SIMULATION. EDUCATION. INNOVATION.
METI makes educational tools that help healthcare professionals deliver safe, high quality patient care.

**Founded in 1996** with a bold mission to “change the face of medical education,” METI has become the world’s leading maker of advanced human patient simulators and healthcare education tools. We are inspired by the difference we can make in the quality of patient care around the world through the innovative technologies we develop which provide a safe clinical practice ground for learners without the risk to real patients.

Our products include a family of human patient simulators, experiential learning programs and learning management tools. We focus our development on leading edge technologies and quality products. While we work to develop innovative products, we also work hard to make sure they are educationally sound. That’s why every METI product is developed in partnership with clinical educators whose aim is to ensure physiological accuracy and educational relevance.

At METI, we want to be a trusted partner in your healthcare education family. We honor your confidence and investment in us with our commitment to Operational Excellence. By adhering to Six Sigma high-quality processes we are continually improving our products and service.

Join us at HPSN®, the Human Patient Simulation Network, where people from all over the world and from every level of healthcare come together to exchange ideas on how to push the envelope of medical simulation to improve learning, competency and ultimately, save lives.
Patient Simulators

LIFE-LIKE ACCURACY: METI’s physiologically-driven simulators offer an unsurpassed level of believability and life-like accuracy allowing healthcare learners to intervene instinctively, quickly, consistently and competently with clinical measures that can save a human life.

iStan® v2
METI’s 100% all-in-one system with fully articulated patient movement.
> Wireless control with long-life rechargeable battery
> On-board fluids for ultra realistic bleeding and secretions
> Fully reactive pupils and blinking eyes
> Convulsions
> Capillary refill
> Cyanosis
> Müse® for iStan web-based software and TouchPro® Patient Monitoring Software with touch-screen capability and capnography

METIman®
METI’s most affordable, wireless simulator.
> Available in either Nursing or Prehospital models
> Fully reactive pupils and blinking eyes
> Wireless control with long-life rechargeable battery
> Convulsions
> Müse for METIman web-based software and TouchPro Patient Monitoring Software with touch-screen capability and capnography
Patient Simulators

UNMATCHED MODELING: METI simulators include the most advanced models of the human cardiovascular, respiratory, neurological and pharmacologic systems available today, and their integrated, coupled function imitates the human response in the multi-layered, real-time ways that are vital to a true learning experience.

**HPS® Human Patient Simulator**
METI’s fully automatic, high-fidelity patient simulator.
- Highest level of automatic and enhanced features
- Drug recognition and response
- Real respiratory gas exchange
- Real anesthesia delivery
- Real patient monitoring on real-world clinical patient monitors
- Plug-and-play PediaSIM mannequin available as option
- Múse available in 2011

**ECS® Emergency Care Simulator**
METI’s most affordable tethered simulator.
- Blinking eyes and variable pupil size
- Realistic modeled airway
- Múse for ECS web-based software and TouchPro® Patient Monitoring Software with touch-screen capability and capnography
**PediaSIM**
METI's pediatric patient simulator.

- Fully Reactive Eyes (HPS) and blinking eyes
- Physiology of a six-year-old child

**BabySIM**
METI's infant patient simulator.

- Blinking eyes and variable pupil size
- Physiology of a six-month-old infant

> Müse for PediaSIM web-based software and TouchPro Patient Monitoring Software with touch-screen capability and capnography

> Müse for BabySIM web-based software and TouchPro Patient Monitoring Software with touch-screen capability and capnograph *(available December 2010)*
METI’s new user interface for patient simulators.

- Easy-to-use, web-based technology
- Touch-screen compatibility
- TouchPro Patient Monitoring Software including capnography
- Mac or PC compatible

Müse is a smart application that displays only the features available on the simulator you are connected to, allowing you to access the level of physiologic control available at any given time.

The fully customizable Quick Links lists help you easily and accurately apply complex medical conditions, medications and interventions directly from the Run Screen.

SCE timeline provides the ability to place bookmarks throughout a SCE and to return to the patient’s bookmarked physiology at any point.

Simulated Clinical Experiences™ (SCEs) bundle ready-to-go patient, scenarios, educational content and setup preferences to automatically load together when you run a SCE.

Patient Status Display provides a fully customizable, manageable view of waveform, numeric and volumetric patient data. Colors and alarms can be modified directly from the Run Screen as well.

The fully customizable Quick Links lists help you easily and accurately apply complex medical conditions, medications and interventions directly from the Run Screen.

Recent Event Logs on the Run Screen keep you updated, while complete event and physiological data is logged in the SCE history.

Parameter controls allow you to affect the physiological modeling with the click of a button.

Scenarios automatically load as part of the SCE. Scenario states and progression can be controlled directly from the Run Screen.

