



Training the Future Healthcare Leaders for the best! Labour Workshop for Medicine Undergraduate Year 4 Students

In Pakistan, the maternal mortality ratio is alarmingly high. In order to contribute to its reduction, CIME organises workshops and training sessions. Recently, CIME in collaboration with the Department of Obstetrics and Gynaecology organised a Labour Workshop to expose the medicine undergraduate year 4 students to the fundamentals of obstetrics in an interactive and hands-on manner, so as to maximize interest, knowledge retention and skill development.

The aim was to provide a general orientation to students for labour room and to give them knowledge of labour. The workshop enhanced students competencies to interpret the CTG, Partogram, understand normal labour and its management, demonstrate normal delivery on the Victoria mannequin, and demonstrate professionalism and teamwork.

A collaborative approach to train the residents of the Department of Surgery, Section of Urology



The Department of Surgery, Section of Urology in collaboration with CIME, Pakistan Association of Urological Surgeons – Karachi Chapter and U-merge Association organised the hands-on trainings for residents on the procedure called Holmium Laser Enucleation of the Prostate (HoLEP) and Vascular and Ureterovesical Anastomosis in Kidney Transplant.

HoLEP is a modern alternative to the standard Transurethral Resection of the Prostate (TURP) procedure for bladder outflow obstruction due to BPH. Residents learned how to master instruments and manage

complications without involving live patients. Residents were given an opportunity to practice and perfect their surgical skills by using Virtamed – high fidelity urology surgical simulator.

The Vascular and Ureterovesical Anastomosis in Kidney Transplant workshop was a great success. Residents practiced their surgical skills on biological tissues in a hands-on session. The main themes of this workshop were “Expanding indications for renal transplant” and “Tips of vascular and ureteroneocystostomy”.

Training of Trainers

Evidence Based Standards for Contraception Workshop

The Department of Obstetrics and Gynaecology in collaboration with CIME organised this workshop with the objective to update trainees with modern contraception options. During the hands-on training, participants learned how to apply and manage the Jadelle Implant, MEC Wheel and Postpartum Intrauterine Contraceptive Device (PPIUCD) in clinical practice.





Provost Talk on “Policymaking in Health”

The Department of Community Health Sciences organised a session on ‘Policymaking in Health’ at CIME, where the Provost and Vice-President Academics Dr Carl Amrhein spoke in depth about his experience as the deputy health minister in Alberta, Canada. A position that he occupied from 2015-17.

He shared his experience regarding the challenges and opportunities such a position offers. He presented the case of implementation of electronic health records (eHR), and the challenges he faced with getting major stakeholders such as physicians and nurses on board.

This was particularly difficult at the time since oil prices, one of Alberta’s main exports, had plummeted leading to severe budget constraints. The other major challenge with the implementation of eHR was the issue around ownership of the patient records and concerns with the privacy of data.

He also shared what he recalls to be one of the most difficult debates on the implementation of ‘medically assisted dying’ in a multi-cultural state with strong conservative lobbies. The lecture raised great interest among the audience and Dr Amrhein has kindly agreed to give a series of similar sessions to AKU faculty.

Certificate Course in Simulation-Based Cataract Surgery

Eye surgery is a complex operation requiring accurate hand-eye coordination and fine motor movements for handling of delicate instruments. It is difficult to learn, requires practice and slight negligence can even lead to blindness. For many years it has been taught and practiced on the actual patients which can put them at risk of getting harmed by the novice. Patient’s safety and surgical efficacy cannot be sacrificed for educational purposes, validating the significance of surgical simulators such as EyeSi designed to improve training without causing harm to the patients. CIME introduced a two-day certificate course in simulation-based cataract surgery for ophthalmology residents. There were a total of six residents participated in this course. The course not only enabled them to develop the spatial understanding and instrument handling techniques but also provided them with the opportunity for trial and error, through detailed feedback on their performances. It was very positively evaluated.



Identifying and managing patients at high risk in orthopaedics

A two-day course on Sentinel Events for nursing staff



A sentinel event can be defined as ‘any unanticipated event in a healthcare setting resulting in death or serious physical or psychological injury to a patient or patients, not related to the natural course of the patient's illness’ (Wikipedia). The number of sentinel events, and their location, causes and outcomes are naturally of great strategic significance to any hospital with the welfare of patients at heart. Within this context, CIME organised a two-day course focusing on ‘Sentinel Events’ in collaboration with the Department of Surgery: Orthopaedics. Most orthopaedic patients are admitted in general care setting with no need for sophisticated monitoring. These patients could therefore be at risk of the unexpected adverse event or complication. Knowledgeable nurses with well-developed skills in clinical assessment and situational awareness can make the difference between recognising a deteriorating situation

requiring immediate action, and allowing events to progress to a point where it becomes a life-threatening emergency. Through simulated practice and feedback, this course empowered nurses to enhance their skills, critical thinking, clinical assessment and observation designed to help them to respond promptly to a patient’s deteriorating signs and symptoms, crucial to avoiding sentinel events. By the end of this course, the participants were able to understand different complications of Orthopaedic Surgery, identifying high-risk patients and planning appropriate care. Skills were acquired in managing complications in a timely and thoughtful manner through immediate assessment and diagnosis, pursuing the right interventions to reach the desired outcomes, while demonstrating situational awareness and effective group dynamics during emergencies.

