

SAFETY

simulation for medical practice

SIMULATION APPROACH FOR
EDUCATION AND TRAINING
IN EMERGENCY

R4.4 Prototype of the e-learning modules



BODY INTERACT™
VIRTUAL PATIENTS



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R4.4 Prototype of the e-learning modules

The prototype of the e-learning modules were peer-reviewed by the partners after the preparation. The materials were then uploaded on the e-learning platform before piloting and validation. The final version of the e-learning materials can be found here:

https://www.elearning.safetymedsim.eu/?_gl=1*dg2mni*_ga*NzcyNjQxOTQ3LjE3MTU1OTM4NzQ.*_ga_ZKW0F2V2SD*MTcxNzA3MTM2MS43LjAuMTcxNzA3MTM2MS4wLjAuMA..

The e-learning materials were organized as it follows:

The modules will be:

Module 1: An introduction to medical simulation – Aspects of simulation training (Uis – Peter Dieckmann)

Course 1.1

Lesson 1.1.1 - Setting the scene.

Lesson 1.1.2 - A practical example.

Lesson 1.1.3 – Reflection.

Module 2: Cardiovascular Emergencies

Course 2.1 – Theoretical section

Lesson 2.1.1 – Acute coronary syndromes (Mihai Ștefan, Alexandru Dascălu – EICD)

Lesson 2.1.2 – Hypertension (Mihai Ștefan – EICD)

Lesson 2.1.3 – A systematic approach to hypotension (Cornelia Predoi - EICD)

Lesson 2.1.4 – Arrhythmias (Cornelia Predoi - EICD)

Course 2.2 – Practical scenarios

Lesson 2.2.1 – Acute coronary syndromes (Facilitator – Une Stømer – Uis)

Lesson 2.2.2 – Tachyarrhythmias (Facilitators – Mihai Ștefan, Cosmin Bălan – EICD)

Lesson 2.2.3 – Bradyarrhythmias (Facilitators – Cristina Ibáñez, Juan Perdomo – HUBC)

Lesson 2.2.4 – Hypertensive crisis (Facilitators – Mihai Ștefan, Cornelia Predoi – EICD)

Course 2.3 – Virtual patient

To be selected

Module 3: Shock

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Course 3.1 – Theoretical lecture – Pathophysiology, diagnosis, and management of shock (Cristina Ibáñez, Juan Perdomo - HUBC)

Course 3.2 – Practical scenarios

Lesson 3.2.1 - Hypovolemic shock – (Facilitators – Cosmin Bălan, Mihai Ștefan - EICD)

Lesson 3.2.2 – Anaphylactic shock – (Facilitators – Liana Văleanu, Cosmin Bălan - EICD)

Lesson 3.2.3 - Cardiogenic shock – (Facilitators – Cristina Ibáñez, Juan Perdomo, Beatriz Tena, Lidia Gómez - HUBC)

Lesson 3.2.4 - Obstructive shock – (Facilitator – Camilla Normand - UiS)

Lesson 3.2.5 – Septic shock in a child (The SABES team)

Course 3.3 – Virtual patient

Module 4: Pulmonary Emergencies

Course 4.1 – Theoretical lectures

Lesson 4.1.1 – Pulmonary oedema (Cosmin Bălan – EICD)

Lesson 4.1.2 – COPD/ Asthma (Cornel Robu – EICD)

Lesson 4.1.3 – Pulmonary embolism (Liana Văleanu – EICD)

Course 4.2 – Practical scenarios

Lesson 4.2.1 - Respiratory failure and Airway Management (Facilitator, UniFg)

Lesson 4.2.2 – Respiratory insufficiency in a child (The SABES team)

Course 4.3 – Virtual patient

Module 5: Traumatic Emergencies

Course 5.1 – Theoretical lecture

Simulation for traumatic emergencies (Cristina Ibáñez, Juan Perdomo, Beatriz Tena, Lidia Gómez – HUBC)

Lesson 5.1.1 – Polytrauma, Part 1

Lesson 5.1.2 – Polytrauma, Part 2

Lesson 5.1.3 – Polytrauma, Part 3

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Course 5.2 – Practical scenarios

Lesson 5.2.1 – Polytrauma (Facilitators - Cristina Ibáñez, Juan Perdomo, Beatriz Tena, Lidia Gómez - HUBC)

Lesson 5.2.2 - Traumatic brain injury (Facilitator – Marc Lazarovici, LMU)

Lesson 5.2.3 - Abdominal Trauma (Facilitators – UniFg)

Lesson 5.2.4 - Musculoskeletal Trauma (Facilitators – Thomas Bărbulescu, Andrei Dumitrache - EICD)

