***CURRICULUM VITAE***

***Dr Shah Khalid Mubarak***

***MRCP (Ireland), MRCP (Glasgow)***

***Diploma in Therapeutics (Cardiff)***

***MSc Cardiology Trinity College Dublin (Ireland)***

***Fellowship Interventional Cardiology ( Ireland)***

***Member of European Society of Cardiology (ESC)***

***Member of European Association of Percutaneous Intervention (EAPCI)***

PERSONNEL DETAILS;

Name Dr Shah Khalid Mubarak

Address for correspondence 32 Kribensis Manor, Clonee, Co.Meath, Dublin 15

Marital status Married

Mobile telephone number 0862668438

E mail address shahmubarak@gmail.com

Registrations;

Medical council of Ireland MCRN 155642 Specialist Register

Education;

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| Primary medical qualification MBBS (1995-2000) |
| Date of graduation 23rd Oct. 2000 |
| Distinctions Anatomy,Biochemistry,Ophthalmology. |
| University Baqai Medical College, University of Karachi, Pakistan. |
| Higher qualification General Professional Training GPT (Dec.06) Royal College Of Physicians Of Ireland. |
|  MRCP Ireland (July 07) Royal College Of Physicians Of Ireland. |
|  MRCP Glasgow (Nov 09)  Royal College Of Physicians And  Surgeons Of Glasgow. |
|  Diploma in Therapeutics (June10) From Cardiff University. |
|  MSc Cardiology session 2012-2013 (Sep.13)  Trinity College Dublin (TCD) Ireland |
| Courses Hermitage Clinic Annual GP Study day ( Nov 19)Irish Cardiac Society meeting, Galway, Ireland ( Oct 19)Advance Cardiac Life Support, Heart code, Dublin, Ireland (Aug 19)ESC congress, Munich, Germany. (Aug 18)ESC congress, Barcellona, Spain (Aug 17)HST Leadership in Clinical Practice, RCPI, Dublin, Ireland (May 17)HST Ethics I, II, III and 4,RCPI, Dublin Ireland (Apr17)Irish Anticoagulation forum, Dublin, Ireland (Apr 17) Advance Cardiac Life Support, Heart code (Mar 17) MMUH, Dublin, Ireland. Performing audit, RCPI, Dublin, Ireland (Dec 16)A new page in the management of coronary artery disease (Nov 16)RCPI, IrelandMastering communications , RCPI, Ireland (Oct 16)Electrical Therapies Meeting, Connolly Hospital, (Jan.16)Dublin. Ireland.Cardiac MRI Course, Bristol, UK (Jan 16)Irish Cardiac Society Meeting, Killarney, Ireland (Oct 15)Electrical Therapies Meeting, Connolly Hospital, Dublin, Irelan (Jan 15)Interventional Cardiology Case Review and (Jan15)And Discussion, Herbert Park, Dublin, Ireland.Advanced Cardiac Life Support, Code Blue (Dec.14)Dublin, Ireland.ESC congress, Barcelona. Spain. (Sep.14)Evolving Management of acute coronary syndromes (Feb 14)Royal College of Surgeons Ireland (RCSI).St James’s Hospital 10th PCI live Course. (Mar.13)Intra-aortic balloon pump(IABP) therapy seminar (Feb.12)Mater Masericordea Hospital, DublinSt James’s hospital 9th PCI live course. (Mar. 12)Bayer anticoagulation forum/seminar RCPI. (Mar.12)Intra-aortic balloon pump(IABP) therapy seminar (June 12)Mater Masericordea Hospital, Dublin. Irish SPR PCI Training Course Galway. (Nov.12) Irish SPR PCI Training Course Galway. (Oct.11)Advanced cardiac life support (ACLS). (July 10)Beacon Hospital.Advanced cardiac life support (ACLS). (June 12)Beacon Hospital. Quality and Compliance Training Course (Feb 10)Good Clinical Practice Online course .(June 10)Research Development Skills (Mar.10)Royal College of Surgeons of Ireland. |
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EMPLOYMENT HISTORY:

