Gaumard®
Simulators for Health Care Education

2020

Simulators for Health Care Education

Product Catalog

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VICTORIA® S2200

Maternal and Neonatal Birthing Simulator

Meet the most lifelike and versatile maternal patient simulator in the world. VICTORIA® is capable of simulating high-risk, low-frequency deliveries, postpartum care emergencies, and non-gravid patient cases for OB/GYN and med-surg training. VICTORIA's realism allows educators to implement immersive simulation-based exercises to hone teamwork, cross-disciplinary communication, and critical thinking skills crucial for improving performance.

VICTORIA® delivers exceptional training through a truly immersive experience.

From early pregnancy complications, high-risk deliveries, and postpartum emergencies to non-gravid scenarios, VICTORIA® simulates a full range of obstetrical events to facilitate teamwork and deepen critical thinking skills in learners of all levels. More than a childbirth simulator, VICTORIA® is a complete simulation solution developed from decades of obstetrical experience. It is a comprehensive package of tools and support designed to help improve patient safety in women's health through education and training.

More than just realistic, VICTORIA® is remarkably lifelike and anatomically accurate.

VICTORIA® redefines physical fidelity with accurate anatomical proportions that facilitate learning without compromising clinical technique. The smooth, full-body skin provides a look and feel designed to immerse learners in the simulation.

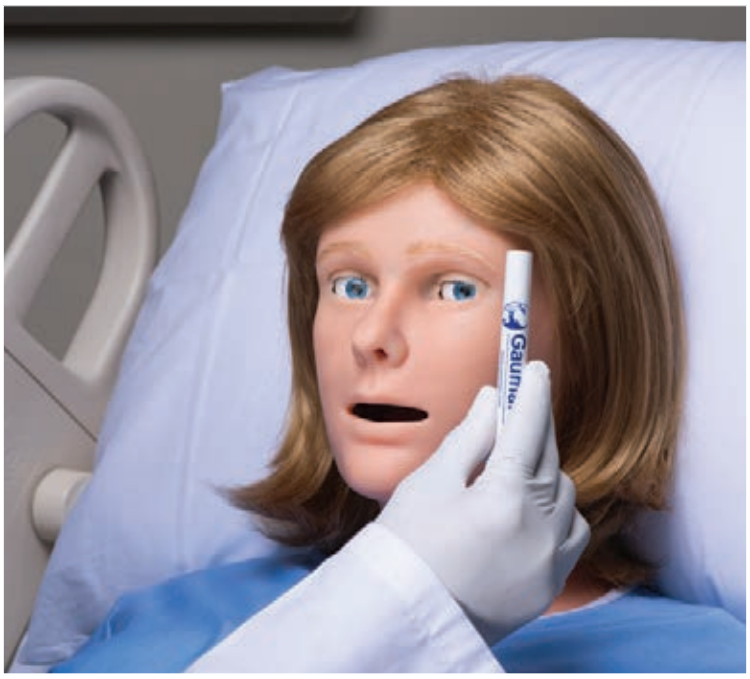
- Wireless and tetherless; up to 10hrs. of battery life
- New interactive eyes: automatic visual object tracking and lifelike eye movements
- Fully programmable airway, breathing, and physiological circulation parameters
- True-to-life shoulder dystocia, breech, and C-section deliveries
- Births lifelike, full-term baby featuring programmable vitals for APGAR scoring
- Integrated array of sensors track the participants' performance in real-time
- Automatic recognition of 50+ virtual medications
- Supports real monitoring equipment: EKG, capnography, defib., NIBP, TOCO, and pulse oximeters
- Includes Microsoft Surface Pro tablet PC and Virtual Patient/CTG Monitor
- Includes new VICTORIA® Labor & Delivery Simulation Learning Experiences scenario package
- Video training library covering setup and operation
- Converts into a non-pregnant patient for general nursing and gynecology training

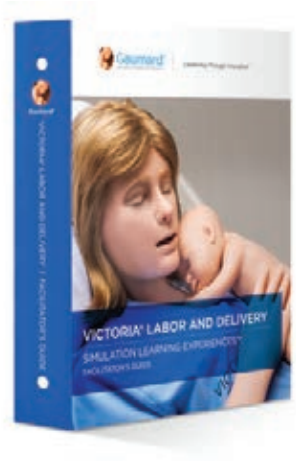
A breakthrough in patient-provider simulation training.

