

PERSONAL INFORMATION

Sarah Moharem Elgamal



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APPOINTMENTS

02/06/2020 -present

Adult Congenital Heart Disease and Imaging Consultant

Cardiology Department, Liverpool Heart and Chest Hospital- Thomas Drive, Liverpool L14 3PE
An adult congenital cardiologist with a specialist interest in cross sectional imaging

23/05/2018-08/05/2020

Senior Cardiology Fellow - Adult Congenital Heart Disease

Cardiology Department, Bristol Heart Institute- Terrell St, Bristol BS2 8ED

27/11/2017-27/04/2018

Heart Failure and Inherited Cardiac Conditions Fellow

Cardiology Department, John Radcliffe Hospital, Oxford University Hospital NHS Trust
Headley Way, Headington, Oxford OX3 9DU

29 May 2016 sabbatical leave till 20 July 2023

Cardiology Specialist

National Heart Institute, 5 Ibn Nafise Square, Imbaba, 11111 Giza (Egypt)

27/09/2016– 21/09/2017

Honorary Clinical and Research Cardiology Fellow

Cardiac MRI Unit, Bristol Heart Institute

27/09/2016–21/09/2017

Honorary Senior Research Associate

School of Clinical Sciences, University of Bristol

01/06/2013– 15/09/2016

Cardiac MRI Specialist

Cardiac MRI Unit, Nozha Scan, 9 El Rashid St., Sheraton, Cairo (Egypt)

25/05/2011–28/05/2016

Assistant Specialist of Cardiology

National Heart Institute, 5 Ibn Nafise Square, Imbaba, 11111 Giza (Egypt)

01/08/2009– 01/09/ 2016

Head of the HCM Inherited Cardiomyopathy Clinical and Research Unit- Cairo

Magdi Yacoub Heart Foundation (MYF)/ Aswan Heart Centre
7 Aziz Abaza St., Zamalek, 11211 Cairo (Egypt)

19/02/2008–24/05/2011	Cardiology Resident National Heart Institute, 5 Ibn Nafise Square, Imbaba, 11111 Giza (Egypt)
01/05/2005–31/01/2008	Cardiology Resident Dar El Fouad Hospital, 26th of July Corridor, 12568 Giza (Egypt)
01/03/2004–28/02/2005	House Officer Ain Shams University Hospitals, 5 Lotfy El Said St., Abbasia, 11566 Cairo (Egypt)

QUALIFICATIONS

Oct 2019

Postgraduate Certification of Advanced Studies in Heart Failure
European Society of Cardiology (ESC) and the University Hospital of Zurich (USZ)

Dec 2016

Cardiology Consultant
Egyptian Medical Syndicate
Dar El-Hekma Bldg. 42 Kasr El-Aini St., Garden City, 11562 Cairo (Egypt)

June 2016

Postgraduate: Doctorate Degree in Cardiovascular Medicine
Faculty of Medicine Ain Shams University Kasr-El-Zaafaran, Ramsis St. Abbassia, 11566 Cairo (Egypt)
My thesis title was: Using Magnetic Resonance Imaging for the Assessment of Left Ventricular Mechanical Dyssynchrony In Comparison With Doppler Tissue Imaging. My thesis defence took place 3/5/2014

2008

Cardiology Specialist
Egyptian Medical Syndicate
Dar El-Hekma Bldg. 42 Kasr El-Aini St., Garden City, 11562 Cairo (Egypt)

Nov 2007

Specialisation Exam/ Postgraduate M`aster Degree in Cardiovascular Medicine, M.Sc.
Faculty of Medicine Ain Shams University Kasr-El-Zaafaran, Ramsis St. Abbassia, 11566 Cairo (Egypt)
My thesis title was: Coronary Angiographic Findings and Catheter Based Revascularization in Egyptian Women.