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| Hospital Grade Specialty Dates From—to |
| Rehman Medical Institute Consultant Interventional Cardiology 01/02/21- Till datePeshawar, KPK Cardiologist |
| Hermitage Medical Clinic Consultant Interventional Cardiology 01/02/20 – 31/12/20Dublin Cardiologist |
| St Vincent’s University Hospital Interventional Cardiology 10/07/17-31/12/19Dublin Fellow |
| Mater Misericordiae Hospital Registrar Cardiology 14/07/15-09/07/17Dublin. |
| St Vincent’s University Hospital Registrar Cardiology 08/07/13-13/07/15Dublin |
| UPMC Beacon Hospital Registrar Cardiology 01/07/12-07/07/13 Dublin.  |
| UPMC Beacon Hospital Registrar Cardiology 01/07/10-30/06/12 Dublin/St James’s HospitalDublin  |
| Mayo General Hospital Registrar Med/Cardiology 01/07/08-30/06/10Castlebar. |
| Roscommon County Hospital SHO Medicine 01/01/07-30/06/08Roscommon |
| Mallow General Hospital SHO Medicine 01/07/06-31/12/06 Mallow. |
| Midwestern Regional Hospital SHO Hematology 01/01/06-30/06/06Limerick |
| Midwetern Regional Hospital SHO Medicine 01/01/05-31/12/05Nenagh. |
| Beaumont Hospital, Dublin Clinical Cardiology 01/09/04-31/12/04 Attachement  |
| Agency Headquarter Hospital Rotational Medicine 02/10/02-02/04/04 Batkhela,Pakistan scheme  |
| Rehman Medical Institute Clinical Urology 02/02/02-01/10/02Peshawar, Pakistan Attachment |
| Mardan Medical Centre Clinical Cardiology 9/11/01-01/02/02 Mardan,Pakistan Attachment  |
| Lady Reading Hospital, Internship G.Surgery 19/05/01-18/11/01 Peshawar, Pakistan |
| Lady Reading Hospital, Internship G.Medicine 19/11/00-18/05/01Peshawar, Pakistan. |

CLINICAL EXPERIENCE;

Consultant Interventional Cardiologist at RMI ( Rahman Medical Institute) 01/02/21 till date;

I have recently joined Rehman Medical institute as full time interventional Cardiologist providing cardiac care for acute and chronic heart conditions. RMI is the only Centre provide Primary PCI service for STEMI in the region. I participate in 1:5 rota for PPCI. We have the opportunity to teach to our Trainee Medical Officer (TMO’s) and medical students. We are having Grand Rounds Once per week which is keeping our CME updated even in tis COVI-19 era.

Consultant Interventional Cardiologist at HMC (Hermitage Medical clinic) 01/02/20 – 31/12/20;

I am highly qualified professional cardiologist with talent and passion for diagnosing, intervening and treating wide range cardiac disorders. I am worked as a full time consultant interventional cardiologist with rights and access to cardiac catheterisation laboratory at HMC. Hermitage Medical Clinic is tertiary level hospital in private sector equipped with state of the the art cardiac catheterisation laboratory. I have admission rights to manage patients from emergency department, inpatients and out patients department. I had two cath lab session per week. I perform Transesophageal echocardiography, right and left heart studies, coronary stenting, complex coronary stenting, Protected and unprotected LMS stenting, Rotablator and shock wave balloon facilitated angioplasty, Single and dual chamber Pacemakers, ICD’s and cardiac resynchronisation deices, Transcatheter Aortic valve implantation (TAVI). I am responsible for CCU, HDU, emergency department and wards for complex cardiovascular patients consultation and evidence based management. I have been up to date in yearly CME activity.