VICTORIA's new interactive eyes are more than unique. They are game-changing. VICTORIA® can track objects visually and present signs of stress, stroke, head trauma, drug use, and many other diseases and conditions.

Streaming audio lets you act as the voice of the patient and engage participants in realistic dialogue to rehearse patient-provider interactions much more effectively.

- 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
- Consensual pupillary light reflex





Includes new Labor & Delivery Simulation Learning Experiences™ scenario package.

The new VICTORIA® Labor & Delivery 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 nine SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience.

- Amniotic Fluid Embolism
- Breech Vaginal Delivery
- Magnesium Toxicity
- Normal Vaginal Delivery
- Placental Abruption
- Postpartum Hemorrhage
- Preeclampsia
- Prolapsed Cord
- Shoulder Dystocia

Transition into the real world using real tools and monitoring devices.

VICTORIA® supports the widest range of real patient monitoring equipment of any childbirth simulator, allowing participants to train using the tools they will use in real situations.

- Fetal Monitor
- ECG Monitor
- Fibrillator
- Pulse Oximeter
- Capnograph
- NIBP Monitor

The gold standard in OB emergency management and care education.

VICTORIA® simulates shoulder dystocia, breech, and C-section deliveries with a level of fidelity that truly suspends disbelief. Participants can immerse themselves deeper and faster as they engage in problem-solving and collaborative teamwork. What's more, VICTORIA® captures participants' performance through an array of hidden sensors to ensure no learning opportunities are missed during debriefing.

Shoulder dystocia

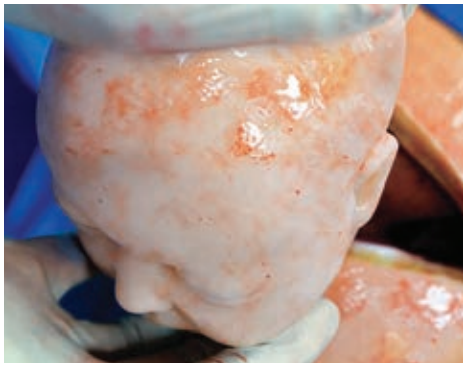
VICTORIA® can present tell-tale signs of a shoulder dystocia complication, including the fetal head emerging and retracting (turtle sign), decrease in the fetal heart rate as seen on the fetal monitor, and delayed external rotation.

- Realistic retraction of the fetal head against the perineum
- Turtle signs synchronize with contractions and the fetal heart rate shown on the fetal monitor
- Suprapubic pressure detection and logging

Breech deliveries

Simulate a realistic breech birth to prepare care providers for low-frequency, high-risk vaginal deliveries. The neonate's smooth skin and articulated limbs support the use of real instruments and advanced maneuvers.

- Simulate an obstruction at any point during labor with precise repeatability
- Practice obstetrical maneuvers including Rubin, Woods' Screw, arm sweeps, Lovset, or Zavanelli
- Hip joint sensors detect and log leg angles



C-section deliveries

Use real surgical instruments for cutting and suturing the abdominal and uterine walls. The replaceable abdominal insert is multi-layered to simulate real skin and bleeds when cut.

- Forceps indication, application, and traction
- Vacuum cup application, suctioning, and traction
- Advanced delivery management techniques: Pinard's, Mauriceau, Ritgen's, Lovset

Newborn assessment and transitional care.

VICTORIA® births a full-term baby of realistic size and weight designed to provide participants with the most realistic visual and tactile experience possible. What's more, VICTORIA's newborn has measurable vitals, which allow participants to perform a health assessment and determine if additional care is needed.

