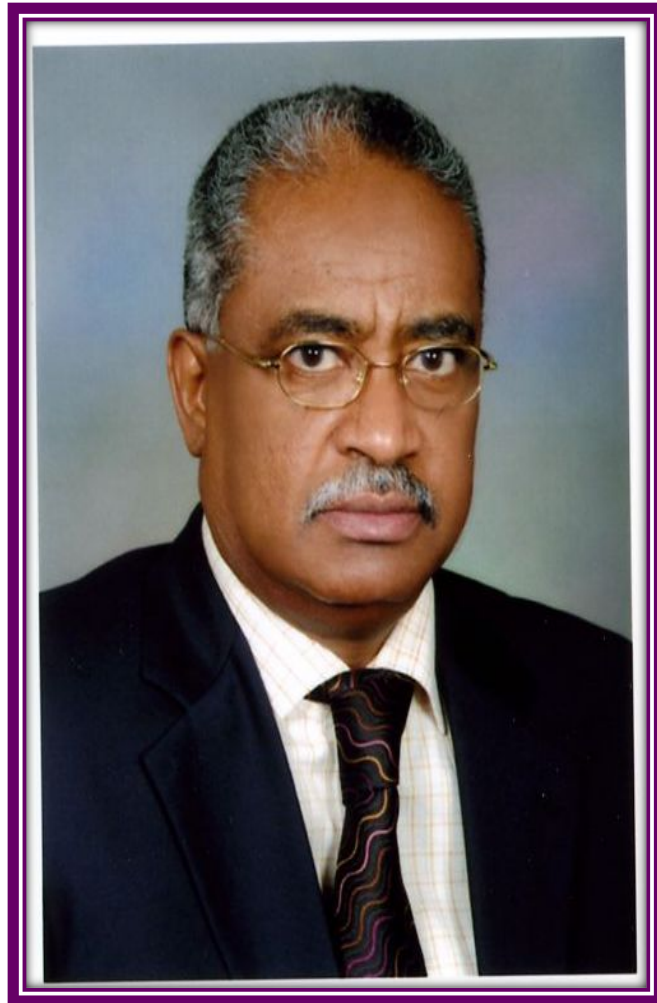


# Curriculum Vitae



**Elsadig Elagib Kazzam**

**M.B.CH.B., M.D., Ph.D., SCIM., SCC., FRCP. (London), FESC., FACC., FAHA.**

**Professor, Med. Dr., Senior Consultant  
in Clinical Cardiology**

## Curriculum Vitae

### Personal Data:

**Name** : Elsadig Elagib Kazzam  
**Date of birth** : 510101-6839  
**Sex** : Male  
**Nationality** : Sudanese-Swedish

**Permanent Address-Residence:** Professor Elsadig Kazzam  
 29 River Heights  
 90 High Street  
 E152 FT  
 London  
 United Kingdom

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 Professor Elsadig Kazzam  
 Portalgatan 69 Lgh-1101  
 754 18 -Uppsala  
 Sweden

**Languages** : English, Swedish, Arabic

**Status** : Married, Three children, one girl & two sons

**Wife** : Dr. Inaam Hassan, M.B.B.S., M.D., Ph.D., SCIM, SCH.  
 Associate Professor, Internal Medicine  
 Internist, Haematologist & Haematopathologist  
 Bone Marrow Transplantation Expertise

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**Website** [www.profkazzam.com](http://www.profkazzam.com)

### **Qualifications and Merits:**

<b>2012</b>	Elected President World Heart Failure Society (2013-2014)
<b>2009</b>	Fellow of the American Heart Association
<b>2008</b>	Full Professor, Clinical Cardiology, UAE University
<b>2001</b>	Associate Professor, Clinical Cardiology, Umeå University, Sweden
<b>2000</b>	Fellow of the European Heart Failure Association
<b>1999</b>	Fellowship of the American College of Cardiology
<b>1990</b>	Ph.D. in Clinical Cardiology, Uppsala, Sweden
<b>1994</b>	Swedish Board Certification in Internal Medicine
<b>1994</b>	Swedish Board Certification in Cardiology
<b>1996</b>	Fellowship of the European Society of Cardiology
<b>1994</b>	Full Registration Swedish Medical Council
<b>1997</b>	Full Registration British Medical Council (GMC) [No.4464167]
<b>1997</b>	Full Registration in the Specialty Register of Internal Cardiology (GMC)
<b>1997</b>	Full Registration in the Specialty Register of Internal Medicine (GMC)
<b>1978</b>	Bachelor of Medicine & Surgery, University of Alexandria, Egypt

### **Memberships in Distinguish Scientific & Learning Societies:**

1. Member of the Swedish Society of Cardiology
2. Member of the Swedish Society of Medicine
3. Member of the Swedish Senior Medical Consultants Association
4. Member of the European Working Group on Echocardiography
5. Member of the American Society of Echocardiography
6. Member of the International Society of Doppler Echocardiography
7. Member of the International Society of Cardiovascular Ultrasound USA
8. Member of the American Heart Association Council on Clinical Cardiology
9. Member of the American College of Cardiology
10. Member of the European Society of Cardiology
11. Member of Cardiovascular and Diabetic Research Group, Al-Ain, UAE
12. Chairman of the Thalassemia Working Group, Al-Ain, UAE
13. Member of Executive Board World Heart Failure Society
14. Director Clinical Skill Training Centre (Ultrasound Section) FMHS, UAE.

### **College of Medicine & Health Science, served as:**

- 1-Member of the Faculty Promotion Committee
- 2-Member of Faculty Research Grant Committee
- 3-Member of the Faculty Library Committee
- 4- Member of the Faculty Library Committee
- 5- Member of the Faculty Postgraduate Committee
- 6- Member of UAE, Ministry of Health Doctors Appraisal Committee

### **Community Service:**

Member of the Expert Committee (one of three) proposed by the Dean of the Medical Faculty based on the UAE University Vice Chancellor instruction as requested by UAE Chief Justice to give a professional consultation to serve justice in a complex medico-legal problem.

### **Licenses to Practice:**

#### ***Consultant Physician & Cardiologist***

- Sweden (Swedish Welfare Council)
- United Kingdom (British Medical Council)
- United Arab Emirates (HAAD)
- Sudan (Medical Council)

### **Most Recent Position (2003-2018):**

- Professor, Department of Internal Medicine, Faculty of Medicine & Health Sciences. United Arab Emirates University, Al Ain, UAE
- Senior Consultant Cardiologist- Tawam-Johns Hopkins Hospital

## **Education:**

<b>1958 – 1962</b>	:	Elementary School, Sudan
<b>1962 – 1966</b>	:	Intermediate School, Sudan
<b>1966 – 1971</b>	:	High Secondary School, Sudan
<b>1971 – 1973</b>	:	University of Khartoum (Faculty of Science), Sudan
<b>1973 – 1978</b>	:	University of Alexandria (Faculty of Medicine), Egypt
<b>1984 – 1994</b>	:	University of Uppsala (Faculty of Medicine), Sweden

## **Positions Held:**

<b>Feb 2008 - 31-07-2018</b>	Professor, Clinical Cardiology, FMHS, Dept. of internal medicine, UAE University
<b>Jul 2003 - Feb 2008</b>	Associate Professor & Consultant Cardiologist, Department of Internal Medicine, Faculty of Medicine & Health Sciences, UAEU, Al Ain.
<b>Jul 1999 – Jul 2003</b>	Senior Consultant Physician & Cardiologist, Department of Internal Medicine, Cardiology Division, Mälar Hospital, Eskilstuna, Sweden.
<b>Jun 2001 - Jun 2006</b>	Associate Professor in Clinical Cardiology, Department of Clinical Medicine, Umeå University Hospital, the Medical Faculty, Umeå, Sweden.
<b>Nov 1994 – May 1990</b>	Consultant Physician & Cardiologist, Dept. of Internal Medicine, Heart Centre, Umeå University Hospital. 50% for the Medical Faculty, Umeå University and 50% for the University Regional Hospital, It is a combined post includes: clinical, teaching (lecturer) and research (senior researcher) duties. During the period 17 08 98 - 30 04 99 I was responsible for the Echocardiography Section within the Department of Cardiology.
<b>Oct 1990 - Oct 1994</b>	Postdoctoral Fellow, Dept. of Internal Medicine, Division of Cardiology, Uppsala University Hospital.
<b>Nov 1984 - Nov 1990</b>	Postgraduate Fellow, Dept. of Internal Medicine, Division of Cardiology, Uppsala University Hospital came on the basis of

Sudan Project: A cooperation Agreement between, Swedish and Sudanese Ministries of Health, university of Uppsala and University of Khartoum

<b>Oct 1983 - Oct 1984</b>	Registrar in the Dept. of Internal Medicine, Khartoum North Teaching Hospital (K.N.T.H.)
<b>Oct 1981 – Oct 1983</b>	Senior House Officer in Dept. of Internal Medicine, (K.N.T.H)
<b>Apr 1980 – Oct 1981</b>	Senior House Officer in Dept. of Paediatrics (K.N.T.H.)
<b>Jan 1980 – Apr 1980</b>	Junior House Officer in the Dept. of Paediatrics (K.N.T.H.).
<b>Oct 1979 – Jan 1980</b>	Junior House Officer in the Dept. of Obs & Gyne. (K.N.T.H.)
<b>Jul 1979 – Oct 1979</b>	Junior House Officer in the Dept. of Surgery (K.N.T.H.).
<b>Apr 1979 – Jul 1979</b>	Junior House Officer in the Dept. of Medicine (K.N.T.H.).

## Recent Years Achievements And Recognition

## Recent National & International Achievements:

1. **Invited Scientific Committee Member, Faculty and Speaker 6<sup>th</sup> World Heart Failure Society Congress 21-24<sup>th</sup> June 2018. Baku, Azerbaijan.**

### Lectures:

- (1) **Professor J W Remme “Keynote Lecture”** Cardiac Remodelling in Patients with Obstructive Sleep Apnoea: Emphasis on Left Ventricular Diastolic and Atrial Function
  - (2) Heart Failure in the Middle East
2. Visiting Professor, **Harvard Medical School, Department of Cardiovascular Medicine Boston, USA 20 July-20 August 2018.**
  3. Faculty and Invited speaker, Tricuspid Regurgitation, Pulmonary Hypertension and Right Atrial Remodeling TTE, TEE and Right Cardiac Catheterization study. 32<sup>nd</sup> Annual International Conference on **Recent Advances in Echocardiography Washington, USA 16 March 2017. Case presentation.**
  4. **Chairman and moderator Osaka University** Mini symposium “Osaka University Lectures on Mechanical Circulatory Support and Regenerative Therapy for Heart Failure Patients” February 3, 2017, Abu-Dhabi, UAE.
  5. Visiting Professor, **Harvard Medical School, Department of Cardiovascular Medicine Boston, USA 20 July-20 August 2015.**
  6. Lecture, Harvard Medical School Seminar Series, Department of cardiovascular Medicine:
 

“The Forgotten Neighbour” Right ventricular Remodeling in Health and Disease: Review of Literature and 30 years of our own Research Experience and Contribution to the Literature. **Harvard Medical School, Department of Cardiovascular Medicine Boston, USA 29 July 2015.**



7. **Professor Elsadig Kazzam Prize:** This a new prize created by the World Heart Failure Society (WHFS) as an appreciation for my presidency (2012-2014) and contribution to the WHFS activities to be presented for the best abstract, 5<sup>th</sup> WHFS Congress 2016, Beijing, China.

8. **President and Chairman of the Organising Committee:** The 4<sup>th</sup> World Heart Failure Society Congress, Al-Ain, UAE, 11-13 December 2014.

The Congress brought together 25 International experts in the field of Heart Failure; delegates from 22 countries around the World to UAE-Al-Ain, with more than 60 presentations covered all aspects of Heart Failure.

(<http://www.worldheartfailure.org//WHFSCongress>).

9. **Chairman in a number of sessions and speaker,** 4<sup>th</sup> World Heart Failure Society Congress, lectures:

i- “Keynote Lecture” Right Ventricular Function and Failure

ii- Heart Failure in the Middle East

iii- “The President lecture” Pathophysiology of Diastolic Heart Failure

10. **Invited Faculty and Chairperson by the World Federation of Cardiology, World Congress of Cardiology 2014, 4-7<sup>th</sup> May 2014. Melbourne, Australia.**

(I) World Heart Failure Society Session - Meet the Experts: Different Heart Failure-Different Treatment, 7 May 10:30-12:00:

(II) Symposium: The latest RAAS management in congestive Heart Failure, 7 May 10:30-12:00

11. **Invited International Speaker,** 4<sup>th</sup> Biannual International Iranian Heart Failure Submit, 30 April – 01 May 2014, Tehran-Iran.

**Lectures:**

i- Assessment of Right Ventricular Remodelling in Health and Disease: Echocardiographic Approach

ii- Heart Failure Society: what we can do in Developing Countries

12. **Invited Speaker and Chair/co-chair,** Global Network on Emergency Medicine Conference, Global Network on Emergency Medicine Conference, 25<sup>th</sup> – 29<sup>th</sup> April 2014. Dubai, UAE.

