

إتقان
Itqan

مركز تطوير المهارات الإكلينيكية والإبداع
Clinical Simulation and Innovation Center



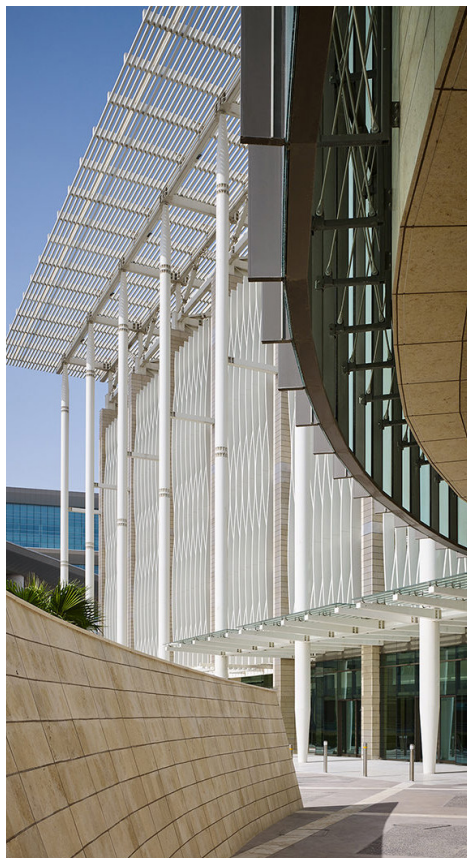
ANNUAL EXECUTIVE REPORT 2021

ITQAN CLINICAL SIMULATION AND INNOVATION CENTER



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OUR MISSION

“To transform healthcare education through innovative, active simulation strategies, supported by research in collaboration with the greater community”




OUR VISION

“To be recognized globally as a center of excellence for transforming healthcare education leading to improved patient outcomes”

ITQAN
Clinical Simulation & Innovation
Center



Integrity

Processional, Ethical, Respectful, Trustworthy, and Safe Learning Environment

Team Passion

Spirit, Motivation, Trust, Thrive, and Unity

Quality Service

Supportive, Consistent, Outcomes-oriented, Excellent Communication, and Fair

Active Learning Environment

Cutting-Edge Technology, Learner-Centeredness, Evidence-Based Practice, Engaged Interactive Learning, and Realistic Environment

Networking & Collaboration

Socially Responsible, Community Outreach, New Partnerships, Research, and Innovation



Message from the Director of Medical Education

Qatar's leadership strongly supports developing infrastructure to support education and training toward achieving the nation's overall health and educational goals. Medical Education is an important component of achieving health and well-being of Qatari citizens, residents, and guests.

As part of Hamad Medical Corporation (HMC), the Medical Education Department is committed to providing the highest quality education and training of Qatar's diverse healthcare workforce, while supporting high caliber research in the educational, biomedical, and health sciences fields.

Education and training occur in a variety of formats and locations. While it is valuable for clinicians and students to learn within the clinical environment of hospitals and clinics, some training is best accomplished in a learning environment that provides an opportunity for repetitive practice that leads to mastery learning of technical and non-technical skills.

Itqan Clinical Simulation and Innovation Center, as part of the Medical Education Department, is one of the largest simulation centers in the world and is purpose-built to be a training facility for healthcare workers and students across Qatar and the region. This building was designed for innovative use of space and houses state-of-the-art equipment the same as that found

in true clinical environments. From the large 400-seat auditorium to the individualized training provided by virtual reality and robotic simulators, Itqan Clinical Simulation and Innovation Center hosts many types of simulation activities. The large skills labs, patient rooms, labor and delivery suites, and operating theatres support acquisition of psychomotor skills, as well as enhance ability to communicate, prioritize, and improve teamwork. Individual clinic rooms provide the space needed for learning assessment skills and participating in OSCE exams, or objective structured clinical examinations.

As patient care becomes increasingly complex, leading to more specialized clinical practice, a broad adoption of simulation-based curricula into medical education and training promotes improved quality and safety of patient care. Itqan Clinical Simulation and Innovation Center provides a psychologically safe environment for clinicians to practice new techniques and enhance skills, while knowing that no harm will come to patients while they are learning. Mistakes are expected and learning is enhanced through the power of feedback and structured debriefing methods.

As an Academic Health System, continuing professional development in the areas of patient safety and quality improvement is one of our core principles. The Itqan Clinical

Simulation and Innovation Center will lead the State of Qatar in helping clinicians, as well as the country's healthcare professions students, to positively impact patient health and well-being. Itqan Clinical Simulation and Innovation Center's future is promising as a regional leader in providing the education and training that enhances safe patient care.

