ReFEEHS Thematic Workshop 4 Belgrade, May 9-11th, 2018

EXPERIENCES WITH EXPERIENTIAL EDUCATION IN THE CLINICAL PRACTICE AT THE UNIVERSITY OF PÉCS

Réka VAJDA, BSc, MSc
ZSUZSANNA KÍVÉS, BSc, MSc
Dr. Dóra ENDREI, MD, MSc, PhD, habil
Prof. Dr. Imre BONCZ, MD, MSc, PhD, habil

Institute for Health Insurance, University of Pécs, Hungary





The aim of the presentation

 To give an overview of experiences with experiential education in the clinical practice at the Clinical Centre of the University of Pécs

MediSkillsLab - Medical Skills Lab

- The Skillslab is an educational facility in which systematic skills training of many kinds takes place, in a wide variety of formats and circumstances
- First 1976 Maastricht, the Netherlands
- Hungary Established in 2012 at Medical School
- Further development from European Union funding
- Aim of the Lab:
 - Improving the manual skill of medical and health sciences students and physicians
 - At graduate and postgraduate level

Medical Skills Lab tools

- High fidelity simulators
- 3D medical equipments
- Innovative demonstration tools
- Smart technologies

Target population

Medical students

Dental students

• Health sciences students (nurses, physiotherapists, paramedics, health visitors, etc.)

Residents

Senior health care professional

Type of courses

- Graduate programmes for students
- Postgraduate training for residents
- Police Medic Instructor training
- Disaster Medic training
- Chemical, biological, radiological and nuclear (CBRN) defense programme
- Combat Medic / Emergency Medical Technician Basic course

Students' expectations

- High quality education
- Strong theoretical background
- Advanced practical environment
- Getting the neccesary practical skills

Source of students' knowledge

- Books
- Lectures, seminars
- Laboratory
- Practical training
 - Medical Skills Lab
 - Clinical Centre
 - Teaching hospitals

Medical Skills Lab

 Located on the top floor of the Main Building of the Medical School



• the Lab is equipped with realistic dummies, the most up-to-date digital boards, high fidelity and 3D devices to motivate students in preparing for their future profession, even by the side of a patient's bed in hospital.

Medical Skills Lab

(27 April, 2017, Pécs)



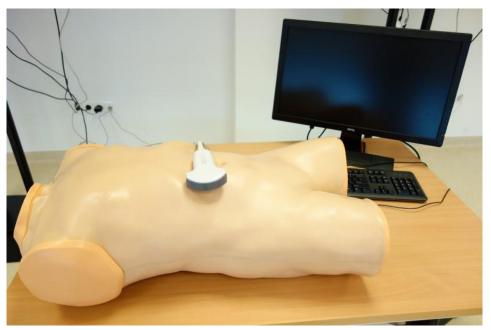
3D LAPAROSCOP SIMULATOR

- Force-feedback system
- Simulated laparoscopic training procedures
- Minimally Invasive Surgery (MIS) skills
- Camera navigation, peg transfer, cutting, clipping and needle driving
- Procedural Skills module (practice adhesiolysis, running the bowel, suturing and knot tying and loop ligation)
- Laparoscopic cholecystectomy and appendectomy
- Ectopic pregnancy and salpingo ophorectomy procedures



3D ULTRASOUND SIMULATOR

- High-fidelity ultrasound simulator
- Realistic simulation of cardiac, lung and abdominal ultrasound that helps learners develop both cognitive and psychomotor skills
- Dynamic 3D augmented reality helps with structure identification and spatial orientation



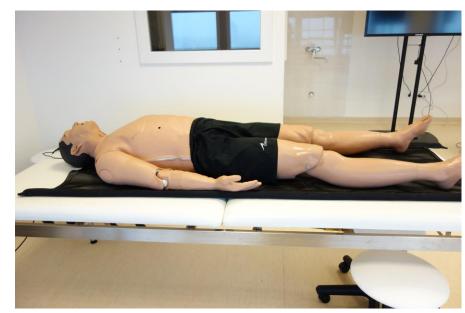
AED (automated external defibrillator)