The title of my lecture: Guidelines in Acute Heart Failure

13. **Invited International Faculty and Speaker**, 30<sup>th</sup> Annual International Conference on Recent Advances in Echocardiography and Allied Techniques (**MRI- CT Scan, Nuclear**) Washington, **USA 28<sup>th</sup> March 2014**
14. **Invited, Special lecture, Sudan Heart Centre, Khartoum, Sudan. 25<sup>th</sup> February 2014.**  
**Lecture: Right Ventricular Function/Failure Challenges: Emphasis on the Role of Echocardiography in Health and Disease.**
15. **Invited International Speaker, 23<sup>rd</sup> Biannual Sudanese Physicians Congress, 21-23 February 2014, Khartoum, Sudan.**  
**Lecture: Right Ventricular Remodeling in Health and Disease Highlight from our own Research Group 1994-2014)**
16. Teaching, peer-lecture based evolution of eight teachers (applying for academic promotion from assistance professor to associate/full professor
17. Evaluation of three candidates' applications for promotion to Full "Professor Rank" College of Medicine and Health Science.
18. Reviewer 6 Grant applications submitted to the College of Medicine & Health Sciences Research Grant Committee (2013).
19. **Kazzam E International Faculty and Speaker**, 29<sup>th</sup> Annual International Conference on Recent Advances in Echocardiography and Allied Techniques (**MRI- CT Scan, Nuclear**) San Francisco, **USA 23<sup>th</sup> March 2013**
20. Reviewer 5 Grant applications submitted to the College of Medicine & Health Sciences Research Grant Committee (2012).
21. **Invited International Faculty and Speaker** 28<sup>th</sup> Annual International Conference on Recent Advances in Echocardiography **Chicago, USA 23<sup>rd</sup> March 2012. Case presentation.**
22. External Reviewer for evaluation of five candidates' scientific publications: Applying for a promotion to Full Professor Rank, Faculty of Medicine, and Bagdad University. (2012-2013).

23. **President of the World Heart Failure Society**, 30-12-2012 for 2012-2015. Effective from 30-12-2012. **Unanimous Votes by the Executive Board and General Assembly of WHFS, Turkey Istanbul** (<http://www.worldheartfailure.org//WHFS>).
24. **Invited Faculty and lecturer 3rd World Heart Failure February** (29<sup>th</sup> November -, 2012) **Turkey, Istanbul**

### **Lectures:**

- i. Right Ventricular Remodelling in Health and Disease: Keynote Lecture
- ii. Heart Failure in the Middle East: Recent Development and Literature Review

### **Chairperson:**

**Session:** Basic Science: Animal Model and Experimentation in Heart Failure

25. External Reviewers, 20 abstracts (Heart Failure) submitted to the 3<sup>rd</sup> World Heart Failure Congress Scientific Committee.
26. **Visiting Professor and Faculty of Medicine- Health Sciences, UAEU representative to Utah University Cardiovascular and Carma Centers, Salt Lake City, USA (26-29 March 2012)** for establishment of a potential partnership and collaboration in CVS Medicine which includes:
- I-Clinical Medicine
  - li-Research
  - lii-Doctors training (under/postgraduate) Joint Fellowship
  - V-Students electives
27. **Visiting Professor Lecture:** Anatomy and Physiology of thee Right Ventricle: Role of Echocardiography with Special Emphasis on The Forgotten Neighbor Review. Utah Medical Centre, **Salt Lake City, USA 29<sup>th</sup> March 2012.**
28. **Invited International Faculty and Speaker**, 28<sup>th</sup> Annual International Conference on Recent Advances in Echocardiography Chicago, **USA 23<sup>th</sup> March 2012**

29. As main supervisor: Graduation of a Master student “*Ms. Raghda Albawab*” The first Clinical Research in Cardiology in the CMHS: **Risk Factors and Consequences of Obstructive Sleep Apnea with Special Emphasis on Cardiopulmonary Exercise.**
30. **Invited International Faculty and Speaker XVth World Congress of Cardiology, Echocardiography & Allied Imaging Techniques. September 30 – October 2, 2011, Delhi, India.**
31. Organizer of the First Faculty of Medicine and United Arab Emirates University Clinical Research Symposium: Preventing the coming storm of diseases in the UAE: Which way forward? The Role of Research and the **FMHS-UAEU, 23-24 March 2011, Al Ain, UAE.** And also served as **Chairman of the organizing, scientific and financial committees.**

More than one hundred Clinicians, Scientists and Researchers from different academic and health care institutions (including Seha and HAAD) and private hospitals were brought together to discuss the importance of establishment of First UAE Clinical Research Centre.

32. **2nd International Conference on Trauma/Critical Care Management and Prevention 21-24 February 2011, Al-Ain-UAE: My contribution**

- i. **Organizer** (Trauma Group-FMHS)
- ii. **Courses Director**, Ultrasound Section, Clinical Skills Training Centre, FMHS- UAEU.

#### **Pre-Conference Workshops**

**Workshop 1:** Focused Assessment Sonography for Trauma  
Monday 21 February 2011

**Workshop 2:** Critical Care Ultrasound  
Monday 21 February 2011

**Workshop 3:** High Frequency Ventilation  
Monday 21 February 2011

- iii. **Speaker: Lecture**, Chest and Cardiac Trauma Sonographic evaluation  
10:30 – 11:00 (W:1) 21-02-2011
- iii. **Instructor Practical Session Hands on** (30 doctors) (W:1): 13:00 – 17:00

**33. Invited Faculty and lecturer 2nd World Heart Failure February** (February, 2010)  
Chandigarh, India

**Lectures:**

- iii. Right ventricular Failure
- iv. Heart Failure in the Middle East: Update and Literature Review

**34. Visiting Professor, Albert Einstein Medical Centre Philadelphia, Pennsylvania, USA. 9-12th March 2010.**

**Objectives:**

- i. Cardiology Setup-Clinical-Teaching and Research
- ii. Heart Failure Management Program rounds and orientation
- iii. Echocardiography and Data Analysis Station
- iv. Research Cooperation –Heart Failure and Sleep Apnoea
- v. Lecture: Right Ventricular Remodeling Role of Echocardiography

**35. CME's Contribution** (invited): (2010) Zayed Military Hospital, Al-Ain

- i. Cardiac Arrhythmia: Clinical Approach (CME)
- ii. The Right Ventricle the Forgotten Neighbor Update Zayed Military Hospital, Al-Ain (CME)

**36. Invited Faculty** and a Clinical Case Presentation 27th Annual International Conference on Recent Advances in Echocardiography and Allied Techniques (MRI, CT Scan and Nuclear) **(02-04-2011) New Orleans, USA.**

**37. Chairman of the Organizing, Scientific and Financial Committees: World Heart Failure Congress, 13-14th February 2008, Al-Ain-UAE** (please see attachment 1).

*I also served as a Chairman and speaker. My presentations include:*

- i. Heart Failure in the Middle East
- ii. Diabetes and Heart Failure
- iii. Right ventricular Failure

Twenty worldwide expertise and authority in Heart Failure participated in the event and more than 700 national and international delegates.

38. Delegated (November 2006) by the Executive Board of the World Heart Failure Society (WHFS) to organize the World Heart Failure Congress in Al-Ain, UAE 12-02-2008 in cooperation with the United Arab Emirates University, The Medical Faculty.
39. Elected (2004) as the member of the Executive Board and representative of UAE and Arabic Countries (WHFS), (<http://www.worldheartfailure.org>)

**My responsibilities include:**

- i. To help cardiac society in Arabic countries to build working group in heart failure, our ambitious is to establish Pan Arabic Heart Failure Working Group.
  - ii. I am also responsible in coordination with the World Heart Failure Society and concern societies to establish heart failure clinics and heart failure management program in Arabic countries.
40. One of the main organizers of the First International Conference on Diabetes Mellitus and its Complications. Al-Ain, UAE 6-9th March 2006 (more than 25 worldwide International speakers were invited). I also served as a Chairman and speaker in the Conference
  41. One of the two speakers in the Meet the Professors Session (the other speaker was Professor Anders Waldenström cardiologist and president of the Swedish Heart and Lung Foundation (Umeå University, The Medical faculty, Sweden) . The title of our session: Treatment of Heart Disease in Patients with Diabetes Mellitus

**Served/Listed reviewer for the following Prestigious Journals:**

- i. Circulation (USA)
- ii. Journal of the American College of Cardiology (USA)
- iii. American Society of Echocardiography (USA)
- iv. Journal of Human Hypertension (USA)
- v. Echocardiography (USA)
- vi. Heart (UK)
- vii. European Heart Failure Journal (Europe)
- viii. European Journal of Internal Medicine
- ix. Journal of the European Society of Echocardiography (Europe)
- x. Abstracts Grader for European Society of Echocardiography Annual Scientific Congresses (2007, 2008, 2009) (Europe)
- xi. Abstracts Grader 3<sup>rd</sup> World Heart Failure Congress, Istanbul. Turkey 2012

42. Nominated and served as the FMHS representative in the UAE Ministry of Health Doctors Appraisal Committee.

### **Research Grant Last Five Years (2007-2016):**

As a PI and Co-PI= 2, 500, 000 AED (ca: 680.000 US\$)

### **Current Research Projects:**

1. Cardiac Remodeling and Ventricular Interaction in Patients with Thalassemia Major: Detailed Echocardiographic and Magnetic Resonance Imaging Evaluation in relation to Neurohormones and Collagen markers. **PI**
2. Risk Factors and Consequences of Obstructive Sleep Apnea and Short Sleep Duration: Special Emphasis on Cardiac function and Neurohormonal Activation. **PI**
3. Renin, Arginine-vasopressin and Aldosterone levels the one-humped Camel: Effect of long-term dehydration and rehydration. **PI**
4. Interpretation of the Echo. Findings of the National survey of diabetes and its complications in the United Arab Emirates-Abu Dhabi Phase, **CO-PI**
5. Effects of volume-depletion on Insulin-like growth factor-1 (IGF-1) and its receptor in the one-humped camel (Camels dromedaries). **CO-PI**
6. Pathophysiologic mechanism of the cardiovascular and pulmonary effects of particulate air pollution in a mouse model of hypertension: Possible protective effect of curcumin. **CO-PI**
7. Determination of Cardiac Function and Reference values For Men and Women Aged 20-70 Years old using Echocardiography/Doppler Techniques in Association of CVS Risks Factors (Al-Ain General Population Heart Study (AGPHS): PI (to be started) **PI**.
8. Experimental studies on the interactions between pulmonary exposure to particulate air pollution and hypertension: Pathophysiologic mechanisms and influence of protectant drugs, **CO-PI**
9. Effect of inhibition of ATP and voltage-dependent K<sup>+</sup>-channels on allergic immune response in brown Norway rats sensitized to ovalbumin. **CO-PI**

Experience in United Arab Emirates  
28.07.2003 – 31-07-2018



### **Experience in United Arab Emirates: 28-07-2003 till 31-07-2018**

Since 28-07-2003 have been working in the Department of Internal Medicine, Faculty of Medicine and Health Sciences (FMHS) (Found in 1986, [www.fmhs.uaeu.ac.ae](http://www.fmhs.uaeu.ac.ae)) United Arab Emirates University, Al-Ain, UAE.

### **My duties and responsibilities are as follow:**

- Clinical Duties
- Research
- Teaching
- Other Specific Activities
- Administrative

### **Clinical Duties:**

1. Running a weekly Cardiology Consultation Clinic
2. Running a weekly non-invasive investigation clinic (Echo & Stress test).
3. Giving advice, consultation, in cardiology within the FMHS and national level
4. Presenting FMHS in issues related to clinical cardiology in UAE

### **Community Services and Public Alert:**

1. Heart Attack How to Protect Yourself 2006, Al Ain-UAE
2. Women and Cardiovascular Disease 2006, Al Ain, UAE
3. Helping Justice Cause by taking part (one of four Expertise Committee) in a very controversial Medico-legal Case in Abu Dhabi High Court 2006
4. Risk factors for Cardiovascular Disease and Women 2009, Lecture delivered in the World Heart Day, Females Compass, UAE University, Al-Ain (30-09-2009)
5. Founder of the Thalassemia Research and Working Group which bring together clinicians, scientists, researchers and patients as well as their families.

