

# CIME

CENTRE FOR INNOVATION IN MEDICAL EDUCATION



آغا خان یونیورسٹی

THE AGA KHAN UNIVERSITY

Newsletter | October 2019



## A perfect take-off for Pakistan Air Force (PAF) at CIME

CIME arranged a 12-faculty party of Pakistan Air Force (PAF) doctors, general surgeons and obstetrics & gynaecology for a two days' workshop tailored specifically for them. An introduction to the principles and different manifestations of simulation-based education was followed by an illustrated tour of the facility.

Hands-on training sessions were then conducted on

Victoria along with other low fidelity mannequins to practice complex birthing situations. LapSim was setup for surgeons primarily but it proved popular for all as it also has modules for gynaecology. Participants were actively engaged throughout the two days event. This could be the beginning of a wonderful relationship as we work towards developing an MOU for further sessions.

## Bahadur Teachers saving lives in the classroom



87 School teachers packed into the venue on a quiet Saturday morning, greeting friends and colleagues while settling down in their seats for what had the trappings of a normal lecture. This was their only chance to sit comfortably that day. Suddenly: PANIC! One of the participants fell noisily from his seat and lay unconscious on the floor. GASPS! Some teachers stood up and moved back: others froze in their seats. Luckily several rushed to the victim and tried to 'help' – putting a pen between his teeth and tilting his head forward on a makeshift pillow. Others raised his legs. The audience anxiously looked around for inspiration, guidance or direction. This was, after all in AKU the best hospital in Pakistan in their Centre of Innovation in Medical Education, on a par with the best in the world. A voice boomed out: "OK SAJID: CUT" The 'victim' opened his eyes and stood up smiling, to gasps of disbelief from his 'helpers'. Sitting now on the edge of their seats, teachers were then helped to reflect and analyse what had just happened – good points and bad – by reviewing video of the whole episode captured on our B-Line debriefing system. After a re-assuring cup of Chai, this set the scene for a full day of active learning in how to handle medical emergencies in the classroom when a teacher becomes a 'first responder' in a life-or-death

situation while waiting on the first-aider or school nurse to arrive.

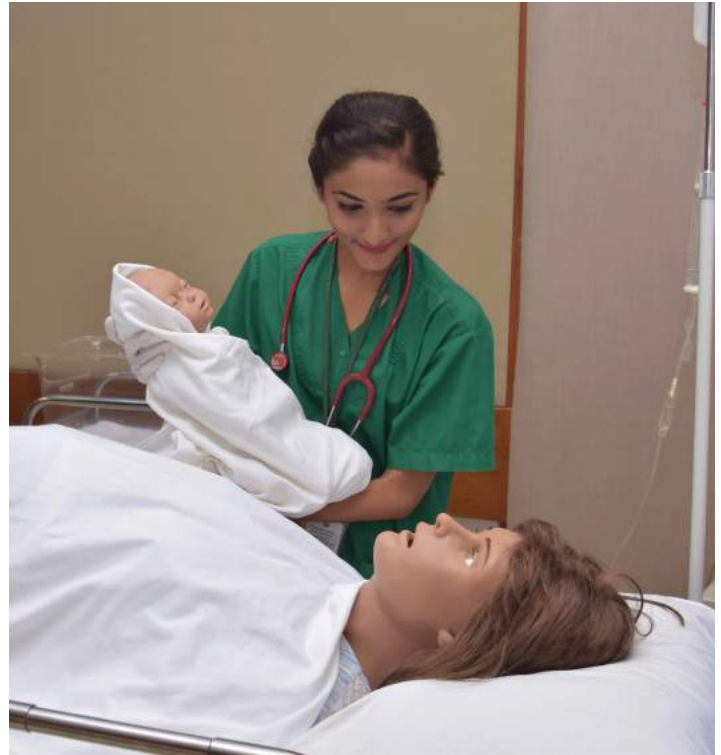
The full range of mannequins and technologies in CIME were harnessed by nurses from ER, Nursing Education Services, TKN volunteers, medical and nursing students who taught, demonstrated and role-played from morning till night to deliver 8 interactive workshops in 'Boot-camp' style. Enjoyable for everyone, highly evaluated by participants crying out for more. In response to high demand from schools, this course has tapped a vein of previously unmet need and will be repeated very soon.



## Victoria standardises the teaching of the birthing process

Victoria has delivered its 120th baby, by third year student nurses. Congratulations! Through incredible effort and dedication each student gets an individual appointment with a member of the midwifery team to conduct a hands-on session to care for mother and baby before during and after the birthing process. This on-going programme comes at a time when Pakistan has such horrific statistics of perinatal mortality. Our CIME Champion Ms Sadia Karimi needs special mention as the founder member of this programme with other faculty members from SONAM. “This actually became a source of motivation for us to plan similar experience for the entire class... However, planning simulations for 120 students with limited time and human resource is a challenging task.”

In the context of the availability of powerful learning tools such as Victoria, work is currently underway in SONAM to integrate, consolidate, and adequately resource initiatives such as this. Well done to all involved in spearheading this development.



## HPS – the Human Patient Simulator - finds new users in CIME

Our Human Patient Simulator (HPS) was recently used successfully by the service line of kidney and bladder, who developed an interactive workshop of interventional nephrology focused on ‘fistula’ management.

Renal Nurses, Residents and Medical Officers prepared for simulated practice through theoretical sessions on interventional nephrology procedures and implication for the care of patients. Through simulation the roles of scrub nurse, circulatory nurse were differentiated and the concept of maintaining a sterile field emphasised. 22 participated in this session benefitted from a ‘jugger’ fistula developed in-house to give the feel of ‘thrill’ in a fistula. At the end of the experience a self-efficacy questionnaire was filed by the participants identifying enhancement in their learning.



