El Campo Memorial Hospital  
Texas, USA

**Curriculum vitae**

**Amina Begum: Diploma in Nursing, Midwifery in Nursing, Bachelor of Science in Nursing, National Council Licensure Examination in Nursing (NCLEX RN)**

Work Address: Department of Intensive Care Unit, Surgical & Medical, (ICU). El Campo Memorial Hospital, Texas. USA

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**EDUCATIONAL EXPERIENCE:**

2015:  **Midwifery in Nursing,** Ayaz Samoon Nursing Institute Karachi 2011:

**Bachelor of Science in Nursing**, Aga Khan University School of Nursing & Midwifery

2009:   **National Council Licensure Examination in Nursing,** Board of Registered Nursing, California USA

2010:    **H.S.C,** Govt Degree Girls Science and Commerce College Karachi, Pakistan

**PROFESSIONAL EXPERIENCE:**

2021 till date**: Registered Nurse Intensive Care Unit (ICU)** EL Campo Memorial Hospital, Texas. USA

2019-till 2020: **Senior Critical Care Nurse, Cardiac Intensive Care Unit Adult& Peads,** Aga Khan University Hospital, Karachi, Pakistan

2017-2018: **Nurse Manager,** Heart, Lung & Vascular Service Line,

Aga Khan University Hospital, Karachi, Pakistan

2015-2016: **Clinical Nurse Practitioner, Cardiothoracic Surgery Peads & Adult,** Aga Khan University Hospital Karachi, Pakistan

2012-2015: **Clinical Nurse Instructor, Adult & Peads Cardiac Intensive Care Unit,** Aga Khan University Hospital Karachi, Pakistan

2004-2012: **Critical Care Nurse, Adult Intensive Care Unit** Aga Khan University Hospital Karachi, Pakistan

1999-2000: **Registered Nurse, Adult Intensive Care Unit**

Aga Khan University Hospital Karachi, Pakistan

**Licensure and Certifications:**

2022:Certified for Basic Cardiac Life support (BLS)

2021: Certified for Advanced Cardiac Life support (ACLS)

2020: Hemodynamic Monitoring /Swan Ganz/PA Catheter management Course CME hours

2020: Critical Care ICU Adult & Peads refresher Course for CME hours

2020: Heart rhythm and basic 12 lead ECG interpretations refresher Course

2019: Certified for Advanced Cardiac Life support (ACLS)

2019: Hemodynamic Monitoring Course Refresher CME hours

2019: Quality and Patient Safety Refresher CME hours

2018: Participated in learning minds “Speak like a Leader “Session

2017: Leadership and Management Skills/ Development Course

2017: Services Excellence Course, Aga Khan University Hospital Karachi Pakistan

2016: Certificate of Project Management with Corporate Case Study

Aga Khan University Hospital Karachi Pakistan

2017: Pediatric Advanced Cardiac Life support (PALS)

2014: Neonatal Resuscitation (NRP)

2012: Continue Renal Replacement Therapy

2011: Hemodynamic Monitoring /Swan Ganz/PA Catheter management Course CME hours

2009: Intra-aortic Balloon Pump Workshop

2008: Team Leader Development Course

2007: Post-Operative Management of Congenital Cardiac Surgeries

Freeman Hospital Newcastle (UK)

2006: Respiratory Course and Critical Care Course

2006: Invasive and Non-Invasive Ventilator management

2006: Heart rhythm and basic 12 lead ECG interpretations Course

2005: Pacemaker Handling & its Nursing Management

**Position Held:**

2017-2018: **Nurse Manager,** Heart, Lung & Vascular Service Line Aga Khan University Hospital, Karachi, Pakistan

2015-2016: **Clinical Nurse Practitioner, Cardiothoracic Surgery Peads & Adult** Aga Khan University Hospital

2012-2015: **Clinical Nurse Instructor, Adult & Peads Cardiac Intensive Care Unit Aga** Khan University Hospital

**Skills**

* Strong Critical Care ICU/CVICU/CCU background knowledge, on critical hemodynamic management, arrhythmia management, path physiology, and pharmacology.
* Management patients on Ventilator, Intra-aortic balloon pump, pacemaker, Swan Ganz/PA Catheter, and tube feeding efficiently.
* Expert invasive line management (Arterial line, Central venous line, Swan Gaz/PA catheter etc, in critical care areas
* Expertise to handle code blue (ACLS/BLS/PALS)
* Expertise to handle open chest emergencies after open heart in Adults and Peads.
* Expert in thorough assessment, planning, implementation, and evaluation of safe, therapeutic, efficient care for patients.
* Assisting doctors in providing physical assessment and administering treatments, monitoring invasive and noninvasive Hemodynamics
* Expert in 12 lead EKG interpretation
* Expert in ABGs interpretation
* Promotes quality outcomes.
* Strong clinical judgment
* Serves as patient and family advocate in ensuring excellent and satisfying care.
* Handle critical and highly stressful situations with efficiency and composure.
* Strong knowledge on managing vasoactive drips.
* Strong leadership and delegation skills
* Strong computer skills needed for electronic health record documentation.