Sept 1997–Dec 2003

Bachelor in Medicine and Surgery
Faculty of Medicine Ain Shams University Kasr-El-Zaafaran, Ramsis St. Abbassia, 11566 Cairo (Egypt)

PROFESSIONALMEMBERSHIP

- European Society of Cardiology (ESC);
- British Society of Cardiology (BCS);
- European Association of Cardiovascular Imaging (EACVI);
- Heart Failure Association of the ESC (HFA);
- Society of Cardiovascular Magnetic Resonance (SCMR);

AWARDS/DISTINCTION/GRANT

09/02/2024	National Healthcare Service Clinical Excellence Award– Local 2023
10/12/2022 -CURRENTLY	Chair of Web and Communication Committee, European Association of Cardiovascular Imaging (EACVI)
2109/2023-CURRENTLY	Deputy Chair of Cardiac CT Certification and Accreditation, EACVI
11/12/2020-CURRENTLY	EACVI Excellence Awards Task Force Member
01/08/2022- CURRENTLY	European Heart Journal Cardiovascular Imaging Social-Media Editorial Team Member
24/02/2022	Plaque as a Token of Appreciation from the Egyptian Society of Cardiology (EgSC) at the National Congress CardioEgypt 2022 hosted by Al-Azhar University
30/08/2021	2 nd place in the ESC Quiz that took place at the ESC 2021 Congress
08/12/2020	EACVI EuroCMR 2021 Abstract Programme Chair
11/12/2020-09/12/2022	Deputy Chair of Web and Communication Committee, EACVI
11/12/2020-09/12/2022	EACVI CMR Lab Accreditation Committee Member
02/09/2020-30/08/2022	European Society of Cardiology (ESC) Membership Committee
08/05/2019	Member of Winning Team of EuroCMR 2019 Quiz, “The Chase”
26/02/2019	Award of Recognition from the Egyptian Society of Cardiology (EgSC) for my Outstanding Performance at the National Congress CardioEgypt 2019 hosted by Cairo University
01/03/2019 – 01/08/2021	Guest Editor for Journal of American College Cardiovascular Case Reports (JACC CR) Journal
05/12/2018-10/12/2020	EACVI Heart Imager of Tomorrow Committee Member
01/04/ 2018- present	Fellow of Society of Cardiac Magnetic Resonance (FSCMR)
31/01/2018	Society of Cardiac Magnetic Resonance (SCMR) International Outreach Champion SCMR named me the International Outreach Champion 2017 as a recognition of my effort to promote the clinical value of CMR in patient care and to advance imaging science by expanding CMR education globally at CMR 2018 Congress- Barcelona, Spain.
26-30/08/2017	European Society of Cardiology Educational Grant
01/03/2017- 01/08/2021	Emerging Editorial Consultant for JACC Cardiovascular Imaging Journal
06/12/2016-10/12/2020	EACVI Cardiac CT Certification Subcommittee Member
27/09/2016-21/09/2017	European Society of Cardiology Training Grant I was awarded the prestigious European Society of Cardiology (ESC) training grant. There were

only 10 grants, in which cardiologists of different subspecialties applied for. They accepted applications from the 56 ESC affiliated countries making it highly competitive and very hard to get accepted. I received 25,000 Euros to sponsor my one-year cardiac MRI Level 3 training at University Hospitals Bristol NHS Trust, United Kingdom.

- 12 -14/05/2016** EuroCMR Travel Grant
- 27/02-02/03/2012** Runner Up of Best Oral Clinical Case Presentation- CardioEgypt 2012-Cairo, Egypt
- 15-17/04/2012** SCMR travel grant recipient of SCMR level 1 course, Dubai, United Arab Emirates

PUBLICATIONS

Barison A, Timoteo AT, Liga R, Borodzicz-Jazdzzyk S, El Messaoudi S, Luong C, Mandoli GE, Moscatelli S, Ramkisoensing AA, **Moharem-Elgamal S**, Pontone G, Neglia D. Cardiovascular imaging research and innovation in 2023. *Eur Heart J Imaging Methods Pract*. 2024 Apr 18;2(1):qyae029.

Minga I, Al-Ani MA, **Moharem-Elgamal S**, Masoomi M, Mangi S. Use of Virtual Reality and 3D Models in Contemporary Practice of Cardiology. *Curr Cardiol Rep*. 2024 Jun;26(6):643-650.