## **Teaching Duties:**

### **(A) Junior Medical Clerkship (Semi-Final Medical Students)**

**28.07.2003 – 30.06.2009**

I am the Director and Principal tutor for the whole Junior Clerkship Rotation in Internal Medicine including cardiology; this is the most important course in Internal Medicine according to the Faculty Curriculum. My responsibilities were:

#### **Planning and construction of the course:**

1. Morning Reports, 08:00 to 09:45 AM (by the Faculty Teachers)
2. Wards Rounds 09:00 to 10:30 AM (Ministry of Health Doctors)
3. State of the Art Teaching Sessions 11:00 to 12:30 PM (clinically oriented) (by the Faculty Teachers)
4. Afternoon Rounds (bedside teaching) Faculty Rounds 15:00 to 16:30 PM (by the Faculty Teachers)
5. Planning and supervising students on call duties (1 weekend+6 nights per rotation for each student)
6. Cardiology teaching in this module, bedside medicine, morning report presented by the on-call students in the previous night, afternoon faculty rounds and lectures in clinical pharmacology (Treatment of Heart failure and Angina Pectoris)
7. Introduced, planned organized and supervised the first teaching sessions (Mafraq Hospital-Abu Dhabi) mechanical revascularization of patients with ischaemic heart disease (PTCA-CABG) for the first time in the history of the UAE Medical Faculty. These are clinically and bedside oriented teaching session in an interactive format. Each session includes 13 students. The session consists of reviewing the history, clinical examination, laboratory investigation 12-leads resting ECG (including ECG interpretation), echocardiography, stress test and myocardial scintigraphy. This also includes discussion about the ideal pharmacological management of these patients in lines with the international guidelines. Then the students follow the patient to the catheterization lab to see angiography procedure. They also follow those candidates for PTCA or CABG. Special emphasis on secondary prevention and follow protocol are also discussed in detail.

8. Preparing and supervising the final examination: bedside clinical sessions (15 long cases, 9 OSCE (Objective Structured Clinical Examination- stations) cases, the viva exam and the written exam (multiple choice questions, matching and problem based learning (PBL) questions)
9. Correction, evaluation of the final examination and authorization of the final result, this include presentation of the results to the Promotion Committee.
10. Advising and facilitating Junior Medical Clerkship students to do their elective summer training (3 months) usually in Canada, USA or Europe
11. Organise and supervise the cooperation between the teachers from the ministry of health and our department in the junior medical clerkship. I also nominate the best teachers for the appreciation and awards prizes which usually presented in the presence of the Dean, Head Departments and concerned administrative people
12. Introduced for the first time a prize of excellence in medicine for the best student performance in the Internal Medicine Courser (Junior Medical Clerkship).
13. Introduced for the first time "State of the Art Sessions" These are clinically oriented sessions (History-Clinical Examination and how to approach clinical problems).
14. In cooperation with Al-Ain Hospital Administration I am the only course director in the FMHS who is able to secure a teaching room for the JMC. I equipped this teaching facility with internet, computer, overhead presentation facility, projector, printer and fax. These tools help the students to search and update their knowledge as well as improve the case presentation and in particular in the morning reports.
15. In cooperation with Al-Ain Hospital Administration I am the only course director in the FMHS who is able to secure a room for the JMC for overnight during their on call duties.
16. Introduce and create an objective evolution in the JMC for the course content and component, teachers as well as Residents.
17. For the first time in the FMHS curriculum, I intergraded residents in the teaching of the JMC students.
18. First course director in FMHS to organize an appreciation event for Al-Ain Hospitals clinicians for their contribution in the JMC teaching and assessments. The Hospital

and in particular the Department of Internal Medicine were also recognized as a teaching facility for the JMC.

**(B) Cardiovascular Module (10 Weeks):**

In this module the students in Organ System 1 (OSC1, 3rd year) start their cardiovascular course, which includes both pre-clinical (Anatomy, Physiology, Pharmacology, Histology, Biochemistry) and clinical topics (Medical History taking and clinical examination, Heart Failure, Coronary Heart Disease, Arrhythmias, Valvular Disease, Pericardial Disease, Congenital Heart Disease and Vascular Disease).

I am a coordinator in this Module. I am the main responsible tutor regarding clinical aspect of the module including selection of the clinical cardiologists' lecturers. In this course I am particularly responsible for teaching of coronary heart disease and arrhythmias. I have also a full responsibility in clinical, written, mid-and final exams

**(C) Senior Medical Clerkship (Final Medical Students):**

1. Bedside teaching in the Coronary Care Unit for all senior groups (2 sessions /group, a total of 8 sessions).
2. Senior student's seminars in heart failure, acute coronary heart disease and arrhythmias. Two of the students prepare the seminar and perform oral presentation to the rest of the students under my supervision, usually include patient case presentation.
3. Case Discussion Seminar
4. Bedside teaching in general Medicine and Cardiology

**(D) Clinical Skill Module (Year 2):**

Teaching of Bedside clinical skills, in particular examination of cardiovascular System

**(E) Clinical Skill Module (Year 1):**

Teaching of Bedside clinical skills, in particular examination of cardiovascular System

**(F) Pre-Clinical Basic Science (Unit 5):**

Clinical Correlation of Cardiovascular Physiology

**(G) Residents Teaching:**

Postgraduate Training for Residents (those who passed or will sit for the final exam in general medicine, e.g. MRCP and Arab Board)

1. Teaching the state-of-the-art bedside session in Clinical Cardiology
2. Organizer of the Residents Teaching Training Program within their residency training in Internal Medicine. Each Resident doctor teaches 4 sessions/group a total of 4-5 hours)
3. Guidelines for Residents to teach specific topics within the JMC training and
4. Training of residents in techniques of examination for Junior Medical students (OSCE).

**Faculty Specific Activities:**

1. Member of the Faculty of Medicine interview panels for appointments of 4 professors (Paediatrics Cardiology 2x, Statistics and Family Medicine) and The Director of the Medical Library.
2. Member of the Faculty of Medicine interview panels for student's admission
3. Represented the Chairman of the Department of Internal Medicine in 4-6 Faculty Council Meetings.
4. Chair of the Chairs for the interview and appointment of a professor and chair of Anatomy
5. Chair of the Chairs for the interview and appointment of a professor and chair of Immunology Department
6. Assist Medical Education Department in Peer-Evaluations of teachers applying for promotion to Associate/Full Professor (more than 15 members)

### Contribution to CME and Training Courses:

1. Organizer of **ECG workshop** during the 2nd Scientific Conference for Medical Students in the Gulf Countries **25th-28th January 2004**. This was a 2 days' workshop attended by 80 female and male medical students from different countries (e.g. UAE, Sweden, Canada, UK, South Africa, Australia, and Pakistan). It was an interactive clinically orientated teaching sessions with modern audio-visual and live animations tools.
2. One of two organizers of **Update in Cardiology** CME Course **2004-04-29**, FMHS, Al-Ain, UAE. 500 delegates who came from different hospitals and medical institutions in United Arab Emirates attended this course. Speakers were senior consultants and lecturers in cardiology. Topics included recent advances in all cardiology titles. My role was selection of topics and speakers, chairman in one session, a principal speaker Diastolic Heart Failure, presentation of closing remarks and issuing of the CME certificates,
3. One of 2 organizers of a full day Workshop, **Focused Assessment Sonography for Trauma** (FAST) **25th May 2004**. Surgeons, Technicians and Nurses dealing with Acute Trauma in the Emergency Department attended this workshop. My contribution was about chest and cardiac trauma and consisted of sessions: (1) a 30 minutes lecture about cardiac trauma with special emphasis on the role of echocardiography (2) a 60 minutes echocardiography practical session with focus on how to detect pericardial fluid.
4. One of 3 speakers in the **Diabetic and Cardiovascular Research Group** Symposium in Cardiology **16th September 2004**. The title of my lecture was: Acute Coronary Syndrome: When and Where and How to Treat. The other 2 speakers were (Professor George Carruthers, Dean of the Medical Faculty about guidelines in treatment of Hypertension and Professor Gary Nicholls, chairman department of Internal Medicine about BNP and Heart Failure).
5. One of 2 organizers of a ½ day Workshop, **Focused Assessment Sonography for Trauma** (FAST) **27th November 2004**. Faculty of Medicine and Health Sciences, Al-Ain, UAE. Held as a Pre-Conference Workshop, prior to the 4th Gulf Countries Medical Education Conference. See above
6. **One of the main speakers in Emergency** Medicine CME, organized by the Cardiovascular and Diabetes Research Group, Faculty of Medicine and Health Sciences, Al-Ain, United Arab Emirates, **14th April-2005**. My lecture was about Management of Chest Pain.

7. One of the main speakers in **Update in Cardiology** CME, Dubai Rashid Hospital, Dubai, United Arab Emirates, **13th -May-2005**. I was a chairman in one session and I also gave two lectures entitled (1) Diastolic Heart Failure (2) Current Treatment of Unstable Angina Pectoris.
8. One of the main speakers and one of 2 organizers of a one-day Workshop, **Focused Assessment Sonography for Trauma (FAST) 21st May 2005**, Faculty of Medicine and Health Sciences, Al-Ain, UAE.
9. One of the main speakers in Family Update, CME, Al-Ain, Dubai, United Arab Emirates, **15th -June-2005**. My lectures titles were entitled (1) Heart Failure Treatment to Prolong Life (2) Acute Coronary Syndrome: When and Where to Treat.
10. CME Course, Tawam Hospital, Al-Ain, United Arab Emirates, **25th September 2005**. Cardiac Arrhythmia: Clinical Approach.
11. Invited Speaker in Women International Day, UAE University Club, Al-Ain, **9th March 2006** the title of my lecture: Heart Disease and Women
12. Invited Speaker: Cardiac Arrhythmias Update, International Conference on Medical Update 2006. Abu Dhabi **19th-20th May 2006**.
13. Invited Speaker: Unstable Angina Pectoris Update, International Conference on Medical Update 2006. Abu Dhabi **19th-20th May 2006**.
14. Invited Speaker Acute Coronary Syndrome: Old Tract or Fast Tract with Special Emphasis on the Swedish Experience, Al-Ain Heart Group. Hilton, Al-Ain **13th November 2006**.
15. Invited Speaker Zayed Library Staff Heart Attack How to protect yourself, **19th November 2006**, Jabal Hafeet, Al-Ain.
16. Invited Speaker The Right Ventricle the "Forgotten Neighbor" Clinical and Research Overview. Emirates Cardiac Society, Al-Ain, Jabal Hafeet, **03-03-2007**.
17. One of the main speakers and one of 2 organizers of a one-day Workshop, Focused Assessment Sonography for Trauma (FAST) **28st November 2007**, Kuwait.
18. One of the main speakers and one of 2 organizers of a one-day Workshop, Focused Assessment Sonography for Trauma (FAST) **4st February 2008**, Faculty of Medicine and Health Sciences, Al-Ain, UAE.

19. Organizer of the First world Herat Failure Congress in Al-Ain, UAE **12th-14th February 2008**.
20. One of the main speakers and one of 2 organizers of a one-day Workshop, Focused Assessment Sonography for Trauma (FAST) **14st April 2008**, Faculty of Medicine and Health Sciences, Al-Ain, UAE.
21. One of the main speakers and one of 2 organizers of a one-day Workshop, Focused Assessment of Trauma: Sonographic Evaluation (FAST) **10th February 2009**, Faculty of Medicine and Health Sciences, Al-Ain, UAE.
22. One of the main speakers and one of 3 organizers of a one day Workshop, Emergency Medicine: Role of Echocardiography (FAST) **3rd April 2009**, Faculty of Medicine and Health Sciences, Al-Ain, UAE. My lecture title: Pericardial fluid, Pulmonary embolism, global cardiac function and cardiac arrest)
23. One of the main speakers and one of 2 organizers of a one day Workshop, Focused Assessment of Trauma: Sonographic Evaluation (FAST) **10th May 2009**, Faculty of Medicine and Health Sciences, Al-Ain, UAE.
24. One of the main speakers and one of 3 organizers of a one day Workshop, Emergency Medicine: Role of Echocardiography (FAST) **10th November 2008**, Faculty of Medicine and Health Sciences, Al-Ain, UAE. My lecture title: Pericardial fluid, Pulmonary embolism, global cardiac function and cardiac arrest)
25. Mini Crash Course (3 hours) for the Senior Medical Clerkship Students. ECG and Cardiac Arrhythmias with special emphasis on treatment of Atrial fibrillation and ventricular lethal arrhythmias, **11-01-2010**, FMHS-Al-Ain-UAE.

### **Research Activities and Projects:**

1. Cardiac remodeling and ventricular interaction in patients with Thalassemia Major: Detailed Echocardiographic and Magnetic Resonance Imaging Evaluation in relation to Neurohormonal and Collagen markers
2. The Safety and Efficacy of Early Ambulation after Coronary Angioplasty in Zayed Military Hospital: Randomized Controlled Clinical Study
3. Effect of Aging on cardiac Function
4. Cardiac Involvement in Patients with Systemic Sclerosis.



5. Heart rate variability in health and disease.
6. A National Survey of Diabetes and its Complications in the United Arab Emirates.
7. Effects of Volume-Depletion and Volume-Repletion on Neurohormones in the Camel
8. Sleeping disorders and Obstructive Sleep Apnoea Syndrome
9. Cardiovascular Mortality and Mortality Sequences of Air Pollution
10. Cardiovascular Risk Factors among School Children, Al-Ain, UAE

### **My Research Cooperation in Sweden:**

- Umeå University, Sweden
- Uppsala University, Sweden
- Christchurch School of Medicine and Health Sciences, Christchurch Hospital  
Christchurch, New Zealand.

