

## Technology Driven Teaching Methodologies- Keeping up with Time and Challenges

**Date:** 24.02.2012

**Time:** 3-5 pm

**Venue:** Senate Hall, The Tamil Nadu Dr. MGR Medical University, Guindy, Chennai.

***Primum non nocere*** - "first do no harm", is the fundamental principle of medical practice.

Medical training has been using live patients to teach and perfect the skills of health professionals. This practice has been questioned as the patients' safety and well-being is being compromised. Balancing between the need for medical training and patients' safety represents a fundamental ethical tension in medical education. Simulation-based learning can help in this situation by developing health professionals' knowledge, skills, and attitudes while protecting patients from unnecessary risk.

Universities and medical schools in India are faced with an ongoing shortage of cadavers for education and research because of insufficient numbers of cadaver donations. Today's medical students carry vast amounts of reference materials on their iPhones and laptops. They're increasingly likely to learn anatomy with a computer in place of a scalpel. And when they graduate, they'll be seeing patients who've had genetic testing to determine disease risk. So how do medical schools adjust their curricula to cope with these twenty-first century realities? Like many other procedures, hands-on cadaver dissections may no longer be a common staple of the first-year medical school experience but may be replaced with three-dimensional anatomical models or robotic patients.

While Simulation based training has been used in many high risk professions such as aviation and military, health care has lagged behind in simulation applications for a number of reasons, including cost, lack of rigorous proof of effect, and resistance to change. With many medical schools currently facing a shift in their teaching paradigm, it is probably time to introduce technologically driven methods of teaching that are consistent, reproducible, standardized and safe. This environment encourages learning through experimentation, with the ability to rewind, rehearse and practice, until the technique is learned, without any negative patient outcomes.

The Tamil Nadu Dr. MGR Medical University, as a part of its ***Silver Jubilee Celebrations*** is organizing a "Training the Trainers" session on simulation in medical curriculum, titled "**Technology Driven Teaching Methodologies- keeping up with time and challenges**". Eminent speakers will elicit the necessity for simulation based training in medical curriculum.

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