protopapas E, Sirico D, Di Salvo G, Pegoraro C, Sarto P, Francois K, Frigiola A, Cristofaletti A, Accord RE, Gonzalez Rocafort A, Debeco G, Padalino M. First report from the european registry for anomalous aortic origin of coronary artery (EURO-AAOCA). Interdiscip Cardiovasc Thorac Surg. 2024 Apr 22
3. Arvanitaki A, Frigiola A, Iannaccone G, Montanaro C. Benefit of Exercise in Patients with a Fontan Circulation. Int J Cardiol. 2023 Aug 22

4. Montanaro C, Dahill K, [Frigiola A](#), Boyle S, Gatzoulis MA. The Fontan-Infective Endocarditis Paradox: Should Patients with a Fontan Circulation be Counselling for Antibiotic Prophylaxis? *Eur J Prev Cardiol*. 2023 Aug 9
5. Anastasia Fotaki, Kuberan Pushparajah, Reza Hajhosseiny, Alina Schneider, Harith Alam, Joana Ferreira, Radhouene Neji, Karl P. Kunze, [Alessandra Frigiola](#), Rene' M. Botnar, Claudia Prieto. Free-breathing, Contrast Agent-free Whole-Heart MTC-BOOST Imaging: Single-Center Validation Study in Adult Congenital Heart Disease. *Radiology: Cardiothoracic Imaging*, Vol. 5, No. 1. Feb 2023
6. O'Neill L, Sim I, O'Hare D, Whitaker J, Mukherjee RK, Niederer S, Wright M, Ezzat V, Rosenthal E, Jones MI, [Frigiola A](#), O'Neill MD, Williams SE. Provocation and localization of atrial ectopy in patients with atrial septal defects. *J Interv Card Electrophysiol*. 2022 Oct;65(1):227-237.
7. Rashid I, Ginami G, Nordio G, Fotaki A, Neji R, Alam H, Pushparajah K, [Frigiola A](#), Valverde I, Botnar RM, Prieto C. Magnetization Transfer BOOST Non-contrast Angiography Improves Pulmonary Vein Imaging in Adults With Congenital Heart Disease. *J Magn Reson Imaging*. 2022 Jun 1.
8. O'Neill L, Sim I, O'Hare D, Whitaker J, Mukherjee RK, Razeghi O, Niederer S, Wright M, Chiribiri A, [Frigiola A](#), O'Neill MD, Williams SE. Cardiac MagnEtic resonance assessment of bi-Atrial fibrosis in secundum atrial septal defects patients: CAMERA-ASD study. *Eur Heart J Cardiovasc Imaging*. 2022 Aug 22;23(9):1231-1239.
9. Lara Tosunlar, Phuoc Duong, Chris Tack, Jacky Jones, Natali Chung, Joseph Chilcot, Zoe Moon, [Alessandra Frigiola](#). A Qualitative Study Exploring Lifestyle Intervention in Congenital Heart Disease. *IJCCHD*, Volume 6, December 2021, 100259
10. O'Neill L, Sim I, O'Hare D, Whitaker J, Mukherjee RK, Razeghi O, Niederer S, Wright M, Chiribiri A, [Frigiola A](#), O'Neill MD, Williams SE. Cardiac MagnEtic resonance assessment of bi-Atrial fibrosis in secundum atrial septal defects patients: CAMERA-ASD study. *Eur Heart J Cardiovasc Imaging*. 2021 Sep 26
11. Camille Cenni, Stephanie Andres, Maja Hempel, Tim M Strom, Ellen Thomas, Angela Davies, Norma Timoney, [Alessandra Frigiola](#), Malcolm Logan, Muriel Holder-Espinasse TBX3 and TBX5 duplication: A family wif an atypical overlapping Holt-Oram/ulnar-mammary syndrome phenotype. *Eur J Med Genet*. 2021 Jul;64(7):104213.
12. Werner Budts, Owen Miller, Sonya V Babu-Narayan, Wei Li, Emanuela Valsangiacomo Buechel 4, [Alessandra Frigiola](#), Annemien van den Bosch, Beatrice Bonello, Luc Mertens, Tarique Hussain, Victoria Parish, Gilbert Habib, Thor Edvardsen, Tal Geva, Jolien W Roos-Hesselink, Katarina Hanseus, Laura Dos Subira, Helmut Baumgartner, Michael Gatzoulis, Giovanni Di Salvo. Imaging the adult with simple shunt lesions: position paper from the EACVI and the ESC WG on ACHD. Endorsed by AEPC (Association for European Paediatric and Congenital Cardiology). *Eur Heart J Cardiovasc Imaging*. 2021 May 10;22(6):e58-e70.
13. Grace HT Kwok, Bram Ruijsink, Srinivas Narayan, Kuberan Pushparajah, Henry Chubb, Yaso Emmanuel, Harith Alam, Eric Rosenthal and [Alessandra Frigiola](#). MR-Conditional Cardiovascular Implantable Electronic Devices in Patients with Congenital Heart Disease: A Real Gain? - *IJCDD*, Volume 6, Issue 1, page 18, March 2021
14. Imran Rashid, Giulia Ginami, Giovanna Nordio, Anastasia Fotaki*, Radhouene Neji, Harith Alam, Kuberan Pushparajah, [Alessandra Frigiola](#), Israel Valverde, Rene M Botnar, Claudia Prieto. Magnetization Transfer BOOST for Contrast-free Arterial and Venous Anatomical Assessment in Adults with Congenital Heart Disease. *Cardiovasc Magn Reson*; 2020 Dec 14;22(1):88
15. Bram Ruijsink, Mari N Velasco Forte, Phuoc Duong, Esther Puyol-Antón, Kuberan Pushparajah, [Alessandra Frigiola](#), David Nordsletten, Reza Razavi. Selective Heart Rate Inhibition Improves Single-Ventricular Stroke Volume, Function, and Efficiency During Exercise - *JACC Cardiovasc Imaging*; 2020 Nov 19;S1936-878X(20)30891-3
16. Stavros Polyviou, [Alessandra Frigiola](#), Marietta Charakida. Physical activity assessment and advice as part of routine clinical care in patients with congenital heart disease. *Hellenic J Cardiol*. 2020 Sep 8;S1109-9666(20)30188-3.
17. B Ruijsink, M N Velasco Forte, P Duong, L Asner, K Pushparajah, [A Frigiola](#), D Nordsletten, R Razavi. Synergy in the heart: RV systolic function plays a key role in optimizing LV performance during exercise. *Am J Physiol Heart Circ Physiol*. 2020 Sep 1;319(3):H642-H650.
18. Daniel Brayson, So-Jin Holohan, Sonya C. Bardswell, Matthew Arno, Han Lu, Hanna K. Jensen, Phan Kiet Tran, Javier Barallobre-Barreiro, Manuel Mayr, Cristobal G. dos Remedios, Victor T. Tsang, [Alessandra Frigiola*](#), and Jonathan C. Kentish* (*joint last authors). Right Ventricle Has Normal Myofilament Function But Shows Perturbations in the Expression of Extracellular Matrix Genes in Patients With Tetralogy of Fallot Undergoing Pulmonary Valve Replacement. *J Am Heart Assoc*. 2020;9: e015342.