Cardiology Interventional Fellow SVUH 14/07/17-31/12/2019

Supervising consultants; Dr Martin Quinn, Dr McCreery, Dr Niall Mulvihill, Dr John Erwin, Prof David Keane, Prof Ken McDonald)

I started my Interventional Fellow in Cardiology at SVUH in July 2017, Since joining I have worked with all the consultants. I have developed a close relationship with the entire team including my peers, junior doctors nursing staff and premedical staff involved in the demanding department of cardiology. I have worked closely with them and believe that have been able to provide clouding my peers and junior docs the service expected of a senior member of staff and have helped them where I can. The time spent has been a major step forward in my clinical growth, The various MDT’s and scientific sessions have been a paramount in my growth as a physician allow me to express myself and absorbing the the insight and thinking process of my vastly more experienced colleagues. Patient care and management is primary and my experience here has made me a better physician.

I have had extensive experience in managing both acute and chronically ill patients. I have done more than 1000 diagnostic angiograms independently as a first operator. I have done 900 PCIs as a first operator and have assisted in more than 500 PCIs in both elective and primary settings.I am well versed in both femoral and radial approaches. I am well versed in complex PCI including bifurcation PCI, protected and unprotected LMS , rotablator facilitated PCI. I assisted four cases as a second operator in shockwave lithotripsy facilitated PCI .I have done 35 trans-catheter aortic valve implantation(TAVI) as a first operator and assisted as a second operator in 90 TAVI’s. I have done more than 500 TOEs independently. I have also supervised specialist registrars(SPR’s) during their cath lab rotations. I have also inserted more than 230 permanent pace-maker insertions independently.I have implanted 90 automated implantable cardioverter defibrillators(AICD) as a first operator including single chamber, dual chamber and CRT-D. I have done 50 endomyocardial biopsies as a first operator.Other procedures that I have done are right heart catheterisations, pericardiocentesis, temporary pacemaker insertions,central line insertions, transthoracic echocardiography, holter monitor reporting. I have assisted regularly in Electrophysiology procedures including AVNRT Ablations, and Pulmonary vein Isolation procedures. I have actively taken part in the ongoing teaching programme of our department.

Registrar (MMUH); (14/07/15-09/07/17)

Supervising Consultants; (Prof Gavin Blake, Prof Niall Mahon, Prof Ivan Casserly,

Dr Hugh McCann, Dr John Keaney, Prof Jim O’Neill, Dr Joe Galvin, Dr Ted Keelan)

Mater Misericordiae University Hospital (MMUH) is 600 bed hospital and a tertiary referral centre. MMUH is a major centre for cardiology offering 24 hours interventional cardiology services. MMUH houses the National Heart and Lung Transplant program. MMUH is the cardiac transplant centre in the country and post cardiac transplant patients are followed in a dedicated cardiac transplant OPD. Cardiology department at MMUH also provides care to the patients with adult congenital heart disease in the country.

MMUH provides Primary PCI services for patients with acute ST elevation myocardial infarction (STEMI). Six cardiology registrars and one interventional fellow participating in 1:6 onsite on call rostered for cardiology. We rotate on monthly basis between cath lab registrar, Consults registrar, clinic registrar and CCU registrar covering 12 bed CCU and 30 bedded cardiology ward (sacred heart ward). I attended weekly grand rounds, journal club and cardiothoracic conference. From July 2015 to July 17 I have been a part of a busy and dynamic cardiology centre at the Mater Hospital. In a short span I have inserted balloon pumps and have been involved in continuous care of patients with indwelling balloon pumps. During the cathlab rotation I have assisted in a high volume of acute percutaneous coronary interventions and complex PCI.I have observed PFO closures and renal artery denervation procedures. I have also had an opportunity to be involved in the care of post-operative patients with CABG and prosthetic valves. Grown up congenital heart disease and care of the patients awaiting cardiac transplants has certainly broadened my cardiology horizons.

Cardiology Registrar (SVUH); (08/07/2013-13/07/2015)

Supervising consultants; (Prof Ken McDonald, Dr Martin Quinn, Dr Mulvihill

 Prof David Keane, Dr Charles McCreery, Dr Rory O’Hanlon, Dr John Erwin).

St Vincent’s University Hospital (SVUH) is a 479 beds hospital and a tertiary referral centre for cardiology having six cardiologist and two cardiothoracic surgeons.