Schuuring MJ, Anwer S, Petersen SE, **Moharem-Elgamal S**, Muraru D. Social media for cardiac imagers: a review. *Eur Heart J Cardiovasc Imaging*. 2024 Apr 23;jeae109

Parwani P, Chen T, Allen B, Kallianos K, Ng MY, Kozor R, Aremu OO, Farooqi KM, Secinaro A, Ricci F, **Moharem-Elgamal S**, Liberato G, Narang A, Ojha V, Ducci CB, Plein S, Ordovas KG. Challenges and opportunities for early career medical professionals in cardiovascular magnetic resonance (CMR) imaging: a white paper from the Society for Cardiovascular Magnetic Resonance. *J Cardiovasc Magn Reson*. 2023 Nov 16;25(1):65.

Raza S, Aggarwal S, Jenkins P, Kharabish A, Anwer S, Cullington D, Jones J, Dua J, Papaioannou V, Ashrafi R, **Moharem-Elgamal S**. Coarctation of the Aorta: Diagnosis and Management. *Diagnostics (Basel)*. 2023 Jun 27;13(13):2189.

Khan J, **Moharem-Elgamal S**, Pugliese F. Image reconstruction, postprocessing, and fundamentals of image analysis. Pages 43–55. Gaemperli, Oliver, and others (eds), *EACVI Handbook of Cardiovascular CT, The European Society of Cardiology Series* (Oxford, 2022; online edn, ESC Publications, 1 Nov. 2022).

Budde R, **Moharem-Elgamal S**, Pugliese F. How to deal with challenging scenarios. Pages 83–88. Gaemperli, Oliver, and others (eds), *EACVI Handbook of Cardiovascular CT, The European Society of Cardiology Series* (Oxford, 2022; online edn, ESC Publications, 1 Nov. 2022).

Moharem-Elgamal S. Pericardial disease. Pages 311-318. Gaemperli, Oliver, and others (eds), *EACVI Handbook of Cardiovascular CT, The European Society of Cardiology Series* (Oxford, 2022; online edn, ESC Publications, 1 Nov. 2022).

Borrelli N, Brida M, Cader A. **Moharem-Elgamal S**, Gimelli A; Pink International Young Academy of Cardiology. Women Leaders in Cardiology. Contemporary profile of the WHO European region. *Eur Heart J Open* 2021.

Moharem-Elgamal S, Yeong M, Veerappan S, et al. Feasibility and Effectiveness of Transcatheter Aortic Valve Implantation in Adults with Congenital Heart Disease. *Int J Cardiol Congenital Heart Disease* (2021), p. 100116

Moharem-Elgamal S. T1 Mapping in Heart Failure: Prognostic Implications. *Bras Cardiol*. 2021 May;116(5):926-927.

Sabatino J, Moscatelli S, Rustamova Y, ... **Moharem-Elgamal S**, Grapsa J, Kemaloglu Öz T. Women's perspective on the COVID-19 pandemic: Walking into a post-peak phase. *Int J Cardiol*.

2021 Jan 15; 323: 29–33.

Baritussio A, Biglino G, **Moharem-Elgamal S**, et al. Are all left bundle branch blocks the same? Myocardial mechanical implications by cardiovascular magnetic resonance. *Int J Cardiol*. 2021 Feb 1;324:221-226.

Lawton CB, **Moharem-Elgamal S**, Dastidar AG, Rodrigues JCL, Biglino G, Bucciarelli-Ducci C. A pilot image interpretation teaching intervention to improve competence and confidence of radiographers to detect left ventricular thrombus in routine cardiac MRI scans. *Radiography* 2021;27(2):527-532

Pezel T, Coisne A, Mahmoud-Elsayed H, Mandoli GE, **Moharem-Elgamal S** et al. EACVI communication paper: first international young dedicated multimodal cardiovascular imaging simulation education event organized by the ESC. *Eur Heart J Cardiovasc Imaging* 2020 Feb 1;21(2):124-126.

Moharem-Elgamal S, Sammut E, Stuart G. Genetic Counseling in Inherited Cardiomyopathies. *JACC CR* 2020 Mar; 2(3): 392–395.