19. Louisa O'Neill, Christopher N Floyd, Iain Sim, John Whitaker, Rahul Mukherjee, Daniel O'Hare, Michael Gatzoulis, [Alessandra Frigiola](#), Mark D O'Neill, Steven E Williams. Percutaneous secundum atrial septal defect closure for the treatment of atrial arrhythmia in the adult: A meta-analysis. *Int J Cardiol*; 2020 Jul 15; S0167-5273(20)33462-8.
20. Bram Ruijsink, Phuoc Duong, Isra Valverde, [Alessandra Frigiola](#). Pulmonary Artery Aneurysm Mimicking a Patent Ductus Arteriosus. *JACC: case reports*, Vol 2, 4, 2020
21. Butera G, Lucchese G, Austin C, [Frigiola A](#). Hybrid trans-apical atrioventricular valve-in-valve implantation in Fontan circulation. *Catheter Cardiovasc Interv*. 2020 Apr 1;95(5):950-953.
22. Irbesartan in Marfan syndrome (AIMS): a double-blind, placebo-controlled randomised trial. Mullen M, Jin XY, Child A, Stuart AG, Dodd M, Aragon-Martin JA, Gaze D, Kiotsekoglou A, Yuan L, Hu J, Foley C, Van Dyck L, Knight R, Clayton T, Swan L, Thomson JDR, Erdem G, Crossman D, Flather M; AIMS Investigators. *Lancet*. 2020 Dec 21;394(10216):2263-2270.
23. [Frigiola A](#). Impact of a centre and home-based cardiac rehabilitation program on the quality of life of teenagers and young adults with congenital heart disease: the QUALI- REHAB study rationale, design and methods. *Int J Cardiol*. 2019 Mar 9. pii: S0167-5273(19)30248-7.
24. K Krishnathasan, A Constantine, S Fitzsimmons, D Taliotis, R Bedair, S Curtis, [A Frigiola](#), E Orchard, B Pandya, C.J Lockhart, P Clift, L Hudsmith, J Oliver, V Papaioannou, K Dimopoulos. Transition for patients with congenital heart disease in the UK: need for a universal model with adequate training and support. *European Heart Journal*, Volume 41, Issue Supplement_2, November 2020
25. Brayson D, [Frigiola A](#), Clark JE. Dynamic heart rate response to multi-day unsupported ultra-endurance cycle racing: A case report. *Exp Physiol*. 2019 Feb;104(2):174-179.
26. CHAMPION Steering Committee: Konstantinos Dimopoulos, Robin Condliffe, Robert M.R Tulloh, and Paul Clift; Faculty: Rafael Alonso-Gonzalez, Radwa Bedair, Natali A.Y Chung, Gerry Coghlan, Samantha Fitzsimmons, [Alessandra Frigiola](#), Luke S Howard, Petra Jenkins, Damien Kenny, Wei Li, Simon T MacDonald, Colm McCabe, James J Oliver, Mark S Spence, Gergely V Szantho, Kate von Klemperer, Dirk G Wilson, Stephen J Wort. Consensus on the Echocardiographic Screening for Pulmonary Hypertension in Adults with Congenital Heart Disease. *JACC Sept*, 72, 22, 2018:2778-88.
27. S. Cannata, D. Freidas, G. Lucchese, [A. Frigiola](#), J. Hancock, A. Head, C. Young, B. Prendergast, S Redwood. Transcatheter aortic valve replacement for severe aortic regurgitation in Singleton-Merten syndrome. *JACC Cardiovasc Interv*. 2018 Nov 12;11(21):e173-e174.
28. Di Salvo G, Miller O, Babu Narayan S, Li W, Budts W, Valsangiacomo Buechel ER, [Frigiola A](#), van den Bosch AE, Bonello B, Mertens L, Hussain T, Parish V, Habib G, Edvardsen T, Geva T, Baumgartner H, Gatzoulis MA. Imaging the adult with congenital heart disease: a multimodality imaging approach-position paper from the EACVI. *Eur Heart J Cardiovasc Imaging*. 2018 Oct 1;19(10):1077-1098.
29. Kwok GG, Witts R, [Frigiola A](#). Delayed recurrent pleuropericardial effusions following atrial septal defect closure with Amplatzer septal occluder device: a case of postpericardiotomy syndrome? *BMJ Case Rep*. 2018 May 8;2018.
30. Westerland O, [Frigiola A](#), Robert L, Shaw A, Blakeway L, Katsanos K, Kiesewetter C, Chung N, Karunanithy N. Vascular manifestations of syndromic aortopathies: role of current and emerging imaging techniques. *Clin Radiol*. 2015 Sep 17. [Epub ahead of print]
31. Bram Ruijsink, Esther Puyol-Anto', Muhammad Usman, Joshua van Amerom, Phuoc Duong, Mari Nieves Velasco Forte, Kuberan Pushparajah, [Alessandra Frigiola](#), David A. Nordsletten, Andrew P. King, and Reza Razavi Semi-automatic Cardiac and Respiratory Gated MRI for Cardiac Assessment During Exercise. September 2017. *Lecture Notes in Computer Science*. Follow journal; DOI: 10.1007/978-3-319-67564-09
32. Webb J, [Frigiola A](#), Carr-White G, Chiribiri A. An unusual cause of ventricular tachycardia. *Eur Heart J*. 2015 Jun 14 [Epub ahead of print]
33. Hunter RM, Isaac M, [Frigiola A](#), Blundell D, Brown K, Bull K. Lifetime costs and outcomes of repair of tetralogy of Fallot compared to natural progression of the disease: great Ormond street hospital cohort. *PLoS One*, 2013;8(3)
34. Frigiola A, Hughes M, Turner M, Taylor A, Marek J, Giardini A, Hsia TY, Bull K. Physiological and phenotypic characteristics of late survivors of tetralogy of fallot repair who are free from pulmonary valve replacement. *Circulation*. 2013 Oct 22;128(17):1861-8.
35. [Frigiola A](#), Bull C, Wray J. Exercise capacity, quality of life, and resilience after repair of tetralogy of Fallot: a cross-sectional study of patients operated between 1964 and 2009. *Cardiol Young*. 2013 Feb 18:1-8