## Let's go to doctor!

General Practitioners are the true Renaissance Leaders of medicine: generalist, multi skilled, with tremendous breadth of knowledge and experience, having wisdom and intuition that defy algorithmic analysis. However, from time to time their clinical skills need refreshed. 25 general practitioners from across Pakistan, gathered in CIME to learn about updated practices and the latest thinking in infection control and to rehearse clinical scenarios to strengthen skills in Basic Life Support, Suturing, Pathological heart and lung sounds identification and managing Fractures that may present at their clinic. It was a highly interactive day and a good opportunity to network and re-establish old friendships within the group.



## Finding Veins! No more pain and bruises that last for days

Finding an appropriate vein can be a challenging task in patients who have peripheral vascular disease, or are in shock, or dehydrated, or obese. Some patients simply have very small, or twisted veins. Every day nurses, doctors and phlebotomists are challenged by venepuncture and cannulation and traditionally it has been a matter of trial and error until expertise eventually develops. On this path, pain, bruising and blown veins and lack of confidence are inevitable casualties. Until now! 'Kidney and Bladder' service line and CIME demonstrated how this experience can be much easier for practitioners and patients with the help of the "Vein Viewer" that can ease the process of inserting and maintaining an intravenous infusion. This workshop was conducted using 'Accuvein 500' and was positively evaluated.



## So cute but so vulnerable... neonatal resuscitation

These tiny babies arrive into the world with expectations of a great life, but unfortunately they have challenges ahead. Most neonates are vulnerable and need some form of resuscitation support. To improve practitioner skills in supporting neonatal care, 15 doctors and nurses from the secondary hospitals of Aga Khan University - Garden, Karimabad, Kharadar, and Hyderabad - attended an NRP workshop in CIME and practiced situations that in real life often have serious consequences if not performed competently.



## Intended Consequences

At a meeting of the SONAM team responsible for nursing students' utilisation of CIME, the Director was thanked by Assistant Dean, Rubina Barolia, for imposing a change that eventually made a big difference in students' experiences of simulation, and an improvement in their competence as a result. What was this cutting edge, state of the art innovation? Sad to say it was nothing more than removing seating from simulated practice areas! Students were no longer allowed to vegetate while waiting to practice. It doesn't happen in hospital wards, therefore why should students lol around crowding out simulated wards? Neither should they be taking notes. Or being lectured to. They should be having active simulated experiences to later reflect on. Working. On their feet.



Changing one part of a system has consequences for the whole system. Perplexed at first, vocal and resistant, when faced with no choice (and no seats) over the past two years faculty have embraced the change and created smaller groups, more active simulation activities and increased student 'time on task'. The net result? Anecdotally, faculty say that students are now better engaged, better supervised and are developing skills in a more rigorous way. All because they're not allowed to sit!

We have recently found a new home for 40 beautiful, hand-made 2-seater wooden benches. They are fantastic for plantpots, vegetation, and vegetating nurses wherever these need to be cultivated, but definitely not in CIME.



## Surviving sepsis

Septic shock can be life threatening to patients, a challenge to the healthcare team and an emotional whirlwind for families. Having faith in nurses and doctors brings hope to patients and families.

AKU 'Internal Medicine' service line worked with CIME to design a workshop to empower nurses to support patients and their families through these anxious situations. Thirteen nurses had an opportunity to refresh their knowledge and skills in providing holistic care to patients in septic shock, enhancing their competence and critical thinking capability.



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# Centre for Innovation in Medical Education

## “Anaesthesia Management of Postpartum Haemorrhage”

December 4, 2019 | 8 am to 2 pm

### Introduction and Aims

In Pakistan, more than 8000 women die and about 150,000 women suffer from the postpartum hemorrhage complications every year. Postpartum haemorrhage is an emergency and lack of experience and competence can lead to detrimental consequences for the patient. This course is envisaged to improve clinical outcomes, by reducing the likelihood of medical error and by achieving competency in response to obstetrics bleeding emergencies.

### Learning Outcomes

By the end of this course, the learners will be able to:

1. Identify women who may be at particularly high risk of PPH and to allow prompt intervention should excessive bleeding occur.
2. Demonstrate the protocol for general anaesthesia and the medications used.
3. Demonstrate vitals monitoring and anaesthesia management during the caesarean section and promptly intervene.
4. Recognize and calculate the allowable & estimated blood loss.
5. Demonstrate leadership and effective communication with assistants and team members.
6. Demonstrate the correct use of medications, including dose, route of administration, contraindications and its side effects for a patient with a postpartum hemorrhage.
7. Evaluate the patient and communicate with the ICU team for patient transfer and instructions for post-operative care.

### Course Features

Human Patient Simulator – High fidelity obstetric haemorrhage scenario in OR

### Course Faculty

Dr Sobia Khan, Assistant Professor, Anaesthesiology, AKU  
Dr Faisal Khan, Assistant Professor, Anaesthesiology, AKU  
Dr Asiya Aman, Senior Instructor, Anaesthesiology, AKU

**Registration fee:** Rs. 5,000

**Note:** Limited seats available (First 8 delegates)

5.5 AACME Category 1 Credit(s) will be provided on completion of this course.



Find us on:





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

December 9-13, 2019 | 9 am to 5 pm

Learning Space, 1<sup>st</sup> Floor, 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 November 29, 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