Moharem-Elgamal S, Stuart G & Curtis S. Chapter 64: Pregnancy and implanted devices. *Sex and Cardiac Electrophysiology: Differences in Cardiac Electrical Disorders Between Men and Women*. Pages 717-726. Malik M (Ed). Academic Press, UK. 2020

Moharem-Elgamal S, Cameli M, Muraru D, Brassart V, Esperou-Surrel A, Mahmoud-Elsayed H, Bucciarelli-Ducci C, Popescu BA, Cosyns B, Edvardsen T. HIT communication paper: strategies and tips to increase your chances of winning an EACVI grant. *Eur Heart J Cardiovasc Imaging*. 2019 Jul 1;20(7):735-739.

Ordoñez MV, **Moharem-Elgamal S** & Bedair R. Third time lucky: challenging secundum atrial septal defect. *Cardiol Young*. 2019 Sep;29(9):1202-

Lee M, **Moharem-Elgamal S**, Beckingham R, Hamilton M, Manghat N, Milano EG, Bucciarelli-Ducci C, Caputo M, Biglino G. Evaluating 3D-printed models of coronary anomalies: a survey among clinicians and researchers at a university hospital in the UK. *BMJ Open*. 2019 Mar 8;9(3):e025227.

Pontone G, **Moharem-Elgamal S**, Maurovich-Horvat P, Gaemperli O, Pugliese F; Document reviewers, Westwood M, Stefanidis A, Fox KF, Popescu BA. Training in cardiac computed tomography: EACVI certification process. *Eur Heart J Cardiovasc Imaging*. 2018; 19(2): 123-126.

Biglino G, **Moharem-Elgamal S**, Lee M, Tulloh R, Caputo M. The Perception of a Three-Dimensional-Printed Heart Model from the Perspective of Different Stakeholders: A Complex Case of Truncus Arteriosus. *Front Pediatr*. 2017;5:209.

Moharem-Elgamal S, Loughborough W, Ali N, Lyen S, Erdei T, Hamilton MCK, and Manghat NE. Chapter 2: The Cross-Sectional Imaging of the Mitral Valve: An Application of Ecg-Gated Cardiac Computed Tomography and Cardiac Magnetic Resonance Imaging. Vohra H, Solinas M (Ed). *Minimally invasive mitral valve surgery*. New York: Nova Science Publishers, Inc, 2017.

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Ibrahim E, **Moharem-Elgamal S**, Hoffmann N and Korosoglou G. Chapter 22: Clinical Applications-Part 1. Ibrahim E (Ed). *Heart Mechanics: Magnetic Resonance Imaging*. Taylor & Francis Group. Boca Raton, FL. 2017

Kassem HSh, Algendy S, Azer RS, **Moharem-Elgamal S** et al. Angiotensin-converting enzyme insertion/deletion polymorphism in hypertrophic cardiomyopathy: An Egyptian case control study. *Egyptian Heart Journal* 2014; 66(1):1–2.

Gajendrarao P, Krishnamoorthy N, Kassem HSh, **Moharem-Elgamal S**, Cecchi F, Olivotto I,

Yacoub MH. Molecular Modeling of Disease Causing Mutations in Domain C1 of cMyBP-C. PLoS One. 2013;8(3):e59206.

Kassem HSh, Azer RS, Ayad MS, **Moharem-Elgamal S**, Magdy G, Elguindy A, Cecchi F, Olivotto I, Yacoub MH. Early results of sarcomeric gene screening from the Egyptian National BA-HCM Program. J Cardiovasc Transl Res. 2013 Feb;6(1):65-80.

