



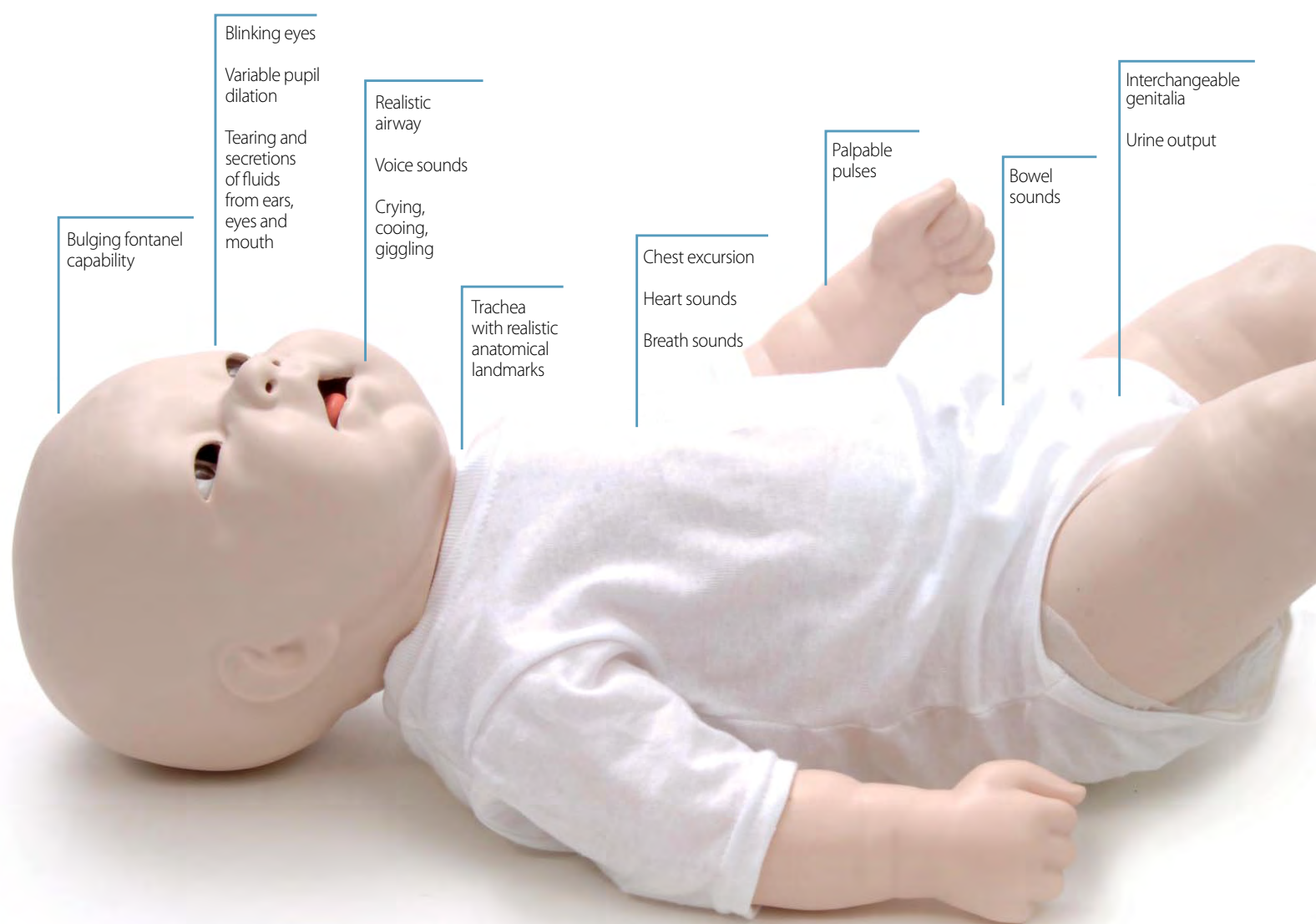
**BABIES NEED SPECIAL CARE**

**METI®**



# BabySIM...

# caring for our most precious patients



Blinking eyes

Variable pupil dilation

Tearing and secretions of fluids from ears, eyes and mouth

Realistic airway

Voice sounds

Crying, cooing, giggling

Trachea with realistic anatomical landmarks

Chest excursion

Heart sounds

Breath sounds

Palpable pulses

Bowel sounds

Interchangeable genitalia

Urine output

Bulging fontanel capability

## BABIES NEED SPECIAL CARE

Treating a critically-ill infant requires a unique skill set that can only come from hands-on, real time experience. Knowing what to look for and how to find answers— quickly and with no mistakes—is essential. But this kind of experience can't come from exposure to critical care situations in practice. The stakes are simply too high and the patients too precious. When a parent hands over their sick baby to a medical professional, they are counting on a miracle.

BabySIM incorporates highly developed infant physiological models that generate realistic and automatic responses to clinical interventions and drug administration. Unlike a task-trainer, BabySIM 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 BabySIM provides the best transition for learners to apply their knowledge of infant patient care in a safe, no-risk environment.

