



Gaumard[®]
Simulators for Health Care Education



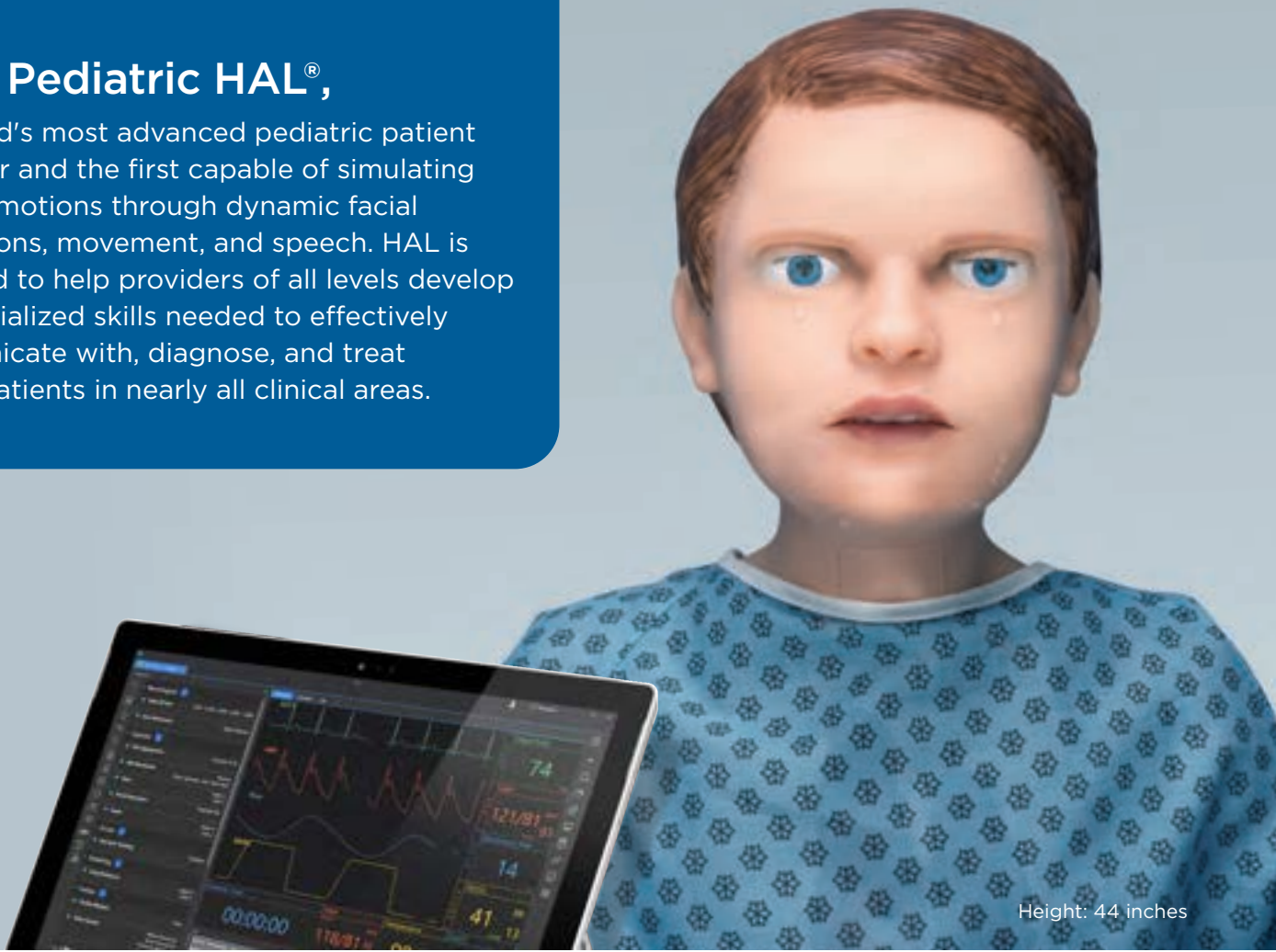
Pediatric HAL[®] S2225

Advanced Pediatric Patient Simulator

- Interactive eyes and active facial expressions
- Dynamic lung compliance with true ventilator support
- Real patient monitor support: SpO₂, EKG, capnography, NIBP, live pacing, and defibrillation
- Surgical airway, needle decompression, and chest tube
- Wireless and tetherless