36. Fink D, [Frigiola A](#), Cullen S. Postcardiotomy syndrome: recurrent cardiac tamponade and an exquisite steroid response. *BMJ Case Rep.* 2012 Dec 19; 2012.
37. Wray J, [Frigiola A](#), Bull C, Adult Congenital Heart disease Research Network (ACoRN). Loss to specialist follow-up in congenital heart disease; out of sight, out of mind. *Heart.* 2013; 99: 485-490.
38. Quail M, [Frigiola A](#), Giardini A, Muthurangu V, Hughes M, Lurz P, Tsang V, Khambadkone S, Deanfield J.E, Taylor A.M. Chronic Pulmonary Incompetence in Tetralogy of Fallot: A Comparison of Pulmonary Valve Replacement or Clinical Observation. *Ann Thorac Surg.* 2012; 94: 1619-26.
39. [A Frigiola](#), A Giardini, A Taylor, V Tsang, G Derrick, S Khambadkone, F Walker, S Cullen, P Bonhoeffer, J Marek. Echocardiographic assessment of diastolic biventricular properties in patients operated for severe pulmonary regurgitation and association with exercise capacity. *Eur J Cardiovasc Imaging.* 2012; 13: 697-702.
40. Puranik R, Tsang V, Lurz P, Muthurangu V, Offen S, [Frigiola A](#), Norman W, Walker F, Bonhoeffer P, Taylor AM. Long-term importance of right ventricular outflow tract patch function in patients with pulmonary regurgitation. *J Thorac Cardiovasc Surg.* 2012; 143: 1103-7.
41. J Nordmeyer, V Tsang, R Gaudin, P Lurz, [A Frigiola](#), A Jones, S Schievano, C Van Doorn, P Bonhoeffer, AM Taylor. Quantitative assessment of homograft function one year after insertion onto pulmonary position – Impact of in-situ homograft geometry on valve competence. *Eur Heart J.* 2009 Sep; 30: 2147-54.
42. [Frigiola A](#), Nordmeyer J, Bonhoeffer P. Percutaneous pulmonary valve replacement. *Coron Artery Dis.* 2009; 20: 189-91.
43. [Frigiola A](#), Tsang V, Bull C, Coats L, Khambadkone S, Derrick G, Mist B, Walker F, van Doorn C, Bonhoeffer P, Taylor AM. Biventricular response after pulmonary valve replacement for right ventricular outflow tract dysfunction: is age a predictor of outcome? *Circulation.* 2008 Sep 30; 118 (14 Suppl): S182-90.
44. [Frigiola A](#), Tsang V, Nordmeyer J, Lurz P, van Doorn C, Taylor AM, Bonhoeffer P, de Leval M. Current approaches to pulmonary regurgitation. *Eur J Cardiothorac Surg.* 2008 Sep; 34: 576-80.
45. Rosti L, Gastaldi G, [Frigiola A](#). Cinnamon and bacterial enteric infections. *Indian J Pediatr.* 2008 May; 75(5): 529-30.
46. Kostolny M, Tsang V, Nordmeyer J, Van Doorn C, [Frigiola A](#), Khambadkone S, de Leval MR, Bonhoeffer P. Rescue surgery following percutaneous pulmonary valve implantation. *Eur J Cardiothorac Surg.* 2008 Apr; 33: 607-12.
47. Schievano S, Coats L, Migliavacca F, Norman W, [Frigiola A](#), Deanfield J, Bonhoeffer P, Taylor AM. Variations in right ventricular outflow tract morphology following repair of congenital heart disease: implications for percutaneous pulmonary valve implantation. *J Cardiovasc Magn Reson* 2007; 9: 687-95.
48. Ghez O, Tsang VT, [Frigiola A](#), Coats L, Taylor A, Van Doorn C, Bonhoeffer P, De Leval M. Right ventricular outflow tract reconstruction for pulmonary regurgitation after repair of tetralogy of Fallot. Preliminary results. *Eur J Cardiothorac Surg.* 2007; 31: 654-8.
49. [Frigiola A](#), Redington AN, Cullen S, Vogel M. Pulmonary regurgitation is an important determinant of right ventricular contractile dysfunction in patients with surgically repaired tetralogy of Fallot. *Circulation.* 2004; 110(11 Suppl 1): II153-7.
50. Chessa M, Cullen S, Deanfield J, [Frigiola A](#), Negura DG, Butera G, Giamberti A, Bossone E, Carminati M. The care of adult patients with congenital heart defects: a new challenge. *Ital Heart J.* 2004; 5: 178-82.
51. E Barbieri, [A Frigiola](#), P Zardini. Cardiogenic shock due to acute mammary artery by-pass graft occlusion: successful treatment with primary angioplasty in the first hour after myocardial revascularization. *Ital Heart J Suppl* 2002; 3: 239-243.

