

DR HISHAM AHAMED

Well respected consultant cardiologist with 7 years' experience in treating patients for a wide variety of cardiovascular conditions. Fellowship trained in interventional cardiology (2013) and has performed a wide array of interventional procedures. Areas of special interest include hypertrophic cardiomyopathy and is currently the Project Lead for the Amrita Hypertrophic Cardiomyopathy Clinic and Registry which is the first and largest dedicated center of excellence for HCM in India.

Cardiovascular genomics is a key area of research and is the Clinical Lead for Amrita cardiovascular genomics. Co-guide for the Amrita Cardio-Oncology Clinic and established the very first cardio-oncology service in the region. Clinical focus on advanced heart failure management and heart failure epidemiology along with genetics of heart failure. Additional focus areas include advanced cardiovascular imaging including advanced echocardiography and cardiac MRI protocols.

EDUCATION

DM Cardiology

Amrita Institute of Medical Sciences and Research, Kochi August 2012
Dissertation : *“Incidence of Sudden Cardiac Death in A Post MI Cohort in a tertiary care hospital”*

MD Internal Medicine

Sri Ramachandra University and Hospital, Chennai May 2008
Thesis: *“Prevalence of Secondary Bacterial Infection in Newly Diagnosed Pulmonary Tuberculosis”*

MBBS J.S.S Medical College, Mysore. April 2003

Fellowship in Interventional Cardiology August 2013
Amrita Institute of Medical Sciences and Research

HONORS AND AWARDS

Title of Award

Awarded Gold Medal for "Best aggregate score in Pathology" during the MBBS IInd year University Examination 1999 (Rajiv Gandhi University of Health Sciences, Bangalore).

Title of Award

Awarded the Gold Medal for "The Best Outgoing Candidate - Academic Performance" in the MD university examination in 2008 (Internal Medicine – Sri Ramachandra University and Hospital , Chennai).

Title of Award

Awarded the best-case presentation for " A case of reactive thrombocytosis " during monthly hospital multi-speciality meet (2005) at Department of Internal Medicine, Sri Ramachandra University and Hospital.

Title of Award

Awarded the Gold Medal for "The best academic performance in DM Cardiology" during the university examinations conducted in 2012 (Amrita Institute of Medical Sciences and Research).

ACHIEVEMENTS

Amrita Hypertrophic Cardiomyopathy Registry and Clinic

Project Lead, Amrita Hypertrophic Cardiomyopathy Registry and Clinic

Founded the Amrita Hypertrophic Cardiomyopathy Registry and Clinic in 2013. This was the first comprehensive center of excellence for HCM care in India. This was established with mentorship under Dr Barry.J.Maron and Dr Martin.S. Maron from Tuft's HCM Center, Boston.

(References : Importance and feasibility of creating hypertrophic cardiomyopathy centers in developing countries: the experience in India. Maron BJ. Am J Cardiol. 2015 Jul 15;116(2):332-4. doi: 10.1016/j.amjcard.2015.04.027. Epub 2015 Apr 18.)

Hypertrophic Cardiomyopathy Summit VI, Boston, USA

Speaker : " HCM in the Developing World "

Was an invited speaker : International Summit VI: Hypertrophic cardiomyopathy – A Contemporary and Treatable Genetic Disease: Diagnosis, Heart Failure Management, and Prevention of Sudden Death, held in Boston, MA, October 27-29, 2017, at the Seaport Hotel & World Trade Center. Spoke on "HCM in the developing world"and was the only invited speaker from the South Asian region.

Chapter Author : "Hypertrophic Cardiomyopathy" in Tandon's Textbook of Cardiology (2018)

Chapter Author : "Hypertrophic Cardiomyopathy" in Tandon's Textbook of Cardiology (2018)

Co-authors : Dr Barry.J.Maroon and Dr Martin.S.Maroon

National Cardio-Oncology Summit, 2017

1. Co-Founded India's first National Cardio- Oncology Society in 2017 (Secretary of the NCOS)
2. Co-Founded India's first National Cardio-Oncology Summit in 2017 (Ramada Hotel, 2017) under the auspices of Canadian Cardio Oncology Society and International Cardio-Oncology Society
3. Co-Director of the very first dedicated Cardio-Oncology service at Amrita Institute of Medical Sciences and Research, Kochi
4. Organizing Secretary of India's first National Cardio-Oncology Summit at Ramada Hotel and Resorts, 2017 under the auspices of Canadian Cardio Oncology Society and International Cardio-Oncology Society