- Sudden Cardiac Arrest (SCA)
- Ventricular fibrillation (VF)
 or ventricular tachycardia
 (VT)
- HUNGARIAN / ENGLISH / GERMAN version



Ambu® Cardiac Care Trainer System Wireless

- Designed for training Advanced Life Support in ACLS (Advance Cardiac Life Support) algorithms and teamwork, either indoors or on location in field situations
- To practice the oral intubation using modern airway management devices like ET tubes, laryngeal mask
- Shows effectiveness of the resuscitation, including results achieved for ventilation volume and depth of external chest compression



Flexible videoscope/fiberoscope system with monitor

- aScopeTM 3 Family consists of single-use scopes in three sizes, compatible with the reusable monitor
- aScope 3 is suitable for
 - check Intubation
 - check Airway inspection
 - check Tube check
 - check Management of retained secretion
 - check bronchoalveolar lavage(BAL) or bronchial wash (BW)
 - check Percutaneous Dilatational
 Tracheostomy (PDT) procedures
 - check Training of bronchoscopy skills

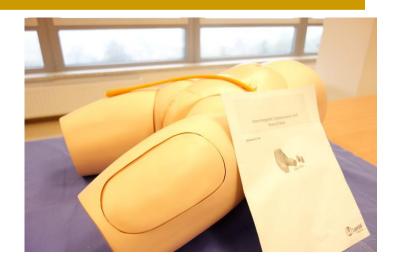




Other tools (1)



Arthery puncture (A. Radialis, a. cubiti)



Conocotomy model

Conocotomy model

(intramuscular injection, stoma care, catheter)



Other tools (2)



Baby BLS model



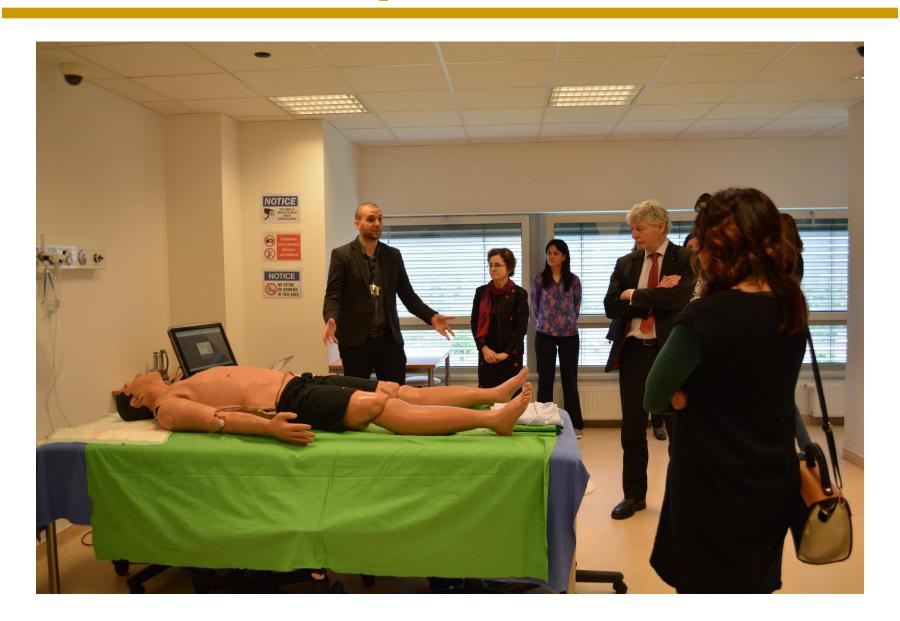
Knotting model (surgical knotting)

Breast examination model (self examination and medical screening)



Medical Skills Lab

(27 April, 2017, Pécs)



Summary

- In conclusion, with the recent changes in the medical education and the fast pace of technological development, Skills Lab have become an important educational environment for the acquisition of clinical skills.
- Many clinical skills can be learned and taught in Labs which provide ideal environment for assessment.
- Half way between theory and patient care
 - it should not replace, but rather complement bedside teaching.
- Improving the safety of care
- Application for graduate, postgraduate education and life long learning

Thank You for your kind attention!

Réka VAJDA BSc, MSc University of Pécs Institute for Health Insurance E-mail: reka.vajda@etk.pte.hu