SVUH offers primary/Rescue PCI for patients with acute ST elevation myocardial infarction (STEMI).

 In this job, I was involved with:

On-call 1: 5 for cardiology and Primary PCI for ST elevation MI. At SVUH we rotate between three hospital- St Michael’s Hospital where we attend dedicated heart failure clinics from Monday to Friday(8:00AM to 5:00PM) and general cardiology clinic every 2nd Wednesday for 1 month. At Loughlin’s town Hospital we cover for 1 month providing cardiac consultations for general medical patients, doing transthoracic echo list on Wednesday afternoon and doing cardiology clinic at every Wednesday morning and every 2nd Friday. We then rotate on monthly basis between CCU (also covering CPAU and AE), Cardiac consultation for inpatient (also covering clinics Four/week), Imaging reporting all cardiac investigation (Reporting 24 hours holter monitoring, event monitoring, 24 hours ABPM and exercise stress testing) and performing DC cardioversion and Transesophageal Echo.

As a registrar I gained extensive experience in general cardiology, I was responsible for care of 10 bed CCU and 20 bed cardiology ward admitted patients. On weekly basis I will attend three ward rounds with consultant & two independent ward rounds and supervising the activities of junior staff. During imaging rotation I did reporting of ECG’s, Holter monitors, 24 hours ambulatory BP monitor, Transthoracic echo, EST and performing TOE’s.I performed elective cardioversions and urgent cardioversions for unstable arrhythmias. As a cardiology consult registrar I was responsible for initial evaluation of consults from all medical and surgical specialties and carrying out necessary cardiac investigations and will discuss the complex cases with consultant for guidance and management. During cath lab rotation I had the opportunity to perform and assist a case mix of diagnostic angiograms, graft studies, right heart studies, angioplasties, complex angioplasties, rotablator facilitated angioplasties, Chronic total occlusion PCI. One full day / week (Tuesday) for EPS, RF Ablations +/- diagnostic angios and implantations of single or dual chamber pacemakers and ICD

During this job I had the opportunity of teaching medical students of 3rd and final year from university college Dublin (UCD).

I attended weekly cardiothoracic conference, weekly cardiology teaching sessions and journal clubs.

 Cardiology Registrar (Beacon/SJH); (01/07/10 --- 07/07/2013)

Supervising Consultants.(Dr Robert Kelly, Dr Dermott McCaffery,

Dr.Niall Mulvihill, Dr Brendan Foley.)

Beacon hospital is a 130 bed hospital. As a cardiology registrar I worked from 9:00AM to 9:00PM Monday to Saturday at Beacon Hospital covering Cardiology ward inpatients, acute cardiac patients presenting to A/E, CCU, inpatients cardiology consults from different specialties (General medicine, General surgery, orthopaedics, oncology, gastroenterology, anaesthesia and vascular surgery) and perform transthoracic eco (TTE) for inpatients consults. The next week I attended the cardiac cath lab Monday to Friday.

From 01/07/12 to 30/06/12 while working at Beacon hospital I was attending cardiac cath lab every second week Monday to Friday in St James’s hospital 9:00AM to 5:00PM with one oncall every second week.

Cardiology department Beacon Hospital provided the following services.

Non invasive cardiology tests: ECG’s, Stress ECG’s, Echo, Bubble studies, 24

hours blood pressure monitoring, 24 hours Holter monitor, and event monitoring.

Invasive cardiology procedures. TOE’s, permanent pacing systems implants

(Single/Dual Chamber pacemakers) and AICD’s implants.

Electrophysiological studies (EPS) and radioablation. Diagnostic coronary

angiogram, graft studies, right and left heart studies, percutaneounstransluminal

interventions including single, multi-vessel and complex multi-vessel angioplasty

and stenting, left main stem stenting, sephanous venous stenting, recanalization

of chronic total occlusion using double arterial sheaths, percutaneous closure of

PFO/ASD.