- Lifelike full-term baby of realistic size and weight
- Smooth full-body skin with seamless joints
- Internal sensors record rotation of the fetal head and pull force in real-time
- Anatomical landmarks include palpable fontanelles and sutures

- Full-body endoskeleton provides postural support, range of motion, and resistance
- Articulated spine, shoulder, elbow, hip, and knee joints
- Multiple heart sound types and programmable heart rate

- Multiple respiratory sounds and programmable respiratory rates
- Crying with adjustable volume levels
- Programmable central cyanosis
- Visible head movement (active robotics)
- Programmable conditions for 1-minute APGAR assessment

Hands-on postpartum hemorrhage management.

VICTORIA® features programmable bleeding. Her vital signs deteriorate over time in response to the selected blood loss, leading to the onset of shock. Such bleeding may be reduced through fundal massage, medication, or even the insertion and inflation of a balloon tamponade device.

Postpartum hemorrhage

- Postpartum abdomen with hemorrhaging uterus and 1-liter reservoir facilitates the transition between delivery and postpartum simulations
- Lifelike palpable fundus with programmable uterine contraction and shrinking
- Vital signs automatically deteriorate in response to postpartum blood loss
- Programmable uterine hemorrhage flow control
- Tactile realism during fundal massaging

Episiotomy repair

- VICTORIA® includes three replaceable episiotomy modules that allow for multiple surgical repairs using real surgical instruments.
- Midline episiotomy with periurethral tears
- Mediolateral episiotomy with tears to the labia minora
- Multi-layer fourth-degree episiotomy with hemorrhaging vaginal sidewall tears and cervical lacerations

Manage the full simulation experience from one intuitive interface.

The UNI® simulator control software puts all the best simulation tools at your fingertips. UNI® helps you run realistic scenarios with less effort, automate tasks to make operation easier, and captures more useful participant data for richer debriefing. Best of all, UNI® comes preinstalled in the powerful and lightweight Microsoft Surface Pro tablet PC, allowing you to work conveniently anywhere training takes place.

General

- Tetherless and wireless; fully responsive during transport
- Wireless control at distances up to 300 ft.
- Internal rechargeable battery provides up to 10 hrs. of tetherless operation
- Smooth and supple full-body skin with seamless articulating joints
- Lifelike joint articulation: neck, shoulder, elbow, wrist, hip, knee, and ankle
- Internal high-capacity fluid reservoirs
- (9) Labor & Delivery Simulation Learning Experiences
- NOELLE® Fetus-Newborn wireless link capability
- Includes touchscreen tablet PC preloaded with UNI®
- Includes touchscreen virtual patient monitor and CTG

Neurological

- Programmable blinking rate, pupil response, and bilateral and unilateral eye movement
- Interactive eyes can follow a moving object
- Seizures with selectable intensity levels
- Wireless streaming voice: be the voice of VICTORIA® and listen to participants' responses via a wireless headset
- Record and playback vocal responses in any language

Airway

- Head tilt/chin lift/jaw thrust
- Oral or nasal intubation
- Difficult airway: laryngospasm, tongue edema, and pharyngeal swelling
- Airway intubation depth detection, logging, and reporting
- Esophageal intubation
- Selectable upper airway sounds are synchronized with breathing patterns
- Supports BVM and mechanical ventilation

Breathing

- Spontaneous breathing; selectable respiratory patterns and lung sounds
- Programmable respiratory rates and inspiratory/expiratory ratios
- Realistic chest rise during assisted ventilation
- Ventilation performance, real-time monitoring, reporting, and logging
- Right mainstem intubation detection with automatic unilateral chest rise
- Real CO_2 exhalation

Cardiac

- eCPR™ Real-time compression and ventilation performance
- Effective compressions generate palpable pulses and ECG artifacts
- Select from an extensive library of preprogrammed heart rhythms with dysrhythmia options
- Real-time 4-Lead electrocardiogram monitoring using real ECG devices
- Defibrillation, cardioversion, and pacing using real energy
- Realistic heart sounds
- Programmable heart rate synchronized with ECG and pulses
- Virtual 12-lead dynamic ECG rhythms