INTERNATIONAL CONGRESSES/ COURSES				
Title of presentation	Type of Presentation	Conference/ Meeting	Venue	Date
CHD Jeopardy	Invited Speaker	CMR 2024	London, UK	25-27 Jan 2024
2 Case sessions for level 2/3 logbooks Session - Cardiac Magnetic Resonance	Invited Speaker	EACVI Congress	Barcelona, Spain	10-12 May 2023
How to interpret CMR in congenital heart disease	Invited Speaker	EACVI Congress	Barcelona, Spain	10-12 May 2023
The role of computed tomography in TAVI in ACHD patients	Invited Speaker	EACVI Congress	Barcelona, Spain	10-12 May 2023
ACHD scenarios for the non-congenital cardiac imagers	Invited Speaker	EACVI Congress	Barcelona, Spain	May 2023
Cardiac CT Assessment of Adult Congenital Heart Disease	Invited Speaker	EACVI Course on Cardiac Computed Tomography	Nice, France	30 March-1 April 2023
Cardiac CT Assessment of Adult Congenital Heart Disease	Invited Speaker	EACVI Course on Cardiac Computed Tomography	Nice, France	26-28 April 2022
Is there a role for CT in ACHD	Invited Speaker	EuroECHO 2021	Virtual	9-11 Dec 2021
Tips from senior female colleague to an early career	Invited Speaker	EuroECHO 2021	Virtual	9-11 Dec 2021
When is Cardiac MRI Needed in HF	Invited Speaker	International Young Academy of Cardiology (IYAC) 2021 E-Congress	Virtual	17-21 Sept 2021
CMR Quiz: Test Your Knowledge	Host and Speaker	EuroCMR 2021	Virtual	6-8 May 2021
Utility of CMR in the Assessment of Aortic Stenosis	Invited Speaker	PASCAR African Imaging Webinar	Virtual	11 Feb 2021
Role of CMR in Heart failure	Invited Speaker	International Young Academy of Cardiology (IYAC) 2020 E-Congress	Virtual	16-20 Sept 2020
CMR Simulator Workshop	Invited Speaker	ESC Congress 2019	Paris, France	31 Aug - 4 Sept 2019
CT in Congenital Heart Disease	Invited Speaker	EuroEcho Imaging	Milan, Italy	5-8 Dec 2018
Frequent Coronary CT misinterpretations and how to avoid it	Invited Speaker	EuroEcho Imaging	Lisbon, Portugal	6-9 Dec 2017

DYNAMIC LEFT VENTRICULAR OUTFLOW TRACT OBSTRUCTION WITH DOBUTAMINE STRESS CMR.	Oral poster presenter	EuroCMR	Prague, Czech	25-27 May 2017
“What do you need to set up a cardiac CT program: hardware and software”	Invited Speaker	ICNC	Vienna, Austria	7-9 May 2017
Assessment of ventricular electromechanical dyssynchrony in CRT candidates	Poster presenter	EuroEcho Imaging	Leipzig, DE	7-10 Dec 2016
Exertional Angina Due To An Unusual Coronary Anomaly	Poster	SCCT Meeting	Winter Istanbul, Turkey	15-17 Jan 2016
Further Characterization of Phenotypic Features of Mutations in Codon 92 of the Cardiac Troponin T Gene as a "Hot Spot" for Familial Hypertrophic & Dilated Cardiomyopathy in Egypt	Poster	II “Florence International Symposium on Advances in Cardiomyopathies, 9th Meeting of the Myocardial and Pericardial diseases Working Group of the ESC	Florence, Italy	26-28 Sept 2012
NATIONAL CONGRESSES				
Title of presentation	Role/Type of Presentation	Conference/ Meeting	Venue	Date
CMR in tetralogy of Fallot	Invited Speaker	Moroccan Society of Cardiology	Fes, Morocco	12-14 Oct 2023
CT in planning percutaneous procedures for ACHD patients	Invited Speaker	BSCCT	Liverpool, UK	21-22 Sept 2023
Sarcoidosis	Invited Speaker	Turkish Society of Cardiology	Virtual Webinar	30 March 2022
The role of CT in CHD	Invited Speaker	Athens Medical Group Cardiovascular Imaging Congress	Athens, Greece	18-19 March 2022
CMR guided VT ablation	Invited Speaker	CardioEgypt	Cairo, Egypt	21-24 Feb 2022
Use of CMR and CT in Assessing Adult Congenital Heart Disease	Invited Speaker	CardioEgypt	Cairo, Egypt	21-24 Feb 2022
Is CMR Better for the Aorta	Invited Speaker	CardioEgypt	Cairo, Egypt/ Virtual	15-18 Feb 2021
Role of CMR in Heart failure	Invited Speaker	North Macedonian Society of Cardiology	Virtual	3-4 Oct 2020
CMR: LVH a face of many conditions	Invited Speaker	1 st Balkan CMR meeting	Belgrade, Serbia	6-7 March 2019
CMR: LVH a face of many conditions	Invited Speaker	CardioEgypt	Cairo, Egypt	24-28 Feb 2019
How to Get an ESC Grant	Invited Speaker	CardioEgypt	Cairo, Egypt	24-28 Feb 2019
CT in Congenital Heart	Invited	CardioEgypt	Cairo, Egypt	24-28

