



Tools in Critical Care Nursing: “Airway and Ventilator Management ”

A third module in a programme of simulation-based activity entitled “Tools of Critical Care Nursing” was delivered by the Critical Care Nursing course team. This was in the crucial area of Airway and Ventilation Management, and provided an exposure to hands-on experience of best practice. Caring for a patient receiving mechanical ventilation includes trouble shooting, performing endotracheal suctioning, and safely extubating patient. This simulation-based activity was designed to help students to overcome their fears and develop competence in safely caring for ventilated patients.

SIMWARS !

First ever clinical simulation-based competition in Pakistan: first ever interprofessional SIMWARS anywhere!



“Nurse! Nurse! My brother has been hit by a Rickshaw outside ER! Please come quick!!!”

“Aaagh!!! My water just broke, the baby is coming, Help!”, said a pregnant lady stuck in the traffic jam.

“Why did my son hurt himself, he’s such a happy child? Doctor! Please tell me that he will be alright”

Sounds familiar? If yes, then you might be an experienced professional who has gone through such events, but for those who have not, these statements can be alarming. Well these cries echoed the walls of CIME last month where six inter-professional teams of Residents, Registered Nurses, Health Care Assistant and Undergraduate Students, were challenged with these situations and were evaluated on their communication, teamwork, decision-making and clinical skills by a ‘CIME’s got Talent’ style jury of experienced faculty. This is how the first ever

SIMWARS was held in Pakistan, here at CIME, AKU.

Three rounds saw six teams compete for maximum points based on their performance in each scenario. Round 1 was in CIME’s community apartment where a teenager had attempted suicide. This required the team to rescue him and later manage his condition in ER. Four out of six teams impressed their way to the Semi-finals, two weeks later.

In the Semi’s and Final, this is where things got difficult and the real fun began as our simulators escaped from the closed rooms into the open CIME courtyard. Four teams competed against each other as, one by one, they found themselves in a traffic jam and being called upon by a pregnant woman in an adjacent car to provide assistance. 4 babies were successfully delivered! In the afternoon the

best two teams battled in the finals where they had to manage a motorcyclist who was hit by a rickshaw outside ER and sustained a head injury. The winning team “SimNinjas” brought home the SIMWARS trophy.

Globally, SIMWARS is organised for residents only, however, healthcare is a team sport and CIME took an inter-professional approach resulting in a world-class learning experience for participants and an opportunity for them to learn from mistakes and reflect on their developing clinical skills.



“The best confidence builder is experience” – From the Star Wars movie

Want to take on the challenge of the next SIMWARS? We’re hoping for an inter-university event. Stay tuned!

Marching in step: Boot Camp for the New Private Wing

First 2 sessions were held in March while 6 sessions held in April

After the successful Boot Camp for PGME interns and residents, CIME in collaboration with the New Private Wing have organised a Boot Camp for their new Medical Officers and Senior Medical Officers. The aim is to provide participants with an experiential learning opportunity to help them strengthen their knowledge and skills and provide better orientation to the working environment and skills protocols followed in The Aga Khan University Hospital.

The Boot Camp focused on basic to advanced clinical skills according to the needs analysis by New Private Wing Administration and included essential skills for Medical Officers: BIPAP and oxygen titration, phlebotomy, arterial puncture, nasogastric tube insertion, adult male and female urinary catheterization and post-surgical wound care, whereas, for Senior Medical Officers 4 skills were targeted: BIPAP and oxygen titration, phlebotomy, arterial puncture and ultrasound guided central venous catheter insertion. Since turnover of Medical Officers and Senior Medical Officers is inevitable, this Boot Camp will be offered quarterly to support the provision of the best possible care in the New Private Wing.



Protecting our most vulnerable



Pneumonia accounts for 16% of deaths in children under the age of 5, globally, according to WHO estimates [1]. It is most prevalent in South Asia and Sub Saharan Africa, with estimates showing that in Pakistan, 92,000 deaths in children under the age of 5 was due to pneumonia [2].

Identifying the importance of nursing care in paediatric pneumonia, the School of Nursing and Midwifery (SONAM) worked with CIME to develop a series of simulated sessions with the aim to educate and immerse undergraduate students from year 3 Nursing in the assessment and care of children with pneumonia.

The students were actively engaged in three stations for Documentation, Medication Preparation and Concept Integrated Mapping (CIM) & Teaching Plan. The students learned how to perform a respiratory assessment, identify the symptoms and provide immediate nursing care to the patient. Along with psychomotor skills, students acquired skills such as critical thinking, teamwork, communication, decision-making and problem-solving. Debriefing took place at each station allowing students to reflect on their performances. The day ended with a session on chest physiotherapy by an expert from AKU's Physiotherapy department.

These activities improved students' performance and created greater awareness to equip them to recognise and fight this deadly disease.