Circulation

- Bilateral palpable carotid, radial, and brachial pulses are synchronized with heart rate and blood pressure
- Monitor oxygen saturation using real oximeters
- Measure blood pressure using a real manual or automatic blood pressure cuff
- Bilateral venous access
- Automatic drug recognition detects medication type, dose, and rate injected into the lower right arm
- SubQ and intramuscular injection sites for placement exercises

Obstetrics

- Maternal-fetal physiologic link
- Supports Leopold's Maneuvers and external cephalic version
- Supports fetal monitoring using real devices
- Precision Delivery System: computer-controlled fetal descent and cardinal movements
- Programmable normal, breech, shoulder dystocia, instrument-assisted, and C-section deliveries
- Software-activated self-lubricating birth canal
- Realistic placenta with detachable fragments and umbilical cord
- Epidural placement and needle detection; palpable anatomical landmarks and skin layers
- Intrapartum bleeding
- Force sensor reports traction and torsion applied to the fetus in real-time
- McRoberts maneuver, suprapubic pressure, Zavanelli, Woods' Screw, and "hands and knees" position detection
- Births full-term neonate of realistic size and weight
- Active neonate: programmable heart and respiratory sounds, crying, cyanosis, and movement
- Replaceable episiotomy inserts support suturing
- Multi-layer fourth-degree episiotomy with hemorrhaging vaginal sidewall tears and cervical lacerations
- Programmable uterine firmness and hemorrhaging supports sutures and balloon tamponade
- Programmable hemorrhage flow control

Gastrointestinal

- Selectable bowel sounds
- Internal fluid bladder with urethra for Foley catheterization exercises
- Rectum with suppository placement sensor

VICTORIA® S2200

S2200.PK

Patented; other patents pending

- VICTORIA® S2200
- Active birthing baby
- UNI® Tablet PC with rugged bump case
- UNI® Simulator Control Software with Lifetime License
- GAUMARD Vitals Patient Monitor
- (9) Labor & Delivery Simulation Learning Experiences
- Automatic Mode control license
- Integrated automatic drug recognition
- 20 Programmable drug recognition syringes
- Streaming voice headset
- RF communications module
- USB wireless router
- Mother and baby battery chargers
- User guide
- Palpation abdominal cover
- Contraction abdominal cover
- C-section abdominal cover
- Postpartum abdominal cover
- 2 umbilical cords
- 2 precut umbilical cords
- Placenta
- Epidural insert
- C-section baby
- 2 C-section abdominal skins
- 2 C-Section uterine walls
- Healthy PPH perineum
- Midline episiotomy suture trainer
- Mediolateral episiotomy suture trainer
- 4th-degree episiotomy suture trainer
- 2 suppositories
- Artificial blood concentrate
- Mineral oil lubricant
- Hospital gown, baby head cap, receiving blanket and diaper
- Manual blood pressure cuff
- 2 baby delivery rings
- Birthing baby cradle
- Bladder, IV, and PPH filling kits
- NIBP calibration kit
- Antecubital vein replacement set
- Spare cervix and birth canal
- Birthing baby service cable
- 15 ft. RJ45 cable
- One-Year Limited Warranty
- Extended warranty plans available

SUPER TORY® S2220

S2220.PK

Super Tory - Wireless and Tetherless Neonatal Patient Simulator package. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

Deep Vein Thrombosis Leg

S2200.101

Replaceable DVT left leg including edema, erythema, and palpable cord-like venous segments on the anterior and lateral leg. Includes a preprogrammed drug library of anticoagulation regimens. Supports compression stocking. Skin tones available at no extra charge.

Care in Motion™ MOBILE

CIM.PK

Mobile Video-Assisted Debriefing system. Package includes: 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. Patented; other patents pending.

Nursing and Gynecologic Pack

S2200.234

Convert VICTORIA® to a non-gravid patient for med-surg and GYN scenarios.

