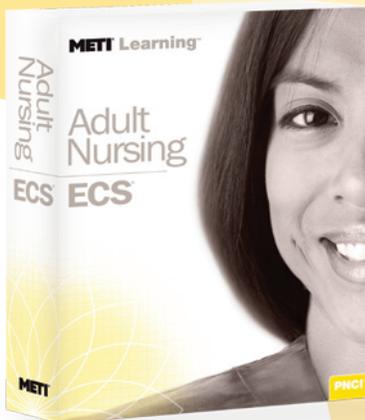


# The Power to Teach

METI's Human Patient Simulators® are the gold standard for medical education programs throughout the world. Health care educators today regularly utilize METI simulators in the classroom to enrich learning experiences and foster best practices. Practicing with METI simulators allows learners to develop a high level of confidence and, ultimately, a demonstration of competence.



While providing you with the most effective technology available, METI strives to make integration of our products into your existing curriculum both extensive and effortless. After all, the nearly unlimited educational potential of our products is what truly sets METI apart. To advance and accelerate this integration process, we have developed a growing line of METI Learning Modules to meet many of your educational objectives. Each Learning Module is a turnkey educational package designed to provide meaningful learning experiences with real-time applications. The value of each Learning Module can be measured in the difference it will make in a learner's skill acquisition and confidence as they take on some of the most important life-saving challenges impacting health care today. Each Learning Module has the added advantage of providing you with the tools to easily integrate simulation into your curriculum.

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## SIMULATED CLINICAL EXPERIENCES

### GOING BEYOND SCENARIOS

METI's Learning Modules include a collection of carefully defined Simulated Clinical Experiences (SCE™) that allow you to easily integrate specific learning content into your programs. Each SCE includes the scenario scene and states, learning objectives, equipment/supplies needed and instructor's notes conveniently provided in an electronic format. These turnkey products allow you to add critical learning opportunities to real-life simulated environments quickly and easily.

### ALL LEARNING MODULES CONTAIN THE FOLLOWING:

- Simulated Clinical Experiences Documentation
- Appropriate Corresponding Intervention Scenarios
- SCE Descriptions and References
- Scenario Scenes and Background Information
- Learning Objectives
- Facilitator Notes (for setting up and running the simulation exercise)
- Equipment and Supply List
- Software Application





The following four Learning Modules contain SCEs from our popular Program for Nursing Curriculum Integration (PNCI®). All of the SCEs include comprehensive faculty documentation in addition to learner versions for use by students. All SCEs are evidence-based or informed.

## ADULT NURSING

Includes 20 SCEs from the PNCI for those specifically interested in simulation involving the care of an adult patient.

- Adult Patient with Asthma
- Postoperative Gastrectomy Patient
- Anaphylactic Reaction to Blood Administration
- Cerebral Vascular Accident
- Chest Pain Management of the Medical-Surgical Patient
- Chest Tube Insertion and General Ongoing Care
- Diabetic Ketoacidosis
- Postoperative Care of the Patient with a Ruptured Diverticulum
- Preoperative Care of the Patient Scheduled for a Cholecystectomy
- Pregnant Patient in the First Trimester with an Electrolyte Imbalance Secondary to Hyperemesis Gravidarum
- Chronic Diabetic
- Asthma
- Bioterrorism
- Cardiopulmonary Arrest
- Chronic Obstructive Pulmonary Disease (COPD) Exacerbation with Respiratory Failure
- Intentional Overdose of a Hypnotic
- Postoperative Pulmonary Embolism
- Acute Coronary Syndrome and Acute Myocardial Infarction
- Acute Respiratory Distress/Failure Secondary to Trauma, Post-Anesthesia and Pneumonia
- Motor Vehicle Collision with Abdominal Injury with Internal Bleeding and Hypovolemic Shock

## FOUNDATIONS OF NURSING PRACTICE

This Learning Module is designed for beginning students in all types of professional nursing programs. Ten SCEs provide fundamental nursing concepts, skills and techniques of nursing practice and the foundation for more advanced areas of study.

- Basic Assessment of the Adult Patient with Asthma
- Basic Assessment of the Cardiac Patient
- Basic Assessment of the Teenage Athlete with Fluid and Electrolyte Imbalance
- Basic Assessment of the Hip Replacement Patient
- Chest Tube Insertion and General Ongoing Care
- Postoperative Care of the Patient with Complications: Deep Vein Thrombosis
- Postoperative Care of the Patient with Complications: Ileus
- Preoperative Care of the Patient Scheduled for a Cholecystectomy
- Skill Validation
- Suctioning and Trachea Care with Hypoxia

## INFANT NURSING

Includes eight SCEs from the PNCI for those specifically interested in simulation involving the care of an infant patient.

- Abandoned Healthy Newborn
- Congenital Cardiac Abnormalities
- Myelomeningocele
- Newborn with Respiratory Distress
- Care of a Baby with RSV Bronchiolitis
- Septic Baby Secondary to Prolonged Rupture of Membranes
- Shaken Baby Syndrome
- Substance Exposed Neonate

## PEDIATRIC NURSING

Includes 16 SCEs from the PNCI for those specifically interested in simulations involving the care of a pediatric patient.