**PUBLICATIONS:**

• Baloch F, **Khan A,** Kabani A, et al (November 10, 2020) “Role of Dedicated Cardiac Emergency Unit in Early Identification and Management of Acute Myocardial Infarction in a Developing Country of South Asia” Published in Cureus Journal Open Access Original Article. November 10, 2020.

• **A. Khan** & T. Faiz (2018) Reshaping the role of nurses in surgical care: “Access to high quality nursing services is one of the major problems of Pakistan’s health system” Published in The Express Tribune January 10, 2018.

• Andrew C. Argent, R. Balachandran & **A. Khan** (2017) **“**Management of undernutrition and failure to thrive in children with congenital heart disease in low- and middle-income countries” Cambridge University Press, 2017.

• **A. Khan** & A. Abdullah (2017) **“**Impact of International Quality Improvement Collaborative on congenital heart surgeries”*. (Published in H*eart bmj *on April 13, 2017)*

* **Khan. A** & Mehar.H (2016) “On-table Extubation after Open Heart Surgery in Children: An Experience from a Tertiary Care Hospital in a Developing Country” *journal of Congenital Heart Disease, Volume 11, Issue 1 January/February 2016 Pages 58–62*

• Akhtar.M.I. & **Khan. A.** (2014). Safety profile of fast-track Extubation in pediatric congenital heart disease surgery patients in a tertiary care hospital of a developing country: An observational prospective study*” Journal of Anesthesiology Clinical Pharmacology. vol 30(3): 355–359*

• Kisha. A. B & **Khan. A.** (2014). “Distinctive Hemodynamics in the Immediate Post

Operative Period of Patients with a Longer Cardiac Intensive Care Stay Post Tetralogy of Fallot Repair” journal *of Congenital Heart Disease” Volume 10,Pages 346–353.*

• Merchant.Q & **Khan. A.** (2014). “Enteral versus Intravenous Potassium Supplementation in hypokalemia in post cardiac surgery Pediatric cardiac intensive care patients: prospective open label randomized control trial (EIPS*)****.”*** *BMJ Open 2014; 4:e005124. Doi: 10.1136/bmjopen-2014-005124.*

**Scientific Oral, Poster Presentations, and invited Talks**

• Khan. A. (2020) Quality and patient safety project presentation “*Excellence is our quest.”* in 9th World Congress on Nursing and Healthcare at Philadelphia, USA

• Khan. A. (2017) The impact of establishment of Cardiac Emergency Unit in early identification and management of Cardiac cases on the outcomes: ‘20th national Health Science Research Symposium’ The Aga Khan University, Karachi Pakistan.

• Khan. A. (2016) Pediatric Nurse Practitioners in Cardiothoracic Surgery: Implementation of training program “19th Nations Health Sciences Research Symposium” The Aga Khan University, Karachi Pakistan

• Khan. A. (2014) Quality and patient safety project presentation in quality Grand Round that is “*Quality Initiative:* International Quality Improvement Collaborative (IQIC) for Congenital Heart Surgeries” The Aga Khan University, Karachi Pakistan.

• Khan. A. (2013) Quality and patient safety project presentation in quality Grand Round that is *“Improving Patient Safety by Reducing & Eradicating Acinetobacter in CICU.* The Aga Khan University, Karachi Pakistan.

• Khan. A. (2011) Poster presentation on “Prevention of surgical site infection in congenital heart surgeries” The Aga Khan University, Karachi Pakistan.

• Khan. A. (2011) Poster presentation on “Stress, an invisible epidemic” The Aga Khan University, Karachi Pakistan

• Khan. A (2010) “Presentation on cancer on mental health “The Aga Khan University, Karachi Pakistan.

• Khan. A. (2010) “Research presentation in International Nurses Day “The Aga Khan University Karachi Pakistan.

• Khan. A (2010) Book review and presentation of in the “City by the Sea “The Aga Khan University, Karachi Pakistan

**Quality Projects:**

**2019**: Remodel the clinical Pathway for Post-Coronary Artery Bypass Grafting (CABG) patients. a literature reviews.

**2018**: Develop proficiency of clinical rounds by management to identify high risk patients and prevent hospital associated harms

**2016:** Formulated comprehensive discharge teaching templates and implemented discharge helpline service in Heart, Lung and Vascular Service Line

**2017:** The impact of establishment of Cardiac Emergency Unit in early identification and management of Cardiac cases on the outcomes.

