Gaumard®
Simulators for Health Care Education

Newborn HAL® S3010

A Neonate at 40 Weeks Gestational Age

- Easy to use
- Tetherless with wireless communication
- Fully responsive even while being carried
- Modeling and trending
- Comprehensive performance feedback

Meet Newborn HAL®, the original wireless and tetherless newborn patient simulator.

Newborn HAL S3010 is a 40-week tetherless newborn featuring programmable spontaneous breathing, pulses, color, and responses to CPR like a real baby.

Wireless and Tetherless

Control Newborn HAL wirelessly while he smoothly transitions between physiologic states in response to commands from a wireless tablet PC.

Cyanosis

Color and vital signs respond to hypoxic events and interventions.

Realistic umbilicus

HAL's umbilicus can be catheterized and even has a pulse synchronized with programmed heart rate.

Bilateral IV arms

Newborn HAL has bilateral IV training arms that can be used for bolus or intravenous infusions and draining fluids.

Intraosseous access

Intraosseous infusion and injection system with realistic tibia bones.

Monitor ECG using real electrodes

Newborn has conductive skin regions that allow the user to track cardiac rhythms with their own equipment just like with a human patient

Our intuitive and powerful software offers ease of use and the flexibility required by the most advanced simulation programs.

UNI® Features

- Basic view provides windows for the simulator's 3D model, a completely configurable vital signs monitor, and an activity log.
- The 3D image can be rotated or enlarged, the skin removed, and physiologic parameters accessed to change any element of a powerful physiologic engine.
- Physiologic parameter groups include airway, breathing, cardiac, cephalic, and circulation. Move each about the status panel
- Expand windows to include status, palettes, scenario, branching scenario, actions, log, monitors, and CPR recorder.
- Specify only frequently used parameters or be as detailed as you wish.

Includes our new Neonatal Care Simulation Learning Experiences™ scenario package.

The new Neonatal Care Simulation Learning Experiences (SLEs) provide you with a library of ready-to-use, evidence-based scenarios designed to help you maximize participant's learning through outcome-focused simulated clinical patient encounters. The package includes 8 SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

- Acute Respiratory Distress Syndrome
- Bronchopulmonary Dysplasia with Pulmonary Hypertension
- Drug-Exposed Infant/Neonatal Abstinence Syndrome
- Early-Onset Sepsis
- Late-Onset Sepsis
- Nuchal Cord
- Pneumonia
- Shoulder Dystocia

Gaumard Vitals™ Virtual Patient Monitor.

- Optional all-in-one touchscreen PC
- Customize each trace independently; users can set alarms and timescales.
- Display up to 12 numeric values including HR, ABP, NIBP, CCO, SpO_2, SvO_2, RR, $EtCO_2$, temperature, and time
- Select up to 12 dynamic waveforms, including ECG Lead I, II, III, respiration, and capnography.
- Share images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses

Features

General
- Available in light, medium, and dark skin tones
- Wireless and tetherless; fully responsive even while being transported[1]
- Powered by an internal rechargeable battery or wall outlet
- Internal rechargeable battery provides up to 4 hrs. of tetherless operation[2]
- Use pre-programmed scenarios, modify them, or create your own quickly and easily

Airway
- Multiple upper airway sounds synchronized with breathing
- Nasal or oral intubation
- Right mainstem intubation
- Sensors detect depth of intubation
- Block right lung, left lung, or both lungs
- Head tilt/ chin lift
- Jaw thrust
- Accommodates simulated suction techniques
- Bag-Valve-Mask Ventilation
- Works with conventional airway adjuncts
- Retrograde intubation
- Sellick maneuver brings vocal cords into view

Breathing
- Control rate and depth of respiration and observe chest rise
- Automatic chest rise is synchronized with respiratory patterns
- Select independent left and right upper lung sounds
- Chest rise and lung sounds are synchronized with selectable breathing patterns
- Accommodates assisted ventilation, including BVM and mechanical support
- Ventilations are measured and logged
- Chest compressions generate palpable blood pressure waveform and ECG artifacts
- Detection and logging of ventilations and compressions
- Simulated spontaneous breathing
- Variable respiratory rates and inspiratory/expiratory ratios
- Bilateral chest rise and fall
- Unilateral chest rise simulates pneumothoraces
- Normal and abnormal breath sounds
- Programmable crying and grunting sounds

Circulation
- ECGs are generated in real-time with physiologic variations never repeating textbook patterns
- Heart sounds may be auscultated and are synchronized with ECG
- Central cyanosis
- Measure blood pressure by palpation or auscultation
- Use real modified BP cuff to measure blood pressure
- Korotkoff sounds audible between systolic and diastolic pressures
- Pulse sites synchronized with BP and heart rate
- Bilateral IV arms with fill/drain sites
- Realistic flashback
- SubQ and IM injection sites
- Intraosseous access at tibia
- Chest compressions are measured and logged
- ECG monitoring using real devices; apply real electrodes to conductive skin regions
- Multiple heart sounds, rates, and intensities
- ECG rhythms are generated in real-time
- Heart sounds synchronized with ECG
- Dynamic 12-Lead ECG display with optional vital signs monitor
- Fontanelle, umbilical, and bilateral brachial pulses synchronized with ECG

Other
- Articulation and movement
- Seizure/convulsions
- Muscle tone active, right arm only, left arm only, reduced and limp
- Color and vital signs respond to hypoxic events and interventions
- Fill bladder and perform Foley catheterization
- Interchangeable genitalia
- Umbilical catheterization
- Umbilicus with two arteries and one vein. Even practice cutdowns
- Temperature probe placement
- Insert feeding tubes
- Auscultate bowel sounds

NEWBORN HAL® S3010

S3010.PK

Newborn HAL Tetherless Patient Simulator, control PC preloaded with UNI®, RF module, battery charger/power supply, receiving blanket, umbilical cords, tibia bone pack, replacement lower arms, BP cuff, IV filling kit, soft carrying case, user manual. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

Gaumard Vitals™ Bedside Virtual Monitor

30080154B

Gaumard Vitals bedside virtual patient monitor. Simulates 20+ dynamic numerical parameters and waveforms. Customizable interface.

Gaumard Vitals™ Portable Virtual Monitor

30081003A

Portable Gaumard Vitals virtual patient monitor. Simulates 20+ dynamic numerical parameters and waveforms. Customizable interface.

Care in Motion™ Mobile Video Debriefing System

CIM.PK

Care in Motion Tablet PC, 3 Battery-powered HD wireless cameras, 3 adjustable camera grips, transport case, and one-year limited warranty (extended warranty plans available).

Request a quote

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Worldwide 305.971.3790

1. Maximum wireless range will vary depending on environmental factors and conditions. 2. Battery life estimates dependent on active features and settings; results may vary.