ICCG : Brisbane, Australia 2018

International Clinical Cardiovascular Genetics , Brisbane (2018)

Presented **3 cardiovascular genomics** papers at the ICCG, 2018 held at Brisbane :

1. Clinical outcome and phenotypic expression of PRKAG2 Cardiomyopathy
2. Familial Non- Syndromic Thoracic Aortic Dissection and Thoracic Aneurysm with an MYH 11 mutation
3. Clinical Profile of a Large Family with Familial HCM and Sudden Cardiac Death with an Alpha- Tropomyosin mutation

Annual Kerala State Echocardiography Meet , 2017

Organizing secretary of the Kerala Chapter of the Annual Indian Academy of Echocardiography Meet in 2017 (Ramada Hotel, Kochi)

Annual Indian Academy of Echocardiography (2016) at Madurai

Best Case presentation - Award session

Won the award for best case presentation at Annual Indian Academy of Echocardiography meeting at Madurai (2016) for "Carcinoid Heart Disease : Flushing out the diagnosis"

Case Presentation : Awards Session (CSI HFCON 2019)

PRKAG2 Cardiomyopathy : A South Asian Cohort

Presented the paper : PRKAG2 Cardiomyopathy : A South Asian Cohort at National CSI HFCON, 2019 during the Awards Session.

Amrita Cardiovascular Genomics Service, 2015

Founded the Amrita Cardiovascular Genomics Service, the first dedicated cardiovascular genomics service in the region. The service addresses all aspects of evaluation of inherited cardiovascular disease of patients and family screening along with advanced next generation sequencing and genetic counseling.

SKILLS

1. INTERVENTIONAL CARDIOLOGY

- a. Coronary angiograms
- b. Coronary angioplasty
- c. Rotablation
- d. TAVR team member
- e. EVAR team member
- f. Advanced Coronary Imaging and Physiology Assessment (IVUS, OCT, FFR)
- g. Permanent Pacemaker Implants, AICD Implants, CRT Implants
- h. Endomyocardial biopsies

2. HYPERTROPHIC CARDIOMYOPATHY AND HCM PHENOCOPIES

- a. HCM Genetics
- b. HCM Diagnosis, risk stratification and management
- c. HCM – Advanced cardiac imaging and risk stratification

3. INHERITED CARDIOVASCULAR DISEASE

- a. Next generation sequencing and genetic counseling
- b. Next generation sequencing and interpretation

- c. Genetic counseling for families
 - d. Evaluation of sudden cardiac death in the young
4. DATABASE BUILDING AND STATISTICAL ANALYSIS
 5. ADVANCED CARDIAC IMAGING : Echocardiography and Cardiac MRI
 6. CLINICAL MANAGEMENT AND EPIDEMIOLOGY OF HEART FAILURE

PUBLICATIONS

Books

**Chapter Author : " Hypertrophic Cardiomyopathy " in Tandon's
Textbook of Cardiology (2018)**

Wolters Kluwer India Pvt. Ltd

Journal Publications

Left Atrial Approach to Septal Myectomy: Word of Caution.
Varma PK, Ahamed H. *Ann Thorac Surg.* 2018 Nov;106(5):1591-1592. doi: 10.1016/j.athoracsur.2018.05.006. Epub 2018 Jun 5
Annals of Thoracic Surgery

Posterior mitral leaflet plication for hypertrophic obstructive cardiomyopathy. Varma PK, Krishna N, Ahamed H, Madassery S. *Asian Cardiovasc Thorac Ann.* 2018 Jun;26(5):400-403. doi: 10.1177/0218492318773590. Epub 2018 Apr 18.
Asian Cardiovascular Thoracic Annals

Letter by Ahamed and Subramanian Regarding Article "Missense Mutations in the FLNC Gene Causing Familial Restrictive Cardiomyopathy". Ahamed H, Subramanian M. *Circ Genom Precis Med.* 2019 Jul;12(7):e002587. doi: 10.1161/CIRCGEN.119.002587. Epub 2019 Jul 15
Circulation : Genomics and Precision Medicine

Subramanian, M & Ahamed, Hisham & Mathew, N. (2017).
Familial restrictive cardiomyopathy: A novel troponin mutation.
Indian Heart Journal. 69. S87-S88. 10.1016/j.ihj.2017.09.107.
Indian Heart Journal

Subramanian, M & Ahamed, Hisham & Mathew, N. (2017). The prognostic value of right ventricular dysfunction in stress cardiomyopathy. Indian Heart Journal. 69. S80.
10.1016/j.ihj.2017.09.087
Indian Heart Journal