- "Head-to-toe" clinical assessments
- Inspection of the vulva and vagina
- Vaginal speculum examination permitting visual recognition of normal and abnormal cervices
- Bimanual pelvic examination allows palpation of the uterus and IUD insertion and removal
- Tubal occlusion, minilaparotomy, laparoscopy
- Uterine manipulation
- Suppository placement
- Auscultation of bowel sounds

Package contents

- Abdominal cover simulating non-pregnant patient
- 10 general and high-risk patient scenarios
- Scenario-based Training Guide
- Anteverted uterus
- Retroverted uterus
- Transparent anteverted uterus for IUD placement
- 5 normal cervices with patent os
- 6 non-patent cervices including 1 normal parous and 5 abnormal cervices
- Removable perineum with integral urethra, vagina, and rectum
- Interchangeable normal tubal fimbriae and ovaries for the anteverted and retroverted uteri
- Simulated round and ovarian ligaments

Modified PHILIPS® defibrillation cables

30080373B

Modified LIFEPAK® defibrillation cables

30080375B

Modified ZOLL® defibrillation cables

30080374B

CO_2 Exhalation regulator

S2200.078

Real and measurable $EtCO_2$. 10 programmable levels of CO_2 output.

NOELLE® S575.100

Advanced Maternal and Neonatal Birthing Simulator

NOELLE®—the most trusted high-fidelity childbirth simulator in the world.

At the click of a button, NOELLE® can simulate antepartum complications, routine and high-risk deliveries, and postpartum emergencies essential in competency-based training and team-building exercises. Learn why educators worldwide recognize NOELLE® as an integral part of their simulation-based training program — whether in a sim lab, in-situ, or mobile unit.

Includes new Labor & Delivery Simulation Learning Experiences™ scenario package.

The new NOELLE® Labor & Delivery Simulation Learning Experiences (SLEs) provide 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 nine SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

- Amniotic Fluid Embolism
- Breech Vaginal Delivery
- Magnesium Toxicity
- Normal Vaginal Delivery
- Placental Abruption
- Postpartum Hemorrhage
- Preeclampsia
- Prolapsed Cord
- Shoulder Dystocia

Realistic fetal palpation

Realistic amniotic sac inside palpation abdominal cover creates a natural and realistic feel when practicing palpation exercises.

Automated precision delivery system

With the click of a button, NOELLE's automatic delivery system moves the fetus throughout the labor stages for repeatable lifelike births. Built-in sensors track participant interaction and give you real-time performance feedback.

Dystocia management

Simulate an obstructed labor, including a lifelike shoulder dystocia complication. Practice management techniques and maneuvers such as McRoberts, Woods screw, "hands and knees," and much more.

Placenta

Simulate cord and placenta complications and distress. Placenta features detachable fragments.

Scenario library

Includes a library of preprogrammed scenarios and a facilitator's guidebook.

Postpartum activity

Perform fundal massage, practice episiotomy repair, and insert and inflate a Bakri balloon.

Wireless and tetherless

NOELLE® functions fully while tetherless, allowing you to transport NOELLE® like a real patient easily.

Patient assessment

Programmable lifelike blinking, pupil reaction, convulsions, chest rise, and much more.

Repeatable control

Simulate repeatable deliveries for competency-based training. Track skill improvement in critical situations.

Real-time feedback

Monitor and log pull force applied to fetus, contractions, and vital signs. Signals alert when excessive force is used.

Use real devices

Use real equipment such as an OSAT monitor, BP cuff, defibrillators, or external cardiac pacemakers.

Vertex delivery

The motor automatically controls descent and rotation.

Epidural procedures

Palable anatomical landmarks and needle placement detection.

Pelvic landmarks

Anatomic landmarks include bilateral ischial spines, coccyx, and pubic symphysis.

Episiotomy repair

Inserts simulate human tissue and can repeatedly be sutured.

NOELLE® delivery neonates.

NOELLE® includes two delivery neonates designed to simulate lifelike cephalic and breech deliveries. Participants can palpate suture lines and fontanelles. Manipulate the jointed arms and legs while managing any potential umbilical cord or placenta complication.

Cephalic delivery baby.

The cephalic delivery baby has audible heart sounds before, during, and after delivery. Monitoring technology reports pull-force applied by the participant in real-time.

Breech delivery baby.

Prepare your participants for low-frequency deliveries. Simulate multiple breech positions to train for C-section and vaginal delivery management techniques.