Meet Pediatric HAL[®],

the world's most advanced pediatric patient simulator and the first capable of simulating lifelike emotions through dynamic facial expressions, movement, and speech. HAL is designed to help providers of all levels develop the specialized skills needed to effectively communicate with, diagnose, and treat young patients in nearly all clinical areas.



Height: 44 inches



Immerse participants in the most engaging pediatric Simulation Learning Experiences™ yet

Pediatric HAL includes 10 evidence-based scenarios designed to help you maximize participant learning through outcome-focused simulated clinical patient encounters. A detailed written guide accompanies each scenario for setting up, planning, and facilitating the learning experience.

- Acute Lymphocytic Leukemia (ALL)
- Appendicitis
- Post-Op Cardiac Transplant
- Potential Organophosphate Poisoning
- Respiratory Syncytial Virus (RSV)
- Sepsis In A Six-Year-Old
- Seizure Management
- Status Asthmaticus
- Trauma Related To Child Abuse
- Four-Year-Old With Trauma



Introducing lifelike facial expressions and emotions—a revolutionary new level of interaction and richer patient-provider communication

Through scenario-based learning, HAL can help participants assess verbal and non-verbal cues to build patient-provider communication skills and empathy.

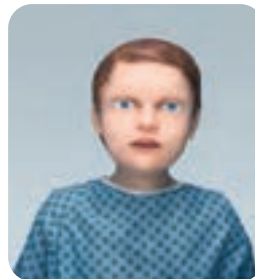


HAL automatically turns head and eyes towards the approaching subject.

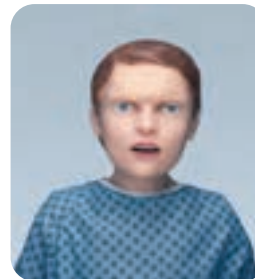
In addition to illustrating nearly a dozen facial expressions, HAL also simulates a variety of common emotional states to better approximate behavior. Simply set HAL's emotional state to lethargic, for example, and the eyelids will droop automatically, head movement will slow, and yawning will occur periodically.

What's more, the powerful UNI® 3 software lets you create your own facial expressions and emotions to expand the scope of the learning experiences. The UNI 3 library includes the following presets to get you started:

- Anger
- Transient pain
- Ongoing pain
- Amazed
- Quizzical
- Worried
- Anxious
- Crying
- Yawning
- Lethargic



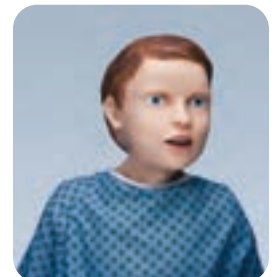
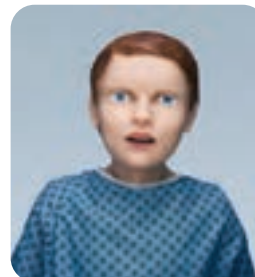
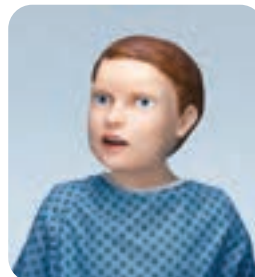
Ongoing pain



Transient pain



Crying



Horizontal head movement (Active robotics)



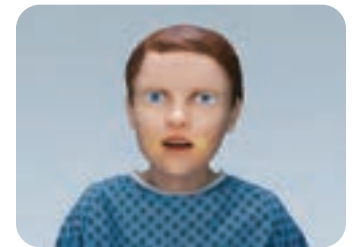
Truly comprehensive pediatric patient assessment exercises

Interactive eyes and color-changing skin allow Pediatric HAL to illustrate signs of varying emotional states, trauma, and many other neurological diseases and conditions.