Kind regards,



Dr. Abdullatif Mohammed AlKhal
MBBCh
Director of Medical Education

Message from the Executive Director of Itqan Clinical Simulation and Innovation Center

Thank you for your interest and support of the work of the Itqan Clinical Simulation and Innovation Center. The leadership of Hamad Medical Corporation, and the clinical staff who organize trainings at Itqan have supported extensive growth over our first three years of operation. We are very proud of what Itqan has become in this short time with the support of Dr. Abdullatif Al-Khal, the Director of Medical Education.

From supporting the first airway management course in January 2019 to the latest international conference, the Middle East Forum in 2021, the capacity of the Simulation Center has grown each year, increasing the number of learners who have access to the state-of-the-art equipment and training environment, managed by staff who have specialized knowledge and skill in managing healthcare simulation learning activities. Our learners include a wide variety of the healthcare specialties that work within HMC, as well as students from Qatar University.

While we were challenged with the onset of COVID-19 in the spring of 2020, we quickly began supporting the urgent training required to provide excellent and safe patient care to patients with this illness. We also supported courses that allowed nurses from HMC and the Primary Health Care Corporation to learn important vaccination techniques. Almost 2000 clinicians benefitted from the nine COVID-19 courses held at Itqan, while others learned with a simulator that was sent to the COVID-19 hospitals to provide on-site trainings. At the same time, the Sim Center housed the

Elderly Telephone Reassurance Service and provided telemedicine offices for geriatricians, playing a role in managing the health of the nation.

As a result of COVID-19, many conferences became virtual and the number of webinars increased exponentially, allowing staff to learn from experts around the world. We also contributed to the knowledge of others through presentations locally, as well as for five international simulation organizations, Sigma Theta Tau International, Lebanese American University, Johns Hopkins, Weill Cornell Medicine (NY), and the World Academic Congress of Emergency Medicine. Several research studies conducted at Itqan were presented at international conferences and findings have been published in reputable journals.

We proudly began to offer the first course of our internal programming in November: Developing Facilitation Skills for Manikin-based Simulation. The Comprehensive Simulation Facilitation Program is designed along a continuum from novice to advanced for clinicians who want to learn more about facilitating learning with manikin-based simulation, clinical skills, and/or simulated patients. The course has run to full capacity in each of the five offerings thus far and has been well-received. We look forward to creating more programming from Itqan that includes webinars, practice sessions, small group learning, and specialized courses tailored to specific clinical simulation needs.

Itqan demonstrates corporate social

responsibility, promoting school-age children to attend healthcare-related activities. While here, they learn about healthcare professions while also being involved in active learning such as CPR and Stop the Bleed. Itqan also provides simulation learning support to the FIFA training activities in preparation for the upcoming World Cup 2022.

Itqan has become a leading provider of experiential learning in Qatar and is positioned to lead the region, through partnerships and collaborations supported through our costing model. We look forward to working closely with all of you to make this a reality in the coming years.

Kind regards,



Dr. Kim Leighton,
PhD, RN, CHSE, CHSOS, ANEF, FSSH, FAAN
Executive Director, Itqan Clinical Simulation & Innovation Center



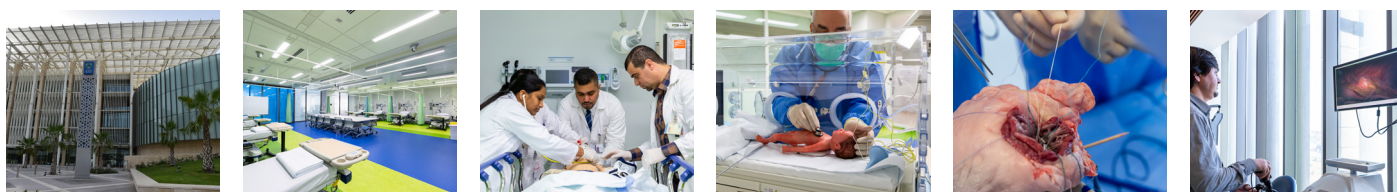
About ITQAN

One of the world's largest simulation centers, the Itqan Clinical Simulation and Innovation Center is a state-of-the-art facility designed with the nation's health as its focus. Itqan's Vision is to be recognized globally as a center of excellence for transforming healthcare education leading to improved patient outcomes.

The Simulation Center is located in the heart of Qatar's Hamad Bin Khalifa Medical City campus and occupies nearly 12,000m² of space. The Center was created as a purpose-built educational facility to improve patient safety and quality of care by transforming clinical education and training for Qatar's current and aspiring healthcare professionals. Itqan's Mission is to transform healthcare education through innovative, active simulation strategies supported by research in collaboration with the greater community.

The Simulation Center provides a safe and realistic environment in which novice and seasoned clinical professionals can practice specific assessment, diagnostic and surgical techniques, as well as care interventions within realistic patient care settings free of risk to patients.