### **Research Advisor for Zayed Military Hospital, Department of Cardiology**

I proposed 5 potential projects. The first one is recently accepted by their local ethical committee and will start very soon.

(The Safety and Efficacy of Early Ambulation after Coronary Angioplasty in Zayed Military Hospital: Randomized Controlled Clinical Study)

### **Supervision of Postgraduate Research Students:**

1. Head of CCU, Zayed Military Hospital Project: The Safety and Efficacy of Early Ambulation after Coronary Angioplasty in Zayed Military Hospital: Randomized Controlled Clinical Study
2. A medical Doctor, MRCP (1) the project: Assessment of Long axis function in Health and Disease: M-Mode and Doppler Tissue Imaging.
3. A master Student, Faculty of Science and Environment: Cardiopulmonary Exercise in Patients with Obstructive Sleep Apnoea

### **Administrative Duties:**

Being the main tutor in the Junior Medical Clerkship I am leading a team of 21 colleagues (9 Faculty Staff, 3 Professors, 4 Associate Professors, 2 Assistant Professors and 8 Senior Consultants from the Ministry of Health) who take part in teaching patients care. I am responsible for planning and coordination of their teaching and participation in mid and final

exams. I am also responsible for the selection and involvement of colleagues from the Ministry of Health in teaching including their payment and their promotion.

### **Other Faculty Responsibilities:**

1. Member of the Faculty of Medicine Postgraduate Committee
2. Member of the Faculty of Medicine Library and Learning Resources Committee
3. Member of the Faculty of Medicine Undergraduate and Curriculum Committee
4. Chairman of the Subcommittee On Faculty Resources and Support of the internal evaluation of the Faculty of Medicine and Health Sciences
5. Representative of the Faculty of Medicine in an expertise committee set up by the Ministry of Health for the needs and importance of a Clinical Cardiology Centre of excellencies, which should provide the best care for cardiac ill patients at the highest international standard with very advanced and sophisticated technology. The committee also include the most national and international senior cardiologists and cardiac surgeons. The Main negotiator is an American Company specialised in building and establishing centres of cardiology services.
6. I was requested to visit (2004-07-10) the cardiology centre in Zaid Military Hospital (Abu Dhabi) for the assessment and evaluation of the clinical setup. My visit had resulted in suggesting a detailed plan for the development and establishment of a cardiology centre of Excellency's including research activities.
7. Member of the Research Grant Committee
8. Member of the Students Evaluation Committee
9. Chair of the Students behaviour and professionalism Committee
10. Chairman of Subcommittee, Faculty Resource Assessment for Accreditation of the FMHS.

## Experience in Sweden (1984-2003)

## **Duties and Responsibilities of the last post in Sweden:**

The Department of Cardiology (Mälar Hospital, Eskilstuna), which is a section of Internal Medicine, includes:

### **In patients:**

- Coronary Care unit (5 beds)
- General Ward (14 beds)
- Post-operative ward (CABG - 6 beds)
- General Ward (7 beds)
- Interventional Ward -Coronary Angiography +PTCA (6 beds)
- Echocardiography Unit
- Exercise Test Unit
- Pacemaker unit
- Computerized ECG units
- ECG Digital Transmission Unit (2 systems: 1-Transmission of ECG's from all ambulances or any patient site to the CCU and to the Senior Cardiologist in Call mobile digital Unit for prompt decision about on site initiation of Thrombolytic treatment and direct admission to the CCU. 2-A data base unit for storage of all ECG's taken in our hospital and associated medical centres.

### **Outpatients Clinics:**

- General Cardiology follow up clinic
- Referral Cardiology clinic
- PTCA follow up clinic
- CABG follow up clinic
- Myocardial Infarction follow up clinic

### **Cooperation and coordination with other Units:**

- Department of Anesthesia
- Department of Thoracic Surgery
- Department of Clinical Physiology
- Department of Thoracic Radiology.

The Department consists of 5 Senior Consultants, 3 Registrars and 4 Junior doctors.

As Senior Consultants, we are fully in charge of the Cardiology Division. We are responsible for the sorting of admissions, initiation of investigations [invasive and non-invasive] and treatment including referring patients for open cardiac surgery or PTCA performed in our hospital.

We are also responsible for taking care of patient's pre-and post mechanical interventions, PTCA, CABG and patients with assisted Mechanical Devices as well as those with Heart transplantation.

We have the responsibility for the ambulance digital ECG transmitted directly from/within and around our area to our coronary care unit for the prompt decision about Thrombolytic therapy (at home or under transportation to the Hospital) for patients with acute chest pain.

I am the senior consultant responsible for the echocardiography unit in our department performing echocardiography examinations in the cardiac general ward as well as in the coronary care unit. I am performing exercise test as a routine diagnostic procedure and for the risk evaluation in patients with myocardial infarction before discharge.

I attend the coronary angiography and cardiac surgery rounds as a senior physician for selection of patients suitable for PTCA, CABG or other interventional procedures.

As a senior consultant I run and support different out patients follow up clinics such as myocardial clinic, PTCA clinic, heart failure clinic and general cardiology out patient's clinic as well as referral cardiology clinic.

As a senior consultant I am taking part in a rotational out of hour on call duties covering cardiology. This includes consultations for in-patients in our hospital as well as for patients at the associated hospitals and medical centres.

I am also responsible for training, teaching and supervising of medical officers and registrars in Cardiology.

My responsibility also includes co-ordination and co-operation with the Department of Cardiac Surgery, Uppsala Academic Hospital.

### Continuous Medical Education, Symposiums, Workshops and Seminars:

1. Computers in Cardiology. Two-dimensional, Echocardiography, Interpretations and Data Analysis. **Gothenburg, Sweden**, two weeks, 1986.
2. Echocardiography. **Newcastle, England**, one week, 1987.
3. Computers in Cardiology: M-mode Echocardiography & Pulse Curves, interpretations - data analysis. **Gothenburg, Sweden**, two weeks, 1987.
4. Postgraduate course in Rheumatology. **Uppsala, Sweden**, one week, 1987.
5. Tropical Medicine Course. **Uppsala, Sweden**, two weeks, 1987.
6. Aids in Africa. **Uppsala, Sweden**, two weeks, 1987.
7. Respiratory Diseases in Africa and Antibiotics. Treatments. **Uppsala, Sweden**, one week, 1987.
8. Nephrology: physiology and Clinical Aspects. Uppsala, Sweden, one week, 1987.
9. Diabetes Mellitus: Clinical, Pathogenesis & Research Aspects. **Uppsala, Sweden**, one week, 1988.
10. Medical Statistics. **Uppsala, Sweden**, two weeks, 1988.
11. Doppler Echocardiography. Organized by The Society of the International Doppler Echocardiography. **Dubrovnik, Yugoslavia**, one week, 1988.
12. Computer in Cardiology: Doppler Echocardiography. Interpretation and Data Analysis. **Gothenburg, Sweden**, two weeks, 1989.
13. International Course in Doppler Echocardiography. **Trondheim Norway**, one week, 1989.
14. International Symposium: Stress & Transoesophageal Echocardiography. **Mainz, Germany**, 3 days, 1990.
15. Quantitative and Qualitative Methods in Medical Research. **Uppsala, Sweden**, two weeks, 1990.
16. Recent Advances in 2-D, Conventional & Color Doppler Echocardiography. **Atlanta, USA**, 3 days, 1990.
17. Current Status of Clinical Application of Echocardiography. **Anaheim, USA**. Mini course (AHA), 1991.
18. Invasive or Non-invasive Assessment of Left Ventricular Systolic Function. **Anaheim, USA**. Mini course (AHA), 1991.
19. International Course on Advances of Cardiac Ultrasound. **Bari, Italy**. 2 days, 1991.

20. Echocardiography "State of The Art", **California, USA**. 3 days, 1991.
21. Echocardiographic assessment of drug induced changes in left ventricular function. "Marion Morrell Dow" lecture (Prof. Kenneth Borow), University of Chicago Medical Centre. **Boston, USA**. 25-11-91.
22. Issues in critical care: Management of Congestive Heart Failure. **Anaheim, USA**. Mini course (ACC), 1995.
23. Postgraduate Course: Modern aspects of Cardiac Arrhythmia Diagnosis and Treatment. Swedish Society of Cardiology, **Umeå, Sweden**. 17-18, October 1996.
24. Postgraduate Course in Preventive Cardiology. Karolinska Institute of Medicine, **Stockholm, Sweden**. 19-20, October 1996.
25. Mini Symposium, Hyperlipidaemia: Diagnosis & Management. **Umeå, Sweden**. 30, October 1996.
26. Mini Symposium, Physical Training in Congestive Heart Failure. **Umeå, Sweden**. 19, November 1996.
27. Mini Symposium Cardiovascular Manifestation in Patients with Diabetes Mellitus. Organized by the Swedish Society of Medicine. **Stockholm, Sweden**. 27, Nov 1996.
28. Mini Symposium Left Ventricular Hypertrophy: Independent Risk Factor for Cardiovascular Diseases **Stockholm, Sweden**. 28, November 1996.
29. Mini Symposium Treatment of Hypertension: Patients Orientation with Special Emphasis on Compliance. **Stockholm, Sweden**. 15, February 1997.
30. Mini Symposium: Pulmonary Hypertension Diagnosis and Treatment. **Umeå, Sweden**. 12, February 1997.
31. Mini Symposium: The Role of Endothelin in Relation to the Lipid Status in Cardiovascular Diseases. **Umeå, Sweden**. 12, February 1997.
32. Advances in Echocardiography Course. (Organized by the International Society of Cardiovascular Ultrasound (ISCU) **Anaheim, USA**. 14-15, March 1997.
33. Satellite Symposium Acute Coronary Syndrome. **Anaheim, USA**. 16, March 1997.
34. Mini Course: Left Ventricular Remodelling post myocardial infarction. (Organized by the American College of Cardiology) **Anaheim, USA**. 16 March. 1997.
35. Mini Course: Treatment of Diastolic Dysfunction. (Organized by the America College of Cardiology), **Anaheim, USA**. 16, March 1997.
36. Mini Course: Management of Ischemic Heart Disease in Diabetic Patients. (Organized by the American College of Cardiology) **Anaheim, USA**. 16 March 1997.
37. Mini Course: Left Ventricular Diastolic Dysfunction. (Organized by the American College of Cardiology), **Anaheim, USA**. 18, March 1997.

38. Mini Course: Recent Advances in Hypertrophic Cardiomyopathy. (Organized by the American College of Cardiology) **Anaheim, USA**. March 18, 1997.
39. First International Summit on Doppler Tissue Imaging. **Madrid, Spain**. 24-25, April. 1997.
40. Seminars; Update in Preventive Cardiology [Hypertension, Hyperlipidaemia, Sudden Death and Ischaemic Heart Disease. **Edinburgh, UK**. 25-28, September 1997.
41. Mini Symposium, Diabetes Mellitus and Gastrointestinal Disturbances. **Umeå, Sweden**. 9, October 1997.
42. Updates in Continuous Ischaemia Monitoring and Pacemaker Treatment, **Umeå, Sweden**. 17-18, October 1997.
43. Mini Symposium, Natriuretic Peptide as a Diagnostic and Prognostic Tools. **Stockholm, Sweden**. 23, October 1997.
44. Mini Symposium, Diabetes Mellitus and Myocardial Infarction. **Umeå, Sweden**. 6, November 1997.
45. Contrast Enhanced Echocardiography in Synergy With New Technologies. **Prag, Czech Republic**. 4, December 1997.
46. Tissue Velocity (TVI) Imaging; Current Status. **Prag, Czech Republic**. 5, December 1997.
47. Mini Symposium, ECG verified Left Ventricular Hypertrophy in Hypertension. With Special emphasis on Cornell Diagnostic Criteria. **Umeå, Sweden**. 9, December 1997.
48. International Symposium, Antithrombotic Strategies in Acute Coronary Syndrome. **Stockholm, Sweden**. 5, March 1998.
49. Mini Symposium, Athletes Heart. **Umeå, Sweden**. 19, March 1998.
50. 14th Annual International Conference on Recent Advances in Echocardiography. **Atlanta, USA** March 28. 1998.
51. Satellite Symposium: Vascular Health as a Therapeutic Target in Cardiovascular Disease: The role of Endothelin. **Atlanta, USA**, March 28. 1998.
52. Mini Symposium: Difficult Arrhythmias Interpretations. Atlanta, USA. March 30, 1998.
53. Symposium, Practical Clues in Adult Echocardiography. **Rio De Janeiro, Brazil**. April 23, 1998.
54. Symposium, Digital Echocardiography, Live Imaging Transmission. **Rio De Janeiro, Brazil**. April 23, 1998.
55. Symposium, Contrast Echocardiography Today and Tomorrow. **Rio De Janeiro, Brazil**. April 24, 1998.