Disease	Speaker			Feb 2019
Fontan and Aortic Stenosis	Oral	Royal Society of Medicine	London, UK	12 Sept 2018
MSCT Beyond Coronaries	Invited Speaker	CardioEgypt	Cairo, Egypt	20-23 Feb 2017
CMR in RV evaluation, does it have a competitor?	Invited Speaker	CardioEgypt	Cairo, Egypt	20-23 Feb 2017
Role of CMR in Post Fallot Repair	Invited Speaker	CardioEgypt	Cairo, Egypt	22-25 Feb 2016
CT perfusion, what's going on?	Invited Speaker	CardioEgypt	Cairo, Egypt	22-25 Feb 2016
Current practice of CMR in Congenital Heart Disease	Invited Speaker	CardioEgypt	Cairo, Egypt	23-26 Feb 2015
The many faces of HCM: From prehypertrophic to end-stage	Invited Speaker	CardioEgypt	Cairo, Egypt	23-26 Feb 2015
Multimodality Imaging Case Presentation	Invited Speaker	CardioEgypt	Cairo, Egypt	23-26 Feb 2015
The Feasibility of Myocardial Velocities to Assess Intraventricular Dyssynchrony: CMR Versus Tissue Doppler	Invited Speaker	CardioEgypt	Cairo, Egypt	24-27 Feb 2014
HOCM program, The Egyptian Experience	Invited Speaker	CardioEgypt	Cairo, Egypt	24-27 Feb 2014
CT in planning TAVR: NHI experience	Invited Speaker	CardioEgypt	Cairo, Egypt	24-27 Feb 2014
Imaging Workshop: CMR; what do you need to know?	Invited Speaker	CardioEgypt	Cairo, Egypt	24-27 Feb 2014
REGIONAL CONGRESSES/MEETINGS				
Title of presentation	Type of Presentation	Conference/ Meeting	Venue	Date
Role of Cross-Sectional Imaging in ACHD	Invited Speaker	Regional SpR Training Day	Virtual	Jan 2022
Emergency presentations in ACHD	Invited Speaker	Northwest ACHD Study Morning 2021	Virtual	July 2021
Anomalous venous connections	Invited Speaker	CardioAlex 2014	Alexandria, Egypt	10-13 June 2014
Role of Cardiac MRI in assessment of RV function	Invited Speaker	CardioAlex 2013	Alexandria, Egypt	11-14 June 2013
MSCT and Extra-cardiac venous anomalies	Invited Speaker	CardioAlex 2013	Alexandria, Egypt	11-14 June 2013
Anomalous Coronary Arteries by MSCT	Oral	CardioAlex 2012	Alexandria, Egypt	5-8 June 2012
Case Presentation	Oral	CardioEgypt 2012	Cairo, Egypt	27 Feb – 2 March 2012
Functional Imaging in Hypertrophic Cardiomyopathy	Oral	CardioAlex 2010	Alexandria, Egypt	8-11 June 2010
LOCAL CONGRESSES/MEETINGS				
Title of presentation	Type of Presentation	Conference/ Meeting	Venue	Date