BOOK CHAPTERS

- **The Oxford Handbook of Paediatric Cardiology** - Oxford Specialist Handbook series in cardiology. Editors: Sadia Quayam, Thomas Day, Aaron Bell and John Simpson. Chapters title: 1) Adolescence, 2) Exercise, 3) Lifestyle, 4) Contraception and pregnancy. Author: [Alessandra Frigiola](#) – July 2024
- **The ESC Textbook of Cardiovascular Imaging 3rd Edition** (in print). Editors: Jose Luis Zamorano, Jeroen Bax, Juhani Knuuti, Udo Sechtem, Patrizio Lancellotti, Bogdan Popescu, and Fausto Pinto. Chapter title: Transcatheter pulmonary valve replacement. Authors: [Alessandra Frigiola](#), Kuberan Pushparajah. In press

- **Multimodality Imaging Innovations In Adult Congenital Heart Disease: Emerging Technologies and Novel Applications.** Editors: Pastora Gallego and Israel Valverde. Title: Aortic disease: aortic coarctation, bicuspid aortic valve, Marfan syndrome. Authors: [Alessandra Frigiola](#), Froso Sophocleous, Giovanni Biglino. Chapter 13, page 275. Springer, ed 2021
- **Pediatric Cardiology, Cardiac Surgery and Intensive Care.** Springer. Editors: Eduardo M. da Cruz, D. Dunbar Ivy, Viktor Hra Ka, James Jagger. Chapter title: Interventions on right ventricular outflow tract. Authors: Gianfranco Butera, [Alessandra Frigiola](#), Philipp Bonhoeffer. New edition in progress (new edition March 2021)

PRESENTATIONS AS INVITED SPEAKER

- **Assessment pathway for anomalous coronary arteries.** Lifelong CHD Network Annual Adult Network Meeting + Joint session with Paediatrics, Wednesday 27 November 2024
- **Congenital Heart Diseases.** CMR course Level I, 12-14 November, 2024, KCL, London
- **Congenital Heart Diseases.** South Thames Cardiology Specialty Registrar Meeting, 18th November 2024
- **Young Physician's Roundtable – Future of Pediatric Cardiology and Future of the Parma Meeting.** Discussant at the Parma International Meeting of Cardiology, from Fetus to Young Adult, 7-8-9 November 2024
- **Diseases of the left ventricle: when to integrate echocardiography with other imaging modalities.** Course in paediatric echocardiography with simulator, Milan, June 18-21th
- **Cardiology issues of ToF patients in adulthood.** CAP webinar, ACHD, 10th June 2024
- **Managing the Ageing ACHD patient with Down Syndrome.** BCS, Manchester 3-5 June 2024
- **Congenital Heart Diseases.** CMR course Level I, 21-23 May 2024, KCL, London
- **CT in congenital heart diseases:** Pan London CT course, GSTT, 19th March 2024
- **Coronary Artery Imaging: You've Got a Friend or Foe in CMR?** SCMR, London 24-27th January 2024
- **ACHD general training day 2:** Course organizer, RSM, December 5th, London UK
- **Congenital Heart Diseases.** CMR course Level I, 21-23 November 2023, KCL, London
- **Congenital Heart Diseases.** CMR course Level I, 16-18 May 2023, KCL, London
- **Post Fontan: what to keep your eye on?** ACHD educational serie, 28th February 2023, GSTT, London
- **Post Fontan: what to keep your eye on?** SCMR 2023, 25-28 January 2023
- **Functional Testing in AAOCA.** World University for Pediatric and Congenital Heart Surgery. 23rd Curriculum Webinar Pediatric and Congenital Coronary Anomalies 2: AAOCA. December 17, 2022
- **CMR in Congenital Heart Diseases.** CMR level 1 course, 15-17th November 2022, Kings College London, UK
- **Anatomy and physiology of the heart and its diseases.** The Sutherland Cranial College
- **of Osteopathy.** The Intelligent Heart Conference, June 11-12, 2022, London, UK
- **How to image Tetralogy of Fallot with CMR;** SCMR 2022 scientific session, on-line meeting, 2-5 February 2022
- **Academic Research Update - Recruitment Base to Network.** GSTT - Evelina London CHD Network Joint Adult and Paediatric Network Meeting, Wednesday 24 November 2021
- **CMR in Congenital Heart Diseases.** CMR level 1 course, 16-18th November 2021, Kings College London, UK
- **Multimodality Imaging in CHD.** 6th international congress of congenital heart disease, Cairo 13-14th October 2021.
- **CMR in assessment of CC-TGA.** Multimodality Imaging of Adult Congenital Heart Disease Webinar 13-14th September 2021, London UK
- **Disease of the left ventricular outflow tract: CMR assessment.** Multimodality Imaging of Adult Congenital Heart Disease Webinar 13-14th September 2021, London UK
- **CMR in Congenital Heart Diseases.** CMR level 1 course, November 2020, Kings College London, UK
- **CMR assessment of LV out-flow diseases.** WEBINAR Multimodality Imaging in ACHD and PH with implementation of ISACHD protocol and EACVI statement paper. RBH, London, 24th September 2020