56. Round Table Discussion, Contrast Echocardiography Rio **De Janeiro, Brazil**. April 25, 1998.
57. Joint Symposium-ESC-BCS-ISFC: Atrial Fibrillation: Current Insight and Treatment Modalities. **Rio De Janeiro, Brazil** April 28, 1998.
58. All Antagonists: New Agents for Treatment of Hypertension. **Gothenburg, Sweden**. May, 7-8th, 1998.
59. Nordic Symposium: Over bridging the Concept of Pharmacology to Clinical Practice in Drug Development: With focus on Modern Clinical Cardiovascular Pharmacology. **Stockholm, Sweden**. May 12th, 1998.
60. International Symposium in Cardiac Pathology. **Uppsala, Sweden**. 10-14, June 1998.
61. Unstable Coronary Syndromes Consensus and Controversy **Stockholm, Sweden**. 4, September 1998.
62. Evista -raloxifen in the prevention of osteoporosis in post-menopause women. **Stockholm, Sweden**. 10, September 1998.
63. Acute and Chronic Coronary Syndrome. Leiden, Netherlands, 23-26, October 1998.
64. Heart failure with Special Emphasis on BNP. **Glasgow, England**, 26-29, November 1998.
65. The Continuum of Coronary Care. **Uppsala, Sweden** 22-23, January 1999.
66. 15th Annual International Conference on Recent Advances in Echocardiography. New Orleans, USA. March 6, 1999.
67. Symposium: The Role of Magnetic Resonance Imaging in Cardiology. **New Orleans, USA**, 5, March 1999.
68. Mini-Symposium, Atrial Fibrillation in the Second Millennium. **New Orleans, USA**. March 6, 1999.
69. University Teachers Course [obligatory prior to applying for the Associate Professor title in Sweden]. **Umeå, Sweden**. March 22-26, 1999.
70. National Postgraduate Course: Modern and advanced concepts on Arrhythmias. **Aronsborg, Sweden**. October 27-29, 1999.
71. European principal investigators: Recover Clinical Trial. **Paris, France**. January 22-23, 2000.
72. Scandinavian principal investigators: Recover Clinical Trial. Scholarships Granted in a National Wide Competition: **Vienna, Austria**. January 19-20, 2000.
73. 16th Annual International Conference on Recent Advances in Echocardiography. **Anaheim, USA**. 11th March 2000.

74. Clinical Cardiology, one-day symposium Organized by the American College of Cardiology. **Anaheim, USA**. March 2, 2000.
75. Mini Course: Diastolic Function: How to Use Doppler Tissue Imaging. Organized by the American College of Cardiology. **Anaheim, USA**. March 13, 2000.
76. Pericarditis- Myocarditis. Organized by the American College of Cardiology. **Anaheim, USA**. March 13, 2000.
77. Arrhythmias in Heart Failure Organized by the American College of Cardiology. **Anaheim, USA**. March 13, 2000.
78. Update in Clinical cardiology, one-day symposium, ACC, **Orlando, USA**, 20001.
79. Atrial Fibrillation from Bedside to Genetic, Mini symposiums, ACC, **Orlando, USA**, 20001.
80. Mechanism of Anti-arrhythmic Drugs. Mini Symposium, **ACC, Orlando, USA**, 20001.
81. Applications of ACC/AHA clinical Guidelines in Acute Coronary Syndrome. ACC, **USA, New Orleans** 2004.
82. Updates in Heart Failure, ACC, **USA, New Orleans** 2004.
83. First International Conference on Diabetes Mellitus and its Complications, **Al-Ain, UAE** 6-9th March 2006
84. Doppler Tissue Imaging applications and pitfalls. XV World Congress of The International Cardiac Doppler Society, **Tyumen, Russia**, 24-26 May 2006.
85. Symposium, Heart Failure Management Today and Tomorrow, Joint World and European Congress of Cardiology. **Barcelona**, September 2, 2006.
86. Symposium, International Day for the Evaluation of Abdominal Obesity (IDEA), Joint World and European Congress of Cardiology. **Barcelona**, September 3, 2006.
87. Redefinition of Myocardial Infarction: The Global Myocardial Infarct Task Work. Joint World and European Congress of Cardiology. **Barcelona**, September 3 2006.
88. Interactive Session, Cardiac Arrhythmias. Joint World and European Congress of Cardiology. **Barcelona**, September 3, 2006.
89. Management of Atrial Fibrillation In Elderly Population. Joint World and European Congress of Cardiology. **Barcelona**, September 5, 2006.
90. Management of Atrial Fibrillation in Heart Failure. Joint World and European Congress of Cardiology. **Barcelona**, September 5, 2006.
91. Symposium, Beta Blockers in Heart Failure, **Nice, France**, 24-26 November 2006.
92. Heart Failure Symposium, **Dubai, UAE**, 15-04-2007, (5 CME Hours)
93. ACC Scientific Session (ACC-07), **New Orleans, USA**, 2007, (20 CME Hours)

94. ACC Scientific Session (ACC-08), **Chicago, USA**, 2008, (15 CME Hours)
95. ACC Scientific Session (ACC-09), **Orlando, USA**, 2009, (20 CME Hours)
96. 2nd World Heart Failure **Chandigarh, India** Feb 2010, (10 CME Hours)
97. ACC Scientific Session (ACC-10), **Atlanta, USA**, 2010 (15 CME Hours)
98. 2nd International Trauma Course, (2011) **Al-Ain-UAE** (10 CME Hours)
99. 28<sup>th</sup> Annual International Conference on Recent Advances in Echocardiography **Chicago, USA 23<sup>rd</sup> March 2012. Case presentation.**
  
100. 29<sup>th</sup> Annual International Conference on Recent Advances in Echocardiography and Allied Techniques (**MRI- CT Scan, Nuclear**) **San Francisco, USA 23<sup>th</sup> March 2012**
  
101. **Second World Heart Failure Society congress**, Chandigarh, India 10-12 February 2010
  
102. Visiting Professor and Faculty of Medicine- Health Sciences, UAEU representative to **Utah University Cardiovascular and Carma Centers, Salt Lake City, USA (26-29 March 2012).**
  
103. 28<sup>th</sup> Annual International Conference on Recent Advances in Echocardiography Chicago, **USA 23<sup>th</sup> March 2012**
  
104. **XVith World Congress of Cardiology**, Echocardiography & Allied Imaging Techniques. September 30 – October 2, **2011, Delhi, India.**
  
105. First Faculty of Medicine and United Arab Emirates University Clinical Research Symposium: Preventing the coming storm of diseases in the UAE, **23-24 March 2011**, Al Ain, UAE.
  
106. **2nd International Conference on Trauma/Critical Care Management and Prevention 21-24 February 2011**, Al-Ain-UAE: **My contribution is (i) Lecture, Role of Echocardiography in Cardiac Trauma (ii) Hand on Practical Session.**
  
107. **Invited Faculty and speaker 2nd World Heart Failure Chandigarh, India. (February 2010)**

108. **Visiting Professor, Albert Einstein Medical Centre [Philadelphia](#), [Pennsylvania](#), USA.** 9-12th March 2010.
  
109. **Invited Faculty and speaker** 27th Annual International Conference on Recent Advances in Echocardiography and Allied Techniques (MRI, CT Scan and Nuclear) **(02-04-2011) New Orleans, USA.**
  
110. World Heart Failure Congress, 13-14th February 2008, **Al-Ain-UAE**
  
111. ACC Annual Scientific Session, **New Orleans, USA.** 2011
  
112. ACC Annual Scientific Session, **Chicago, USA.** 2012
  
113. ACC Annual Scientific Session, **San Francisco, USA.** 2013.
  
114. ACC Annual Scientific Session, **Washington DC, USA.** 2014
  
115. 4<sup>th</sup> World Heart Failure Congress, 11-13th February **2014, Al-Ain-UAE.**
  
116. ACC Annual Scientific Session, March 14 - 16, 2015; **San Diego, California.**
  
117. ACC Annual Scientific Session, April 02 - 04, 2016 **Chicago, Illinois, USA.**
  
118. ACC Annual Scientific Session, March 17 - 19, 2017 **Washington, DC, USA.**
  
119. 6<sup>th</sup> World Heart Failure Congress, 11-13th February 2016, **21-24<sup>th</sup> June 2018. Baku, Azerbaijan**

### Scholarships Granted in a Swedish National Wide Competition:

The Swedish Heart and Lung Foundation Scholarship for Cardiovascular Research, 1990.

1. Uppsala University, Sweden, The Medical Faculty. "Post-doctoral Scholarship" for Cardiovascular Research, 1991.
2. The Swedish Society of Medicine, Scholarship for International Scientific and Research Exchange, 1997.
3. Pfizer Scholarship for International Scientific and Research Exchange (Royal Brompton (London-U.K) and John Radcliff (Oxford-U.K) Hospitals, 1997. a national wide Competition.
4. The Swedish Society of Cardiology: International Scholarship for Cardiovascular Research and Development. 1999. (London-U.U) and John Radcliff (Oxford-U.K) Hospitals, 1997.

### International Contact and Study Visits:

1. Study visit to the Department of Cardiology & Echocardiography lab, **Boston University Hospital, Boston, USA**. Exchange of ideas and orientation about the set up of the Echocardiography lab and the usage of computers in Echocardiography analysis. Three days, 1991.
2. Study visit to the Department of Cardiology & Echocardiography, **John Radcliff University Hospital (Oxford, Professor Peter Slight), and Royal Brompton Hospital (Heart & Lung Institute) London, (Professor Andrews Coat), U.K**. Exchange of ideas and Cooperation between Swedish and English Institutions in the field of Cardiovascular Diseases. The Swedish delegates consist of three professors and five consultants. One week, 1997.
3. **Study visit to the Department of Echocardiography (Dr. Derek Gibson) Royal Brompton Hospital (Heart & Lung Institute) London, U.K**. Exchange of ideas and orientation about the setup of the Echocardiography activities and the usage of computers in Echocardiography analysis as well as scientific activities and clinical meetings. Three months, Stockholm, Sweden. 10, September 1998.

### **Teaching Experience and Specific Academic Activities:**

Assuming an academic position, Umeå University, Faculty of Medicine and as a main tutor have had a full responsibility of planning, teaching, training, evaluation and examination of medical students during their rotation in the different sections of the Cardiology Department. On the above-mentioned capacity, I had organized a study visit for 39 Medical Students from Umeå University, Faculty of Medicine, to the Royal Brompton Hospital (Department of Clinical Cardiology) and the National Heart and Lung Institute. During this visit (990110-990117) the students attended:

- Grand Round (Dr. Derek Gibson)
- Ward Round (Prof. Andrew Coats & Prof. Philips Wilson)
- Lecture on Valvular Heart Disease (Rheumatic fever)
- Outpatients Clinic
- The weekly Teaching Echocardiography Round

Organizer of clinical and scientific meetings, at the Heart Centre, Cardiology Division, held weekly in cooperation of the Departments of Thoracic Surgery, Clinical Physiology, Cardiac Anesthesiology and Cardiac Radiology, Umeå University Hospital, Sweden. 1996-1997.

Served as a main tutor in Heart Centre, Cardiology Division, Umeå University Hospital, Sweden, for teaching and training of medical students

Invited Lecturer: Cardiac Involvement in Systemic Sclerosis, The Past, Present and Future. audience the Swedish Society of Scleroderma. 18, October 1996. University of Lund, Sweden

### **International Contribution: Invited Lecturer, Faculty Member Chairperson:**

1. Invited as a Faculty Member; Speaker in the 14th Annual International Conference on Recent Advances in Echocardiography. March 28, 1998. Atlanta, USA.
2. Invited as a Faculty Member; Speaker and Chairperson in the III World Congress of Echocardiography and Vascular Ultrasound. April, 23rd-25th, 1998. Rio de Janeiro, Brazil.

3. Invited as a Faculty Member; Speaker in the 15th Annual International Conference on Recent Advances in Echocardiography. March 6, 1999. New Orleans, USA.
4. Invited as a Faculty Member, Speaker in the 4th World Congress of Echocardiography and Vascular Ultrasound. Cairo-Egypt 19-21, January 2000.
5. Served as reviewer for The Journal of The American College of Cardiology, Circulation and Journal of Human Hypertension.
6. Invited as a Faculty Member, Speaker in the 16th Annual International Conference on Recent Advances in Echocardiography. March 11, 2000. Anaheim, USA.
7. Invited as a Faculty Member, Speaker in the 24th Annual International Conference on Recent Advances in Echocardiography. March 28-29, 2008. Chicago, USA.
8. Invited as a Faculty Member, Speaker in the 25th Annual International Conference on Recent Advances in Echocardiography. March 11-14, 2009. Orland, USA.
9. Invited Faculty and Speaker 2nd World Heart Failure Congress, Chandigarh India, 5th 7th February 2010.

## **Research Experience:**

### **My thesis entitled:**

Non-invasive assessment of left ventricular function in patients with systemic sclerosis: with special emphasis on the long-term cardiac effects of Captopril.

This a methodological and clinical thesis designed among other things to learn non-invasive techniques and to apply them in the diagnosis, initiation of treatment, follow up and assessment of prognosis of cardiovascular diseases. All papers in my thesis were published in pre-reviewed International Journals. My thesis was also publicly defended according to the Swedish and International standard.