Course 5.3 – Virtual patient

Module 6: Neurological and Psychiatric Emergencies

Course 6.1 – Theoretical lectures

Lesson 6.1.1 – Neurological emergencies (Christopher Helmbrecht, LMU)

Lesson 6.1.2 – Psychiatric emergencies (Christopher Helmbrecht, LMU)

Course 6.2 – Practical scenarios

Lesson 6.2.1 – Stroke (Facilitator – Une Stømer – Uis)

Lesson 6.2.2 – Intracranial haemorrhage (Facilitator – Marc Lazarovici - LMU)

Lesson 6.2.3 – Epilepsy (Facilitators - Cristina Ibáñez, Juan Perdomo, Beatriz Tena, Lidia Gómez - HUBC)

Lesson 6.2.4 – Psychosis (Facilitators – Lucia Mirabella, Lucia Di Staso – UniFg)

Course 6.3 – Virtual patient

Module 7: Thermal and Toxicological Emergencies

Course 7.1 - Theoretical lecture – Thermal and toxicological emergencies (Lucia Mirabella – UniFg)

Course 7.2 – Practical scenarios

Lesson 7.2.1 – Thermal injury (Facilitator – Marc Lazarovici, Christopher Helmbrecht, Philipp Fischer, LMU)

Lesson 7.2.2 – Toxicological emergencies (UNIFG)

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Course 7.3 – Virtual patient

Module 8: Infant emergencies and Obstetrics

Course 8.1 – Theoretical lectures

Lesson 8.1.1 – Paediatric emergencies after birth (Christopher Helmbrecht, LMU)

Lesson 8.1.2 – Paediatric respiratory emergencies (Christopher Helmbrecht, LMU)

Lesson 8.1.3 – Paediatric accidents and injuries (Christopher Helmbrecht, LMU)

Course 8.2 – Practical scenarios

Lesson 8.2.1 – Childbirth (Facilitators – Marc Lazarovici, Cristopher Helmbrecht, Philipp Fischer - LMU)

Lesson 8.2.2 - Infant Dyspnoea (Facilitators – Marc Lazarovici, Philipp Fischer - LMU)

Lesson 8.2.3 - Emergencies in pregnancy (Facilitators - Cristina Ibáñez, Juan Perdomo, Beatriz Tena, Lidia Gómez - HUBC)

Lesson 8.2.4 – Stabilization of a preterm newborn (Facilitators – SABES team)

Lesson 8.2.5 -

Course 8.3 – Virtual patient

Module 9: Systematic Approach to Emergency (xABCDE, SAMPLER, BLS/ALS Algorithm, ISBAR Model)

Course 9.1 – Theoretical lectures

Lesson 9.1.1 - ISBAR (Camilla Normand, UiS)

Lesson 9.1.2 - XABCDE and SAMPLER (Camilla Normand, UiS)

Lesson 9.1.3 - Cardiovascular Resuscitation (Camilla Normand, UiS)

Course 9.2 – Practical scenarios

Lesson 9.2.1 - Resuscitation / CPR (Facilitator - Une Stømer – UiS)

Lesson 9.2.2 – Hypoglycemia (Une Stømer – UiS)

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Lesson 9.2.3 - Multimorbidity and Palliative Care

Lesson 9.2.4 – Newborn resuscitation (The SABES team)

Lesson 9.2.5 – Ventricular tachycardia in a child (The SABES team)

Course 9.3 – Virtual patient

Module 10: Aspects of CRM, Teamwork, Leadership, Communication

Course 10.1 – Crisis resource management (Lucia Mirabella - UniFg)

Course 10.2 – Practical scenarios

Lesson 10.2.1 – Epilepsy (missing doctor - Facilitators - Cristina Ibáñez, Juan Perdomo, Beatriz Tena, Lidia Gómez - HUBC)

Lesson 10.2.2 – Infant dyspnoea (missing team leader – Facilitators – Marc Lazarovici, Philipp Fischer)

Lesson 10.2.3 – Toxicology case (missing doctor – UNIFG)

Lesson 10.2.4 – Epilepsy (missing nurse - Facilitators - Cristina Ibáñez, Juan Perdomo, Beatriz Tena, Lidia Gómez - HUBC)

Lesson 10.2.5 – Toxicology case (missing nurse – UNIFG)

Lesson 10.2.6 – CPR (panicked relative - Facilitator – Une Stømer – UiS)

Lesson 10.2.7 – Hypertensive crisis (panicked relative – Facilitators – Mihai Ștefan, Cornelia Predoi – EICD)

Lesson 10.2.8 – SABES (panicked relative – infant dyspnoea)

Lesson 10.2.9 - LMU – thermal injury (panicked relative with two patients)