Patient reset button allows you to quickly save and return to the patient’s original baseline physiology without having to restart the SCE.

Fluid loss and administration controls support varying rates.

Drug responses are tied to route administration options (IV, IM, PO, IO, Transdermal Patch, Nasal Spray, and Transmucosal Lozenge).

Medication Monitor shows current concentration of any administered medication in the patient. Administered drugs can be “reset,” immediately removing all effects of the medication from the patient for training purposes.

Multi-user, unique password system allows institutions to predefine privileges of users and operators.
Simulation Center Operation/Management

LearningSpace™
METI’s new comprehensive audiovisual and center management system for healthcare education.
> Powerful system for web-based educational content creation, delivery, assessment and evaluation
> Intelligent automated scheduling
> Superior video quality
> Integration with METI and other simulators

METIVision®
METI’s most affordable, digital audio-visual management system.
> Data-synchronized with simulation logs in real-time
> Capture, store and broadcast simulations in full 360 degree video
> Convenient web-based solution for easy access
> Superior video quality
> Integration with METI and other simulators

LiVE® - Learning in a Virtual Environment*
Networking multiple patient simulators to create a virtual healthcare system.
> Central control of multiple simulated patients
> Electronic transfer of patients from one simulator and point of care to another
> Central data logging for all simulated patients

* Currently not supported under Müse.

Simulation-Based Learning Programs

Nurse Optimization Program™
The first experiential-based solution for successful on-boarding of new nurses and competency development of your nursing workforce.
> Proven to reduce the time and cost of nurse training while driving excellence in patient care through standardization
> Customizable and scalable to meet the needs of any hospital or healthcare system
> Subscription Service Model includes: simulators, software, maintenance, peer-reviewed learning modules and customizable implementation support by experienced nurses

PNCI® - Program for Nursing Curriculum Integration
The world-renowned solution to quickly, easily and fully integrate simulation into existing pre-licensure nursing curriculum.
> Includes 100 evidence-based Simulated Clinical Experiences (SCEs) with integrated learning curriculum
> On-site faculty development by experienced nurse educators ensures optimum success
> Meets 2010 NCLEX Test Plan
> PNCI-CANADA and PNCI-UK are available for specific nursing curriculums in those regions
> Subscription Service Model available

Developed in partnership with Dartmouth-Hitchcock Medical Center

Developed in partnership with:
Texas Woman’s University
Fox Valley Technical College
Golden West College
Delgado Community College
University of Glamorgan
Prairie View A&M University
Mount Carmel College of Nursing
Rutgers, The State University of New Jersey
Thames Valley University

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Learning Modules

METI Learning Modules provide an effective solution for quickly and easily integrating human patient simulation in specific curriculums. Each module 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 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

- 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 with a Congenital Cardiac Abnormalities
- 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

### Pediatric Nursing

- 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

### Infant Nursing

- 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

### Foundations of Nursing Practice

- 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

The above four Learning Modules contain SCEs from our popular Program for Nursing Curriculum Integration (PNCI®).
Respiratory Education Simulation Program (RESP)

Module 1
- Basic Assessment of Asthma
- Basic Assessment of Emphysema
- Drug Overdose
- Sleep Apnea
- Palliative Care
- Basic Mechanical Ventilation

- Guillain Barre with Mechanical Ventilation
- Myocardial Infarction
- Chronic Obstructive Pulmonary Disease (COPD)
- Home Health Ventilated Patient with Tracheotomy

Module 2
- 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 2011)
- HE/O₂ Asthmatic
- Cystic Fibrosis
- Near Drowning
- Chest Physiotherapy
- Obstructed Airway
- Treatment of Burn Patient

- CO₂ Poisoning
- Pulmonary Function Testing and Weaning
- Care of Tracheotomy Patient
- Pediatric Advanced Life Support (PALS)

Emergency Medical Services (EMS)

EMS I Module
- Adult Asthma
- Altered Mental Status/ Cardiac Arrest
- Cerbrovascular Accident
- Brain Attack
- Introduction to Sounds of the Body

- Periods of Apnea
- Pulmonary Embolism
- Pneumonia
- Respiratory Medications
- Spinal Cord Injury
- thermal Injury

EMS II Module
- Heroin Overdose
- Tension Pneumothorax
- Agents for Rapid Sequence Intubation
- Epidural Hematoma
- Megacode Challenge
- Kidney Stones

Pediatric Emergencies
- Meningitis
- Methamphetamine Exposure
- Traumatic Brain Injury

Infant Emergencies
- Gunshot Wound

Cardiopulmonary Critical Situations (CCS)
- Ludwig’s Angina
- Stab Wound to the Upper Neck
- Tricyclic Antidepressant Overdose

Rapid Response and Intervention

- Acute Ischemic CVA
- Anaphylactic Reaction to Blood Administration
- Cardiopulmonary Arrest
- Care of the Seizure Patient
- COPD with Respiratory Failure

- Deep Vein Thrombosis, Pulmonary Embolism
- Myocardial Infarction
- Postoperative Diabetic Patient
- Postoperative Hemorrhage
- Sepsis with Hypotension

Developed in partnership with The American College of Chest Physicians.