All areas of the building have become fully functional over this past year. Hundreds of manikins and task trainers are available to support the training of clinical skills, teamwork, clinical judgment, prioritization, and communication. The overall goal is to provide a training environment that leads to improved patient care and outcomes.



What is inside the Center?

- **Auditorium:** Two-tiered modern auditorium with capacity for up to 400 people.
- **Café:** Indoor and outdoor dining and social space.
- **Classrooms:** Learning space for up to 88 people with flexibility to create multiple smaller rooms.
- **Clinical Skills Labs:** Dedicated area for practicing all types of skills using manikins, task trainers and hybrid models.
- **Virtual Reality Lab:** Advanced lab for practicing skills and decision-making in a virtual environment.
- **Debriefing Rooms:** Dedicated space in which learners are guided to reflect on performance, communication and teamwork.
- **Standardized Patient Rooms:** Individual practice and exam rooms for assessment, skills and communication.
- **Medical Library:** Healthcare library with resources for all disciplines.
- **Operating Theaters:** Customized environment in which to practice skills, communication and teamwork for Operating Theater and ICU patient care.
- **Labor and Delivery Rooms:** Customized rooms in which to practice skills, communication and teamwork of mother-baby care.
- **Patient Rooms:** General rooms designed to enhance care of patients of all ages with any type of condition.
- **Control Rooms:** Space allowing remote observation and communication by facilitators and manikin operators.
- **Central Sterile Services Department:** Instrument cleansing and sterilization unit.
- **Animal Preparation:** An environment for the safe, ethical care of animals used to provide surgical skills learning opportunities.
- **Surgical Skills Lab:** State-of-the-art surgical lab to hone surgical skills through learning with animals, cadavers, and the DaVinci surgical system.



One of the world's largest
simulation centers at

12,000m²



4 floors of learning space



4 classrooms

9 debriefing rooms



34 specialized training spaces



10 bay surgical skills lab with
state-of-the-art DaVinci
Surgical System



31 virtual reality simulators



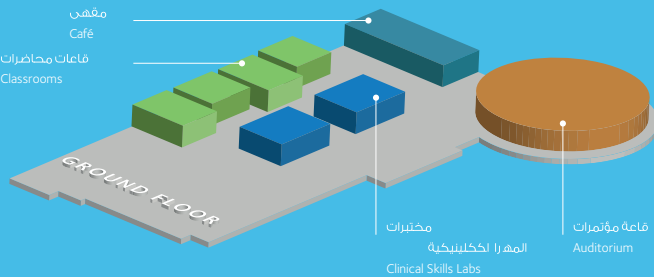
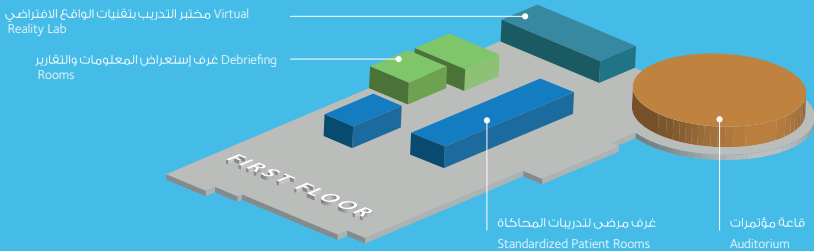
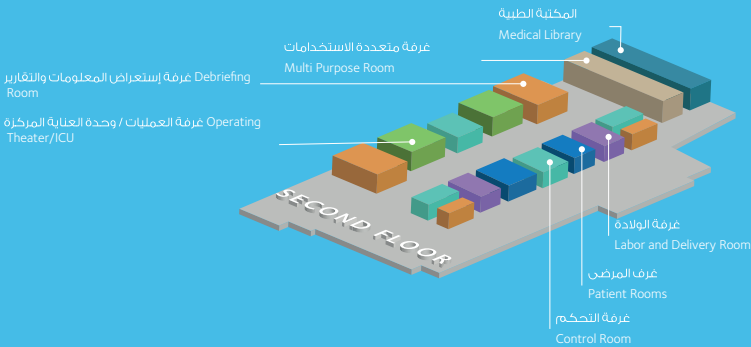
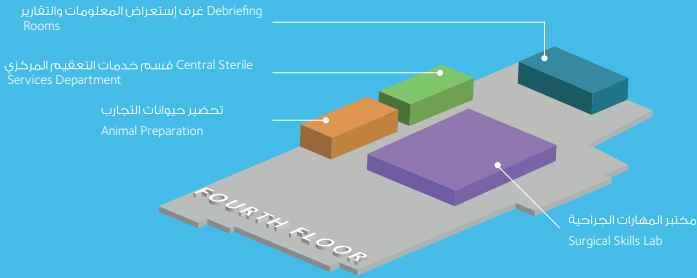
400 seat auditorium with
worldwide connectivity