**2013: International Quality improvement Collaborative (IQIC) Surgery:**

In 2013 We (AKUH) enrolled to international quality improvement collaboration surgery (IQIC) with the development of a database to track clinical outcomes of in-hospital and 30-day mortality, surgical site and bloodstream infections, and nutritional status, among others for congenital heart surgery at Aga Khan University Hospital, Karachi Pakistan.

**2012:** Developed evidence based on an integrated Cost-effectiveness of Clinical Pathway for Post-Coronary Artery Bypass Grafting (CABG) patients.

**Nurse Career Development of Colleagues at AKU:**

**2018:** Trained group of junior nurses in cardiac intensive care unit on Swan Ganz/PA catheter management in Adult patients

**2014:** Mentoring group of BScN students at Aga Khan University Hospital (SONAM) in cardiac ICU to complete their practicum and Support learning with a context of practice that reflects healthcare and educational policies, managing change to ensure that professional needs are met within a learning environment that also supports practice development.

**2014:** Trained CVICU Nurses and Technicians in emergency exploratory sternotomy: tamponade, hemorrhage, acute profound hypotension after cardiac surgery.

**2014:** Arranged IQIC webinar sessions collaboration with Boston Children Hospital team for Peads surgery PCICU residents, Nurses, and technicians at AKUH on ***Module 3: Safe preoperative practice and bacterial sepsis.***

**2013:** Enrolled AKUH congenital heart surgery program with International Quality Improvement Collaborative for Congenital Heart Disease. IQIC is a collaboration of hospitals around the world working towards improving care in low- and middle-income countries provides benchmarking data for healthcare professionals and guides quality improvement efforts.

**2013:** Trained group of junior nurses in cardiac intensive care unit “Management patient on Intra-Aortic Balloon Pump”.

**2013:** Conduct session of newly joined nurses on Pacemaker management TPM/PPM and sign off the checklist.

**2013:** Organized session and hands-on skills for RNs and Technicians on advanced cardiac life support (ACLS) and Basic life support (BLS) to ensure learners are receiving the highest quality training possible.

**2013:** Arranged IQIC webinar sessions collaboration with Boston Children Hospital team for Peads surgery PCICU residents, Nurses, and technicians at AKUH on ***Module 2: Reducing surgical site infections and bacterial sepsis.***

**2012:** Trained group of newly join nurses in cardiac intensive care unit on management patient on mechanical ventilator in both specialty (Adult and Peads).

**2012:** Designed and implement comprehensive critical care orientation modules and new RN orientation pathway for novice critical care nurses and trained Nurses as per pathway

**2012:** Trained group of nurses in cardiac intensive care unit on management of mechanical ventilator invasive and noninvasive in Adult and peads specialty.

**SYMPOSIUM & CONFERENCE**

**2020**: Moderate for 2 days international nursing conference that is “9th World congress nursing and health care 2020” in Philadelphia, USA.

**2018**: Attended five days training session on Electronic Health Record (EHR) in Kenya Tanzania.

**2016:** Conducted two days’ workshop on prevention of Blood Stream Infection and Ventilated Associated Infection**.**

**2017:** Conducted two days’ workshop on Hemodynamic and Pa catheter management

**2012**: Attended three days on IQIC conference in Armed Force Institution of cardiology in Rawalpindi

**2007**: Attended one week’s seminar on management of ventilated patients

**2007**: Attended three weeks symposium on post-operative management of Intensive care Management in Peads congenital cardiac surgery in Newcastle Freeman Hospital (UK)

**2006:** Attended three days symposium on E Health

**Achievements /Awards**

**2020**: Quality and patient safety project. “*Excellence is our quest. “Poster Presentation* was awarded in 9th World Congress on Nursing and Healthcare at Philadelphia, USA*.*

**2015:** Quality project: Impact of International Quality Improvement Collaborative of congenital heart surgeries “program at AKUH was awarded the 2015 IQIC Improvement Science Award at the 11th Global Forum of Humanitarian Medicine in Cardiology and Cardiac Surgery

**2007:** Best Performance Award in Cardiac Intensive Care Unit, Aga Khan University Hospital Karachi,

**2006**: Best Intensive Care Nurse award, Aga Khan University Hospital Karachi

**Voluntary Services:**

**2018:** Clinical assessment, screening and conducted health teaching for Hyderabad Sindh community population for both adult and Peads.

**2009:** Conducted health teaching on the importance of vaccination, boiling water and diet in community population side area Matrovill.

**2004:** Member Medical Health Service (volunteer) 2004 Conducted Swine Flu Teaching session in Matrovill religious center Karachi

**2006:** Participated in administering Tetanus vaccine in community 2006

**Membership:**

● STTI Member (Sigma Theta Tau International) 2004 to date

**Computer Skills:**

* MS-Office and other Internet based programs. Skilled in creating effective poster/oral presentations.