

## Výukové moduly pro simulátory METI



### Popis

CAE Healthcare Academy Learning Applications provide an effective solution for quickly and easily integrating human patient simulation in specific curriculums. Each application provides carefully defined Simulated Clinical Experiences (SCEs) designed to immerse learners in the clinical environment and develop critical skills to provide the highest quality of care.

Each evidence-based practice SCE includes: documentation, appropriate corresponding intervention scenarios, descriptions and references, scenario scenes and background, learning objectives, facilitator's notes, equipment and supply list, and software application.

### Adult Nursing

Acute Coronary Syndrome and Acute Myocardial Infarction

Acute Respiratory Distress Secondary to Trauma and Post-Anesthesia Pneumonia

Anaphylactic Reaction to Blood Administration

Asthma Adult Home Care

Basic Assessment of the Adult Patient with Asthma

Basic Assessment of the Post-operative Gastrectomy

Bioterrorism

Cardiopulmonary Arrest

Cerebral Vascular Accident

Chest Pain Management of the Medical Surgical Patient

Chest Tube Insertion and General Ongoing Care

Chronic Diabetic

COPD Exacerbation with Respiratory Failure

Diabetic Ketoacidosis

Hypnotic Overdose

Motor Vehicle Collision with Abdominal Injury, Internal Bleeding and Hypovolemic Shock

Postoperative Care of the Patient with a Ruptured Diverticulum

Postoperative Pulmonary Embolism

Pregnant Patient in First Trimester with Electrolyte Imbalance Secondary to Hyperemesis Gravidarum

Preoperative Care of the Patient Scheduled for a Cholecystectomy

## Infant Nursing

Abandoned Healthy Newborn  
Care of Baby with RSV Bronchiolitis  
Congenital Cardiac Abnormalities  
Myelomeningocele

Newborn with Respiratory Distress  
Septic Baby Secondary to Prolonged Rupture of Membranes  
Shaken Baby Syndrome  
Substance Exposed Neonate

## Respiratory Education Simulation Program (RESP)

### Module I

Basic Assessment of Asthma  
Basic Assessment of Emphysema  
Basic Mechanical Ventilation  
Chronic Obstructive Pulmonary Disease (COPD)  
Drug Overdose  
Guillain-Barré with Mechanical Ventilation  
Home Health Ventilated Patient with Tracheotomy  
Myocardial Infarction  
Palliative Care  
Sleep Apnea

### Module II

ACLS  
ARDS  
Conscious Sedation  
Hemodynamics and Re-intubation of Ventilated Patient  
Mechanics of BiPAP  
Transportation of Ventilated Patient  
Treatment of Advanced Asthma  
Treatment of Chest Trauma  
Treatment of COPD Exacerbation  
Treatment of Isolated Patient

### Module III

Amyotrophic Lateral Sclerosis - ALS (Lou Gehrig Disease)  
Carbon Monoxide Poisoning  
Care of Tracheotomy Patient

Chest Physiotherapy  
Cystic Fibrosis  
Heliox Asthmatic Treatment  
Near Drowning  
Obstructed Airway  
Treatment of Burn Patient  
Ventilator Weaning  
*Developed in Partnership with the American College of Chest Physicians*

## Emergency Medical Services

### EMS I Module

Adult Asthma  
Altered Mental Status/Cardiac Arrest  
Cerebrovascular Accident Brain Attack  
Introduction to Sounds of the Body  
Periods of Apnea  
Pneumonia  
Pulmonary Embolism  
Respiratory Medications  
Spinal Cord Injury  
Thermal Injury

### EMS II Module

Agents for Rapid Sequence Intubation  
Asystole  
Epidural Hematoma  
Fluid and Electrolyte Imbalance  
Heroin Overdose  
Increasing Intracranial Pressure  
Kidney Stones  
Megacode Challenge  
Pelvis and Leg Injuries  
Tension Pneumothorax