Capacity for over **15** unique
training courses at one time

ITQAN KEY FACTS

ITQAN FLOOR LAYOUTS



OUR TEAM

LEADERSHIP



Dr. Kimberly Leighton, PhD, RN, CHSE, CHSOS, ANEF, FSSH, FAAN
Executive Director



Amr Metwally, MBA
Assistant Executive Director

EDUCATION



Ardee Domingo, CHSE, CHSOS
Educator



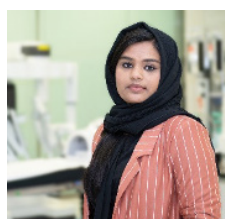
Ali Baig
Simulation Operations Manager



Raja Touati
Simulation Operations Specialist



Baha Tomeh
Simulation Operations Specialist



Bushara Vemmarath
Equipment Coordinator

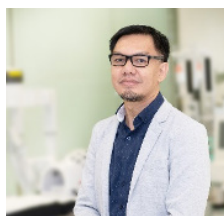


Jomy Cherian
Equipment Coordinator



Val Raymond Cabangcalan
Equipment Coordinator

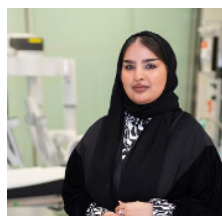
ADMINISTRATION



Cary Mohammad Aragat
Booking Manager



Abdulla Yousef Al-Saygh
Administrative Researcher

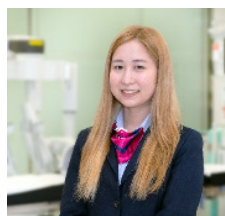


Khloud Saeed AL-Mari
Assistant Filing Clerk

HOSPITALITY



Amie Tandoc
Receptionist



Kim Legaspi
Receptionist



Al Saddam Nora
Aide

DAVINCI ROBOTIC TRAINING



Multi-level robotic programs are tailored to surgeons. Residents and fellows complete an on-line overview that explains the surgical robot and different aspects of the technology, followed by a test. Once the passing certificate is received the resident or fellow moves on to the robotic simulation training.

Thirteen simulation modules are completed, with the computer system conducting the evaluation of the performance. Successful completion of the modules advances the candidate to the next stage, which is working one-on-one with the DaVinci Robotic System to demonstrate knowledge of the machine and how to do safe surgery using the robot. The training is then continued by proctoring of actual patient procedures.

Department:
General Surgery

Course organizer:
Dr. Hani Attala

Number of sessions: 103

Number of learners: 103

LAPAROSCOPIC LIVER RESECTION



The Hepato-Pancreatico-Biliary (HPB) surgery team in HMC, in collaboration with the Itqan and anesthesia teams, has successfully conducted two animal lab training activities in Itqan Clinical Simulation and Innovation Center. Sheep are used as the animal model to practice laparoscopic and open surgical procedure skills, focusing on teaching these skills to the junior team members that include residents and medical students from Qatar University.

The laparoscopic procedures included abdominal exploration, bowel resection, bowel anastomosis, and liver resections. These were followed by open procedure skills, including open liver resections, bowel anastomoses, and various vascular anastomosis techniques. The activity was beneficial to all team members, but especially to the junior members, who could practice these skills safely, under the guidance of the rest of the team.

Department:
Liver Transplant

Course organizer:
Dr. Hatem Khalaf

DEVELOPING FACILITATION SKILLS WITH MANIKIN-BASED SIMULATION



This is the first course under Itqan's Comprehensive Simulation Facilitation Program. It is ideal for clinicians who want to increase their knowledge and skills for facilitating learning with simulation. Broadly, simulation has numerous modalities that all require specialized training; however, a core set of skills are needed for all types of simulation. This multi-tiered program uses a hybrid model of online and in-person education and training to help move simulationists from novice to competent.

Department:
Itqan Clinical Simulation & Innovation Center

Course organizers:
Mr. Ardee Domingo & Dr. Kim Leighton

Number of sessions: 5

Number of learners: 51

The program has three courses aligned to different simulation modalities: Manikin-based Simulation, Standardized Participants, and Clinical Skills Development. Each course has three levels: Developing Facilitation Skills, Intermediate Facilitation Skills, and Advanced Facilitation Skills. Each level will embrace the hybrid education model. Learners can take advantage of the entire training program or opt out at any point based on their level of interest.