## ALL ABOUT BABY RYAN

Baby Ryan is a healthy six-month old whose physiology is accurately represented through the use of complex mathematical models of his pulmonary, cardiovascular, metabolic and neurological systems. The integrated, coupled function of these models is capable of imitating the human infant response to medical treatment and drugs in the multi-layered, real-time ways that are vital to a true medical learning experience.

## ENHANCE YOUR LEARNING EXPERIENCE

METI Learning Modules include a collection of carefully defined Simulated Clinical Experiences (SCEs™) that allow you to easily integrate specific learning content into your program. Below are just some of the learning modules available for BabySIM, for a complete list visit [www.meti.com](http://www.meti.com).

### INFANT NURSING LEARNING MODULE

Includes eight SCEs developed from the Program for Nursing Curriculum Integration (PNCI®) for those specifically interested in simulations involving the care of an infant patient.

- 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

### INFANT EMERGENCIES LEARNING MODULE

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

### STANDARD EQUIPMENT

- BabySIM Mannequin
- Power and Communications Unit (PCU)
- Instructor's Workstation (Laptop)
- Waveform Display Monitor
- HPS6™ Software
- Baby Ryan Patient Profile and SCEs

### OPTIONAL EQUIPMENT

- Auxiliary Portable Power Supply
- Air Compressor
- Remote Control Laptop
- Computer Bag
- Mannequin Carrying Case
- Gas Accessory Kit



## BABYSIM CLINICAL FEATURES

### INFANT MANNEQUIN

A complete reproduction of an actual 6 – 9 month infant patient measuring 25.75 inches (65.4 cm) tall, weighing 16.25 pounds (7.37 kg) and fully operational in the supine, lateral and sitting positions.

### HEAD ANATOMICAL FEATURES

The infant mannequin head offers tremendous realism with features such as:

- Articulating mandible that supports mask ventilation
- Retractable eyelids with blink settings and three manually adjusted pupil settings (normal, pinpoint and blown)
- Exhalation of air and CO<sub>2</sub>
- Phonation features such as crying, cooing and giggling
- Fluids such as tears, drool and ear secretions
- Palpable anterior fontanel with intracranial pressure of normal to bulging

### AIRWAY FEATURES

BabySIM provides an anatomically realistic upper airway that includes all of the following features:

- Hard and Soft Palate
- Oropharynx
- Nasopharynx
- Laryngopharynx
- Conical Trachea
- Carina
- Clinical Device use such as a LMA
- Spontaneous and Mechanical Ventilation

### GENITOURINARY

- Male and Female Genitalia
- Urine Output

### THORAX AND PERIPHERY FEATURES

The infant mannequin was designed to support a wide range of clinical interventions. Each of the following features helps to isolate specific learning objectives:

- Bilateral Chest Excursion
- Bilateral Breath Sounds—normal and abnormal—synchronized with breathing and ventilation
- Synchronized Heart Sounds (normal and abnormal)
- Chest Compressions
- 3-Lead ECG Monitoring
- Transthoracic Pacing
- Synchronized Cardioversion
- Defibrillation
- Needle Decompression (unilateral)
- Chest Tube Insertion with Drainage (unilateral)
- Auscultation of Karotkoff Sounds
- Bowel Sounds
- Four Bilateral Pulses (brachial and femoral)

### TRAUMA FEATURES

BabySIM provides airway trauma features that allow for the use of appropriate clinical supplies and equipment and include all of the following:

- Swollen Tongue
- Upper Airway Obstruction
- Laryngospasm
- Bronchial Occlusion
- Esophageal, Nasal and Oral Intubation
- End Tidal CO<sub>2</sub> Detection via Colorimetric Device (ETCO<sub>2</sub>)

Additionally, the 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:

- Oropharyngeal Intubation
- Nasopharyngeal Intubation
- Bag-Valve-Mask (BVM) Ventilation
- Laryngoscopic Procedures
- Endotracheal Tube Intubation

### PHARMACOLOGY FEATURES

The BabySIM mannequin has IV access site (Femoral) and a specific infant drug library designed to isolate critical pharmacology learning objectives. Pharmacokinetics and pharmacodynamics are pre-programmed.

### MONITORING FEATURES

Monitoring features help learners with the all-important skill set of observing patient feedback. Included with the BabySIM, the Waveform Display Monitor allows the following monitoring capabilities:

- 3-Lead ECG
- Pulse Oximetry
- Central Venous Pressure (CVP)
- Arterial Blood Pressure (ABP)
- Pulmonary Arterial Pressure (PAP)
- Non-invasive Blood Pressure (NIBP)
- Blood, Body, Rectal and Axial Temperature
- Pulmonary Capillary Wedge Pressure
- SpO<sub>2</sub>

# www.meti.com

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

# METI®

*Medical Education Technologies, Inc.®*

6300 Edgelake Drive  
Sarasota, FL 34240 USA  
tel 941-377-5562  
[www.meti.com](http://www.meti.com)  
[www.hpsn.com](http://www.hpsn.com)