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





## ADVANCED CARDIAC LIFE SUPPORT (ACLS)

The ACLS Learning Module is designed for facilitating learning of the American Heart Association (AHA) algorithms related to emergency cardiac care. Based on the AHA Guidelines, the ACLS Learning Module includes an ACLS Critical Actions Checklist for use in evaluating team performance.

- Acute Coronary Syndrome
- Acute Ischemic CVA
- Asystole
- Atrial Fibrillation/Junctional Tachycardia
- Bradycardia and Heart Blocks
- Pulseless Electrical Activity (PEA)
- Respiratory Arrest
- Supraventricular Tachycardia/Ventricular Tachycardia
- Ventricular Fibrillation and Tachycardia
- Ventricular Fibrillation/AED Use

## PERIOPERATIVE MANAGEMENT (COMING 2010)

This Learning Module consists of 10 surgical patient care SCEs, which allow learners to incorporate many of the American College of Graduate Medical Education (ACGME) core competencies required in health care provider training during the course of patient assessment, diagnostic evaluation and management.

- Hemorrhagic Shock
- Anaphylactic Shock
- Blunt Trauma Patient Care
- Sepsis and Septic Shock
- Systemic Inflammatory Response Syndrome
- Tachyarrhythmia Management/Atrial fibrillation
- Bradyarrhythmia Management/Bradycardia
- Myocardial Infarction
- Asthma Exacerbation
- Upper GI Bleed

## PEDIATRIC ADVANCED LIFE SUPPORT (PALS)

The PALS Learning Module is designed for facilitating learning of the AHA algorithms related to emergency care of the pediatric patient. It is based on the AHA Guidelines.

- Acute Respiratory Failure
- Asthma
- Asystole
- Bradycardia
- Hypovolemic Shock
- Multiple Trauma
- Pulseless Electrical Activity (PEA)
- Supraventricular Tachycardia/Ventricular Tachycardia
- Toxidromes
- Ventricular Fibrillation



## DISASTER MEDICAL READINESS (DMR)

METI developed the Disaster Medical Readiness (DMR) Learning Module in an effort to isolate the most critical components of disaster and mass casualty patient care. Recently revised, the DMR Learning Module meets the standards for disaster medical response and is aligned with the National Disaster Planning Scenarios and the Target Capabilities List. Utilizing the "All Hazards" approach to disasters, the DMR Learning Module is a valuable tool to help meet the various training needs for integrated disaster medical response.



- Anthrax
- Botulism
- BZ
- Chlorine Tank Explosion
- Closed Head Injury - Earthquake
- Closed Head Injury - Improvised Explosive Device (IED)
- Cyanide
- Dehydration - Hurricane
- Laceration to the Arm - Earthquake
- Laceration to the Arm - Hurricane
- Mustard-Lewisite
- Multiple Injuries with Amputation - IED
- Multiple Injuries with Amputation - Earthquake
- Pandemic Flu
- Phosgene
- Pneumonic Plague
- Pneumothorax - IED
- Radiation Criticality
- Radiation Trauma
- Sarin

## TACTICAL MEDICAL CARE (TMC)

With every year that passes, weapons and tactics used in tactical situations are becoming increasingly more advanced. For that reason, our military and tactical medics must be ready with the most advanced medical training available. METI's newly revised and updated Tactical Medical Care Learning Module (TMC) provides the tools needed to improve proficiency and sustain the required skills of combat and tactical medics. The SCEs listed in TMC are consistent with Tactical Combat Casualty Care (TC<sup>3</sup>).

The TMC Learning Module includes SCEs that give the educator the ability to conduct and meet specific training objectives. This methodology is consistent with a "train as you fight" approach that is derived from lessons learned in current theater of operations around the world.

- 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
- 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
- Near Drowning In Cold Water
- Pelvic and Sternal Trauma
- Pelvis and Leg Injuries
- Poisoning/Overdose
- Respiratory Distress
- Seizures
- Tension Pneumothorax
- Trauma with Hypoglycemia
- Unconscious after Explosion





## CARDIOPULMONARY CRITICAL SITUATIONS

Includes eight SCEs that are focused on the care of patients with advanced airway management needs.

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

## EMERGENCY MEDICAL SERVICES (EMS)

The EMS Learning Series is made up of seven Learning Modules each containing a total of 10 SCEs that provide graded learning and performance objectives spanning across all EMS provider levels described in national standards. EMS Module 1, the first Learning Module in the series, includes the following SCEs:

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

\*EMS Learning Modules 2-5 available starting Spring 2010

## PEDIATRIC EMERGENCIES

Includes eight SCEs that are designed to teach common medical emergencies that are most often associated with small children.