Healthcare educators typically begin their professional career in the clinical area, without formal education courses in how to teach. While expert clinicians, they may be novice simulation educators. This program is designed to promote the use of educational theory and evidence-based standards of best practice in facilitating learning through simulation. Learners begin by completing nine online modules that include these concepts:

- Foundational simulation terminology, typology and methodology,
- How to conduct needs assessments and write learning objectives,
- Choosing and implementing evaluation methods to assess achievement of learning objectives,
- Scenario design and the role of fidelity and realism,
- Prebriefing,
- Facilitation strategies, and
- Debriefing and feedback



Following completion of the online modules, clinicians can participate in a two-day hands-on workshop designed to promote practice of the knowledge, skills, and behaviors learned in the modules. Course groups are intentionally small (12) to promote adequate practice time and to promote interactions between faculty and learners. The Facilitator Competency Rubric is used as a pre-post self-evaluation instrument, allowing learners to identify areas for ongoing learning and performance improvement.

Faculty development is crucial for the success of simulation programs, so much so that the recently revised Healthcare Simulation Standards of Best Practice now includes a full standard on this subject. This program, developed by Itqan staff supports faculty development of simulation educators within all clinical specialties at HMC.

“Quality faculty development in simulation is key to sustainability for simulation centers worldwide.”

COVID-19 CRITICAL CARE UPSKILLING



The COVID-19 pandemic posed a serious threat to global health systems, necessitating extraordinary efforts to contain the virus and prepare healthcare systems for unprecedented situations. To ensure an effective response, the entire healthcare workforce must be trained appropriately. The Nursing and Midwifery Education Department identified the need to upskill non-critical care nurses to be deployed to the critical care areas. Multiple skills-based and scenario-based simulation activities were conducted to ensure that there were enough nurses to meet the required hospital staffing across Hamad Medical Corporation hospitals. Each non-CCU nurse completed online educational modules that focused on the fundamentals of respiratory assessment and ventilator management in critically ill patients, followed by intensive simulation activities that included management of patients on a ventilator receiving a variety of medications and treatments.

Department:

Nursing and Midwifery Education Department

Course organizer:

Mr. Emad Almomani

Number of sessions: 93**Number of learners** 1573

“Early detection of potential staffing and clinical skills issues allowed for the rapid implementation of a critical care upskilling program.”

COVID-19 NON-CRITICAL CARE TRAINING



This training aimed to ensure that all new and existing staff nurses and patient care assistants are prepared to provide COVID-19 patients with safe, confident, and compassionate care.

The COVID-19 training was created to give hospital staff the skills they need to work efficiently and safely inside the hospital, including an understanding of the standard operating principles and procedures and how to use personal protective equipment properly. This type of training was critical in allowing staff to quickly gain the skills they needed to manage COVID-19 patients. Online learning modules, clinical orientation, and simulation-based education related to procedures performed in COVID-19 facilities are all part of the program. Infection control procedures, ABCDE evaluation, IV cannulation, ECG lead placement, and nasopharyngeal and oropharyngeal swabbing are among the skills.

In addition, to ensure staff and patient safety, Mental Health Services (MHS) conducted simulation training to manage aggression and violence.

Department:
Nursing and Midwifery Education Department

Course organizer:
Mr. Emad Almomani

Number of sessions: 93

Number of learners: 1573

VACCINATION TRAINING PROGRAM



To ensure safe and efficient COVID-19 vaccine administration, all healthcare workers involved in its implementation must have the necessary knowledge and skills. Therefore, the COVID-19 vaccination training was designed for frontline healthcare workers in the State of Qatar. COVID-19 is rapidly evolving, necessitating new strategies to maintain clinical preventive services, such as vaccination. Well-prepared vaccinators are essential in administering vaccines to staff, patients, and the public.

ITQAN Clinical Simulation and Innovation Center played a significant role during this phase by providing a venue for the training and ensured the development and implementation were based on the Healthcare Simulation Standards of Best Practice.

Department:
Nursing and Midwifery Education Department

Course organizer:
Mr. Paul Michael Pastor Salomon

Number of sessions: 51

Number of learners: 820

GENERAL NURSING ORIENTATION



The purpose of the General Nursing Orientation (GNO) program is to ensure that newly hired nurses and midwives receive consistent information regarding organizational policies, procedures, protocols, and guidelines that underpin the delivery of safe, compassionate, evidence-based, and patient-family centered care. The program also aims to familiarize staff with Hamad Medical Corporation's Vision, Mission, values, goals, organizational structure, career framework, and Nursing and Midwifery Strategy.

The GNO program utilizes various teaching strategies through virtual learning, simulation, Objective Structured Clinical Examination (OSCE), and clinical follow-up to prepare and support staff in their new clinical role. The program aims to enhance staff's knowledge, improve clinical skills and ensure safe practice. This is done in collaboration with clinical preceptors, nurse leaders, and facility educators.

