

# CIME

CENTRE FOR INNOVATION IN MEDICAL EDUCATION



آغا خان یونیورسٹی

THE AGA KHAN UNIVERSITY

Newsletter | June 2018



## 13th AKU Ilizarov Course

The Ilizarov apparatus is a type of external fixation used in orthopaedic surgery to lengthen or reshape limb bones; as a limb-sparing technique to treat complex and/or open bone fractures; and in cases of infected non-union of bones that are not treatable with other techniques. It is named after the orthopaedic surgeon Gavriil Abramovich Ilizarov from the Soviet Union, who pioneered the technique.

The orthopaedics section of the Department of Surgery

organised the 13th Ilizarov Course at AKU from May 4-6, 2018 this time in CIME. The highlights of this course were the assessment of bone deformity and its correction principles and the application of Ilizarov frame for various surgical indications.

There were several interactive sessions and hands-on practical sessions. The course was accredited with AACME credit hours.



## Victoria – Meet Our New Simulation Family Member

### Complementing obstetric, nursing and midwifery training

According to the Pakistan Demographic and Health Survey (PDHS) of 2012-13, at least half of the births in Pakistan at that time were at home. Little has changed since then. Only 52pc of births are assisted by a skilled birth attendant, while the rest are not supervised by any trained person. The ability to care for the mother and newborn is very limited in the home, with no access to immediate life-saving procedures, otherwise provided at good health facilities. In this situation, every health professional, every medical student and every nursing student has the potential to save lives in a birthing emergency, if called to assist in their own communities. That's why both medical and nursing curricula feature maternal and child care so highly in order that graduates are equipped with the relevant skills, knowledge and experiential learning in order to become competent at managing a straightforward birthing process. For cultural reasons male students face challenges having access to pregnant moms and women in labour, in many parts of the world, including Pakistan.

This is the rationale for the purchase of two birthing simulators, named Victoria, that not only look like full-term patients, but actually give birth like one as well. We also have two advanced newborn simulators, Supertory, that can be assessed and rated on the APGAR scale. For our undergraduate students, there will be opportunities to practice one-on-one with the birthing mannequin and

acquire the experiential learning necessary to cope in the real situation. This is 270 births in CIME per year, for these students alone. At this rate we will need to increase our simulated child-care facilities. For post-graduates and midwives, a host of complications can be replicated to sharpen the skills needed in those emergency situations. Equipment used on actual patients, such as a fetal monitor, pulse oximeter, or blood pressure monitor, can also be used on Victoria. The simulator even allows for epidural procedures. Supertory has a heart rate, rhythm, limb movement, facial expression and crying. The neonate simulator can be programmed with a spectrum of complications, including cyanosis and labored breathing. Victoria can have any number of complications. As in real life, her condition can change on the spot and could need the attention of the emergency room, operating room or neonatal intensive care staff.

For AKU students and faculty there are exciting opportunities ahead in the different scenarios being planned for Victoria, to illustrate the continuum of care from home to hospital, and within the hospital itself, the journey through ER, obstetric ward, labour room, and obstetric OR can all be replicated. In multidisciplinary contexts, role responsibilities, skills and knowledge can all be examined in relation to these scenarios.

## Future Nurses and Doctors @ CIME

The AKU Centre for Early Child Development recognizes that young children's early experiences and environment lay the foundation for their future health, success and well-being. Young children are keen observers and at CECD, they are encouraged to learn through experience and exploration.

Eleven toddlers from CECD visited CIME accompanied by their teachers and parents. Children imitated doctors and checked the pulse and heartbeats of the simulators, shook hands with a human skeleton and tried to soothe the crying simulated baby. Children expressed their love and concern for the simulators and enjoyed their visit thoroughly. Click on the link to watch a short video clip... <https://goo.gl/Tu9Eo5>



## Simulation in Action! A One Minute Video by Dolliewood Production

You know how hard it can be to make videos in-house. You don't necessarily need expensive equipment or even your own original footage to produce videos, but you do need good performances from those featured, and a full understanding of what you want to use the video for.

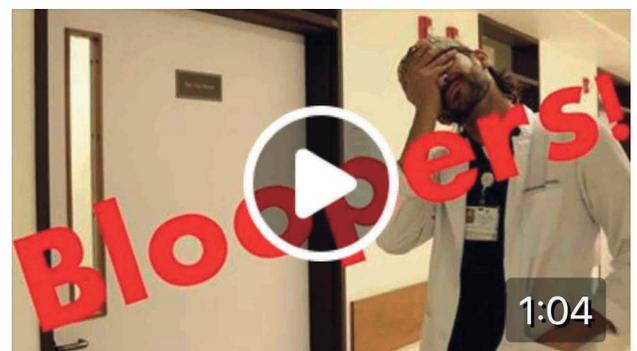
Dolliewood production made a one minute video named "Simulation in Action". The objective of this video was to show people some of the more acute clinical environments of CIME and to spread awareness about clinical simulation in a fast-flowing series of simulations. The video promotes the concept that

**"simulation creates competence saves lives".**

The video has received 10,750 organic views at the time of writing with 8,100 post clicks and more than 1,200 reactions, comments & shares on Facebook.

Dolliewood production consists of students and staff dedicated to produce videos for CIME. The next plan is to make academic videos and continue the series of one minute video.

There was a lot of blood, sweat, and tears as well as laughter in the making of a simple one minute video that requires one continuous shot, which you can see in the video "behind the scenes".