Srinivasalu, Vijay & Subramaniam, M & Shanmugam, Arul & Philip, A & Susan, A & Prabhu, R & Unni, M & Sidharthan, Neeraj & Jose, Wesley & Nv, Smitha & Ahamed, Hisham & Mathew, N & Pavithran, Keechilat. 1025P Independent predictors of one year mortality
Annals of Oncology

Subramanian, M & Peravali, S & Ahamed, HISHAM & Mathew, NAVIN. (2019). P112 Arrhythmogenic right ventricular cardiomyopathy and sick sinus syndrome : a potential overlap syndrome. European Heart Journal - Cardiovascular Imaging. 20. 10.1093/ehjci/jez110.01
European Heart Journal : Cardiovascular Imaging

Conference Papers

ICCG : Brisbane, Australia 2018
International Clinical Cardiovascular Genetics , Brisbane (2018)

Presented 3 cardiovascular genomics papers at the ICCG, 2018 held at Brisbane :

1. Clinical outcome and phenotypic expression of PRKAG2 Cardiomyopathy
2. Familial Non- Syndromic Thoracic Aortic Dissection and Thoracic Aneurysm with an MYH 11 mutation
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Presentation : “Assessment of Mitral Regurgitation by Echo” at CSI Kerala Meeting, 2014 (Kozhikode) (Invited Lecture)

Presentation : “Flushing out the diagnosis” at CSI National CPC session, 2013 (Bangalore)

Presentation : “Carcinoid heart disease” at Indian Academy of Echocardiography, 2016 (Madurai)

Presentation : “FFR guided intervention for side branch in bifurcation lesions” at CSI Kerala,2015 (Kochi)(Invited Lecture)

Presentation : “Ivabradine : Early is better in heart failure” at Society for Heart Failure and Transplantation, 2018 (Coimbatore)(Invited Lecture)

Presentation : “Genetic testing in HCM : Practical Considerations” at Cardiovascular Genomics Update, 2018 (Chennai) (Invited Lecture)

Presentation : “A Right atrial surprise” at Indian Academy of Echocardiography, Kerala Chapter,2015 (Kozhikode)

Presentation : “Echo in the Emergency Room” at Annual Emergency Medicine update, AIMS, 2016 (Kochi)(Invited Lecture)

Presentation : “Cost-effectiveness analysis of heart failure therapies” at Society for Heart Failure and Transplantation, 2016 (Kozhikode)(Invited Lecture)

Presentation : “Inotropes : Clinical indications and limitations” at AIMS Heart Failure Update for Clinicians, 2018 (Kochi)(Invited Lecture)

Presentation : “Chemotherapy induced cardiotoxicity” at CSI HFCON, Kochi (2019)(Invited Lecture)

Presentation : “Introduction to Cardio-Oncology : A New Sub-specialty” at National Cardio-Oncology Society, Kochi (2017)

Presentation : “Unmet needs of current heart failure management” at Heart Failure Symposium, Marriott Kochi (2017)(Invited Lecture)

Presentation : “ARNI – A new era in medical management of heart failure” at Indian Medical Association CME Update, Aluva (2017)(Invited Lecture)

Presentation : “ARNI – newer paradigms in cardiovascular and renal outcomes” at Indian Medical Association CME Update, Tirur (2018) (Invited Lecture)

Presentation : “10 essential lessons from heart failure guidelines” at Heart Failure Symposium at AIMS, Kochi (2018)

Presentation : “The concept of ARNI in heart failure management” at Heart Failure Symposium at Karothukuzhi Hospital, Kochi (2018)(Invited Lecture)

Presentation : “SGLT2 inhibitors and cardiovascular outcomes” at Diabetes Update, Palghat (2018)(Invited Lecture)

Presentation : “SGLT2 inhibitors : Role in diabetes and heart failure” at Holiday Inn Diabetes Care Symposia, Kochi (2017)(Invited Lecture)

Presentation : “Role of SGLT2 inhibitors in modulating cardiovascular outcomes in diabetes mellitus” at Diabetes Today Symposium, Trivandrum (2019)(Invited Lecture)

Presentation : “Updates in diabetes management – Role of SGLT2 inhibitors in modulating cardiovascular risk” at Diabetes and Heart Failure Update, Gokulam Hotel, Kochi (2017)(Invited Lecture)

Presentation : “Advances in Diabetes Management : Cardiovascular outcome data” at Diabetes and Cardiovascular disease CME Update, Holiday Inn Kochi (2018)(Invited Lecture)