- **CT in Congenital Heart Diseases.** Pan-London CT course, 28th August 2020
- **Italian Meeting on Adult Congenital heart Disease;** discussant; June 26th, 2020 · San Donato Milanese - Italy
- **Role of Magnetic Resonance Imaging for ASD assessment.** Sicilian Meeting of Pediatric Cardiology; Sicily, Caltanissetta, 30 May 2020
- **CMR in Congenital Heart Diseases.** CMR level 1 course, November 2019, Kings College London, UK
- **CMR in Congenital Heart Diseases.** CMR level 1 course, May 2019, Kings College London, UK
- **Catheter interventions with MRI guidance in CHD.** International Workshop on interventional pediatric cardiology and adult congenital heart cardiology and advanced 3D imaging for intervention. Milan, 27-30th March 2019
- **CMR in Congenital Heart Diseases.** CMR level 1 course, 20-22 November 2018, Kings College London, UK
- **CT & MRI evaluation of RVOT.** CSI, Frankfurt 27-30th June 2018
- **Quantification of pulmonary regurgitation, RVOT morphology and suitability for PPVI.** CSI, Frankfurt 27-30th June 2018
- Current research and sharing imaging protocol. Network meeting, GSTT 20th June 2018
- Exercise prescription in congenital heart disease. Pediatric Cardiology Network Training Day, Evelina Children Hospital, GSTT, 13th June 2018
- **CMR in Congenital Heart Diseases.** CMR level 1 course, 8-10th May 2018, Kings College London, UK
- Tetralogy of Fallot: outcome. Cardiology in the Young, London, March 26-28th 2018
- **MRI and CT in congenital heart disease.** ACHD core curriculum, RSM, 21st February 2018
- Razavi. Oral presentation at Joint EuroCMR-SCMR, Barcelona 31st January-3rd February, 2018
- **CMR in Congenital Heart Diseases.** CMR level 1 course, 21-23rd November 2017, Kings College London, UK
- How to deal with large RVOTs: Multimodality Imaging Assessment. 11th Workshop IPC - International Workshop on Interventional Pediatric and Adult Congenital cardiology, Milan 27-30th September 2017
- When intervene in asymptomatic aortic coarctation with treated hypertension. CSI 2017, Frankfurt June 28th – July 1st
- How to assess pulmonary regurgitation and right ventricular function. CSI 2017, Frankfurt June 28th – July 1st
- **Rings, slings and things.** EuroCMR, Prague 25th-27th May 2017
- **CMR in Congenital Heart Diseases.** CMR level 1 course, 16-18 May 2017, Kings College London, UK
- **Tetralogy of Fallot.** CMR level II course, KCL, 27th March 2017
- Long-term surgical outcome of Ebstein's anomaly. ACHD training day I, 7th March 2017, RSM London
- How to follow the aortic coarctation patient after repair in the clinical practice. Euro-echo, Leipzig 7-10th December 2016
- **CMR in Congenital Heart Diseases.** CMR level 1 course, 22-24 November 2016, Kings College London, UK
- RVOT dysfunction following repair of congenital heart disease: effects of pressure and volume load on ventricular function - Implication for pulmonary valve replacement. XV course of congenital paediatric cardiology and VIII course of adult congenital heart disease, Barcelona 7-8 October 2016
- Indication for pulmonary valve implantation. CSI meeting, Frankfurt June 22-25th 2016
- Presenter of the "Isabelle Jue" magistral lecture: Myocardial fiber architecture by Stephen Saunders, 24th International Parma Echo Meeting, From Fetus to Young Adult, Parma, Italy May 27-28, 2016
- Pulmonary regurgitation: Do we still have doubts as to when to valve these patients? 1st Spanish meeting for Adults Congenital Heart Disease, 21-22 May 2016, Valladolid, Spain
- 10 years of percutaneous implantation of pulmonary prosthesis. Do we still doubt as to whether this is a safe and effective long-term alternative, compared to surgery? 1st Spanish meeting for Adults Congenital Heart Disease, 21-22 May 2016, Valladolid, Spain
- **CMR in Congenital Heart Diseases.** CMR level 1 course, 3-5 May 2016, Kings College London, UK
- ACHD day 1: transposition of the great arteries, CT & CMR assessment. 8th March 2016, RSM, London, UK

