



Medical Education Technologies, Inc.®



PediaSIM[®] ECS[™]



Introducing the METI PediaSIM ECS

Life with children is unpredictable! That's why METI created the PediaSIM ECS—the first highly portable pediatric patient simulator that can go anywhere. The PediaSIM ECS was specifically designed to make responding to even the most unexpected critical events in the most unlikely places seem like second nature to your learners—all the while building the skills and the confidence they need to provide safe and effective pediatric patient care.

It is no longer necessary for learners to get their first real exposure to the complexities and nuances of treating critically ill children in practice—when the stakes are high and the dangers real. With all the capabilities you'd expect from a METI product—including a newly designed anatomically correct pediatric mannequin, trauma features, a realistic airway, heart, breath, bowel sounds, and bilateral pulses, to name a few—the PediaSIM ECS is the perfect learning tool to isolate critical distinctions in anatomy and physiology, types of injuries and underlying physical conditions when training medical professionals who work with and treat children.

Life may be unpredictable, but with the PediaSIM ECS, it doesn't have to be!

THE METI MODEL-DRIVEN DIFFERENCE

By incorporating the powerful METI HPS6™ Software, the PediaSIM ECS offers highly developed pediatric patient models that generate realistic and automatic responses to clinical interventions and drug administration. And unlike a task-trainer, the PediaSIM ECS automatically responds to learner interventions and represents a true-to-life response to these interventions. By providing a realistic means to bridge the gap from didactic learning to clinical application, the PediaSIM ECS provides the best transition for learners to apply their knowledge of pediatric patient care in a safe, no-risk environment.

PediaSIM ECS Clinical Features

<p>PEDIATRIC MANNEQUIN This brand new mannequin is unlike anything the industry has ever seen before. A complete re-creation of an actual six-year-old child, the pediatric patient mannequin measures in at 48 inches (122 cm) tall, weighs 38 pounds (17.2 kg) and is fully operational in the supine, lateral and sitting positions.</p>	<p>AIRWAY FEATURES The PediaSIM ECS provides an anatomically realistic upper airway that includes all of the following features:</p> <ul style="list-style-type: none"> • Hard and Soft Palate • Oropharynx • Conical Trachea • Carina • Nasopharynx • Laryngopharynx 	<p>THORAX AND PERIPHERY FEATURES The pediatric mannequin was designed to support a wide range of clinical interventions involving the chest cavity. Each of the following features helps to isolate specific learning objectives:</p> <ul style="list-style-type: none"> • Bilateral Chest Excursion • Bilateral Breath Sounds—normal and abnormal—synchronized with breathing and ventilation • Synchronized Heart Sounds—normal and abnormal—synchronized with the ECG • Chest Compressions • 3 or 5 Lead ECG • Transthoracic Pacing • Synchronized Cardioversion • Defibrillation • Needle Decompression (bilateral) • Chest Tube Insertion with drainage (bilateral) • Bowel Sounds in all four quadrants • Six Bilateral Pulses (carotid, brachial, radial, femoral, popliteal and pedal)
<p>HEAD ANATOMICAL FEATURES The pediatric mannequin head offers tremendous realism with features such as:</p> <ul style="list-style-type: none"> • Articulating Mandible that supports mask ventilation • Retractable Eyelids with blink settings and three manually adjusted pupil settings (including normal, pinpoint and blown) • Exhalation of air and CO₂ • Phonation features • Secretions such as tears, drool and ear secretions 	<p>Additionally, the pediatric mannequin provides critical airway landmarks such as a realistic Tongue, Epiglottis, Aryepiglottic Fold, Cuneiform Tubercle, Corniculate Tubercle, Laryngeal Inlet, Vocal Cords and Esophagus. These features provide for the following accurate respiratory therapeutic interventions:</p> <ul style="list-style-type: none"> • Oropharyngeal Intubation • Nasopharyngeal Intubation • Bag-Valve-Mask (BVM) Ventilation • Laryngoscopic Procedures • Intubation using a Laryngeal Mask Airway (LMA) • Endotracheal Tube Intubation 	
<p>AIRWAY TRAUMA The PediaSIM ECS provides airway trauma features that allow for the use of appropriate clinical supplies and equipment and include all of the following:</p> <ul style="list-style-type: none"> • Swollen Tongue • Laryngospasm • Upper Airway Obstruction • Bronchial Occlusion • Esophageal, Nasal and Oral Intubation • Needle Cricothyrotomy • End Tidal CO₂ Detection via Colormetric Device (ETCO₂) 	<p>PHARMACOLOGY FEATURES The PediaSIM ECS mannequin has IV access sites (Jugular, Intraosseous, and Arm) and a specific pediatric drug library designed to isolate critical pharmacology learning objectives. Additionally, a peripheral IV may be started for fluid and drug administration.</p>	<p>MONITORING FEATURES Patient monitoring features help learners with the all-important skill set of observing patient feedback. Included with the PediaSIM ECS, the Waveform Display Monitor allows the following monitoring capabilities:</p> <ul style="list-style-type: none"> • Pulse Oximetry • Central Venous Pressure (CVP) • Arterial Blood Pressure (ABP) • Pulmonary Arterial Pressure (PAP) • Thermodilution Cardiac Output (TCO) • Non-invasive Blood Pressure (NIBP) • Auscultation of Karotkoff Sounds • 3 to 5 Lead ECG • Blood, Body, Rectal and Axial Temperature • Pulmonary Capillary Occlusion Pressure (PCOP or “wedge”)

PediaSIM ECS COMPLETE PACKAGE

The PediaSIM ECS comes complete with all of the following standard equipment or can be purchased with additional options.



STANDARD EQUIPMENT

NEW! Pediatric Mannequin
Power and Communications Unit
Instructor's Workstation Laptop
Waveform Display Monitor
HPS6™ Software
Pediatric Patient Profile and
Clinical Simulations

OPTIONAL EQUIPMENT

Auxiliary Power Supply
Air Compressor
Remote Control Laptop
Computer Bag
Mannequin Carrying Case
Gas Accessory Kit
Trauma/Disaster Casualty Kit—TDCK™

For more information regarding the METI PediaSIM-ECS, contact your Regional Account Manager by calling toll free at **866-233-METI (6384)** or visiting our website at **www.meti.com**.