In this job, I became well used to the different devices and techniques used in

coronary interventions, e.g.: distal protection devices for grafts interventions,

thrombectomy devices (X-cisor or pronto catheter etc), use of pressure wires.

(FFR –fractional flow reserve) to see the clinical significance of a borderline

stenotic lesion and the use of IVUS, for looking at the minimal luminal diameter

and post stenting to look for the optimal deployment of the stenting especially in

the left main stem stenting.

In Beacon hospital I was committed to cardiac cathlab assisting diagnostic angiograms, Single, multi-vessel stenting and complex multi-vessel stenting, EP studies, Pacemaker insertions, ICD insertions, ASD and PFO closure I did rounds for CCU patients, cardiology inpatients independently and with consultants. I was oncall for casualty for acute cardiac patients from Monday to Saturday from 8:00 AM to 8:00PM.I attended cardiology consults for inpatients general medical, orthopaedic, general surgery, cardiothoracic and oncology patients. I performed transthoracic echo for inpatients consults when needed.

The next week I rotated to St James’s hospital and assist a variety of invasive procedure including diagnostic angiogram, single and multi-vessel stenting, pacemaker insertion, ICD insertion, EP studies and radioablations. I did oncall rota in 1:8 in St James’s Hospital. During the oncall I was responsible for looking after the cardiac patient presenting to the casualty, patients in the CCU and on cardiac wards (Robert Adam ward), accepting the patient from peripheral hospitals for primary percutaneounstransluminal coronary intervention (PPCI), setting up the cathlab and assisting for PPCI.

Medical/Cardiology Registrar (01/07/08 to 30/06/2010)

In this job I gained extensive experience in internal medicine and non invasive cardiology. During this job I was participating in fortnightly diabetic clinic alternating between castlebar and Ballina. This job had helped my experience and responsibility in the management of complex medical cases.

In this job I was directly involved in care of patients with acute medical emergencies, admitting such patients in the casualty and their immediate care in ICU and in the medical wards with onsite on call commitment of 1; 5.

In looking after patients on medical wards, ICU and attending medical referrals from other specialties and attending the medical and diabetic clinics.

Assessment of patients in medical assessment unit. Medical assessment unite plays an important role in the hospital, taking off the pressure from accident and emergency department, helping reduce the waiting times and ensuring that patients received most appropriate health care.

In supervising SHO for the warfarin clinic.

In teaching informal weekly tutorials to third and final year NUI Galway medical students and students doing there electives from Germany

When clinically indicated, in doing the following emergency and routine procedures.

* Lumbar puncture.
* Bone marrow aspiration and biopsy.
* Pleural aspiration (diagnostic and therapeutic).
* Abdominal paracentesis (diagnostic and therapeutic)
* Emergency and elective cardioversion
* In the interpretation of 24 hour BP monitoring, and Holter monitoring.
* In doing and interpreting exercise stress test.
* In doing transthoracic echo.

SHO (01/01/05 to 30/06/08)

Working as a SHO I was directly involved in the care of patients with acute medical emergencies and chronic conditions admitting such patients from casualty and MAU and was involved in the follow up in ICU and wards with onsite on call commitment of 1:4.

I was actively involved in the journal clubs, X rays conference and case conferences.

I had performed practical procedures under supervision.

I had attended outpatients and was responsible for seeing old patients and new cases referred to clinic and discuss it with my consultant.

In last one year I was covering as a registrar when my registrar was on holidays.

Research;

1. Poster presented at ESC Congress, Barcelona. Spain on Sept 14.

Mubarak SK, McMahon G, Daly C

***Head to Head Comparison of risk stratification scores HEART vs TIMI score for patients with undifferentiated chest pain and correlating with frequencies of in-hospital Major Adverse Cardiac Events (MACE).***

St James’s Hospital Dublin, Ireland.

1. Poster presented at ESC Heart Failure meeting at Athens-Greece on 17-20 May 2014

 Ashfaq M1, Mubarak SK1, Kelly R2, McCaffrey D.