Presentation : “Advances in antiplatelets : Focus on ACS management” Webinar at Holiday Inn, Kochi (2016)(Invited Lecture)

Presentation : “Ticagrelor : Newer antiplatelet inhibition in ACS” at Physician Club Symposium Update, Thodupuzha (2016)(Invited Lecture)

Presentation : “ Ticagrelor : Role in ACS and stable ischemic heart disease” : CAD Symposium at Karothukuzhi Hospital, Aluva (2018)

Presentation : “Evolving trends in standard of care in ACS management” at Indian Medical Association CME Update, Cherthala (2019)(Invited Lecture)

Presentation : “Pharmacoinvasive strategy for STEMI” at STEMI symposium, at Marriott Hotel, Kochi (2017)(Invited Lecture)

Presentation : “Standards of ambulance care in STEMI and STEMI Network models” at STEMI Update at Marriott Hotel, Kochi (2017)(Invited Lecture)

Presentation : “Newer P2Y12 inhibitors in clinical practice” at Indian Medical Association CME Update, Angamaly (2017)(Invited Lecture)

Presentation : “Updates in ACS management” at ACS Symposium at AIMS, Kochi (2018)(Invited Lecture)

Presentation : “Human beings – Prisoners of lifestyle diseases” at InQ, Kochi (2018)(Invited Lecture)

Presentation : “10 lessons in lipid management” at Cochin Lives CME Update, Kochi (2018)(Invited Lecture)

Presentation : “Managing hypertension and heart failure in COPD patients” at Indian Medical Association CME Update, Thodupuzha (2019)(Invited Lecture)

Presentation : “HCM – A contemporary treatable disease” at Indian Medical Association CME Update, Kottayam (2017)(Invited Lecture)

Presentation : “HCM – A contemporary treatable disease” at Indian Medical Association CME Update, Thodupuzha (2017)(Invited Lecture)

Presentation : “HCM – A contemporary treatable disease” at Indian Medical Association CME Update, Kollam (2018)(Invited Lecture)

Presentation : “HCM – A contemporary treatable disease” at Indian Medical Association CME Update, Kodungalur (2018)(Invited Lecture)

Presentation : “HCM – A contemporary treatable disease” at Indian Medical Association CME Update, Thiruvalla (2018)(Invited Lecture)

Presentation : “HCM – Evolving trends and contemporary management” at Amrita HCM Conclave, Kochi (2018)(Invited Lecture)

Presentation : “Highlights of preventive aspects of non-communicable diseases” at Amrita Community Medicine CME Update, Kochi (2018)(Invited Lecture)

Presentation : “Nitrates – Evolving usage and current clinical indications” at Cardiology Monthly CME Webinar at Karothukuzhi Hospital, Kochi (2019)

Presentation : “DPP-4 inhibitors : Current indications and cardiovascular outcome data” at Diabetes Care Symposium, Holiday Inn Kochi (2018)(Invited Lecture)

Presentation : “Aortic valve anatomy in the TAVR Era” at AIMS TAVR Symposium at Crowne Plaza, Kochi (2017)

Presentation : “Indications and utility of vitamin K antagonist oral anticoagulation in the era of NOAC” at Anticoagulation Symposium at Karothukuzhi Hospital, Kochi (2016)

Presentation : “Sudden Cardiac Death in the Young” at Indian Medical Association CME Update, Madhya Kerala IMA, Kochi (2017)

PROFESSIONAL TRAINING

ACLS certified

ACLS instructor course – Certified ACLS instructor

PROFESSIONAL AFFILIATIONS

Cardiology Society of India (CSI)

Interventional Council Kerala (ICCK)

International Cardio-oncology Society (ICOS)

Society for Coronary Angiography and Interventions (SCAI)

European Society of Cardiology (ESC)

PROFESSIONAL SERVICE

National Cardio-Oncology Summit, 2017

1. Co-Founded India's first National Cardio- Oncology Society in 2017 (Secretary of the NCOS)
2. Co-Founded India's first National Cardio-Oncology Summit in 2017 (Ramada Hotel, 2017) under the auspices of Canadian Cardio Oncology Society and International Cardio-Oncology Society
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Annual Kerala State Echocardiography Meet , 2017

Organizing secretary of the Kerala Chapter of the Annual Indian Academy of Echocardiography Meet in 2017 (Ramada Hotel, Kochi)

LANGUAGES

English: Advanced Proficiency

Malayalam : Intermediate Proficiency

Hindi : Intermediate Proficiency

Tamil : Intermediate Proficiency