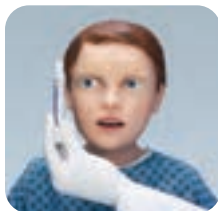
- Accommodation test: automatic horizontal tracking and manual vertical tracking
- Strabismus: exotropia and esotropia
- Nystagmus: eyeball twitching
- Blepharospasm: eyelid twitching
- Ptosis: eyelid droop
- Realistic idle eye movement
- Independent pupillary light reflex
- Mydriasis: blown pupil
- Anisocoria: unequal pupil sizes
- Programmable blinking rate
- Consensual and nonconsensual pupillary light reflex
- Mild and severe seizures



Pallor



Jaundice



Automatic object tracking



Cyanosis



Redness



- High-fidelity heart, lung, and bowel sounds
- Independent normal/abnormal heart sounds at aortic, pulmonic, and mitral sites
- Anterior and posterior lung sounds
- Spontaneous breathing and selectable normal and abnormal respiratory patterns
- Programmable unilateral chest rise and fall

Practice using real patient monitors, equipment, and sensors

Pediatric HAL supports a broad range of real patient monitors and sensors. This unique capability allows participants to practice setting up and operating equipment just as they would in real situations.

- ECG/EKG monitors
- ECG-derived respiration monitoring support
- Oximeters
- Capnographs
- Defibrillators
- NIBP monitors
- Glucose meters



Real glucose testing via fingerstick



Real-time SpO₂ monitoring



- Palpable pulses: bilateral carotid, brachial, radial, femoral, and pedal
- Bilateral IV access supports sampling and continuous infusion
- Capillary refill time testing
- Blood pressure-dependent pulses
- Urethral catheterization with programmable flow



The next generation in pediatric advanced life support simulation

Thanks to its ultra-high fidelity anatomical and physiological features, Pediatric HAL supports the practice of advanced-level algorithms using real tools and clinically accurate techniques.

- Wireless and tetherless; fully functional during transport
- Anatomically accurate oral cavity and airway
- Surgical airway
- Laryngospasm and tongue edema
- Visible chest rise following guideline-recommended flow, PIP, and PEEP values
- SpO₂ and EtCO₂ monitoring
- Anterior/posterior defibrillation
- Real-time CPR monitoring and feedback
 - » Compression depth, rate, and interruption duration
 - » Ventilation rate and duration
 - » Smart CPR voice coach
 - » Performance report summary



Tracheal intubation detection



Supraglottic airway device support



Anterior/posterior defibrillation



Realistic chest recoil



Defibrillation, cardioversion, and pacing using real devices and live energy



Intraosseous infusion

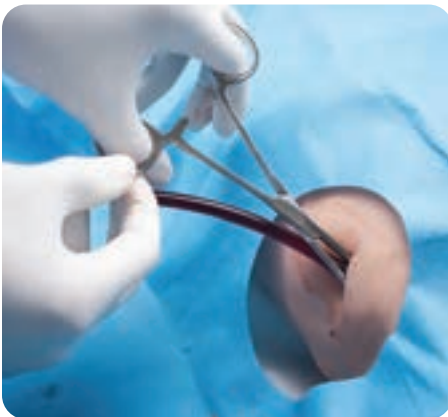


Left midaxillary hemothorax site

Immersive skills training in emergency intervention and management

Pediatric HAL features surgical sites for needle decompression and chest tube insertion exercises using real instruments.