Department:
Nursing and Midwifery Education Department

Course organizer:
Ms. Connie Vendicacion

Number of sessions: 40

Number of learners: 1235

EMERGENCY MEDICINE FELLOWSHIP SIMULATION



As a curriculum requirement of the Emergency Fellowship program, each simulation day has a different clinical care area focus. The highly immersive scenarios include resuscitation, cardiology, nephrology, trauma, obstetrics and gynecology, pediatrics, respiratory and gastrointestinal pathologies. These sessions are related to six concepts of ACGMEI (Accreditation Council for Graduate Medical Education – International).

Main objectives and emphasis are on patient safety, reducing errors, the transition of care, multidisciplinary working, exploring crisis resource management (CRM) concepts, and with heavy emphasis on human factors such as decision-making, team dynamics, leadership, task management, and situational awareness.

Using high-fidelity simulators, medical fellows engage in hands on, interactive multidisciplinary scenarios that focus on management of various medical and trauma cases.

Department:
Emergency Department (HGH)

Course organizer:
Dr. Thirumoothy Samy Suresh Kumar

Number of sessions: 11

Number of learners: 119

“This consistent practice leads to excellent patient care and customer service in real-life situations.”

SIMULATION FOR ANESTHESIA RESIDENTS



This simulation-based education for anesthesia residents promotes practical, realistic anesthesia training through carefully structured scenarios. Residents apply clinical knowledge, practice teamwork, situational awareness, and learn from critical incidents. Through simulation, learners can gain clinical skills in a safe learning environment without putting actual patients at risk.

This allows anesthesiology residents to gain medical knowledge and technical and non-technical skills. Residents take turns playing different roles in the simulation scenarios, but they all debrief together.

Department:
Anesthesia Department (HGH)

Course organizer:
Dr. Narasimha Murthy Girish Sadhu

Number of sessions: 8

Number of learners: 83

“Additionally, faculty members benefit from simulation-based settings to assess residents’ performance in airway management and other anesthesiology scenarios allowing them to be exposed to both intra-operative problems and low-frequency but high acuity events.”

BASIC AND ADVANCED AIRWAY



A wide range of skills are required for airway management, from holding an airway device to fiberoptic intubation. Following this course, learners will be able to recognize and help patients at risk of developing airway emergencies. The course covers modern approaches to basic airway management among different age groups, as well as the required techniques.

Airway management goals, upper and lower respiratory system anatomy, respiratory assessment, various respiratory conditions and treatments, basic airway maneuvers, and advanced airway techniques are also taught and practiced in the course.

Department:
Anesthesia Department (HGH)

Course organizer:
Dr. Nabil Al Hamid Shallik

Number of sessions: 8

Number of learners: 166

“This airway course was developed to provide an in-depth, up-to-date review of basic and advanced airway management practice.”

MASS CASUALTY AND MAJOR INCIDENT TRAINING



Developing disaster preparedness plans is a critical task for hospitals and they must work in close collaboration with public health systems, relevant government agencies, and other stakeholders. The crucial factor for a successful emergency response to any major incident is a properly and practically designed major incident plan, which improves the function of site medical teams and strengthens the support systems of responding agencies. Itqan has hosted several activities related to disaster preparedness.

A course was supported that trained the trainers from various Hamad Medical Corporation departments. The main objectives of this activity were to describe the Major Incident Activation Process, explain the Command and Control Process, explain the Fire Evacuation Process in a Unit and demonstrate the correct use of all fire evacuation equipment used in horizontal and vertical evacuations.

Two major training projects have been organized to assess and train the medical staff to deal with Mass Casualty Incidents. One project was targeted to staff covering football stadiums and other non-competition sites. The other project was directed to all HMC Emergency departments. These projects were designed to teach a systematic (all hazard) approach to mass casualty management using simulation and other modalities.

Department:
Major Incident Preparedness and Resilience

Course organizer:
Ms. Sheena McCabe

Number of sessions: 15
Number of learners: 203

Department:
Emergency Department (Hamad General Hospital) and ITQAN Clinical Simulation and Innovation Center

Course organizer:
Dr. Muna Ismail Almusleh

Number of sessions: 3
Number of learners: 68

ARAB BOARD EXAMINATION



The Arab Board Examinations for various medical specialties were held at the Itqan Clinical Simulation and Innovation Center. The specialties are emergency medicine, internal medicine, pediatrics, obstetrics, and gynecology. Medical residents must pass the examination to obtain their specialties.

The Arab Board Examinations adhere to the Accreditation Council for Graduate Medical Education International's standards. To demonstrate its commitment to improving healthcare and graduate medical education, the ACGME-I employs best practices, research, and advancements across the continuum of medical education.