***Safety and concerns of cardioversions for atrial fibrillation on novel oral anticoagulants*** (DABIGATRAN and RIVAROXIBAN); UPMC Beacon Hospital,

Sandyford, Dublin 18.

1. Poster presented at ESC Heart Failure Meeting at Lisbon, Portugal

May 2013

 Mubarak SK1, Ashfaq M2, Kelly R2, McCaffrey D.

***Safety and concerns of cardioversions for atrial fibrillation on novel oral anticoagulants*** (DABIGATRAN and RIVAROXIBAN); UPMC Beacon Hospital,

Sandyford, Dublin 18.

Publications;

1. ***The Impact Of Teicoplanin In Prevention Of Implantable Cardiac Electrical Devices Infection. A Single Centre Improvement Audit.***

RB Pharithi, S Mubarak, P flynn, L Murphy, M Hennessy, D O’Hare, F Rathore, M Omar, S Murad, M Quinn, C Mccreery, J Erwin.

Heart Oct 2018, 104(Suppl 7) A8-A9:DOI:10.1136/heartjnl-2018-ICS.8

**2) *Aortic assessment at time of TOE/DCCV- an overlooked component of the CHA2DS2- VASC SCORE.***

D O’Hare, K McDonald, M Quinn, D Kelly, S Mubarak, D Cadogan, L Murphy, M Omar.

Heart Oct 2018, 104 (Suppl 7) A8-A9; DOI: 10.1136/heartjnl-2018-ICS.8

3) ***Tiger Versus Jadkins Diagnostic catheters in Trans-radial Coronary angiography.***

D Cadogan, S Mubarak, O’Hare, L Murphy, C McCreery.

Heart Oct 2018, 104 (Suppl 7) A8-A9; DOI: 10.1136/heartjnl-2018-ICS.8

4) ***Head to Head Comparison of risk stratification scores HEART vs TIMI score for patients with undifferentiated chest pain and correlating with frequencies of in-hospital Major Adverse Cardiac Events (MACE).*** Mubarak SK, McMahon G, Daly

European heart Jounal 2014, abstract supplement 35, 983

5) ***Electrical cardiversion with novel oral anticoagulants-safety and coagulation profile*** Ashfaq M1, Mubarak SK1, Kelly R2, McCaffrey D.

European Journal of Heart Failure 2014 european Society of Cardiology, 16 (Suppl.2), 5-365

6) ***Safety and concerns of cardioversions for atrial fibrillation on novel oral anticoagulants*** (DABIGATRAN and RIVAROXIBAN);

Mubarak SK1, Ashfaq M2, Kelly R2, McCaffrey D.

European Journal of heart Failure supplements (2013) 12 S72-S235:doi:10.1093/eurjhf/hst009

Audit;

1. Completed audit cycle of cardiac implantable electrical devices (CIED) related pneumothorax by adaptation of fluoroscopy guided axillary vein access at St Vincent University Hospital, Dublin
2. To evaluated the incidence and predictors of cardiac implantable electrical devices (CIED) related pneumothorax at St Vincent Hospital, Dublin
3. To assess the clinical indication appropriateness on the request form for echocardiography at Mater Hospital Dublin

4) To assess the compliance of prescription by health care professionals in SVUH Dublin

5) To access compliance with ESC or AHA/ACC guidelines in secondary prevention in patients who had NSTE-ACS.

6) Audit on development of electronic prescription for discharged patients from UPMC Beacon Hospital.

7) Audit on Standards of Coronary Catheterization Laboratory (Cath Lab) practice in UPMC Beacon Hospital.

8) Audit on Appropriateness of Urinary Catheter in Medical patients in Mayo General Hospital.

9) Audit on Discharge Medications of COPD, Roscommon County Hospital.

REFERENCES;

Dr Martin Quinn

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St Vincent’s University Hospital, Dublin

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Phone number 01 2214000

Prof David Keane

Consultant Cardiologist & Electrophysiologist

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Phone number 01 2214000

Dr Charles McCreery

Consultant Cardiologist

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Phone number 01 2214000

Prof Niall Mahon Consultant Cardiologist

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