### EMS III Module

Acute Coronary Syndrome  
Acute Myocardial Infarction with Hypotension  
Airway Management Intubation  
Altered Mental Status  
Cardiac Arrest  
Diabetic Ketoacidosis  
Flail Chest and Spinal Cord Injuries  
Multiple Gunshot Wounds

Unstable Angina  
Ventricular Fibrillation and Pulseless Ventricular Tachycardia

EMS IV Module

Abdominal Aortic Aneurysm  
Alcohol Gastritis/Bleeding Ulcer/Esophageal Varices  
Chlorine Poisoning  
Cold Water Drowning and Hypothermia  
Motorcycle Crash with Traumatic Evisceration  
Nerve Agent Organophosphate Poisoning  
Rattlesnake Bite  
Sickle Cell Crisis  
Spontaneous Abruptio Placentae  
Stoma Patient

EMS V Module (Pediatric)

Abdominal Pain  
Basic Assessment  
Closed Head Injury  
Epiglottitis  
Femur Fracture  
Multi Trauma  
Seizures  
Sepsis  
Supraventricular Tachycardia  
Upper Respiratory Infection/Croup

EMS VI Module (Critical Care)

Asthma Attack with Rapid Sequence Intubation  
Calcium Channel Blocker Overdose  
Congestive Heart Failure and Intra-Aortic Balloon Pump  
Diabetes Insipidus with Traumatic Brain Injury  
Disseminated Intravascular Coagulation  
Electrical Injury with Rhabdomyolysis  
Methicillin-Resistant Staphylococcus Aureus (MRSA)  
Renal Failure with Hyperkalemia and Multiple Dysrhythmias  
Sepsis, SIRS and MODS

Special K Overdose

## Pediatric Nursing

Abnormal Variations in Heart Rate in a Six-Year-Old Patient  
Acetaminophen Poisoning  
Amputation Secondary to Osteosarcoma  
Asthma Attack in the Pediatric Patient  
Care of a Young Child with Meningitis  
Cystic Fibrosis  
Diabetic Ketoacidosis and Pneumonia  
Fluid and Electrolyte Imbalance  
Foreign Body Aspiration  
Fractured Radius with Compartment Syndrome  
Near Drowning  
Postoperative Care with Complications: Seizures and Allergic Reaction  
Renal Dysfunction Secondary to Acute Streptococcal Glomerulonephritis  
Septic Pediatric Patient Secondary to a Ruptured Appendix  
Terrorism by Chemical Agent  
Traumatic Brain Injury

## Rapid Assessment and Intervention

Acute Ischemic CVA  
Anaphylactic Reaction to Blood Administration  
Cardiopulmonary Arrest  
Care of the Seizure Patient  
Deep Vein Thrombosis, Pulmonary Embolism  
Myocardial Infarction  
Postoperative Diabetic Patient  
Postoperative Hemorrhage  
Sepsis with Hypotension  
The Deteriorating Client with COPD  
Developed in partnership with CHART

## Foundations of Nursing Practice

Basic Assessment of the Adult Patient with Asthma  
Basic Assessment of the Cardiac Patient  
Basic Assessment of the Hip Replacement Patient  
Basic Assessment of the Teenage Athlete with Fluid and Electrolyte Imbalance  
Chest Tube Insertion and General Ongoing Care  
Postoperative Care of the Patient with Complications: Ileus  
Postoperative Care of the Patient with Deep Vein Thrombosis

Preoperative Care of the Patient Scheduled for a Cholecystectomy  
Skill Validation  
Suctioning and Trachea Care with Hypoxia

#### Patient-Centered Acute Care Training (PACT)

Acute Myocardial Infarction  
Acute Renal Failure  
Acute Respiratory Distress Syndrome  
Airway Management  
Altered Level of Consciousness  
Asthma  
Brain Stem  
Chronic Obstructive Pulmonary Disease  
Hypertension  
Hypotension  
Intoxication 1  
Intoxication 2  
Neuromuscular Disease 1  
Neuromuscular Disease 2  
Peritonitis  
Sepsis 1  
Sepsis 2  
Transport  
Traumatic Brain Injury 1  
Traumatic Brain Injury 2  
*Developed in partnership with ESICM.*