## **Thesis Abstrat:**

Systemic sclerosis (SScl) is a multisystemic disease. A fatal outcome is usually due to renal or cardiac involvement. The clinical presentation includes chest pain, arrhythmia, heart failure and sudden death. Little is known about the prevalence of cardiac involvement in SScl.

Left ventricular (LV) function was evaluated in a consecutive series of patients (n=30) with SScl, and compared with age and sex matched controls (n=48), drawn from the general population register. Myocardial perfusion, as well as the long-term effects of ACE inhibition (Captopril) on LV performance was also assessed.

Two-dimensional, M-mode and Doppler echocardiography, carotid pulse tracing, apexcardiography and myocardial scintigraphy were used to evaluate cardiac dimensions, systolic and diastolic LV function, mitral valve function and myocardial perfusion. Neither blood pressure, nor total peripheral resistance differed between patients and controls.

Systolic impairment in patients was documented by abnormal systolic time intervals, increased M-mode mitral E-point to septal separation, reduced septal fractional thickening as well as reduced LV emptying rate. LV structure was abnormal as evidenced by a small LV cavity, increased thickness of interventricular septum as well as LV posterior wall, increased wall thickness to cavity dimension ratio, and increased LV mass index. LV early filling was impaired as evidenced by a low atrial emptying index, decreased peak LV filling rate on M-mode, and reduced LV early filling fraction on Doppler echocardiography. Impaired diastolic function was indicated by increased apexcardiographic a/H ratio, and an increased active to LV early filling velocity ratio (A/E) on mitral Doppler recordings. Diastolic impairment was independent of the systolic abnormalities.

Mitral regurgitation was a common finding in SScl. The presence of mitral regurgitation was not related to the duration of the disease or to the Scleroderma scoring, while the degree of regurgitation was related to the duration of the disease.

Permanent, as well as cold-induced, myocardial perfusion defects were detected in SScl also without clinical evidence of myocardial involvement.

Captopril treatment for a mean duration of one year induced significant improvement of systolic LV function with increased ejection fraction, and decreased pre-ejection period to LV ejection time ratio as well as reduced mitral E-point to septal separation. Also diastolic function improved with increased atrial emptying index and a decrease in the isovolumic



relaxation time, and Doppler peak late to early ventricular filling velocity ratio. Thus, both systolic and diastolic LV function improved. None of the patients reported any side effects during the treatment. Captopril induced no significant changes in LV end-diastolic dimensions, blood pressure, total peripheral resistance or end-systolic wall stress. However, some influence on functional variables from a non-significant decrease in after load could not be excluded. The mechanisms by which Captopril improved measures of cardiac function are unclear.

It is concluded that myocardial impairment is prevalent in patients with SSc. The cold-induced myocardial perfusion defects, possibly due to a Vasospastic process, could be responsible for the development of the patchy myocardial fibrosis described in patients with SSc. A similar path physiologic mechanism may explain the impairment of LV function. Captopril may have beneficial effects on LV performance in patients with SSc.

After my thesis I continue my research to study the possible mechanisms behind the LV dysfunction and hypertrophy in patients with systemic sclerosis by investigating the role of Neurohumoral activation. I studied the effect of Atrial Natrietic Peptides (ANP), Neuropeptide Y (NPY) , Endothelin-1 and Adrenalin/Noradrenaline.

I was not able to demonstrate a significant relation between the prevalence neither of LV diastolic dysfunction and/or hypertrophy and these hormones. Furthermore, neither to NPY nor to Noradrenaline, which implies that heart failure and LV dysfunction in these patients independent of the sympathetic nervous activity.

The results of my research were presented in parts in the international scientific meetings e.g.

- The European Congress of Cardiology (1989)
- The American College of Cardiology Scientific Session (1990)
- World Congress of cardiology (1990)
- The American Heart Association Scientific Session (1991)
- The European Congress of Cardiology (1996)
- World Congress of Echocardiography (1996)
- World Congress of Cardiology (1998)
- World Congress of Heart Failure (2000)

### **Research Interest:**

1. Cardiac Physiology
2. Left Ventricular Function
3. Right Ventricular Function
4. Diastolic Function
5. Electro-Mechanical Activation
6. Echocardiography
7. Cardiomyopathies
8. Heart Failure
9. Neurohormonal Activity
10. Cardiac Manifestation in Association with Systemic Diseases
11. Effect of Mechanical Intervention on Left Ventricular Function (PTCA-CABG)
12. Air Pollution and Cardiovascular Disease
13. Nanomedicine
14. Shock and Anaphylaxis
15. Camels and Dehydration
16. Quality of Life

### **Research Models:**

- (1) Human
- (2) Mice
- (3) Camels

### **Scientific Projects (in Sweden):**

#### **Project I:**

#### **Assessments of Right Ventricular Function in relation to Pulmonary Function in Patients with Systemic Sclerosis and Mixed Connective Tissue Disease.**

This is a Continuation of my Ph.D. project. 2 Ph.D. students are working in this project, one is Studying the Cardiovascular Function and the other with the Rheumatologic and Vascular Function. Pulmonary Function as well as Broncho-Alveolar Lavage (BAL) has also been studied.

## **Project II:**

### **Assessment of Right Ventricular Function:**

It is well known that assessment of right ventricular function in the daily clinical practice is difficult. This is not easy to achieve due to the complex anatomy and geometry of the RV. Both non-invasive and invasive techniques used for the evaluation of right RV function are known for their limitations. Therefore, a simple reliable and easy method is needed. We proposed RVOFT fs% obtained from m-mode as a reliable parameter. We found a significant correlation between this parameter and currently echocardiographic parameters used in clinical practice. This project is dealing with validating this parameter with the Golden Standard Technique, invasive (Cardiac catheterization) and non-invasive (MRI). 30 patients with heart failure (III), primary and secondary pulmonary hypertension were studied. The project is collaboration between Mälars Hospital, Uppsala, Gothenburg and Umeå University Hospitals.

## **Project III:**

### **Genetics Characterization of patients with Hypertrophic Cardiomyopathy:**

Relation between Mutation, Cardiac Function, Histology, Arrhythmogenicity and Neurohumoral Activation. Cooperation between Sweden (Umeå University) and Paris, France

## **Project IV:**

### **Umeå General Population Heart Study (UGPHS):**

Since 1998 we have systematically investigated 300 healthy individuals (150 man and 150 Women), 20-90 years old carefully and randomly selected from Umeå General Population Register for evaluation of Mechanical and Electrical cardiac function and Pulmonary Function in relation to Neurohumoral Activity and Oxidative Stress Hormone. Two Ph.D. students are working in this project.

## **Project V:**

### **Quality of Life:**

A specially designed questionnaire about quality of life was collected from patients with Systemic Sclerosis, Hypertrophic Cardiomyopathy and Participants in UGPHS. The data is under preparation.

### **Research Collaboration present and the past:**

#### **(1) USA**

##### **Harvard Medical School**

Professor A Bellou

#### **(2) Sweden**

##### **(i) Umeå University Medical College**

- Professor Anders Waldenström, Heart Center.
- Associate Professor Per Lindqvist, was my Ph.D. Student, Department of Clinical Medicine.
- Associate Professor Stellan Mörner, (co-supervisor) was a Ph.D. study, Department of Clinical Medicine
- Professor Solbritt Rantapää-Dahlquist, Department of Rheumatology.
- Dr. Grethe Neumann-Andersen (collaboration) was a Ph.D. Student (SScl)

**(ii) Uppsala University Medical Faculty**

- Professor Göran Hedenstjerna, Head Department of Clinical Physiology, Uppsala Academic Hospital.
- Associate Professor Gerhard Wikström Associate Professor in Experimental Cardiology and Senior Consultant Cardiologist.
- Professor Fred Nyberg,

**(iii) Gothenburg University Medical Faculty**

- Professor Thomas Hedner, Head Department of Clinical Pharmacology, Sahlgren's University Hospital.

**(iv) Karolinska Institute -Medical University**

- Professor Kenneth Caidahl, Department of Clinical Physiology, Sahlgren's University Hospital.

**(3) France:**

On Genetically Aspects of Cardiomyopathy:  
Institute de Myologie, Batiment Babinski, Hôpital de la Salpêtrière, Paris

- \* Professor Ketty Schwartz.
- \* Pascale Richard, Ph.D.
- \* Bernard Hainque, Ph.D.

**(4) New Zealand:**

University of Otago, Christchurch

- \* Professor MG Nicholls
- \* Chris M Frampton
- \* Tim G Yandle

## **Supervision of postgraduate studies:**

Within my research activities I am supervising and co-supervising 5 Ph.D. students. Three of them did their Ph.D:

### **1. Per Lindqvist**

Thesis Title: Right heart function in health and disease: a Doppler echocardiography and Doppler tissue imaging study

Publicly defended on 2005-01-28, Umea University The medical Faculty, Sweden. Sweden.

### **2. Fred Bukachi**

Thesis Title: Ventricular Long Axis Function: Amplitudes and Timings: Echocardiographic Studies in Health and Disease

Publicly defended on 2004-06-04, Umeå University The medical Faculty, Sweden. Sweden.

### **3. Stellan Mörner**

Thesis Title: Hypertrophic Cardiomyopathy in Northern Sweden: with special emphasis on molecular genetics

Publicly defended on 2004-05-28, Umeå University The medical Faculty, Sweden. Sweden.

## **Research Grants (1999-2005):**

The Swedish Heart and Lung Foundation	135,000 USA \$.
Umeå University	20,000, USA \$
The Swedish Heart & Lung Foundation	70,000 USA \$.
Others	30,000, USA \$.

### **Experience in Clinical Trials:**

1. First and principal investigator Systemic Sclerosis and Captopril Trial.
2. Co- investigator in Hypertrophic Cardiomyopathy Trial. [Genetic study of a population with Hypertrophic Cardiomyopathy: Relation between Mutation Type, Cardiac Function, Histology and Arrhythmias, Sweden and France.
3. One of the investigators DIGAMI 2 (Diabetes -Insulin-Glucose- in Acute Myocardial Infarction (Scandinavian Multi Central Study).
4. First and principal investigator in Recover Study (Research into Etanercept: Cytokine Antagonism in Ventricular Dysfunction) in Eskilstuna, International Multi Central Study).

### **Previous Specific Experiences in my homeland 1979-1984:**

1. Member of the team for organization of the Sudanese Physicians Association 8th Medical Conference. Khartoum, Sudan 1982.
2. Organizer of K.N.T.H. Clinical Meetings and Seminars. 1981-1984.
3. Head of the team of the hypertension and diabetic clinics held in Khatmia Health Centre for patient's follow-up .1980-1984.
4. First assistant to the head of the medical commission team to Atbra Labour Area for investigations of causes of absenteeism in particular among the railway employees. 1982.
5. Participated in the teaching sessions for medical students and nurses training in K.N.T.H. 1981-1984.
6. Organized the clinical training for the final medical students in the Dept. of Pediatrics and Medicine (K.N.T.H.). 1980-1984.
7. Organized and planned the emergency and on call duties rota, Department of Medicine, K.N.T.H. 1981-1984.
8. Member of the Medical Team for selecting cardiac patients for advance cardiac surgery outside Sudan (in co-operation with Dr. Siddiq I. Khalil, Sudan's Senior Cardiologist). 1981-1984.

9. Member of the High Committee set up by the Sudanese Minister of Health for the evaluation, planning and defining the training of junior doctors 1983.
10. Representative of the Sudanese Doctors in the Pan Arabic Doctors Meeting (Algeria) for the organization and development of the co-operation in the fields of medical services and scientific co-operation. 1983.
11. Participated in the setting up of the exchange program (Sudan Project) between Sweden (Uppsala University-The Swedish Cooperation Program (Bits)) and Sudan (Ministry of Health), (1985-1986). Proposed by the Minister of Health at that time to act voluntary as his representative.
12. Participated in the organization of Sudan Medical Journal. 1983.
13. Secretary General Of the Sudanese Doctors Union. 1981-1984.
14. First vice president of the Swedish Sudanese Cooperative Association- Stockholm. 1985-1988.



