

2 APRIL

RSU METC,
26a Anninmuizas blvd.

THE 3RD BALTIC SEA SYMPOSIUM ON SIMULATION AND VIRTUAL REALITY FOR HEALTH CARE EDUCATION AND PATIENT SAFETY

MODERATORS: J. Lorenz (Germany); O. Sabeļņikovs (Latvia)

09:00 – 9:15 **Opening speeches**

Prof. Guntis Bahs,
Vice-Rector for Health Studies, Rīga
Stradiņš University

Prof. Juergen Lorenz,
Hamburg Applied Science
University, Faculty of Life Science,
Department of Biomedical
Engineering

Simulation-based education in Baltic countries

MODERATORS: J. Lorenz (Germany); O. Sabeļņikovs (Latvia)

09:15– 10:00 **The role of simulation-based medicine in
quality and safety of medical care**

Simulation-based medical education (SBME) has made significant progress within the last decade. The series of Baltic sea symposia on simulation and virtual reality for health care education and patient safety started in 2016 in Riga and aims to update and share the experiences and research in the field of SBME within the medical education community of the associated universities. This review focusses on the major features of SBME with special emphasis on knowledge and skill acquisition in critical care procedures in pre-clinical settings and inter-professional training scenarios of mass casualty victims.

Four areas will be addressed and discussed: i) selection of simulation modality and fidelity; ii) integration of curricular content for technical and non-technical skills; iii) definition and record of outcome measures; iv) feedback and debriefing.

Jürgen Lorenz, Dr. med.
Hamburg Applied Science
University, Faculty of Life Science,
Department of Biomedical
Engineering

10:00 – 10:20 **Simulation-based medical education in RSU**

Since 2015 when Department of Clinical Skills and Medical Technologies has been established with the main goal to facilitate and to harmonize simulation-based medical education (SBME) in the Riga Stradiņš University a remarkable progress is reached. SBME now is an integral part of under- and postgraduate curricula in medical education. Current report focuses on the activities and a potential for future development and advances in the field of SBME.

Oļegs Sabeļņikovs, Dr. med.
Head of Department of Clinical
Skills and Medical Technology of
Riga Stradiņš University

10:20 – 10:40 **Simulation-based medical education in Kaunas
university**

Arūnas Gelmanas, M.D., Ph.D.
Head of Medical Simulation Center
of Lithuanian University of Health
Sciences

10:40 – 11:00 Q&A, Panel discussion

Moderators and speakers

2 APRIL

RSU METC,
26a Anninmuizas blvd.

THE 3RD BALTIC SEA SYMPOSIUM ON SIMULATION AND VIRTUAL REALITY FOR HEALTH CARE EDUCATION AND PATIENT SAFETY

11:00 – 11:15 COFFEE BREAK

Actualities in simulation-based education

MODERATORS: M. Šarkele (Latvia), Pier Luigi Ingrassia (Italy)

11:15 – 11:35 **Telementoring for simulation instructor training and faculty development**

Simulation-based training is essential to provide high quality medical care and it requires access to equipment and expertise in debriefing. Technology can facilitate connecting educators to training in simulation-based instructional design, especially in remote settings. We aimed to explore the use of remote simulation faculty development in Latvia using telesimulation and telementoring with an experienced debriefer located in the United States (US).

Reinis Balmaks, Dr. Med

Department of Clinical Skills
and Medical Technology of Rīga
Stradiņš University

11:35 – 11:55 **Challenges in multidisciplinary simulation**

According to the latest worldwide practice in medical simulations, multidisciplinary team trainings play important role in junior doctor and specialist education. Multidisciplinarity during simulated clinical cases is a challenge for both instructor and team members. Wide spectrum of technical and nontechnical skills makes planning process even more attractive.

Marina Šarkele

Department of Clinical Skills
and Medical Technology of Rīga
Stradiņš University

11:55 – 12:15 **Edutainment, Gamification and effective training: the SIMCUP experience**

It has been demonstrated that simulation can meet the general educational goals of transfer of knowledge, strengthening of cognitive strategies, and skill development while adding a dimension of team training.

An important change in medical and nursing education is the arrival of millennial students. To ensure success, medical educators need to know and accept the unique characteristics of these new learners.

The use of gamification is becoming more and more popular to motivate teaching and learning, also in the medical field. Gamification is the process by which users are encouraged and enticed to perform tasks by incorporating elements of game design and competition. Inherent reward and enjoyment can foster motivation. The effectiveness of competition in medical education has been well supported in the literature.

Taking inspiration from the SimWars, the competition format was modified and a new simulation competition was designed with the aim of engaging participants to partake in deliberate practice and to experiment using different types of simulations and simulators. The education value of this new format will be demonstrated. Our 4-year experience with SIMCUP and its grounding pedagogical and educational rationales will be reported.

