



Advanced Comprehensive Clinical Training and Simulation Centre

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ADVANCED COMPREHENSIVE CLINICAL TRAINING AND SIMULATION CENTER (ACTS-YEN)

This is a unique Centre and the largest state of the art simulation facility in the country with the current version simulators. Yenepoya University Simulation Centre was conceptualised in 2016. ACTS- YEN is a major step towards Yenepoya University's vision of providing and promoting excellence in clinical care, competency based health professions education, ethical student training and paving the road towards improved patient care, safety and satisfaction.



BENEFITS OF SIMULATION TRAINING

Integrating simulation, in graduate and post graduate curriculum, should facilitate more ethical training with least harm and discomfort to patient. Multi-disciplinary & team training for emergency situations will result in better team dynamics, communication and behavioural skills and more realistic training.

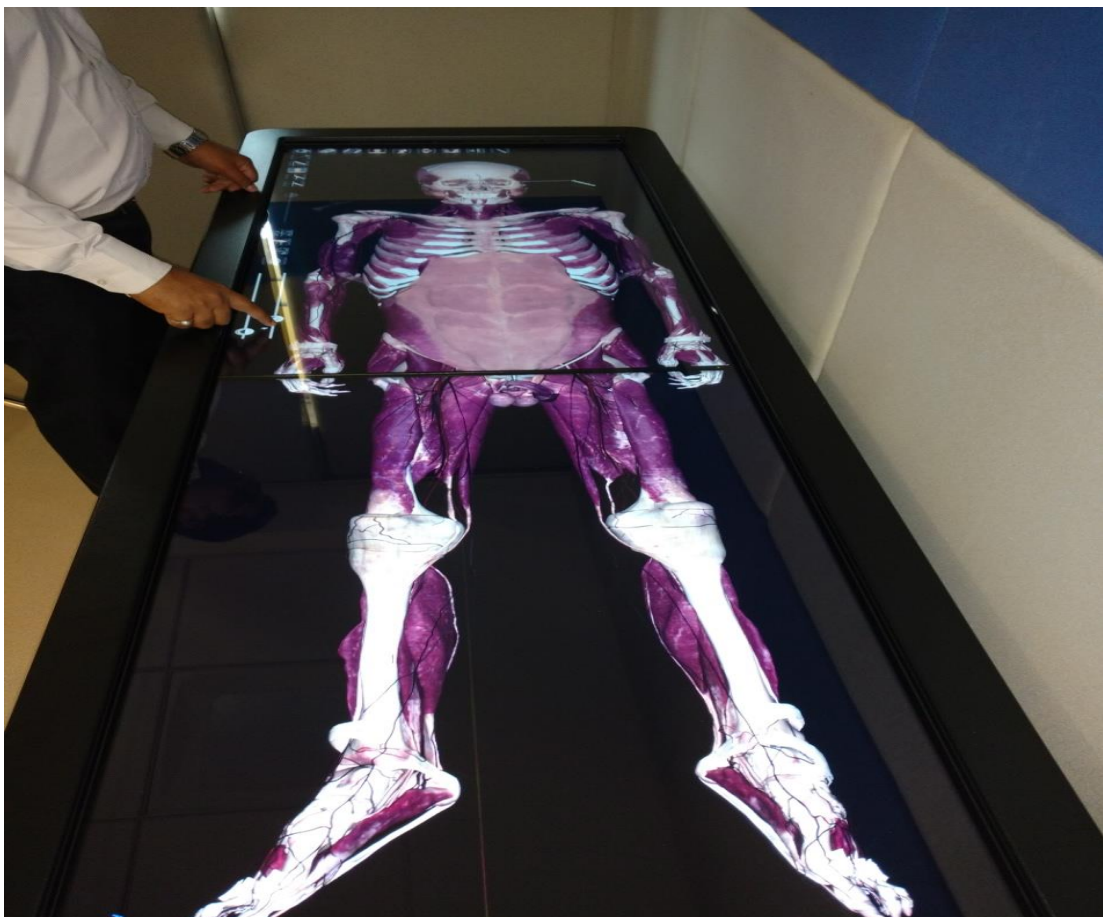
Simulation based learning helps to mitigate errors and maintain safety in medical field where there is zero tolerance for any deviation from the Standard protocols. It provides opportunity for training to be conducted for inter-professional team of health providers rather than in isolation. The simulation centre - ACTS YEN provides reproducible and on-demand access to patients and clinical experiences through the simulators and task trainers.



FACILITIES OFFERED AT ACTS YEN

The centre is housed in the Emergency Medicine Department Building on the 8th floor. It boasts of a state of the art infrastructure, centrally air conditioned complex spread over more than 5,000 square feet, well equipped with a wide range basic task trainers to high fidelity mannequins, Anatomage and virtual reality simulators, an indoor auditorium with capacity of 250 and two debriefing rooms.

The Anatomage Table- A technological masterpiece - *Anatomage*, offers an opportunity to learn anatomy in a very different & unique manner. It provides three dimensional virtual dissection of the human body. It is also a powerful radiology workstation, tool for surgical & pathological case review.



High fidelity simulators incorporate computerised mannequins that closely mimic anatomy & hemodynamic physiology of a human body. The centre houses a variety of high, intermediate and low fidelity simulators including infant, paediatric, adult (Metiman and HPS) and Maternal Fetal simulator. These can imitate clinical and medical conditions such as heart attack, shock, trauma, normal & difficult labour, post partum haemorrhage, drug overdose just to name a few . The mannequins respond to drugs, procedures (like intubation) and actual equipment (like defibrillator). Advanced resuscitation equipment, medications, anaesthetic gases and imaging monitor display capability are some of the essentials incorporated into the design of the Simulation Centre.

The *Virtual Reality Simulators* like endoscopy trainer, laparoscopy trainer, cathlab, ultra sound, Ophthalmic and Otoscopic viewers allows trainees or surgeons to practice procedural skills to perform minimally invasive surgeries, including bronchoscopes, upper and lower gastrointestinal endoscopies, cardiac valve replacements, transthoracic ultra sound and so on. The **blue phantoms** mannequins allow training for regional anaesthesia.

Beneficiaries include health professional – graduates, post graduates, degree or diploma students to practicing general physicians, specialists and super specialists, nursing faculty as well as Para-medical members of team as well as health professionals.

ACTIVITIES AT ACTS-YEN

1. Simulation based teaching is carried out on regular basis for undergraduates, postgraduates and Interns.



2. Faculty Development training are conducted by visiting resource faculties like Dr Marraro from Italy and Dr Anand Hinduja from Mumbai.



3. Workshops are conducted by different departments on monthly basis for Interns, PG's, nursing staffs, etc.



4. Intern Exit Exam is carried out and we have around 10-11 departments OSCE and evaluating them based on their clinical skills.

5. Simulation based classes for school students from Manipal School were conducted here at ACTS-YEN on Reproductive health.



6. BLS Programs are conducted on a weekly basis for nursing staffs, technicians, lift operators, housekeeping staffs, ambulance drivers both from our university and other institutions.

Also, BLS Program was conducted for the Fire brigadiers from nearby Fire stations.



7. HPSN INDIA 2016 First Human Patient Simulation Network conference to take place in India.



Advanced Comprehensive Clinical Training and Simulation Centre (ACTS-YEN) YENEPLOYA UNIVERSITY, Father Muller Medical College, Mangalore in partnership with CAE Healthcare and their Indian Distributors had conducted the same