- Palpable and anatomically accurate bony landmarks
- Realistic skin supports cutting and suturing
- Chest tube site bleeds when cut and releases fluid upon tube insertion
- Tactile pleural "pop"
- Audible hiss during needle decompression
- Needle and chest tube insertion detection and logging



Chest tube insertion



Cutting and suturing



Audible air release "hiss"

- Palpable cricoid cartilage and cricothyroid membrane
- Permits tracheostomy, cricothyrotomy, and retrograde intubation using real instruments
- Supports positive pressure ventilation via surgical airway
- Programmable difficult airway: laryngospasm and tongue edema

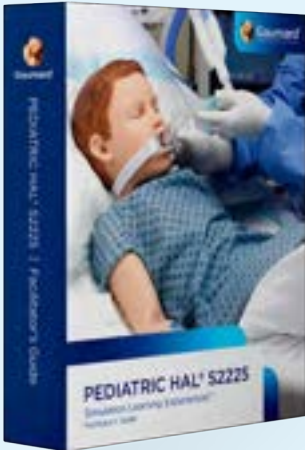


True mechanical ventilation support for advanced respiratory care simulation

Pediatric HAL responds to mechanical ventilation support using real equipment just like an actual patient and can simulate the course of respiratory disease through treatment, weaning, and rehabilitation with the highest degree of physiological accuracy. The patented dynamic lung system in Pediatric HAL requires no manual calibration, external intermediary adapters, or setup boxes. Simply connect HAL to the ventilator and tap the UNI 3 controls to change lung functionality on the fly.

- Modes supported include:
 - ACV, SIMV, CPAP, PCV, PSV
- Programmable respiratory patterns
- Supports therapeutic levels of PEEP
- Programmable airway and lung function
- Dynamic lung compliance
- Bilateral bronchi resistance
- Respiratory effort triggers ventilator during weaning
- No manual calibration, external intermediary adapters, or setup boxes required.





Includes Simulation Learning Experiences™ scenario package

The Pediatric HAL Simulation Learning Experiences (SLEs) package provides you with a library of ready-to-use, evidence-based scenarios designed to help you maximize participants learning through outcome-focused simulated clinical patient encounters. The package includes 10 SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience.

1. Acute Lymphocytic Leukemia (ALL)
2. Appendicitis
3. Post-Op Cardiac Transplant
4. Potential Organophosphate Poisoning
5. Respiratory Syncytial Virus (RSV)
6. Sepsis In A Six-Year-Old
7. Seizure Management
8. Status Asthmaticus
9. Trauma Related To Child Abuse
10. Four-Year-Old With Trauma



Elevate your training with the all-new UNI® 3

UNI 3 is our most capable patient simulator control software ever. Manage vitals, track performance, and debrief with faster and easier-to-use tools designed to help you facilitate even complex scenarios with ease.

Unified control platform

UNI 3 powers all PC-controlled Gaumard simulators, making it simpler to operate different Gaumard models and manage scenarios.

Powerful physiological controls

Easily adjust vital signs on-the-fly or automate physiological changes and responses using the included turnkey Simulation Learning Experiences scenarios.

Scenario designer

Create your own custom scenarios tailored to your learning objectives and offer participants a wide range of standardized, repeatable learning events.

Real-time CPR feedback

Monitor CPR performance metrics in real-time, enhance training with audible cues, and export performance reports.

Provider evaluation

Evaluate providers directly from UNI 3. Create interactive forms to assess participant performance and aid debriefing.

Time-stamped event log

Automated event tracking ensures important events are always captured so you can focus on the action.

Patient profiles

Create simulated patients with detailed active and past medical histories.

User management

Create users and manage access permissions for user-generated content, including scenarios, patient profiles, and more.

Lab results

Generate simulated lab results to enhance the fidelity of scenarios. Display lab results digitally on the optional Gaumard Vitals™ patient monitor or export to print.

Preconfigured and ready

UNI 3 is preconfigured on the lightweight control tablet PC included with your patient simulator package.

Complimentary webinar training

Sign up for live, instructor-led monthly webinar sessions and become a UNI 3 expert at your own pace.