Pier Luigi Ingrassia,

MD, PhD (SIMNOVA – Centro
di Simulazione in Medicina e
Professioni Sanitarie, Università del
Piemonte Orientale)

12:35 – 12:55 Q&A, Panel discussion

Moderators and speakers

2 APRIL

RSU METC,
26a Anninmuizas blvd.

THE 3RD BALTIC SEA SYMPOSIUM ON SIMULATION AND VIRTUAL REALITY FOR HEALTH CARE EDUCATION AND PATIENT SAFETY

13:00 – 14:00	COFFEE BREAK/FREE PAPERS SESSION
13:00 – 13:10	Novel Technique for Radiation Dose Visualization in Large Space, Martins Piksis
13:10 – 13:20	PERCEPTION OF USEFULNESS OF CLINICAL SKILLS IN MEDICAL STUDENTS AND YOUNG DOCTORS, Marija Jurčenko
13:20 – 13:30	Self-learning for medical professionals – is it good or bad?, Anna Miskova
13:30 – 13:40	Video visit in home care, Ilona Zariņa (Latvia)
13:40 – 13:50	Patient Death In High-Fidelity Simulation – Outcomes Measuring Medical Student Self-Confidence And Emotions, Ardis Bērziņš (Latvia)

14:00 – 16:00

Workshops



Registration to workshops

● onsite only on 2 April from 8:00 – 9:00

Workshops

14:00 – 16:00

Presentation title, Speaker

- | | |
|---|---|
| 1. Structured Analysis of Simulated Crisis Situations Video-Recordings, (Moderator: M. Šarkele)
Participants are supposed to perform tutor-supervised analysis of crisis situation management. The main goal of training is to recognize potential shortcomings both technical and non-technical in the crisis management and to create a plan of appropriate improvement. | Maximum 12 the last year's medical students or residents |
| 2. Workshop: Paediatric Trauma, (R. Balmaks)
During the workshop the participants will learn how to deal with increasingly complicated paediatric trauma scenarios on high-fidelity patient simulators. The participants will learn basics of trauma management, including primary and secondary survey, life support algorithms, team structure and communication. The workshop will be led by experienced paediatric intensivists. | Medical Students (all years)
Maximum number of participants: 12 |
| 3. Teamwork in obstetric emergencies, (A. Miskova)
Obstetric emergencies are mostly unpredictable and not so rare for the medical staff involved in intrapartum care. Most common are postpartum bleeding, fetal bradycardia, shoulder dystocia, preeclampsia. Some of them, like amniotic fluid embolism, uterine inversion, are rare. In majority of cases obstetric emergencies may arise any time during childbirth and these problems are life threatening for the mother and her child. Safety in obstetric emergencies can be improved with better clinical management and teamwork. The aim of this workshop is to introduce principles of effective teamwork in obstetric emergencies. | Medical students, residents, MD
Maximum number of participants: 8-10 |
-

2 APRIL

RSU METC,
26a Anninmuizas blvd.

THE 3RD BALTIC SEA SYMPOSIUM ON SIMULATION AND VIRTUAL REALITY FOR HEALTH CARE EDUCATION AND PATIENT SAFETY

<p>4. Management of electrolyte disbalances in Emergency department, (Medical Simulation research group) Description: The goal of the workshop is to acquaint the participants with signs of most frequently encountered electrolyte disbalances and management of related emergency situations. While undergoing different situations, the participants will have an opportunity to cooperate together by solving health problems of a patient. Such cooperation will train not only technical skills, but also non-technical skills, such as reaction to emergency situation, communications decision making, leadership and teamwork.</p>	Maximum 12 last year's medical students or residents
<p>5. Medical simulations using ULTRASIM simulator for detection free fluid in trauma patients, (A. Balodis) Participants have opportunity to train "hands on" medical ultrasound simulator and screening real patient examination of different locations of free fluid.</p>	Maximum 10 last year's medical students or residents
<p>6. Simulation of emergency management of major trauma patient, (E. Rumba, J. Kravčuks) Trauma remains the leading cause of death in persons 1 through 44 years of age. The doctors who work in the prehospital stage and in the emergency department of hospital should provide rapid and effective emergency medical management of severely injured trauma patients, based on the international guidelines. Therefore, it is important that during the studies medical students acquire simulation-based skills in the primary survey and emergency medical care (ABCDE algorithm) of major trauma patient.</p>	Maximum 12 participants
<p>7. Skill-training area Different skill-trainers and moulages will be available for participants who are interested to improve medical manipulation skills.</p>	
<p>8. How to design a competition in simulation-based training, (Moderator: Dr. Pier Luigi Ingrassia) Simulation competition was designed with the aim of engaging participants to take part in deliberate practice and to experiment using different types of simulations and simulators. Participants working in a small groups will come through the key points in the organisation and design process. Dr. Pier Luigi Ingrassia is a well-recognized expert in the field – a developer and organizer of annual SIMCUP ITALIA competitions.</p>	Participants: max 15
