



## Clinical Simulation Educators Programme: Moving with the times

This is the third of our CSEP courses and brings the total of successful participants to 47. The course was taught by experienced professionals who disseminated their knowledge to participants through 10 different modules. Previously held sessions have been heralded as informative and productive, leading to a large number of healthcare professionals who are skilled and properly

equipped to work with simulation based teaching modalities.

Registration is open for the 4th Educators Programme which will be held on August 5, 2019.

For detailed information, visit our website:

<https://bit.ly/2SckhBq>

For online registration, click here: <https://bit.ly/2SHcYHa>

## Helping men age easier – Surgical skills workshop on TURP



Clinical benign prostatic hyperplasia (BPH) is almost unavoidable and one of the most common ailments in ageing men, where the prevalence is seen to increase after the age of 40 years, rising to 60% at the age of 90 years. It can be appreciated that Transurethral Resection of the Prostate (TURP), being the most effective treatment for BPH, is a very common procedure in hospital. Even so, it is not without its risks and complications, and not something that can be treated with complacency. It is in a very 'delicate' part of the male anatomy and on the very rare occasion when things don't go to plan it may have profound psychological implications for self-image and expressing sexuality as well as having a devastating effect on all aspects of daily life in the extremely rare event that incontinence occurs.

But not to worry! To provide reassurance to all ageing men out there (and no-one is getting any younger) CIME is providing a helping hand by ensuring that urology surgeons across Karachi had the opportunity to attend a one-day workshop on TURP delivered by the AKU Urology section head. This used a mixture of educational methods, from didactic lectures on the complications and procedural skills, revisiting relevant anatomy, and an

overview of techniques and protocols for effective resection while controlling excessive bleeding. Most importantly, participants practiced in the comfort and safety of high fidelity simulation, and through realistic cases were able to master different techniques, all the while receiving Haptic feedback from the simulator on their instrumentation skills. The overall feedback from participants was that the workshop was very positive with the participants applauding the efforts of CIME to decrease male morbidity.



## Anaesthesiologist – a key role in the Management of Postpartum Haemorrhage



How anaesthesiologists manage postpartum haemorrhage (PPH) is one of the major factors defining its outcome. This is a crucial moment when a happy family occasion becomes a life-or-death emergency. Knowing what to do and how to do it will make the difference, but if you have never experienced this situation before how do you learn? Now is not the time to practice: a mother's life depends on what you do in that moment, so you need to have gained some competence beforehand. This is a classic indication for practicing in the safety of clinical simulation.

The team at CIME, working with the department of Anaesthesiology arranged a simulation course for their residents entitled "Anaesthesia Management of PPH with Placenta Previa". This is a situation where you can anticipate blood loss because the placenta needs to detach as the baby is being born otherwise it will block the birth canal. The course was aimed to equip learners with the knowledge, skills and experience of dealing with

massive blood loss should it occur. This was a complex scenario in two stages: labour ward and OR. Fidelity was provided by the high quality of the simulated environments and simulators, which together with a realistic story-line encouraged residents to 'suspend disbelief' and to treat this as a real situation. As such, their performances were authentic giving the residents themselves and their faculty opportunities to identify strengths and areas for improvement. Video stimulated recall, through our debriefing system, was an additional cue for participants to identify learning opportunities.

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. It will also help learners in acquiring a confident approach in stressful situations all of which will eventually help to improve the safety of obstetrics patients and their health outcomes.

## Preparing for competence

Trainee Nursing Technicians experience simulated home care in CIME



In providing care in the community, care providers have to function differently compared with equivalent professionals working in hospitals. For a start the community worker is normally alone and works autonomously. The relationship with the 'patient' is different too: it is much more of a 'client-provider' partnership, with consent being explicitly required by the community worker before doing anything – even before sitting down! Neither can you 'tell' someone what to do in their own home: the power relationship flips 180 degrees. You can be thrown out if the client doesn't like what you, the community worker is saying or doing. On the other hand you could be considered a close family friend by some clients, a situation which may have its own challenges. Therefore for home care to be successful, soft-skills such as attitude, building trust, diplomacy and communication are as vital as being able to adapt the principles of care to the home context. To address this challenging need, CIME in partnership with Home Health Services, AKU delivered five days of skills-based simulation workshops for trainee nursing technicians. These workshops aimed to help participants to overcome

their concerns and enhance their ability to independently and competently perform basic nursing skills within the home setting, while ensuring quality care and patient safety. For this workshop, the simulated community apartment was an ideal context. The workshop not only developed psychomotor skills, but also enhanced critical thinking, team building, communication, problem-solving and decision-making skills, to ensure that these trainees worked competently within the parameters of their role.