- **CMR in Complex Congenital Heart Diseases:** diagnosis and follow up. CMR course, Verona, Italy, January 16th 2016
- **Imaging assessment for percutaneous pulmonary valve replacement.** EST (Emerging Structural Technology) meeting, Birmingham, UK 7-8th January 2016
- **CMR in Congenital Heart Diseases.** CMR level 1 course, KCL, 17-19th November 2015
- Relation Between Exercise Capacity and Skeletal Muscle Metabolism During Exercise in Patients with Repaired Tetralogy of Fallot. Moderated poster, ESC, London, 30th August 2015
- Tetralogy of Fallot/long term follow-up. 13th Introduction to Congenital Heart Disease 6th July to 10th July 2015, London UK
- **Trouble-shooting & Approaches to Imaging in Adult Congenital Heart Disease.** KCL Congenital CMR Course – 30 March – 2 April 2015, London, UK
- **Single Ventricle Circulations: Follow-up in ACHD.** KCL Congenital CMR Course – 30 March – 2 April 2015, London, UK
- When should we replace the pulmonary valve? 10TH IPC Workshop – International workshop on interventional pediatric cardiology and adult congenital heart disease. Milan, 19-21 March 2015.
- **MRI and CT in congenital heart diseases.** General training day 2: ACHD. Invited speaker - Royal Society of Medicine, London, 16th December 2014.
- Pulmonary regurgitation in repaired tetralogy of Fallot. Do we do how to treat it? Invited speaker - XV meeting of the Latin society of pediatric cardiology and cardiac surgery. Barcelona, 17-20th September 2014
- Long-term follow up in tetralogy of Fallot: 12th Introduction to Congenital Heart Disease, Guys & St Thomas's Hospital, NHS Foundation Trust, London 30 June – 4 July 2014.
- Tricuspid valve and right ventricle: How to assess the right ventricle. Invited speaker - 9th International Workshop on Interventional Pediatric and Adult Congenital Cardiology (Milan, March 20-22, 2013) and 4th European Meeting on Adult Congenital Heart Disease, (Milan, March 22-23, 2013)
- Case presentation at the V International Meeting on Adult with Congenital Heart Disease. Invited speaker - IMAC 2012, Milan, Italy.
- Tetralogy of Fallot: Long-term follow-up. Invited speaker - 41st meeting of the Italian society of pediatric cardiology, Bari, October, 2011.
- Indications for pulmonary valve replacement. Invited speaker. 8th International Workshop on Interventional Pediatric Cardiology Milan, March 2011.
- How do we learn from research? Teaching from an observational study on tetralogy of Fallot. Invited speaker - BACCNA meeting, 31st January 2011.
- When to replace the pulmonary valve after repair of tetralogy of Fallot. Invited speaker - British Cardiovascular Society meeting, Manchester, June 7-9 2010.
- Discussant in the session: "Right ventricular put-flow tract dysfunction" at the IV International Meeting on Adult with Congenital Heart Defect (IMACDH), San Donato Milanese, Milan Italy, March 26th, 2010.
- **Role of MRI in the assessment of the right ventricular function.** Invited speaker - VII symposium of surgical echocardiography, Milan 27-29th January 2010.
- Diastolic dysfunction following surgery for congenital heart disease in children. Invited speaker – AHA, cardiovascular seminars, scientific session 2009, Orlando, November 14-17th.
- Timing for percutaneous/surgical pulmonary valve replacement. Invited speaker - 7th Workshop IPC and ISHAC joint, Milan, Italy, March 22-25th 2009.
- Results after surgical replacement of the pulmonary valve: Predictors of out-come. Invited speaker - 40th Annual meeting of the German society of Paediatric Cardiology, 4-7th October 2008, Ulm, Germany.
- Tetralogy of Fallot. Our experience of surgical PVR. Great Ormond Street Hospital, "Paediatric Cardiology Core Curriculum Teaching". 11th January 2008.
- Exercise capacity and biventricular function following percutaneous or surgical pulmonary valve replacement. Invited speaker - 6th Workshop for Pediatric Interventional Cardiology, Milan, 28-31st March 2007.
- Right ventricular function: optimal imaging modalities. Invited speaker - "The Leonardo da Vinci Heart. Heart Failure: Different Therapies for Different Etiologies", Milan, June 2005.
- Common lesions and how to manage them: Coarctation of the aorta. Invited speaker - Congenital Heart Disease in Adults: an insight. The Heart Hospital, March 2004.

- Echocardiographic evaluation of right ventricular function. Invited speaker - Symposium of Surgical Echocardiography, Milan, 2-3rd October 2003.

ABSTRACTS' POSTER/ORAL PRESENTATION AT SCIENTIFIC MEETINGS

- Effect of Fontan circulation on body composition and correlation with exercise capacity – ESC 2024. Pomiato, Razul, Duong, Frigiola
- Does liver stiffness predict adverse events in adult patients with Fontan circulation? Euro ACHD 2024 – accepted as abstract. Pomiato, Tritto, Velascos, Head, Chung, Frigiola
- CMR derived ventriculo-arterial coupling predicts adverse outcome in adult patients with Fontan circulation. SCMR 2024. Pomiato, Pushparajah, Emmanuel, Alam, Frigiola.
- Magnetisation Transfer 3D whole-heart imaging: Free-breathing Contrast-free anatomical assessment in patients with CHD. Single-center validation study. ISMRM 2022, Anastasia Fotaki, AF co-author
- Evaluation of Multi-scale Variational Neural Network for undersampled contrast- free bright- and black-blood imaging in patients with CHD. Society of Cardiac Magnetic Resonance Virtual Scientific Sessions 2021, Anastasia Fotaki, AF co-author
- Gadolinium-free Multi-contrast 3D whole-heart MRI for improved anatomical assessment in patients with Congenital Heart Disease – Oral presentation at ISMRM 2021, Anastasia Fotaki, AF co-author
- A Qualitative Study Exploring Behavioural Change Intervention in Congenital Heart Disease – Lara Tonsular, Alessandra Frigiola study lead – EuroGUCH 2021
- A Multi-scale Variational Neural Network for accelerating simultaneous bright- and black-blood 3D whole-heart MRI in patients with congenital heart disease – ISMRM 2020, Niccolo' Fuin, AF co-author
- Non-contrast enhanced simultaneous bright- and black-blood 3D whole-heart MRI for arterial and venous anatomy assessment in patients with congenital heart disease – ISMRM 2020; Research fellows: Giulia Ginami, AF Co-author
- Multimodality imaging in an athlete with syncope and the central role of cardiac MRI; presenter: Filippo Biosio; AF Co-Author – ISMRM 2020
- Bicuspid Aortic Valve and Dilated Cardiomyopathy: two separate entities or common genetic link? Marika Martini, Leema Roberts, Cathy Head, Natali Chung, Yaso Emmanuel, Harith Alam, Gerry Carr-White, Alessandra Frigiola. Poster at AEPC, 15-18th May, Seville 2019.
- Cardiac MRI evaluation of right and left atrial fibrosis in patients with atrial septal defects. L. O'Neill, S.E. Williams, O. Razeghi, J. Whitaker, I. Sim, R. Mukherjee, S. Niederer, M. Wright, A. Frigiola, M. O'Neill. Oral Poster presentation at EHRA, 17-19th March 2019, Lisbon
- Characterisation of the arrhythmia substrate in patients with atrial septal defects: invasive assessment of right and left atrial voltage. L. O'Neill, I. Sim, J. Whitaker, R. Mukherjee, D. O'hare, S. Niederer, A. Frigiola, E. Rosenthal, M. Jones, M. Wright, M. O'Neill, S.E. Williams. Poster at EHRA, 17-19th March 2019, Lisbon
- Non-contrast enhanced 3D whole-heart simultaneous bright- and black-blood MRI in patients with congenital heart disease. Giulia Ginami, Imran Rashid, Harith Alam, Radhouene Neji, Israel Valverde, Alessandra Frigiola, Rene M Botnar, Claudia Prieto. Oral presentation SCMR February 6 - 9, 2019. Bellevue, WA USA
- Ventricular volume assessment in Adult Congenital Heart Disease using single breath-hold Compressed-Sensing Cardiac Cine MR. Srinivas Narayan-Phuoc Duong, Bram Ruijsink, Radhouene Neji, Christoph Forman, Michaela Schmidt, Carmel Hayes, Yaso Emmanuel, Harith Alam, Alessandra Frigiola, Kuberan Pushparajah, Reza Razavi. Oral presentation at Joint EuroCMR-Poster, Barcelona 31st January-3rd February, 2018
- Selective heart rate inhibition optimizes exercise haemodynamics and energetic efficiency of the single ventricle in patients with Fontan circulation. Bram Ruijsink, Phuoc Duong, Mari Nieves Velasco Forte, Esther Puyol-Anton, Kuberan Pushparajah, Alessandra Frigiola, David Nordsletten, Reza Rezavi
- MRI-Conditional Pacemakers in Patients with Congenital Heart Disease: A Real Gain? G Kwok, S Narayan, B Ruijsink, E Rosenthal, K Pushparajah, Y Emmanuel, A Frigiola. Poster at EuroCMR 25-27th May, Prague 2017