The ACGME-I is dedicated to improving resident and fellow physicians' patient care today and in their future independent practice and clinical learning environments characterized by excellence in care, safety, and professionalism.

Department:
Arab Board of Health Specializations

Course organizer:
Medical Education

Number of sessions: 14

Number of learners: 68

QATARI BOARD EXAMINATION



The Qatari Board of Medical Specialties (QBMS) held its first written examination for medical residents in Qatar. The certifying exam was given to 148 candidates and included thirteen ACGME-accredited specialties.

The QBMS is a large-scale initiative to ensure the quality, competence, and specialty knowledge of physicians in their fields. The board certifying examinations ensure that healthcare practitioners have the knowledge to provide excellent patient care.

Department:
Qatari Board of Medical Specialties (QBMS)

Course organizer:
Ministry of Public Health

Number of sessions: 4

Number of learners: 68

“The exam marks a significant milestone for Qatar’s healthcare sector, as the QBMS will now provide specialization certification to all medical residents who complete their training in the country.”



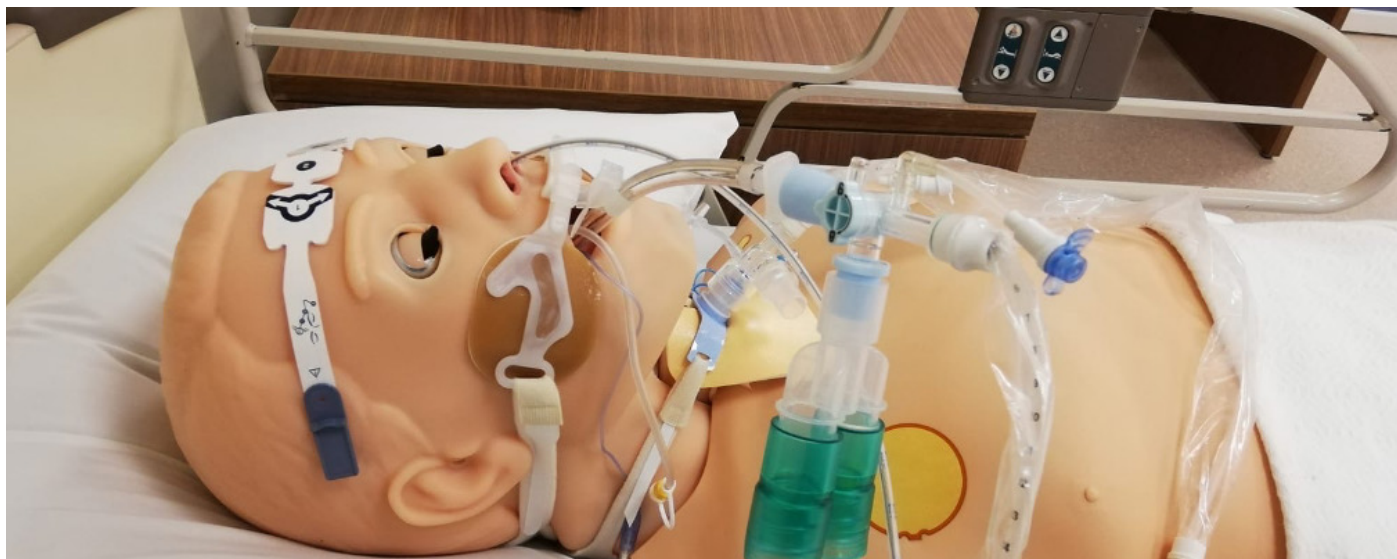
ITQAN LIST OF COURSES/EVENTS HOSTED IN 2021

ITQAN LIST OF COURSES/EVENTS HOSTED IN 2021	
Event Details	Recurrences in 2021
CONFERENCES	15
2nd Annual Qatar Rheumatology Symposium	2
Clinical Imaging Scientific Day	1
Mental Health Symposium	1
Middle East Forum	2
Qatar Diabetes, Endocrinology and Metabolic	3
Qatar Health	1
UCC Gathering	1
7th Qatar Musculoskeletal Ultrasound Course	4
COVID19- SIMULATION	246
Critical Care Upskilling	94
Non-Critical Orientation Program	101
Vaccination Training Program	51
ROBOTIC-SURGERY TRAINING	97
EXAMINATION	21
Internal Medicine Arab Board Exam	3
Pediatric Arab Board Exam	1
Qatari Board of Medical Specialty Part1	4
Anesthesia Objective Structured Clinical Examination (OSCE)	1
Arab Board Emergency Medicine Final Examination	4
Arab Board OBGYN OSCE Exam	4
Internal Medicine Arab Board OSCE	2
Internal Medicine Clinical Exam Course	2
LECTURES	106
Academic Guidance	4
Advanced Risk Management Workshop	1
Baby Friendly Hospital Initiative Training Course for Maternity Staff	5
Chief Residents Course	4
Clinical Nurse/Midwife Specialist Intern Development Program-Orientation for ONCOLOGY Clinical Nurse Interns & Mentors	5
Cognitive Rehabilitation Course	3
Corporate Social Service Education	3
Faculty Development	1
Geriatric for Non-Geriatric Course	6