## New born babies – beautiful but vulnerable

It is estimated that of the 130 million infants born each year worldwide, 4 million die in the first 28 days of life. Two-thirds of the world's neonatal deaths occur in just 10 countries, mostly in Asia. Pakistan is number three among these countries. 298,000 neonatal deaths occur every year at a rate of 49 per 1000 live births, with Pakistan accounting for 7% of global neonatal deaths overall [1]. These are shocking statistics.

With the aim of improving infant morbidity and mortality, CIME in collaboration with the Department of Emergency Medicine delivered a Neonatal Resuscitation Programme to enhance the knowledge, skills and expertise of 20 General Practitioners

from around Karachi. The programme utilised a mixed approach, including interactive lectures and hands-on simulated practice to bridge the gap between theory and practice. The key focus was on imparting knowledge and experience to the participants so that they could identify, manage and apply appropriate techniques for the resuscitation of a neonate in distress.

The feedback received acknowledged that the workshop was much needed and participants appreciated the quality of the programme, stating the need for further opportunities to augment their abilities in emergency situations.

[1] <https://www.who.int/bulletin/volumes/87/2/08-050963/en/>



## Celebrating Renal Transplant Nurses Month

The Urology and Nephrology Service Line 06 celebrated April 2019 as Renal Transplant Nurses Month by organising a simulation workshop on “Care of Patient with Renal Transplant”. The course outline was established after reviewing European Association of Urology Nurses (EAUN) renal transplant guidelines. The aim was to enhance the knowledge and skills of nurses and to provide hands-on simulation experience.

Learners performed an assessment of patients having urological disorders, using high fidelity simulator SimMan 3G. Debriefing compared actual performance to desired performance, revealing to participants their strengths, but also areas for improvement.

## Enhancing skills to improve patient satisfaction



Communication is one of the most important tools to improve patient experience, nurture patient satisfaction and reduce the risk of medical errors. Dealing with real life patients for the first time is an overwhelming experience in itself and initiating a conversation with them almost always makes novice trainees uncomfortable. Achieving therapeutic outcomes through communication at first is an impossible task. CIME in collaboration with School of Nursing and Midwifery has developed a course entitled “Introduction of therapeutic communication skills and hands-on practice” for nursing year 1 students to enhance their clinical competency before they start their clinical practice.

This course includes two modules: Therapeutic communication skills & clinical skills hands-on practice.

For therapeutic communication simulated patients (SPs) were used. These individuals from our SP Bank of over 100 individuals, were briefed and supported to demonstrate attributes according to the cases they represented. Students then had to communicate with the ‘patient’: the reality was superb and it allowed students to attempt different approaches to initiating conversation and using communication tools such as closed questions and techniques such as ‘probing’, in psychological safety. Such scenarios helped achieve the aims of the session, which were to

- Communicate with patients in a manner consistent with ethical and culturally sensitive behaviour.
- Apply therapeutic communication techniques while taking interview.

## Students Educating Students



SPIE (the interprofessional Society for Promoting Innovation in Education) conducted its second CPR awareness session at the Dawood Public School on April 13, 2019 under the leadership of 4th year MBBS student Muhammad Ali. This is part of an extensive on-going programme of health education designed and delivered by students, quality assured by AKU faculty, and supported logistically by CIME. This activity was attended by 70 students from grade 7: the first session was attended by over 80.

In these sessions pupils were taught the first-aid of what to do when someone collapses and how to tell if someone has just fainted or is having a cardiac arrest. The importance of calling for help was emphasised before being shown how to open an airway and how to perform 'Hands-Only' CPR. This is as effective as also providing breaths, at least in the early stages of resuscitation until help arrives and is a lot better than doing nothing. It overcomes the aversion that bystanders may have to providing the 'kiss of life'. Each of the participants had to undergo a hands-on training session with a pre & post-test.

Sabrina Dawood, CEO of Dawood Foundation and Trustee of Dawood Public School wrote:

Dear Prof Charles,

I would like to profusely thank you and your team for the health sessions today. The students have loved the session. I cannot tell you how grateful we all are. Can't wait till next week :)

Best wishes,

Sabrina

The students aim to continue and will 'own' this group as they enter grade 8 next academic year. We acknowledge the enthusiasm and dedication of the organising team in volunteering to invest their knowledge, time and developing skills to help progress AKU's mission.

## Video: Clinical Simulation Educators Programme

**Register Now!**

Online Registration: <https://www.aku.edu/cime/Pages/course-registration.aspx>

Detailed Information: <https://www.aku.edu/cime/Pages/educators-programme.aspx>



Video link: <https://youtu.be/OQjp3K0elew>

### Let's get social

Follow us on Instagram & YouTube and receive updates of all the upcoming activities, announcements, news & events.

YouTube: *AKU's Centre for Innovation in Medical Education*

Instagram: *aku\_cime*



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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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Organised by:  
Centre for Innovation in Medical Education,  
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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 5<sup>th</sup> and get early bird rate of Rs. 50,000



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