*EMS Learning Modules 3-7 will be available starting Winter 2011. Developed in partnership with Fox Valley Technical College.
Learning Modules

Disaster Medical Readiness (DMR)
- 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

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
- 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 Trauma and Pneumothorax
- Pelvis and Leg Injuries
- Poisoning/Overdose
- Respiratory Distress
- Seizures
- Tension Pneumothorax
- Trauma with Hypoglycemia
- Unconscious after Explosion

Advanced Cardiac Life Support (ACLS)
- Acute Coronary Syndrome
- Acute Ischemic CVA
- Asystole
- Atrial Fibrillation/Junctional Tachycardia
- Brachycardia and Heart Blocks
- Pulseless Electrical Activity (PEA)
- Respiratory Arrest
- Supraventricular Tachycardia/ Ventricular Tachycardia
- Ventricular Fibrillation and Tachycardia
- Ventricular Fibrillation/AED Use

Pediatric Advanced Life Support (PALS)
- Acute Respiratory Failure
- Asthma
- Asystole
- Brachycardia
- Hypovolemic Shock
- Multiple Trauma
- Pulseless Electrical Activity (PEA)
- Supraventricular Tachycardia/ Ventricular Tachycardia
- Toxidromes
- Ventricular Fibrillation

Perioperative 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 Exacerbagation
- Upper Gi Bleed

Patient-Centred Acute Care Training (PACT)
- 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

Developed in partnership with ESICM.
Developed in partnership with Baystate Medical Center.
**Training Accessories**

**Pelvic ExamSIM®**
METI’s female pelvic exam training simulator.
- Touch-sensitive technology measures depth, accuracy and palpations
- Three modes for Learning, Assessment and After Action Review

**eDose®**
An innovative, inexpensive subscription-based solution for teaching and assessing drug dosage calculation skills for nursing students and practitioners.
- 100% web-based, available 24/7

**TDCK™ – Trauma Disaster Casualty Kit**
A bleeding and secretions system for additional realism in the learning environment.
- Delivers blood flow, mucus and secreted fluids
- Allows you to create the drama of a crisis, such as a severed limb

**METI FX™**
The ultimate kit of incredibly lifelike moulage wounds to fully immerse learners in trauma situations.
- Easy-to-use
- Realistic look and feel
- Reusable

**Pharmacology Editor**
METI’s Pharmacology Editor takes learning to the next level by allowing users to customize the drug responses on their patient simulator. With the Pharmacology Editor, users can add new drugs to the library, modify pre-programmed drug responses and adapt the pharmacokinetic and pharmacodynamic parameters of a specific drug or set of drugs for a specific patient or patient population.
Enhanced Drug Recognition System
The enhanced Drug Recognition System utilizes barcode technology to identify the drug administered, its respective concentration and quantify the dosage given by the trainee. Available for HPS only.

Instructor’s Wireless Remote Laptop
The instructor’s wireless remote laptop allows for complete simulator operation by a single instructor from any location within the simulation lab setting. The screens and control structure of the remote are identical to the Instructor Workstation.

Full-Function Monitor Interface
The Full Function Monitor Interface allows the simulator to connect with standard patient monitors produced by all major manufacturers, providing the trainee the ability to use and interact with the actual equipment used in the clinical setting. The physiological models within the simulator generate the appropriate signals, which drive patient monitoring equipment in a realistic way via the standard transducer inputs. Available for HPS only.

Hands Free Defibrillator Cables
> Hands Free Cable Kit - Zoll
> Hands Free Cable Kit - Physio Quick Combo
> Hands Free Cable Kit - Phillips

TouchPro Patient Monitor
A touch-screen patient monitor that acts and looks just like a real-world patient monitor, including touch-screen capability and capnography. Compatible with Müse software only.

In-Room Portable Air Compressor
The Portable Air Compressor provides users with a portable air supply for running their ECS, PediaSIM ECS or BabySIM.

Wall Air Kit
The Wall Air Kit includes hoses and regulators that allow any simulator to be hooked to any in-wall air piping, bypassing the compressor.

Battery Supplies
Extra batteries provide additional life for your simulator and allow one battery to charge while still allowing your simulator to operate wirelessly.