- The unusual suspect of a pulmonary hypertension referral for 'low gradient left to right shunting patent ductus arteriosus. Bram Ruijsink, [Alessandra Frigiola](#). Oral presentation at SCMR 2017, 1-4 February, Washington DC, USA
- Ebstein's anomaly of the tricuspid valve: 13 years of experience in a tertiary centre from fetus to adult. Valentina Benetti, Srinivas Narayan, Sujeev Mathur, John M Simpson, Alessandra Oggianu, Conal Austin, David Anderson, Sitali Mushemi, Rebecca L Savage, Natali Chung, Catherine Head, [Alessandra Frigiola](#). 7th World Congress of Pediatric Cardiology and Cardiac Surgery (WCPCCS), July 16th - 21st 2017
- Transcriptomic and histological analysis of right ventricular myocardium in patients with tetralogy of Fallot repair undergoing pulmonary valve replacement. D Bryson, SJ Holohan, M Arno, SC Bardswell, H Lu, [A Frigiola](#), HA Jensen, PK Tran, C dos Remedios, VT Tsang, J Kentish. Physiology Society meeting 2016
- Patients with mild congenital heart disease lesion are at high risk of IE: a single UK tertiary centre experience. Athanasios Koutsoukis, Bernard Prendergarst, Natali Chung, Yaso Emmanuel, Christoph Kiesewetter, John Chambers, Cathy Head, David Anderson, Conal Austin, [Alessandra Frigiola](#). Oral presentation, AHA, November 7th-11th, Orlando 2015
- Impact of age on outcome of pulmonary valve replacement for pulmonary regurgitation. [A Frigiola](#), V Tsang, J Nordmeyer, P Lurz, K Bull, L Coats, F Walker, C Van Doorn, P Bonhoeffer, AM Taylor. Oral presentation, AHA 2007, 3-7th November Orlando.
- Valve Competence One Year After Percutaneous Pulmonary Valve Implantation Or Surgical Homograft Implantation Assessed By Magnetic Resonance Imaging. Nordmeyer J, [Frigiola A](#), Lurz P, Coats L, Norman W, Franklin O, Bonhoeffer P, Taylor A. Abstract at ACC, New Orleans 2007.
- Current Approaches to Pulmonary Regurgitation. [A Frigiola](#), V T Tsang, J Nordmeyer, L Coats, C van Doorn, AM Taylor, P Bonhoeffer, M de Leval. Oral presentation - EACTS, Geneva, 15-19th September 2007, (Abstract competing for young investigator award, 2nd position).
- Repeat percutaneous pulmonary valve implantation: proof of principle as long-term management strategy for RVOT conduit dysfunction. Nordmeyer J, Lurz P, Coats L, Khambadkone S, [Frigiola A](#), Cullen S, Yates R, Bonhoeffer P. Oral presentation, AEPC 2007.
- From complications to changes in approach – experience with percutaneous pulmonary valve implantation. Nordmeyer J, Lurz P, Bolger A.P, Coats L. [Frigiola A](#), Walker F, Cullen S, Bonhoeffer P. Oral presentation, AEPC 2007.
- Immediate haemodynamic effect and short term clinical follow up following percutaneous pulmonary valve implantation. Philipp Lurz, Johannes Nordmeyer, Louise Coats, Silvia Schievano, [Alessandra Frigiola](#), Seamus Cullen, Fiona Walker, John Deanfield, Andrew M Taylor, Philipp Bonhoeffer. Oral presentation, AEPC 2007.
- Current Approaches to Pulmonary Regurgitation. [A Frigiola](#), V T Tsang, J Nordmeyer, L Coats, TY Lee, F Walker, C van Doorn, AM Taylor, P Bonhoeffer, M de Leval. Interactive poster – meeting of the society for cardiothoracic surgery in Great Britain and Ireland, Manchester, March 11-14th 2007.
- Surgical pulmonary valve replacement and right ventricular outflow tract remodelling: Effect on exercise capacity and biventricular function. [A Frigiola](#), L Coats, S Khambadkone, G Derrick, S Cullen, O Ghez, C van Doorn, P Bonhoeffer, V Tsang, AM Taylor. Abstract, SCMR, Rome, February 2-4th, 2007.
- Variation in Right Ventricular Outflow Tract Morphology following Repair of Congenital Heart Disease. Silvia Schievano, Louise Coats, Wendy Norman, [Alessandra Frigiola](#), John Deanfield, Philipp Bonhoeffer, Andrew M. Taylor. Abstract, SCMR, Rome 2007.
- Long term sequelae after RVOT surgery: How to assess RV function. Invited speaker - 2nd course on Adult Congenital Heart Disease San Donato Milanese, Milan, Italy, June 23rd, 2006.
- Right ventricular outflow tract reconstruction for pulmonary valve regurgitation after tetralogy of Fallot repair. O Ghez, V Tsang, [A Frigiola](#), L Coats, A Taylor, C van Doorn, P Bonhoeffer, M de Leval. Abstract, EACTS 2006.
- Pulmonary incompetence is the major cause of right ventricular dysfunction after repair of tetralogy of Fallot. [A Frigiola](#), S Cullen, JE Deanfield, AN Redington, M Vogel. Poster presentation, AHA Orlando, November 2003.
- Myocardial systolic velocities are insensitive to reductions in preload, due to compensatory increases in myocardial contractility. Comparison of normal subjects and patients with heart failure. [A Frigiola](#), L Pauliks, N Payne, M Vogel, M Frenneaux, AG Fraser. Young Investigator Awards, Euroecho, Nice, December 2001.