Management of Oncology Patients with Neutropenia

A Simulation Course for Nurse Interns



Palliative care is defined as “Care given to improve the quality of life of patients who have serious or life threatening disease”. It requires a multidisciplinary team approach including palliative care specialists and specialised healthcare professionals. Oncology patients undergo extensively debilitating treatments like chemotherapy and radiotherapy, which makes them immunocompromised and are risk for a wide range of infections. Therefore, a good infection prevention programme and education of the patients and their families are very important aspects of care designed to minimise this risk.

CIME in collaboration with School of Nursing and Midwifery arranged a Neutropenia Course for Nurse

Interns. The aim was to provide an overview to participants about the assessment, diagnosis, care and provision of the most effective interventions for clients admitted to emergency care suffering from chemotherapy related neutropenia.

At the end of this course, participants were able to recognise the clinical presentation of neutropenia, manage complications in a timely and thoughtful manner through immediate assessment, nursing diagnoses and interventions. Excellence in communicating with the patient and family is a necessity in this type of situation, to minimise uncertainty and to reduce anxiety regarding the requirements of care and in anticipation of discharge planning.

A symposium on Orbital and Facial Reconstruction was organised by the Department of Surgery, Section of Ophthalmology in collaboration with CIME. There were three international and five national speakers with 150 participants in attendance. This programme was unique because of its multi-specialty programme with participation from Neuro surgery, Maxillofacial, Ophthalmology and Plastic Surgery. This was a platform where AKU partnered with relevant national forum; Pakistan Oculoplastics Association, Pakistan Maxillofacial association, Ophthalmic society of Pakistan.



Death and Dying Simulation Scenario



CIME in collaboration with School of Nursing and Midwifery organised a 'Death and Dying Simulation Scenario' for trainee nurse interns, using the high fidelity simulator SimMan 3G.

The course focused on the principles of palliative nursing for adult patients and their caregivers. It facilitated the interns to understand and relate the concepts of terminal illnesses and its associated practical issues in the context of their physical, psychological, social, spiritual and sexual needs.

The course provided interns with the chance to practice relevant skills related to patient death in a safe setting. Interns demonstrated high levels of learner satisfaction using high fidelity simulator – SimMan 3G as a patient in this simulation scenario.





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THE AGA KHAN UNIVERSITY

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Centre for Innovation in Medical Education PGME Boot Camp for Interns & Residents

December 28-31, 2018 | 8 am to 5 pm
Multipurpose Hall, CIME



CIME and Post-Graduate Medical Education are conducting a 4-day intensive Boot Camp for new interns and residents of the Aga Khan University Hospital (AKUH) for the year 2019. This will provide a solid foundation in essential clinical skills through simulation based learning in preparation for the unique context of AKUH.

The programme will facilitate the transition of participants from medical school to the hospital setting, while providing opportunities for the development of professional relationships and group cohesion in preparation for their clinical programmes.



Learning Outcomes

By the end of this Boot Camp the participants will be able to:

1. Demonstrate both technical and soft skills in hospital contexts following standard protocols.
2. Critically appraise their own practices while practicing in a safe, simulated environment.
3. Demonstrate competence in 10 essential clinical skills and gain certification in Basic Life Support.
4. Demonstrate skills and a confident, error-free approach while dealing with patients and their families in AKUH.



Find us on:





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Centre for Innovation in Medical Education Clinical Simulation Leadership Programme

May 6-7, 2019 | 8 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 stake-holders 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. 70,000

Credit hours will be provided on completion on this programme.

Note: Register by February 28 and get early bird rate of Rs. 50,000



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Centre for Innovation in Medical Education Clinical Simulation Educators Programme

February 11-15, 2019 | 8 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. 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.

Teaching and learning strategies

Participants will be actively engaged in challenging but well supported activities. Theoretical content 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 Descriptions

This programme consists of 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 Cultural competence & the ethical dimensions of clinical simulation
- Module 10 Measuring the outcomes of simulation

Registration

- Rs. 30,000.00
- Register before January 11th, 2019
- Limited Registration (First 20 Registrations)



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 confirm that this activity does not have any relevant financial interest, arrangement or affiliation that would constitute a conflict of interest