- Burn Injury
- Drowning
- Electrocution
- Envenomation
- Gunshot Wound
- Meningitis
- Methamphetamine Exposure
- Traumatic Brain Injury

## INFANT EMERGENCIES

Includes eight SCEs that are designed to teach common medical emergencies that are most often associated with babies and infants.

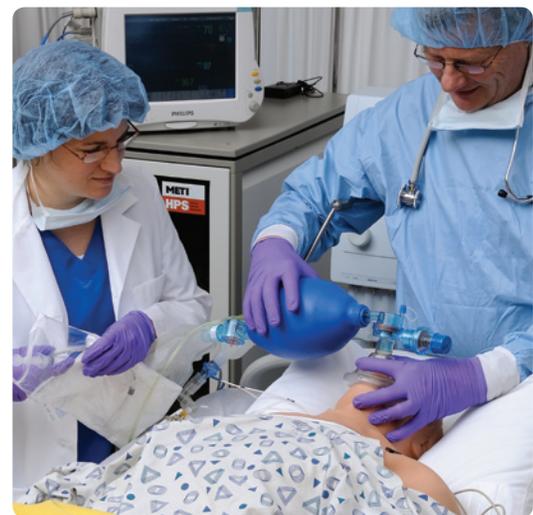
- Burn Injury
- Drowning
- Electrocution
- Envenomation
- Gunshot Wound
- Meningitis
- Methamphetamine Exposure
- Traumatic Brain Injury

# PATIENT-CENTRED ACUTE CARE TRAINING SIMULATION LEARNING MODULE (PACT)

Today's caregivers in the area of critical care medicine face extraordinary challenges every day, from the rapid advancements in technology and demands on available resources, to the constant search for ways to improve the level of patient safety and care for critically ill patients.

To address these challenges, METI has teamed up with the European Society of Intensive Care Medicine (ESICM), a leading European medical professional society dedicated to the advancement and promotion of knowledge and best practices in intensive care medicine. This unique Learning Module provides patient simulation learning tools tied directly to ESICM's Patient-Centered Acute Care Training (PACT) curriculum, a multidisciplinary teaching standard used by over 5,000 doctors from medical institutions throughout Europe. The following 20 SCEs contained in the PACT Simulation Learning Module are tracked directly to the competency-based program at the core of the PACT curriculum and provide learners with the latest patient simulation tools available to facilitate their learning.

- Acute MI/Cardiogenic Shock
- Traumatic Brain Injury 1
- Traumatic Brain Injury 2
- Airway Management
- Sepsis 1
- Sepsis 2
- Altered Consciousness and Subarachnoid Haemorrhage
- Hypertension and Left Ventricular Failure
- Hypotension, Haemorrhage and Haemodynamic Monitoring
- Intoxication 1: Hyperpyrexia
- Intoxication 2: Multiple Agents, Arrhythmias
- Respiratory Failure and ARDS
- Peritonitis
- Acute Renal Failure
- Neuromuscular Disease 1: Cardiovascular Aspects
- Neuromuscular Disease 2: Respiratory Aspects
- COPD and Advanced Ventilation
- Acute Asthma
- Brain Stem Death
- Transportation and Burns



PACT was developed in partnership with ESICM

# RESPIRATORY EDUCATION SIMULATION PROGRAM (RESP)



The Respiratory Education Simulation Program (RESP) highlights the basic fundamental principals and concepts of science pertinent to the clinical practice of respiratory therapy. This three-part learning program consists of 30 SCEs designed to enhance the learning of respiratory care practitioners including diagnosis, treatment and abnormalities associated with the cardio-respiratory system.

## MODULE 1 (AVAILABLE NOW)

- Basic Assessment Asthma
- Basic Assessment Emphysema
- Drug Overdose
- Sleep Apnea
- Palliative Care
- Heart Failure
- Guillain Barre with Mechanical Ventilation
- Myocardial Infarction
- Long Term COPD
- Home Health Care Ventilated Patient with Tracheotomy

## MODULE 2 (AVAILABLE SPRING 2010)

- Treatment of Chest Trauma
- Treatment of Advanced Asthma
- ACLS
- Treatment of COPD Exacerbation

- Hemodynamics and Re-intubation of Ventilated Patient
- Transportation of Ventilated Patient
- Treatment of Isolated Patient
- Mechanics of BiPAP
- ARDS
- Conscious Sedation

## MODULE 3 (AVAILABLE SPRING 2010)

- HE/O<sub>2</sub> Asthmatic
- Cystic Fibrosis
- Near Drowning
- Chest Physiotherapy
- Obstructed Airway
- Treatment of Burn Patient
- CO<sub>2</sub> Poisoning
- Pulmonary Function Testing and Weaning
- Care of Tracheotomy Patient
- Pediatric Advanced Life Support (PALS)



RESP was developed in partnership with The American College of Chest Physicians



[www.meti.com](http://www.meti.com)

For more information about METI Learning Modules  
or other METI products contact your regional sales manager,  
the distributor in your country or visit [www.meti.com](http://www.meti.com).

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