[1] <https://www.who.int/news-room/fact-sheets/detail/pneumonia>

[2] <https://gulfnnews.com/world/asia/pakistan/92000-children-die-of-pneumonia-every-year-in-pakistan-1.60279461>



Clinical Simulation Educators Programme: Championing the Cause

The paradigm shift towards clinical simulation in healthcare education highlights the need to understand the process behind it to achieve its seamless integration into the curriculum. To address this need, CIME has designed a week-long course which has been provided on three occasions since last November, with the most experienced faculty sharing their expertise and experience with participants. To date 47 healthcare professionals have participated in the programme, and it has received outstanding reviews. As well as providing a critical mass of informed clinicians and educators for AKU, fully loaded and equipped to use the resources of CIME, it has



attracted participants from across Pakistan. For CIME to be successful, this programme must continue to be successful.



Do you want to build a solid foundation in simulation education? Do you want to have more options in the way you teach? Our next Educators Programme is on August 5-9, 2019. Limited Registration (First 20 delegates) For detailed information, visit our website: <https://bit.ly/2SckhBq> For online registration, click here: <https://bit.ly/2SHcYHa>

Artificial Intelligence?

No... this is for real! Clinical Simulation Operators Programme Be the mind behind the machine

CIME organised its first three-day Clinical Simulation Operators Programme. The main focus of this programme was on the technical aspects of clinical simulation. Participants developed a knowledge of the educational uses of simulation equipment, to be able to more effectively select and prepare technologies and simulators to support academics and clinicians to achieve educational objectives. The Programme was designed for technicians and operations personnel. It provided an insight into the range of approaches to simulation education and appropriate terminology, as well as audio-visual, biomedical, information and communications technologies.



Registration is open for the 2nd Operators Programme which will be held on July 8, 2019. For detailed information, visit our website: <https://bit.ly/2Ctaxy8> and for online registration, visit: <https://bit.ly/2SHcYHa>

Managing Postpartum Haemorrhage through Simulation



One of the major causes of maternal mortality in Pakistan is Postpartum haemorrhage (PPH), affecting 1.3% of all deliveries with a blood loss of more than one litre, whereas life threatening haemorrhage occurs in 1 in 1000 deliveries. To effectively deal with a PPH obstetric emergency, a coordinated multidisciplinary team response is required.

Gynaecologists from across Pakistan were invited to participate in a 'Management of PPH' workshop arranged by the Department of Obstetrics and Gynaecology and CIME. The workshop utilised various low fidelity simulators for developing skills such as compression sutures and internal iliac ligation. High-fidelity birthing simulators (Victoria) were used in an OR and labour ward environment to simulate a postpartum haemorrhage, allowing participants to develop situational awareness, and the knowledge and skills needed to effectively manage PPH complication in hospital.

Be Prepared: Mass Casualty Incidents can happen at any time.



A mass casualty incident (MCI) is a challenging situation for healthcare personnel. You never know when the situation might arise, and need to be alert and prepared for one at the drop of a hat. I was charge nurse in Intensive Care in Glasgow and can recall many such incidents – a major house fire; a coal mine explosion underground. I was also on standby in December 1988 as emergency services were alerted that a Pan-am jet had exploded in the air over Lockerbie: but sadly there were no survivors. So these situations can happen at any time and for all sorts of reasons (editor).

For this reason the Department of Surgery in collaboration with CIME arranged “Mass Casualty Incidents: Hospital based management using simulation” as part of the 4th AKU Annual Surgical Conference “Global Surgery” 2019. This aimed to enhance the ability of healthcare personnel to prepare for and respond to mass casualty incidents. The training comprised different components including the simulation exercise.

This started with participants being alerted to a bomb blast in the city and an expected surge of patients in emergency department with different types of injuries. A field triage was setup to allow participants to sort patients with different colour cards and later move them inside ER for management.

Facilitators provided guidance and feedback to participants which allowed them to improve knowledge, skills, confidence and situational awareness. This kind of training exercise potentially has a tremendous impact as it helps in developing organisational and clinical skills that are crucial in minimizing the loss of life, maximizing patient recovery and increasing adaptive and psychological preparedness of healthcare personal to manage mass casualty incidents.

Based on the account of:
Dr Rashid Aqeel
Emergency Physician

Video: SIMWARS - Clinical Simulation Based Competition



<https://youtu.be/5w0U0o9qZ6k>

Highlights Video: Clinical Simulation Educators Programme



<https://youtu.be/OQjp3K0elew>

Celebrating World Oral Health Day with Dental Hygiene Students on March 20, 2019





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Centre for Innovation in Medical Education

“Clinical Simulation Operators Programme”

July 8-10, 2019 | 9 am to 5 pm

Multipurpose Hall, CIME

Be the mind behind the machine

The Clinical Simulation Operators Programme has been developed to address the training needs of technicians and operations personnel within simulation centres. The programme provides an insight into the range of approaches to simulation education and appropriate terminology, as well as audio-visual, biomedical, information and communications technologies. Competencies will be acquired in those roles and responsibilities of the simulation technician including scenario programming, equipment repair and maintenance, calendar/timeline management, running simulation sessions and much more.