* iStan Battery 
  provides 8 hours of additional battery life

* METIman Battery 
  provides 4 hours of additional battery life

Deluxe Mannequin Carrying Case
This case allows you to easily transport and store your ECS or METIman mannequin, effectively increasing your mobility. The case is equipped with heavy-duty wheels, handles, zippers and internal security straps to keep the mannequin in place. Two cushioned headrests cradle the simulator head for added protection. Handles on the side permit two people to lift easily.

Deluxe Soft-Sided Carrying Case
This laptop carrying case allows users to store their user laptop and important training materials for easy transport and safekeeping.

Disposable CO₂ Canisters - 4 pack
CO₂ canisters are an inexpensive way to simulate gas exchange and the presence or lack of CO₂.

Convulsions
This option offers a visible cue and simulates minor trembling and shaking from head to feet. This feature can be used to support febrile chills and tremors associated with clinical symptoms. Not available on HPS or BabySIM.
METI offers two-day, on-site or in-house training courses with our equipment by knowledgeable educators from our Education & Training Department. The goal of our Education & Training Department is to help educators apply the METI technology in a valid, meaningful way to enhance operational readiness and ultimately improve patient care. We have developed training programs that are tailored to meet the individual needs of our users and provide the hands-on exposure needed to create effective learning with our simulators. A customizable training solution is available to fill unique learners’ needs with consultation of our Education & Training Department.

Basic Training includes:
> System set-up and overview, maintenance, portability management and application to teaching
> Hands-on simulator training
> Basic curriculum development and integration

Advanced Training includes:
> A continuation of basic training
> In-depth systems training with a focus on scenario development and curriculum integration
> Role-playing, team approaches and debriefing strategies

At METI, we know that saving lives and working on the cutting edge of medical education isn't always easy. Because we know your job can be demanding, our goal is to provide the best possible service to our customers when you need it. That’s why we created the METI Warranty Program - our commitment to you that we’ll be there if something goes wrong. METI offers three extended warranty programs:

**METI Extended Warranty Program**
> Labor and materials for the repair of METI products at the METI facility.
> Software upgrade services
> Customer support hotline
> Freight costs to the METI service center are not covered. However, METI bears the return freight costs by the same method as the incoming shipment.

**METI Premier Warranty Program**
The items covered in the extended warranty, plus:
> On-site repair provided on an “as-needed” basis as determined by the METI Customer Support staff, at METI’s discretion.
> All shipping and freight costs to and from METI.
> Once-a-year preventative maintenance performed by a METI Customer Support technician, including physical inspection and cleaning of your system with any adjustments or calibrations that are necessary.

**METI Premier Plus Warranty Program**
For customers with three or more simulators, the METI Premier Plus Warranty Program includes all the features of the Premier Program at a discounted rate.
### Which Simulator is Right for You?

<table>
<thead>
<tr>
<th>Feature</th>
<th>iStan</th>
<th>METIman Prehospital</th>
<th>METIman Nursing</th>
<th>ECS</th>
<th>HPS/ PediaSim HPS</th>
<th>PediaSIM</th>
<th>BabySIM</th>
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* *Pulses also logged for after action review.*

For more product information visit meti.com.
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Which Simulator is Right for You?

- Sternal IO: Option
- Tibial IO: Option
- Flashback: Option
- Jugular IV line: Option
- Femoral IV line: Option
- Subclavian IV line: Option
- IV Cannulation: 2 Ports
- BP Bilateral: Left Only
- Cuff: Option
- Palpation: Option
- Auscultation: Option
- Blood on Board: Option
- Blood Tank Capacity: 1.8L, 1.5L
- Clear Fluid Tank Cap: 800mL
- Tourniquet Sensor: Bilateral
- Needle Decompression: Bilateral, Bilateral
- Chest Tube Placement: Bilateral, Bilateral
- Convulsions: Option
- Bulging Fontanel: Option
- GU Catheterization: Option
- Male/Female Genitalia: Option
- Reservoir for Output: No (IV Bag), No (IV Bag)
- Output Control: Variable, Gravity
- Vocal Sounds Pre-Programmed: Option
- Breath Sound Locations: 8 Anterior, 6 Posterior
- Heart Sound Locations: 4
- Bowel Sound Locations: 4
- Interface with Real Clinical Monitors: Option
- Administer O₂ and Automatic Recognition: Option
- Interface with Ventilators: Option
- Various Modes of Ventilation: Option
- Quantify CO₂ Presence: Option
- Pulmonary Artery Catheter: Option
- Insert NG or OG Tube: Option
- Lavage/Gavage: Option
- Gastric Distension with Esophageal Intubation: Option
- Installation On-Site (Optional): Included
- Training On-Site (Optional): Option
- Training at METI (Optional): Option
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