Features

General

- Height: 44 inches
- Tetherless and wireless; fully responsive during transport¹
- The internal rechargeable battery provides hours of tetherless operation²
- Smooth and supple full-body skin with seamless trunk and limb joints
- Realistic joint articulation: neck, shoulder, elbow, hip, and knee
- Palpable bony landmarks
- Forearm pronation and supination
- Supports common patient positions including Fowler's, supine, and sitting
- Male/female patient conversion
- Tablet PC preloaded with UNI 3 included
- Includes 10 preprogrammed SLEs and facilitator's guidebook

Neurological

- Active robotics simulate lifelike facial expressions including:
 - » Anger
 - » Transient pain
 - » Ongoing pain
 - » Amazement
 - » Quizzical
 - » Crying
 - » Yawning
- Preprogrammed emotional states automatically express associated verbal and non-verbal cues without manual input
 - » Worried
 - » Anxious
 - » Lethargic
 - » Distracted
- Create custom facial expressions via UNI 3 interface
- Programmable jaw movement, bilateral or unilateral brow movement, and horizontal neck rotation
- Automatically turns head and eyes towards the approaching subject
- Stiff neck (torticollis)
- Interactive eyes: eyes can automatically follow a moving object
- Programmable blinking rate, pupil response, and bilateral and unilateral eye movement
- Independent, active pupillary light reflex
- Abnormal eye and eyelid movements: cross-eyed, nystagmus, eyelid twitching, eyelid droop
- Programmable crying/tears release real fluid
- Wireless streaming voice: be the voice of HAL and listen to participants respond in real-time
- Real-time voice modulation effects

- Automatic jaw movement synchronized with speech
- Seizures with selectable intensity levels
- 50+ prerecorded speech responses

Airway

- Anatomically accurate oral cavity and airway
- Supports nasotracheal/orotracheal intubation with standard instruments, including endotracheal tubes and supraglottic airway devices
- Tracheal intubation detection
- Head tilt, chin lift, jaw thrust
- Supports esophageal intubation
- NG/OG tube placement
- Supports bag-valve-mask ventilation
- Realistic surgical trachea permits tracheostomy, cricothyrotomy, and retrograde intubation
- Programmable difficult airway: laryngospasm and tongue edema
- Selectable normal and abnormal upper airway sounds

Breathing

- Spontaneous breathing and selectable normal and abnormal respiratory patterns
- Variable respiratory rates and inspiratory/expiratory ratios
- Programmable unilateral chest rise and fall
- Automatic unilateral chest rise with right mainstem intubation
- Real CO₂ exhalation: supports EtCO₂ monitoring using real sensors and monitoring devices
- Selectable normal and abnormal sounds: upper right, front and back; upper left, front and back; lower right, back; and lower left, back
- Real mechanical ventilation support
 - » AC, SIMV, CPAP, PCV, PSV, and more
 - » Supports therapeutic levels of PEEP
 - » Programmable variable lung compliance
 - » Variable bronchi resistance
 - » Programmable respiratory efforts for weaning/liberation
- Real-time ventilation feedback
- Visible chest rise during PPV ventilation
- Chest tube insertion: left midaxillary hemothorax site features palpable bony landmarks, realistic skin for cutting and suturing, tactile pleural pop, and fluid drain
- Needle decompression site features realistic tactile feedback and audible hiss
- Needle decompression and chest tube insertion detection and logging

Cardiac

- Includes comprehensive library of ECG rhythms with customizable beat variations
- Independent normal/abnormal heart sounds at aortic, pulmonic, and mitral sites
- Supports ECG monitoring using real devices
- Supports ECG-derived respiration monitoring (EDR)
- Real-time CPR monitoring and feedback
 - » Time to CPR
 - » Compression depth/rate
 - » Compression interruptions
 - » Ventilation rate
 - » Excessive ventilation
 - » Smart CPR voice coach
- Effective chest compressions generate palpable carotid pulses
- Defibrillate, cardiovert, and pace using real devices and energy
- Anterior/posterior defibrillation sites
- Supports double sequential external defibrillation (DSED)