CT in ACHD Workshop	Chair of Meeting and Speaker	CT in ACHD Workshop NWCVI	Liverpool, UK	12-13 Feb 2023
Emergency presentations in ACHD	Invited Speaker	Royal Liverpool University Hospital NHS Trust A n E and Acute Medicine Department's	Liverpool, UK	25 Jan 2022
Transposition of the great Arteries	Invited Speaker	CPD Adult Congenital Heart Disease: Care of the patient through their lifespan, Liverpool John Moores University	Liverpool, UK	14-18 Nov 2021
Tetralogy of Fallot	Invited Speaker	CPD Adult Congenital Heart Disease: Care of the patient through their lifespan, Liverpool John Moores University	Liverpool, UK	14-18 Nov 2021
ASD/VSD	Invited Speaker	CPD Adult Congenital Heart Disease: Care of the patient through their lifespan, Liverpool John Moores University	Liverpool, UK	14-18 Nov 2021
MRI in CHD	Invited Speaker	Bristol MRI Course	Bristol, UK	20-24 Jan 2020
Cardiac MRI Flow	Invited Speaker	Bristol Cardiac MRI Radiographer Course	Bristol, UK	28-29 Oct 2019
Congenital Heart Disease	Director and Speaker	Cardiac Imaging in Practice: CMR Workshop	Cairo, Egypt	16-21 October 2017
Non-ischaemic Cardiomyopathy	Director and Speaker	Cardiac Imaging in Practice: CMR Workshop	Cairo, Egypt	16-21 October 2017
Assessment of LV and RV	Director and Speaker	Cardiac Imaging in Practice: CMR Workshop	Cairo, Egypt	16-21 October 2017
CMR protocols: planning and scanning	Director and Speaker	Cardiac Imaging in Practice: CMR Workshop	Cairo, Egypt	16-21 October 2017
CMR Safety and Contraindications	Director and Speaker	Cardiac Imaging in Practice: CMR Workshop	Cairo, Egypt	16-21 October 2017
Pitfalls and How to Avoid Them	Director and Speaker	Cardiac Imaging in Practice: CT	Cairo, Egypt	16-21 October

			Workshop		2017
Congenital Heart Disease	Director and Speaker	and	Cardiac Imaging in Practice: CT Workshop	Cairo, Egypt	16-21 October 2017
Vascular	Director and Speaker	and	Cardiac Imaging in Practice: CT Workshop	Cairo, Egypt	16-21 October 2017
Interactive cases	Director and Speaker	and	Cardiac Imaging in Practice: CT Workshop	Cairo, Egypt	16-21 October 2017
Normal and Anomalous	Director and Speaker	and	Cardiac Imaging in Practice: CT Workshop	Cairo, Egypt	16-21 October 2017
Data Acquisition	Director and Speaker	and	Cardiac Imaging in Practice: CT Workshop	Cairo, Egypt	16-21 October 2017
Extracardiac Findings	Invited Speaker		Bristol Cardiac MRI Level 1 Course	Bristol, UK	24-25 April 2017
Cardiac MRI Flow	Invited Speaker		Bristol Cardiac MRI Level 1 Course	Bristol, UK	24-25 April 2017
CMR stress perfusion	Invited Speaker		CT and MRI in Clinical Cardiology, NHI	Giza, Egypt	21-22 Oct 2016
CMR in Heart Failure: Can it change the Diagnosis?	Invited Speaker		CT and MRI in Clinical Cardiology, NHI	Giza, Egypt	21 -22 Oct 2016
Everyday Use of Coronary CTA	Invited Speaker		CT and MRI in Clinical Cardiology, NHI	Giza, Egypt	21 -22 Oct 2016
CMR in Cardiomyopathies	Invited Speaker		DAFHeart	Cairo, Egypt	4-5 May 2016
Coronary MSCT, case based	Invited Speaker		Combat MI	Cairo, Egypt	30-31 March 2016
Coronary MSCT, case presentation	Invited Speaker		Combat MI	Cairo, Egypt	25-26 March 2015
Coronary multi-slice CT Role in ER	Invited Speaker		Combat MI	Cairo, Egypt	27-28 March 2013
The nascent BAHCM Egyptian National Program	Oral		Aswan Heart Center Science & Practice Series	Cairo, Egypt	3-6 Jan 2011
Role of MSCT coronary angiography in planning CTO intervention	Oral		Egyptian CTO club 2010	Cairo, Egypt	Jan 2010