## Basic Surgical Skills Workshop

A 'Basic Surgical Skills' workshop was organised for general surgery residents by the Department of Surgery. It is for trainees anticipating a career in Surgery and preparing for basic surgical examinations.

The course aims to familiarize the junior residents regarding surgical knots and suturing, to teach safe operating techniques and stresses the importance of precautions for safe theatre practice.



## GI Endoscopy and ERCP Workshop

CIME in collaboration of Getz Pharma organised a GI Endoscopy and Endoscopic Retrograde Cholangio Pancreatography (ERCP) Workshop. The objective was to enhance the learning and capacity of practicing gastroenterologist on fundamental skills in Endoscopy & Clinical Bleeding Situations and ERCP through simulation training. The purpose of this workshop was to develop the skills and academic learning through simulation based hands-on session and to promote the culture of innovation and professional ethics. Novice endoscopists had the opportunity for basic training of diagnostic and therapeutic ERCP procedures, while more advanced practitioners had the chance to refine and hone their skills.



## Cardiology Survival Skills Workshop

The Department of Emergency Medicine arranged four-hours of hands-on simulation in a Cardiology Survival Skills Workshop for trainees. Cardiovascular examination was facilitated on Harvey - the cardiopulmonary patient simulator. In addition, each participant had ample time for hands-on practice of bedside echocardiography on Vimedex; simulated patient examination, and SonoSim, while discussing common Emergency Department scenarios.

The workshop was a great success and received an overwhelmingly positive response. The course faculty included Dr Madiha Ismail, Dr Muhammad Baqir, Dr Khusro Shamim and Dr Sohaib Haider. It received commendable reviews from the participants who were able to practice and sharpen their skills using the advanced equipment available at CIME.



## TED Talk by Sofia Babool, One of our Global Encounter students

"We shouldn't equate the underdevelopment of a country to the underdevelopment of its people."  
Watch Sofia Babool's TED talk on Lives Upgraded.



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## CIME Tours



French Ambassador



A delegation from Oman



A delegation from Portugal accompanied by Portugal Ambassador

# Clinical Simulation Educator Programme

## 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. Coming soon will be a programme for Strategic Planners of Clinical Simulation, and another for Clinical Simulator Operators.

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. This is the first programme of its kind to be offered nationally.

## 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
- Modules 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           Cultural competence & the ethical dimensions of clinical simulation
- Module 10        Measuring the outcomes of simulation OSCE

## Details

Date: September 10-14, 2018

Venue: Centre for Innovation in Medical Education (CIME), Aga Khan University, Karachi

Registration Fee: Rs. 30,000

Contact: 021-3486-3731-3701 or hamza.iqbal@aku.edu

Register before August 10th, 2018

Limited Registration (First 20 delegates)

The programme has been designated for 29 CME credit hours

See what our faculty have to say about this programme.



## New Arrivals

### Arthro Mentor Simulator

Training modules in increasing difficulty include healthy anatomies and various pathologies in the following:

- Fundamentals of Arthroscopic Surgery Training (FAST)
- Arthroscopy basic skills
- Knee diagnostic and therapeutic procedures
- Shoulder diagnostic and therapeutic procedures
- Hip diagnostic procedures



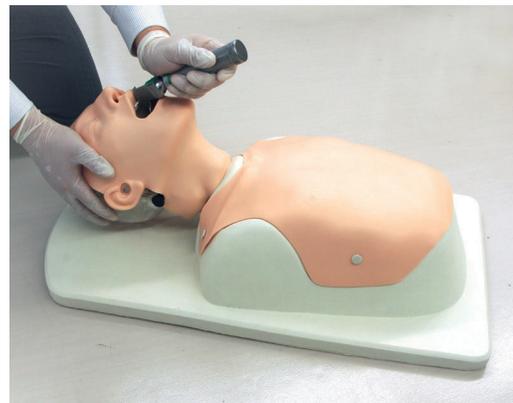
### SimShirt

- Real Sound Library
- Echo Cardiogram Videos
- ECG waveform for heart sounds
- New and easily navigable software programme
- Lightweight and Portable
- Students use their own Stethoscope
- Large Library of Sounds
- Carotid Pulse
- Phonocardiogram



### Difficult Airway Management Simulator

The Difficult Airway Management (D.A.M.) Simulator offers realistic airway management training. Including various lessons: mouth opening (3 steps), neck flexibility (2 steps) and inflatable tongue and laryngospasm.



### Saw Bone Arthroscopy Simulator

This workstation is a versatile trainer designed to train improve arthroscopic psychomotor skills. There are several modules available to test and develop skills for cutting, grasping, moving and tying. It is reusable and lightweight.



## Hip Sonography in newborns & Infants (Phantom)

- Setting and preparation for hip sonography
- Correct positioning and use of the transducer
- Recognition of ultrasonic landmarks for hip sonography
- Visualization of standard, anterior and posterior planes
- Interpretation and morphological classification of the sonogram



## Female Pelvic Ultrasound Phantom

- Both transvaginal and transabdominal scanning are possible.
- Two types of interchangeable phantom inserts with different pathologies
- Realistic view of female external genital
- Excellent ultrasound image quality



## 5,000 Likes on Facebook!

We would like to take a moment to thank each and every fan that liked us on Facebook! A BIG Thank you to all 5,000+ fans for all your love, support and appreciation! Like, Comment and Share our Facebook page... <https://www.facebook.com/AKUCIME/>



## Breaking News!

CIME is now an acknowledged centre by the Society for Simulation in Healthcare (SSH). We are now up in the simulation centre directory... <https://bit.ly/2Lq5H7p>