## Personal Interest:

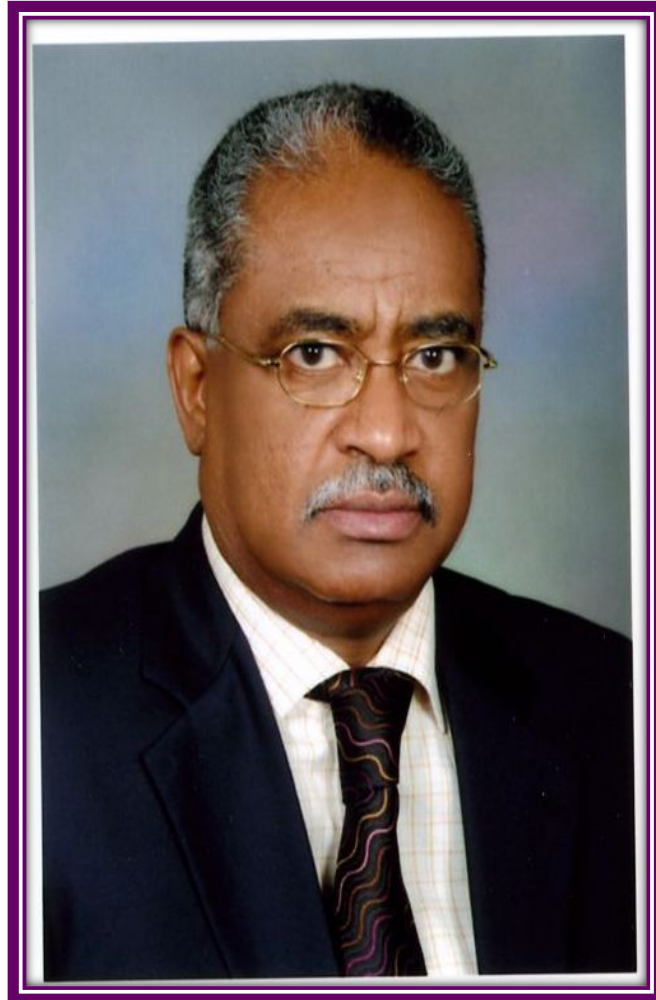
### Hobbies

Photography and Reading  
 Music (Jazz-Blues & Classics)  
 Folklore Music and Dance  
 Museums and Archaeology  
 Nature, Travel and Tourism  
 Computer Science  
 Preservation of Environment and Wildlife Activist  
 Collection of Stamps-Cameras-Watches-Coins-Ties

### Travel experiences:

Egypt (1973-78, 1984, 1993, 2006, 2011), Syria (1976), Iraq (1976), Turkey (1976, 2011, 2012), Greece (1976, 1983), Saudi Arabia (1984, 1990, 2006), Algeria (1984), Tunisia (1984), Great Britain (1980, 1982, 1984, 1987, 1988, 1990, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2006, 2008, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018), Belgium (1982), Netherlands (1982, 1986, 1999), Germany (1982, 1988, 1990), Denmark (1987), Yugoslavia (1988), Norway (1989), Hungary (1989), Austria (1989, 2000), France (1989, 1993, 2000), Japan (1990, 2014), Philippine (1990), Thailand (1990), Hong Kong (1990) USA (1990, 1991, 1993, 1995, 1996, 1997, 1998, 1999, 2001, 2001, 2003, 2004, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2017), Italy (1991, 2012), Iceland (1991) Mexico (1991), Switzerland (1993), Cyprus (1993), Brazil (1994, 1998), Argentine (1993), China (1996, 2008), Spain (1997, 2002), Czech Republic (1997), Ireland (1998), Korea (2001), Malaysia (2001, 2007), Singapore (2001), Vietnam (2000), New Zealand (2002), Australia (2002, 2014), Jordan (2005), Sweden (1984- 2003, 2004, 2005, 2006, 2016, 2018). Russia (2006), Kuwait (2007), Morocco (2007), Indonesia (2013), Iran (2014), Cuba (2015), Sri Lanka (2017), South Africa (2018), Azerbaijan (2018), Bahrain (2018) and UAE (2002; 2003 – 2018, 2019, 2020), Portugal (2019), Chile (2020), Peru (2020), Bolivia (2020), Colombia (2020).

## Publications List



Elsadig Elagib Kazzam

M.B.CH.B., M.D., Ph.D., SCIM., SCC., FRCP. (London), FESC.,  
FHFA., FACC., FAHA

Professor, Med. Dr., and Senior Consultant in  
Clinical Cardiology

## **Published Articles:**

1. Siddiq Ibrahim-Khalil , El Fateh Z El Samani \*, Gizouli Dafalla , A.Rahem Rabeh, **El Sadig Kazzam**. Pattern of cardiovascular disease in Sudan. **Sudan Medical Journal 1984; 20; 4:25-29.**
2. R. Gustafson, F. Mannting , **E. Kazzam** , A. Waldenström and R. Hällgren. Cold induced reversible myocardial ischaemia in systemic sclerosis. **Lancet 1989;ii: 475-9.**
3. **E. Kazzam**, A. Waldenström ,J. Landelius \*, R. Hällgren , A. Arvidsson and K. Caidahl . Non-invasive assessment of left ventricular diastolic function in systemic sclerosis. **J Int Med 1990; 228:183-192.**
4. **Elsadig Kazzam**, Kenneth Caidahl , Roger Hällgren , Christer Johansson and Anders Waldenström. Mitral regurgitation and diastolic flow profile in systemic sclerosis. **Int J Cardiol 1990; 29:357-363.**
5. **E. Kazzam**, K. Caidahl \*,R. Hällgren ,R. Gustafson , J. Landelius and A. Waldenström . Non-invasive assessment of left ventricular systolic function in systemic sclerosis. **Eur Heart J 1991; 12:151-156.**
6. Caidahl K and **Kazzam E.** Left ventricular hypertrophy and duration of systemic sclerosis. **J Int Med 1991; 229:384-6.**
7. **Elsadig Kazzam** , Kenneth Caidahl, Tomas Gustafsson , Rolf Gustavsson , Roger Hällgren ,Johan Landelius and Anders Waldenström. Two-dimensional echocardiographic dimensions in systemic sclerosis and a matched reference population. **Am J Non-Invasive Cardiol 1991; 5: 343-352**
8. **Kazzam E.** Non-invasive assessment of Left Ventricular Function in Patients with Systemic Sclerosis: With Special Emphasis on the Long-Term Cardiac Effects of Captopril (Thesis, Department of Internal Medicine, Medical Faculty. Uppsala University, **ISBN 91-5542627-1) September, 1990.**
9. **E. Kazzam** , K. Caidahl , R. Hallgren, R. Gustafsson and A. Waldenstrom. Non-invasive evaluation of long-term cardiac effects of captopril in systemic sclerosis. **J Intern Med 1991; 230:203-212.**

10. **E. Kazzam** , K. Caidahl, T. Hedner, J. Hedner, R. Hällgren and A. Waldenström. Atrial natriuretic Peptide and its Relation to Cardiac Dimensions and Function in Patients with Systemic Sclerosis: Two - Dimensional Echocardiographic Study. **Presse Med 1994; 23:565-70.**
11. **Elsadig Kazzam** , Kenneth Caidahl, Tomas Hedner, Jan Hedner and Anders Waldenström. Atrial natriuretic peptide: relation to left Ventricular filling properties in systemic sclerosis. **Int J Cardiol 1994; 47:151-156.**
12. **Elsadig Kazzam, M.D., PH.D.**, Kenneth Caidahl, M.D., PH.D.,\* Tomas Hedner M.D., PH.D. and Anders Waldenström, M.D., PH.D. Functional Explanation for Increased Atrial Natriuretic Peptide in Systemic Sclerosis. **J Clin. Cardiol 1995; 18:647- 652.**
13. **Elsadig Kazzam \*** , Anders Waldenström , Tomas Hedner , Jan Hedner and Kenneth Caidahl. Plasma Endothelin may be Pathologic in Patients with Systemic Sclerosis. **Int J Cardiol 1997;60: 31-39.**
14. Kenneth Caidahl, **Elsadig Kazzam**, Jonas Lidberg, Grethe Neumann Anderson, Joakim Nordanstig, Solbritt Rantapää Dahlqvist, Anders Waldenström, Ronny Wikh. A new concept in echocardiography: Harmonic imaging of tissue improves structural visualization without the use of contrast agent. **Lancet 1998; 352:1264-70.**
15. **Elsadig Kazzam**, Kenneth Caidahl , Tomas Hedner , Jan Hedner and Anders Waldenström.. Plasma Noradrenaline and Neuropeptide –Y may not be of Primary Importance in the Pathophysiology of Cardiac Involvement in Systemic Sclerosis. **Scand J Rheumatol 1999; 28:238-43.**
16. Stellan Mörner, Pascale Richard, **Elsadig Kazzam**, Bernard Hainque, Ketty Schwartz and Anders Waldenström. Deletion in the Cardiac Troponin I gene in a Family from Northern Sweden with Hypertrophic Cardiomyopathy . **J Molecular and Cellular Cardiology 2000; 32:521-525.**
17. Grethe Neumann Andersen, Kenneth Caidahl, **Elsadig Kazzam**, Ann-sofi Petersson, Anders Waldenström, Lucia Mincheva-Nilsson and Solbritt Rantapää-Dahlqvist,. Correlation between Increased Nitric Oxide Production and Markers of Endothelial Activation in Systemic Sclerosis. Correlation to Level of Soluble E-selectin. **Rheumatism and Arthritis 2000; 43:1085-1093.**

18. Mohammed Yousufddin, Michael Y. Henein, Marcus Flather, Duolao Wang, Waqar Shamim, Christine O'Sullivan, Michael Kemp, [Elsadig Kazzam](#), Nicolas R Banner, Mohammed Amrani and Andrew J S Coats. Incremental Importance of Peak Exercise Plasma Levels of Endothelin-1 and Natriuretic Peptides in Chronic Heart Failure. **J Cardiovasc Pharmacol 2001; 38:468-473.**
19. M. Henein, P. Lindqvist, D. Francis, S. Mörner, A. Waldenström and [E. Kazzam](#). Tissue Doppler analysis of age-dependency in diastolic ventricular behaviour and filling: a cross-sectional study of healthy hearts (the Umeå General Population Heart Study). Umeå General Population Heart Study. **Eur Heart J 2002;23:162-171.**
20. Grethe Neumann-Andersen, Lucia Mincheva-Nilsson, [Elsadig Kazzam](#), Gunnar Nyberg, Natalia Kharitonova, Ann-sofi Petersson, Solbritt Rantapää-Dahlquist, Anders Waldenström and Kenneth Caidahl. Assessment of Vascular Function in Systemic Sclerosis: Indications of Development of Nitrate Tolerance as a Result of Enhanced Endothelial Nitric Oxide Production. **Rheumatism & Arthritis 2002; 46:1324-1332.**
21. P. Lindqvist, M. Henein and [E. Kazzam](#). Right Ventricular Outflow-tract Fractional Shortening: A New and Simple Method for Assessment of Right Ventricular Function. **Eur J Echocardiogr 2003; 4:29-35.**
22. F. Bukachi, J.R. Clague, A. Waldenström, [E. Kazzam](#) and M.Y. Henein. Clinical outcome of coronary angioplasty in patients with ischaemic cardiomyopathy. **Int J Cardiol 2003;88:167-174.**
23. Stellan Mörner, Pascale Richard, [Elsadig Kazzam](#), Urban Hellman, Bernard Hainque, Ketty Schwartz and Anders Waldenström. Identification of the Genotypes Causing Hypertrophic Cardiomyopathy in Northern Sweden. **J Molecular and Cellular Cardiology 2003; 35:841-849.**
24. Hormaz Dastoor, Bassam Bernieh, Yousef Boobes, Samra Abouchacra, Elhadi Eltayeb, Mustafa Nur Elhuda, [Elsadig Kazzam](#), Enyoma N.Obineche, M.Gary Nicholls. Plasma BNP in patients on maintenance haemodialysis: A guide to management? **J Hypertension 2005, 23:23-28.**
25. [E. Kazzam](#), BA Ghurbana, EN Obineche and MG Nicholls. Hypertension – Still an Important Cause of Heart Failure? **Journal of Human J Hypertension 2005, 19:267-275.**

26. F. Bukachi \*, A. Waldenström , S. Morner, P. Lindqvist , M.Y. Henein , [E.Kazzam](#) Pulmonary venous flow reversal and its relationship to atrial mechanical function in normal subjects - Umeå General Population Heart Study. **Eur J Echocardiogr 2005, 6:107-116.**
27. Stellan Mörner, Urban Wiklund, Peter Rask, Bert-Ove Olofsson, [Elsadig Kazzam](#) and Anders Waldenström Parasympathetic dysfunction in patients with hypertrophic cardiomyopathy; a clinical study based on heart rate variability. **Clin Physiol Funct Imaging. 2005, 25:90-99.**
28. Fikri M. Abu Zidan, Ken Dittrich, Janusz Czechowski, [Elsadig Kazzam](#), Establishment of a course for Focused Assessment Sonography for Trauma **Saudi Med J. 2005;26(5).**
29. Per Lindqvist, Anders Waldenström, Michael Henein, Stellan Mörner, and [Elsadig Kazzam](#), Regional and Global Right Ventricular Function in Healthy Individuals Umeå General Population Heart Study. **Echocardiography 2005, 4:305-314.**
30. Per Lindqvist, Anders Waldenström, Gerhard Wikström , [Elsadig Kazzam](#). The use of isovolumic contraction velocity to determine right ventricular state of contractility and filling pressures A pulsed Doppler tissue imaging study. **Eur J Echocardiogr 2005, 6:264-270.**
31. Per Lindqvist, Kenneth Caidahl, Grete Neuman-Andersen, Cecilia Ozolins, Solbritt Rantanpää-Dahlqvist, Anders Waldenström and [Elsadig Kazzam](#). Disturbed Right Ventricular Diastolic Function in Patients with Systemic Sclerosis. **Chest. 2005, 128:755-763.**
32. S. Mörne, U. Hellman, O. B. Suhr, [E.Kazzam](#) and A. Waldenström . Amyloid heart disease mimicking hypertrophic cardiomyopathy\*. **Journal of Internal Medicine 2005; 258:225-230.**
33. Per Lindqvist, Anders Waldenström, Gerhard Wikström, [Elsadig Kazzam](#). Right Ventricular Myocardial Isovolumic Relaxation Time and Pulmonary Pressure. Pulsed Doppler Tissue Imaging in resurreption of Burstin's Nomogram. **Clin Physiol Funct Imaging. 2006, 26:1-8.**
34. Per Lindqvist, Anders Waldenström, Gerhard Wikström, [Elsadig Kazzam](#). Potential Use of isovolumic contraction velocity in assessment of left ventricular contractility in man: A simultaneous pulse Doppler tissue imaging and cardiac catheterization. **Eur J Echocardiogr. 2006 15;134(2):270-2,**