#### Advanced Cardiac Life Support (ACLS)

In accordance with AHA 2010 guidelines  
Acute Coronary Syndrome  
Acute Stroke  
Asystole  
Bradycardia and Heart Blocks  
Pulseless Electrical Activity  
Pulseless Ventricular Tachycardia and Ventricular Fibrillation  
Respiratory Arrest  
Supraventricular Tachycardia  
Ventricular Fibrillation AED  
Ventricular Tachycardia

#### Pediatric Advanced Life Support (PALS)

In accordance with AHA 2010 guidelines  
Asthma Attack

Asystole  
Bradycardia  
Ingestion  
Motor Vehicle Crash  
PEA  
Septic Shock  
Shock  
Supraventricular and Ventricular Tachycardia  
Ventricular Fibrillation

### Perioperative Management

Anaphylaxis and Anaphylactic Shock  
Blunt Trauma Patient Care  
Bradycardia and Cardiogenic Shock  
COPD Exacerbation  
Gastrointestinal Hemorrhage  
Hemorrhagic Shock PACU  
Myocardial Infarction in the Postoperative Setting  
Postoperative Fever  
Sepsis and Septic Shock  
Tachycardia and Cardiogenic Shock  
*Developed in partnership with Baystate Medical Center*

### Disaster Medical

Readiness (DMR)  
Anthrax  
Botulism  
BZ  
CHI with Chest Trauma- Earthquake  
CHI with Chest Trauma-IED  
Chlorine  
Cyanide  
Dehydration-Hurricane  
Laceration to Arm-Earthquake  
Laceration to Arm-Hurricane  
Multiple Injuries with Amputation-Earthquake  
Multiple Injuries with Amputation-IED  
Mustard Lewisite  
Pandemic Flu  
Phosgene  
Pneumonic Plague  
Pneumothorax-IED  
Radiation Criticality  
Radiation Trauma  
Sarin

### Infant Emergencies

Burn Injury  
Electrocution  
Envenomation  
Gunshot Wound  
Meningitis  
Methamphetamine Exposure  
Submersion Injury  
Traumatic Brain Injury

### Cardiopulmonary

Critical Situations (CCS)  
Acute Allergic Reaction  
Acute Asthma  
Burns with Airway Compromise  
Heroin Overdose  
Inferior-Posterior Myocardial Infarction  
Ludwig's Angina  
Stab Wound to the Upper Neck  
Tricyclic Antidepressant Overdose

### Pediatric Emergencies

Burn Injury  
Electrocution  
Envenomation  
Gunshot Wound  
Meningitis  
Methamphetamine Exposure  
Submersion Injury  
Traumatic Brain Injury

### Tactical Medical Care (TMC)

Allergic Reaction  
Amputation, TBI and Abdominal Injury  
Arm Laceration  
Barotrauma/Decompression Sickness  
Blast Injury  
Burns and Spinal Shock  
Cardiac Arrest  
Cervical Injury  
Closed Head Injury, Chest and Abdominal Trauma  
Closed Head Injury and Blunt Trauma to Chest



Cold Water Near Drowning  
Dehydrated Sniper  
Diabetic with Altered Mental Status  
Exposure to Chemical Nerve Agent  
Fatality From Fall  
Flail Chest and Spinal Cord Injury  
Gun Shot Wound  
Head Injury and Femur Fracture  
Hip, Pelvis and Sternal Trauma  
Leg Amputations and Burns  
Multiple Gun Shot Wounds  
Multiple Trauma from Hand to Hand Combat  
Pelvic Trauma and Pneumothorax  
Pelvis and Leg Injuries  
Poisoning/Overdose  
Respiratory Distress  
Seizures  
Tension Pneumothorax  
Trauma with Hypoglycemia  
Unconscious after Explosion