Circulatory

- Visible cyanosis, redness, pallor, and jaundice
- Supports capillary refill time testing above the right knee; test detection and logging
- Palpable pulses: bilateral carotid, brachial, radial, femoral, and pedal
- Blood pressure-dependent pulses
- Supports blood pressure monitoring using a real NIBP cuff and monitor
- SpO₂ monitoring using real devices

Vascular Access

- Bilateral forearm IV access supports sampling and continuous infusion
- Intraosseous infusion site at right proximal tibia
- Real glucose test readings via fingerstick

Gastrointestinal

- Patent esophagus
- Gastric distension during excessive PPV
- Bowel sounds in four quadrants
- Interchangeable male/female genitalia
- Supports urinary catheterization with fluid return
- Programmable active urinary elimination

Pediatric HAL® S2225

S2225.PK ● ● ●

- Pediatric HAL S2225
- Tablet PC preloaded with UNI 3
- UNI 3 Software with Lifetime License
- Pediatric HAL Simulation Learning Experiences scenario package
- RF module
- Battery charger
- Accessories
- Rolling transport case
- User guide
- One-Year Limited Warranty
- 2, 3, & 5-year service plans available
- Patented; other patents pending

Gaumard Vitals™ Bedside Virtual Monitor

30080154B

Bedside, customizable virtual patient monitor simulates 20+ dynamic numerical parameters and waveforms. Preconfigured on an all-in-one PC.

Gaumard Vitals™ Portable Virtual Monitor

30081003A

Portable, customizable virtual patient monitor simulates 20+ dynamic numerical parameters and waveforms. Preconfigured on a portable tablet PC.



Care in Motion™ Mobile Video-Assisted Debriefing System

CIM.PK

- Care in Motion Tablet PC
- 3 Battery-powered HD wireless cameras
- 3 Adjustable camera grips
- Transport case
- One-Year Limited Warranty
- Extended service plans available



Gaumard Ultrasound™ Emergency ultrasound simulation training made immersive

Gaumard Ultrasound is a high-fidelity, portable ultrasound simulator specifically designed to immerse learners in realistic scenario-based exercises and aid the development of clinical skills transferable to the real world.

True-to-life ultrasound imaging

Gaumard Ultrasound simulates the function, look, and feel of a real, portable ultrasound machine. Transducer range of motion is natural, and imaging is true to life.

Unmatched scenario realism

Together with Pediatric HAL S2225, Gaumard Ultrasound offers learners simulation experiences never before possible. Go beyond the skills lab and prepare learners for the real world through immersive, simulated patient encounters.

Comprehensive scenario content

The new Pediatric Emergency POCUS/eFAST module provides you with the scenario content to simplify curriculum integration and optimize training opportunities for participants of all levels.

Pediatric Emergency Ultrasound POCUS/eFAST Scenario Module

30081204A

Pediatric HAL® S2225 Emergency Ultrasound POCUS/eFAST Scenario Module for Gaumard Ultrasound™. Package includes: (14) ultrasound cases, (6) Simulation Learning Experiences (SLE) scenarios, and a SLE Facilitator's Guidebook.

Ultrasound case list:

1. Healthy
2. Left Pneumothorax
3. Left Hemothorax
4. Right Pneumothorax
5. Right Hemothorax
6. Splenic Hematoma
7. Splenic Rupture with Blood in Rectovesical Pouch
8. Liver Laceration
9. Pericardial Effusion
10. Pneumoperitoneum
11. Appendicitis
12. Bladder Rupture
13. Left Hemo-pneumothorax
14. Right Hemo-pneumothorax

Request a quote

Sales / customer service

sales@gaumard.com

Website

www.gaumard.com

Toll-Free USA & Canada

Call 8:00 a.m. - 6:00 p.m. ET

Monday - Friday

800.882.6655

Worldwide

305.971.3790

About Gaumard

Gaumard is family owned and operated, and is the direct source for your health care education needs.

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Gaumard products are covered by a one-year limited warranty. Terms and conditions apply. Please visit www.gaumard.com for details.

Technical support

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Phone: 305.971.3790

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Support

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