Health Profession Workshop	9
Interview Skills for Medical Students	1
Leadership Program	4
Maternity Cardiology Program	1
Medicine Quality Improvement Training Program	4
Mentoring Workshop	1
Qatar University (QU) Orientation (CMED)	1
Qatar Board Medical Specializations (QBMS) Exam Preparation Workshop	1
State of the Art and Future Direction in Osteoporosis	1
Strategy Leadership Workshop	1
Surgical Tutorial for Year 5 QU Medical Students	44
Teach the Teacher Course	4
Train The Trainer Course	2
MEETINGS	3
Clinical Leaders Forum	3
SIMULATION	299
ABCDE Assessment and ISBAR Communication	3
Advance Airway Workshop	1
Fundamentals of Airway Management (FOAM) Workshop	4
Basic Airway Course	1
Basic Surgical Skills Workshop	3
Care and Maintenance of Vascular Access Device in Pediatric Emergency	2
Competency Skills Training	3
Continuous Renal Replacement Therapy	12
Critical Care	17
Developing Facilitation Skills with Manikin-Based Simulation	10
Disaster Planning Training	3
Emergency Medicine Consolidation Program for Specialists - Critical Care	1
Simulation Day	
Emergency Medicine Fellowship Sim Training	10
Emergency Medicine Procedures	1
Emergency Medicine Residency Training Program	1
Emergency Medicine Weekly Didactic and Simulation Session	14
Epidural Analgesia Training	3
Essential Skills Midwifery	3
Foundations in Obstetric Nursing	8
General Nursing Orientation	39
Geriatric Fellows Simulation Training	1
Hands-On Training in Neonatal Resuscitation (HOT NRP)	4
Hospital Acquired Pressure Injury	11

Implantable Central Venous Access Devices (ICVAD) and Peripherally Inserted Central Catheter (PICC) Line Care and Management for Community Nurses	1
Internal Medicine Procedural Simulation Course	2
Interns Procedural Skills Course	1
Intravenous Cannulation	1
Less Invasive Surfactant Administration Workshop	15
Major Incident and Fire Evacuation Training	1
Mechanical Ventilation	26
Neonatal Resuscitation Program	1
Neonatal Transportation Simulation	3
Non-Critical Orientation Program	1
Orthopedics Study Day	2
Oxygenation and Respiratory Function Assessment	31
Patient Care Assistant	1
Patient Controlled Analgesia	1
Pediatric Competency Assessment	1
Pediatric IV Cannulation Training	4
Pediatric Orientation Program	3
Perineal Suturing Training Program	1
QU Pharmacy Student Asthma Case	2
Pre-Anesthesia Assessment Clinic	1
Rapid Response Team (RRT) Training Simulation Course	3
Resuscitation Awareness and Training Campaign	4
Rapid Sequence Intubation (RSI) Training	1
Simulation Advanced Training in Forceps and Vacuum Extractor (SAFE) Course	7
Simulation for Anesthesia Residents	4
Surgery Nursing Foundation	4
Trauma Intensive Care Unit (TICU) Simulation Course	1
Ultrasound Guided Pain Workshop	3
Ultrasound Guided Regional Anesthesia	6
Urinary Catheterization	3
Vascular Access Simulation	2
Wet Lab Training for Laparoscopic Liver Surgery	6
VIRTUAL REALITY SIMULATION	104
3D System Angio Mentor Training	1
Angio Training	2
Cardiology Fellowship Program	2
Laparoscopic Training	3
Ophthalmology Training	96
Grand Total	891

2021 ITQAN IN NUMBERS



The Itqan Clinical Simulation and Innovation Center has played an important role in HMC's comprehensive COVID-19 strategy, housing key telemedicine services and running training courses.

The Center's COVID-19 efforts included:



9 COVID-19 related courses
381 course sessions



5637 learners



Nurse-staffed Elderly Telephone Reassurance Service



4 geriatric physician telemedicine offices



Simulator deployed to COVID-19 facilities



Clinical equipment, supplies, and computers deployed to COVID-19 sites

Number of Simulation Sessions

702



Number of Lectures

171



Conferences

11



Number of Learners

14,160



A photograph of a modern building facade featuring a curved glass and stone structure. The building has a series of white columns supporting a glass canopy. The sky is clear and blue.

ITQAN in SOCIAL MEDIA

Linked in

**25 Posts
90,800 Views**

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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