Teaching and Learning Strategies

Participants will be actively engaged in challenging but well supported activities, in teams, to acquire a global understanding of clinical simulation as a pedagogy and as a process to be effectively managed from a technologist perspective. Theory will be provided to the extent that it informs practice. The main focus will be on participants acquiring skills and knowledge to be able to select and prepare appropriate technologies and simulators in order to allow academics and clinicians to achieve their educational objectives through clinical simulation.

Module Descriptors

This programme has 9 modules organised as follows:

- Module 1 What is clinical simulation?
- Module 2 Basic concepts of simulators
- Module 3 Technology for debriefing
- Module 4 Translating and programming scenarios
- Module 5 Troubleshooting and maintenance
- Module 6 Preparing and setup of simulated spaces and learning rooms
- Module 7 Selecting the right product
- Module 8 Innovation and development
- Module 9 Professionalism and vendor relationships

Registration fee: Rs. 20,000

Register by: July 1, 2019

Discounts available upon request



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Centre for Innovation in Medical Education “Clinical Simulation Educators Programme”

August 5-9, 2019 | 9 am to 5 pm

Multipurpose Hall, CIME

Introduction and Aims

Clinical simulation creates competence and saves lives.

This Programme will equip participants with the skills, knowledge and practical experience to enable informed choices to be made regarding where, how, and when Clinical Simulation is applicable. It is designed for faculty and clinicians who wish their teaching skills to be current, credible and at the cutting edge.

Aga Khan University's Centre for Innovation in Medical Education is now in its third year of operation and a wealth of experience and internationally gained expertise is now at our fingertips. We are pleased to make this expertise available to colleagues throughout Pakistan.

Teaching and learning strategy

Participants will be actively engaged in challenging but well supported activities. Theory will be provided to the extent that it informs practice. The focus will be on designing, managing, and evaluating clinical skills acquisition through clinical simulation, in all its forms.

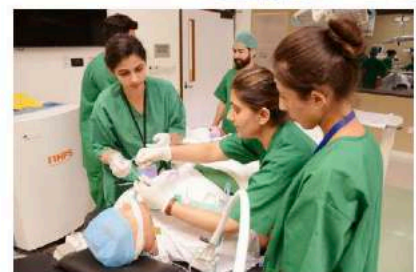
Module Descriptors

This programme has 10 modules organised as follows:

Module 1	Simulation modalities and their application
Module 2 & 3	Teaching through simulation
Module 4 & 5	Course design and scenario development
Module 6	Debriefing and providing feedback
Module 7 & 8	Simulation in action
Module 9	Measuring the outcomes of simulation
Module 10	Cultural competence & the ethical dimensions of clinical simulation

Registration

- Rs. 30,000.00
- Register before July 30, 2019
- Limited Registration (First 20 delegates)



The Aga Khan University Department of Continuing Professional Education is accredited by the Pakistan Medical & Dental Council (PMDC) and the American Association of Continuing Medical Education (AACME) to provide continuing medical education.

The (AACME) designates this live educational activity for a maximum of **29.00** AACME Category 1 Credit(s).

The faculty and staff connected to this activity confirms that this activity do not have any relevant financial interest, arrangement or affiliation that would constitute a conflict of interest





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Centre for Innovation in Medical Education

“Conference for Clinical Simulation Strategic Planners”

September 2-3, 2019 | 9 am to 5 pm

Multipurpose Hall, CIME

Be a Leader in Clinical Simulation

Clinical simulation is a rapidly growing educational specialty and this course has been designed to meet the needs of sectors considering its adoption, integration, or expansion. It focuses on the decision making processes in relation to simulation facilities, human resources, technology, curricula and change management. It will guide senior decision-makers and stakeholders to develop a strategic plan with simulation centre-specific goals, strategies, objectives and tactics, thus, providing a critical foundation for future success.

Teaching and Learning Strategies

Participants will be actively engaged in challenging but well supported activities. Theory will be provided to the extent that it informs practice. The focus will be on acquiring knowledge of all aspects of clinical simulation and developing those qualities required to lead change, introduce clinical simulation and effectively manage a simulation centre.

Module Descriptors

This programme has 6 modules organised as follows:

- Module 1 Introduction to Clinical Simulation
- Module 2 Planning and Curriculum Integration
- Module 3 Building the Infrastructure and Designing
- Module 4 Management and Resources
- Module 5 Business and Events Management
- Module 6 Outcomes Measurement, Evaluation, Research and Innovation

Registration fee: Rs. 60,000

Note: Register by August 5th and get early bird rate of Rs. 50,000



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