35. Hussein F. Saadi, [Elsadig Kazzam](#), Bahlul A. Ghurbana, M. Gary Nicholls\*. Correction of low vitamin D status, among Arab Women will prevent heart failure, and improve cardiac function in established heart failure. **Eur J Heart Fail.** 2006, 8:694-6.
36. Frank C. Howarth, Noura Al Shamsi, Maryam Al Qaydi, Mariam Al Mazrouei, Anwar Qureshi, S.I. Chandranath, [Elsadig Kazzam](#) & Abdu Adem. Effects of Brain Natriuretic Peptide on Contraction and Intracellular Ca<sup>2+</sup> in Ventricular Myocytes from Streptozotocin-Induced Diabetic rat. **Ann N Y Acad Sci.** 2006, 1084:155-165.
37. Stellan Mörner, Per Lindqvist , Anders Waldenström, and [Elsadig Kazzam](#). Right Ventricular Dysfunction in Hypertrophic Cardiomyopathy As Evidence By The Myocardial Performance Index. Doppler Tissue Imaging. **Int J Cardiol.** 2008, 124:57-63.
38. Hussein Saadi, S. George Carruthers, Nicolaas Nagelkerke , Fatima Al-Maskari, Bachar Afandi, Richard Reed, Miodrag Lukic, M Gary Nicholls , [Elsadig Kazzam](#), Kais Algawi, Jumaa Al-Kaabi, Charles Leduc, Sufyan Sabri, Mohamed El-Sadig Seham Elkhumaidi, Mukesh Agarwal, Sheela Benedict. Prevalence of diabetes mellitus and its complications in a population-based sample in Al Ain, United Arab Emirates. **Diabetes Res Clin Pract.** 2007 78:369-377.
39. Grethe Neumann Andersen, Kenneth Nilsson , Jamshid Pourazar , Tillie-Louise Hackett , [Elsadig Kazzam](#), Anders Blomberg , Anders Waldenstrom , Jane Warner, Solbritt Rantapaa-Dahlqvist , Lucia Mincheva-Nilsson, Thomas Sandström . Bronchoalveolar matrix metalloproteinase 9 relates to restrictive lung function impairment in systemic sclerosis. **Respir Med.** 2007, 101: 2199-2206.
40. F. Bukachi , A. Waldenström , S. Morner , P. Lindqvist , M.Y.Henein and [E. Kazzam](#). Age dependency in the timing of mitral annular motion in relation to ventricular filling in healthy subjects. Umeå General Population Heart Study. **Eur J Echocardiogr.** 2008, 9:522-529.
41. Mark Henein, Avin Calcuttea , Agnes Kaba , Dejan Maras, Marilyn Stanton , Mary Kelly , [El-Sadig Kazzam](#), Anders Waldenstrom , Michael Y. Henein . Atrial fibrillation (mechanistic view point). **Int J Cardiol.** 2009 15;134(2):270-2
42. Abderrahim Nemmar Subramanian Dhanasekarn, Javed Yasin, Hajer Ba-Omer, Mohamed A. Fahim, [Elsadig Kazzam](#), Badreldin H. Ali. Evaluation of the direct

systemic cardiopulmonary effects of diesel particles in spontaneously hypertensive rats. **Toxicology**. 2009, 262: (1) 50-56.

43. Hussein Saadi , Nicolaas Nagelkerke , Jumaa Al-Kaabi , Bachar Afandi , Fatima Al-Maskari and **Elsadig Kazzam**. Asia Screening strategy for type 2 diabetes in the United Arab Emirates. **Pac J Public Health**. 2010 Jul;22 (3 Suppl):54S-59S.
44. Hussein Saadi, Jumaa Al-Kaabi, Mahmoud Benbarka, Ali Khalili, Wael Almahmeed , Nicolaas Nagelkerke, Alessandro Salustri, Laila Abdel-Warth, Awad Al Essa, Javed Yasin, Bayan Al-Dabbagh and **Elsadig Kazzam**. Prevalence of undiagnosed diabetes and quality of care in diabetic patients followed at primary and tertiary clinics in Abu Dhabi, United Arab Emirates.. **Rev Diabet Stud**. 2010;7(4):292-302.
45. Abderrahim Nemmar, Suhail Al-Salam, Shaheen Zia, Fatima Marzouqi, Amna Al-Dhaheeri, Deepa Subramaniyan, Javed Yasin, Badreldin H. Ali and **Elsadig Kazzam** Contrasting actions of diesel exhaust particles on the pulmonary and cardiovascular systems, and the effect of thymoquinone. **Br J Pharmacol**. 2011, 164(7): 1871-1882.
46. M. AlHaj, **E. Kazzam**, N.J. Nagelkerke, F. Nyberg , M. G. Nicholls and A. Adem. Effects of Dehydration in the Presence and Absence of the Angiotensin Receptor Blocker Losartan on Blood Constituents in the Camel. **J of Physiological Sciences** 2011.
47. Mahmoud AlHaj Ali, Abdu Adem, Irwin S. Chandranath , Sheela Benedict, Javed Y Pathan, Nicolas Nagelkerke, Fred Nyberg, Lynley K. Lewis ,Tim G. Yandle, Gary M. Nicholls, Chris M. Frampton, **Elsadig Kazzam**. Responses to Dehydration in the One-Humped Camel and Effects of Blocking the Renin-Angiotensin System. **PLoS One** 2012; 7(5):e37299.
48. Mahmoud AlHaj, **Elsadig Kazzam**, Nahid Amir, Fred Nyberg, Abdu Adem. Changes in Insulin like Growth Factor-1 and IGF-Binding Protein-3 in Camel Plasma during Dehydration in the Presence and Absence of Losartan. **Comp Clin Patho** (2012), 21:1745-1749.
49. Abderrahim Nemmar, Haider Raza, Deepa Subramaniyan, Javed Yasin, Annie John, Badreldin H. Ali and **Elsadig E. Kazzam**. Short-term Systemic Effects of Nose-Only Cigarette Smoke Exposure in Mice: Role of Oxidative Stress. **Cell Physiol Biochem**, 2013; 31 (1):15-24.
50. Abdu Adem, Mahmoud Al Haj, Sheela Benedict, Javed Yasin, Nicolas Nagelkerke, Fred Nyberg, Tim G. Yandle, Chris M. Frampton, Lynley K. Lewis, M Gary Nicholls, **Elsadig Kazzam**. ANP and BNP Responses to



Dehydration in the One-Humped Camel and Effects of Blocking the Renin-Angiotensin System. **PLoS One** 2013;8(3):57806.

51. Subramanian Dhanasekaran, Abderrahim Nemmar, Elhadi H. Aburawi, [Elsadig E. Kazzam](#), Abdishakur Abdulle, Moufida Bellou, Paul Michel Mertes<sup>6</sup> Nathan Shapiro, Bruno Laviolle, Abdelouahab Bellou. Glyburide, a K<sup>+</sup><sub>ATP</sub> channel blocker, improves hypotension and survival in anaphylactic shock induced in Wistar rats sensitized to ovalbumin. **Europ J Clin Pharmacology** 720 (2013):166-173.
52. Mahmoud Alhaj Ali<sup>1</sup>, [Elsadig Kazzam](#), Naheed Amir, Fred Nyberg and Abdu Adem. Effects of Dehydration and Blockade of Angiotensin II AT1 Receptor on Stress Hormones and Anti-Oxidants in the One-Humped Camel. **BMC Vet Res.** 2013; 9:232.
53. Abderrahim Nemmar, Sumaya Beegam, Priya Yuvaraju, Javed Yasin, Mohamed A Fahim, [Elsadig E Kazzam](#), Ibrahim Alhaddabi and Badreldin H. Ali. Potentiation of cisplatin-induced nephrotoxicity by repeated exposure to diesel exhaust particles: An experimental study in rats. Accepted for publication. **Exp. Bio.Med.** 2014;239:1036-1044.
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12. [Kazzam E](#), Caidahl K. and Waldenström A. Wall Motion Abnormalities in Patients with Systemic Sclerosis: Relation to Left Ventricular Systolic Function. 2nd World Congress of Echocardiography and Vascular ultrasound. Beijing, China. May 1996. Poster presentation.
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60. [Kazzam E](#), Severe Dilated Cardiomyopathy Following Massive Myocardial infarction, TTE & MRI study. 29<sup>th</sup> Annual International Conference on Recent Advances in Echocardiography **San Francisco, USA 8<sup>th</sup> March 2013. Case presentation.**
61. [Kazzam E](#), **Invited International Speaker** Special Lecture: Right Ventricular Function/Failure Challenges: Emphasis on the Role of Echocardiography in Health and Disease. **23<sup>rd</sup> Biannual Sudanese Physicians Congress, Khartoum, Sudan. 21-23 February 2014.**
62. [Kazzam E](#), **Invited International Faculty and Speaker**, 30<sup>th</sup> Annual International Conference on Recent Advances in Echocardiography and Allied Techniques (**MRI- CT Scan, Nuclear**) Washington, **USA 28<sup>th</sup> March 2014**
63. [Kazzam E](#), Keynote Lecture” Right Ventricular Function and Failure. **4<sup>th</sup> World Heart Failure Society, 11-13 December 2014, Alain, UAE.**
64. [Kazzam E](#), Heart Failure in the Middle East. **4<sup>th</sup> World Heart Failure Society, 11-13 December 2014, Alain, UAE.**
65. [Kazzam E](#), Pathophysiology of Diastolic Heart Failure. **4<sup>th</sup> World Heart Failure Society, 11-13 December 2014, Alain, UAE.**
66. [Kazzam E](#), Invited Speaker, Assessment of Right Ventricular Remodelling in Health and Disease: Echocardiographic Approach. **4<sup>th</sup> Biannual International Iranian Heart Failure Submit, 30 April – 01 May 2014, Tehran-Iran**
67. [Kazzam E](#), Invited Speaker, Heart Failure Society: what we can do in Developing Countries. **4<sup>th</sup> Biannual International Iranian Heart Failure Submit, 30 April – 01 May 2014, Tehran-Iran.**
68. [Kazzam E](#), Invited speaker and Chairman, Guidelines in Acute Heart Failure. Invited Speaker and Chair/co-chair, Global Network on Emergency Medicine Conference, **Global Network on Emergency Medicine Conference, 25<sup>th</sup> – 29<sup>th</sup> April 2014. Dubai, UAE.**

69. **Kazzam E**, Faculty and Invited speaker, Subarctic Stenosis, TTE & MRI study. 31<sup>th</sup> Annual International Conference on **Recent Advances in Echocardiography San Diego, USA 12 March 2015. Case presentation.**
70. Lecture, Harvard Medical School Seminar Series, Department of cardiovascular Medicine: **“The Forgotten Neighbour” Right ventricular Remodelling in Health and Disease: Review of Literature and 30 years of our own Research Experience and Contribution to the Literature.** Harvard Medical School, Department of Cardiovascular Medicine Boston, USA 29 July 2015.
71. **Kazzam E**, Faculty and Invited speaker, Tricuspid Regurgitation, Pulmonary Hypertension and Right Atrial Remodelling TTE, TEE and Right Cardiac Catheterization study. 32<sup>nd</sup> Annual International Conference on **Recent Advances in Echocardiography Washington, USA 16 March 2017. Case presentation.**
72. **Kazzam E**, Faculty and Invited speaker, **6<sup>th</sup> World Heart Failure Society Congress 21-24<sup>th</sup> June 2018. Baku, Azerbaijan. Professor J W Remme Keynote Lecture” Right Ventricular Function and Failure:** Cardiac Remodelling in Patients with Obstructive Sleep Apnoea: Emphasis on Left Ventricular Diastolic and Atrial Function
73. **Kazzam E**, **Heart Failure in the Middle East, 6<sup>th</sup> World Heart Failure Society Congress 21-24<sup>th</sup> June 2018. Baku, Azerbaijan**