- Load Dependence of Diastolic but not Systolic Tissue Doppler Velocities in Patients with Heart Failure. [A Frigiola](#), N Payne, A Broadley, AG Fraser. Moderated poster, ACC Orlando, March 2001.
- Changes of right ventricular function at birth: an echocardiographic study. L Lanzoni, MA Prioli, P. Biban, C Grillo, L Rossetti, [A Frigiola](#), C Cavalli, P Zardini. Prize for best poster, SICP (Società italiana di cardiologia pediatrica) October 2000.
- Is the dilation of the aortic root in the bicuspid aorta a process beginning in the pediatric age? MA Prioli, S Muraglia, L Lanzoni, G Golia, A Frigiola, L Rossetti, F Santini, C Cavalli, P Cardini. Poster, SICP 2001.
- Acute Oleander poisoning: review of a clinic case and therapeutic proposals. G Ricci, [A Frigiola](#), C Poggi, L Bellagamba, PP Rovatti, F Buonocore, P Rocca. Oral presentation at the International Meeting of Toxicology – Germany 1998.

ADDITIONAL MEETINGS/COURSES

- 1 GCP refresher course.** June 2024
- 2 ACHD general training day 2:** Course organizer, RSM, December 5th, London UK
- 3 Parma International meeting: the future of Cardiology: from fetus to adult,** Parma, 21-23 June 2023
- 4 eALS, GSTT,** 25th of May 2023
- 5 GCP refresher course.** KCL, November 2022
- 6 High Performance Leadership Course.** Institute of Health and Social Care Management. 4 modules of 1 hour each (Dec 2021, Jan, Feb, March 2022)
- 7 BCCA 2021,** Nov 1-2, Webinar
- 8 1st Annual ACHD meeting – Mount Sinai Adult Congenital Heart Disease Symposium,** Webinar, 17th September 2021
- 9 Euro-CMR 2021,** May 6-8– Webinar
- 10 Reviewer Training for the National Quality Surveillance Team,** 1st May 2019, London
- 11 International cardiac CT course,** 23-27th February 2016, Hilton London Tower Bridge, London, UK
- 12 Clinical Educational Supervisor Course,** KCL, 2nd February 2016
- 13 ACHD advanced training day (day 1): aortopathies.** RSM, London 10th March 2015 (Course organizer).
- 14 SCMR/EuroCMR,** Nice February 4-7 2015.
- 15 Pulmonary Hypertension (PH): A clinical update.** Guy's & St Thomas' Hospitals NHS Foundation Trust South East Regional Training Day, 15th January 2015.
- 16 Good clinical practice and the medicine for human use (Clinical trials) Regulations.** King's College University - Guy's & St Thomas' NHS Foundation Trust, 7th October 2014.
- 17 Advanced life support.** Royal Brompton Hospital, London, UK, March 17th-18th 2014
- 18 Clinical Leadership in Action.** 13th-15th November 2013. Great Ormond Street Hospital, NHS Foundation Trust, London, UK
- 19 Adult congenital heart disease-day 2: Coarctation of the aorta, bicuspid aortic valve and aortopathies.** 9th September 2013, Royal Society of Medicine, London, UK

- 20 Electrophysiology in adult congenital heart disease:** June 11th 2013; Royal Society of Medicine, London, UK
- 21 British Cardiovascular Society training day:** June 3rd 2013, London ExCel
- 22 Adult congenital heart disease- day 1: Advanced ACHD training day: Ebstein anomaly**
- 23** Monday 11 March 2013. Venue: Royal Society Of Medicine, London, UK
- 24 Basic life support.** 5th October 2011; University College of London Hospitals, London, UK
- 25** Statistic course at UCL, Institute of child health, London, UK: **“Introduction to Time-to-event data/ Survival Analysis”**, April 11th 2011
- 26** Statistic course at UCL, Institute of child health, London, UK: **“Introduction to Logistic regression”**, February 23rd 2011
- 27** Statistic course at UCL, Institute of child health, London, UK: **“Sample size and power calculation”**, February 2009
- 28 Cardiovascular Magnetic Resonance Imaging Course,** UCL Institute of Child Health & Great Ormond Street Hospital for Children, NHS Trust, 16-17th April 2007, London, UK
- 29** Statistic course at UCL, Institute of child health, London, UK: **“Logistic regression workshop”**, 22nd February 2007
- 30 Paediatric Resuscitation Training Course,** 18th April 2006, Great Ormond Street Hospital for Children, London, UK
- 31 Cardiology in the Young Meeting,** 19-22nd April 2006, Great Ormond Street Hospital for Children, London, UK
- 32 Cardiology in the Young Meeting,** 22-25th April 2005, Great Ormond Street Hospital for Children, London, UK