Shoulder dystocia

Lifelike shoulder dystocia presents fetal head retraction "turtle signs."

Assisted delivery

Practice assisted vacuum extraction and forceps deliveries.

Breech delivery

Practice vaginal breech deliveries and free the legs using Pinard maneuver.

C-section delivery

Multi-layer abdominal wall features subcutaneous tissue, fascia, muscle, and peritoneum.

Advanced neonatal resuscitation training solutions.

Expand your labor and delivery simulation training to include essential neonatal resuscitation scenarios. GAUMARD's wireless neonates allow participants to master critical neonatal care skills that can help save lives. Select a wireless NOELLE® and Neonate bundle package and save.

NOELLE® with Newborn TORY® package.

S575.100.PK

Newborn TORY® S2210 is a realistic, full-term, wireless and tetherless newborn patient simulator designed for practicing assessment, stabilization, resuscitation, transport, and hand-off protocols.

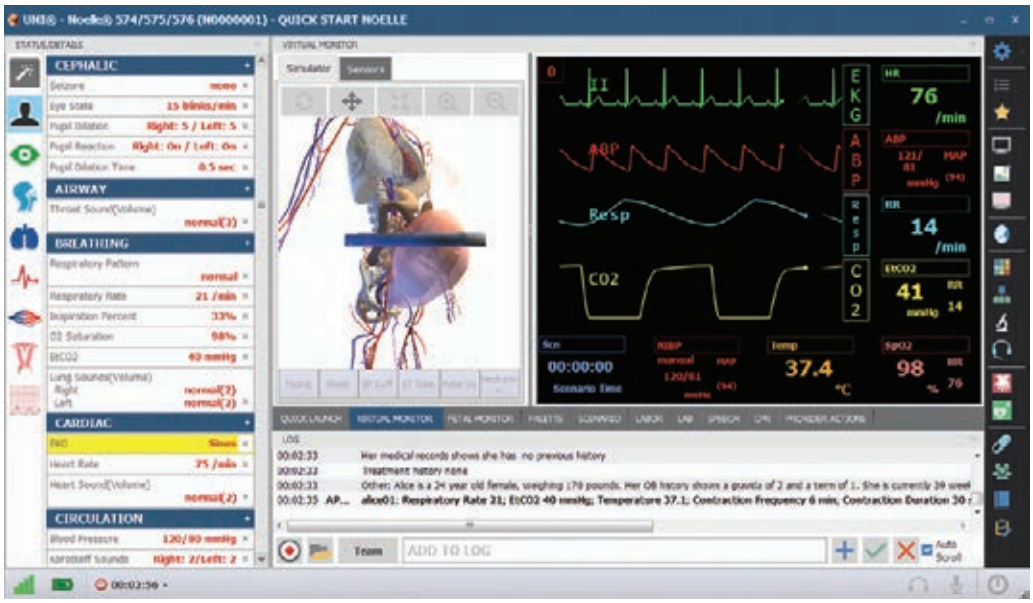
NOELLE® with Premie HAL® package.

S576.100.PK

Premie HAL® S2209 is a lifelike, wireless and tetherless, 30-week premature patient simulator designed for participants of all levels to rehearse preterm airway management, resuscitation, stabilization, transport, and intensive care.

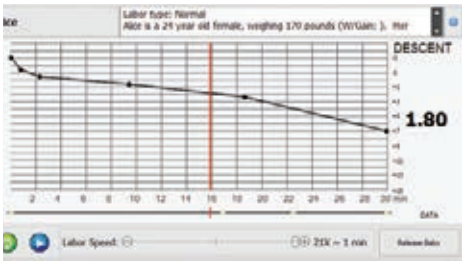
Powerful yet intuitive.

Our intuitive and powerful software offers ease of use and the flexibility required by the most demanding users. Basic view provides windows for the 3D model of the simulator, completely configurable vital signs monitor, activities log, perinatal monitor, and labor curve.



eCPR™

Monitor CPR quality metrics in real-time, including rate and compression depth, no-flow time, and excessive ventilation.

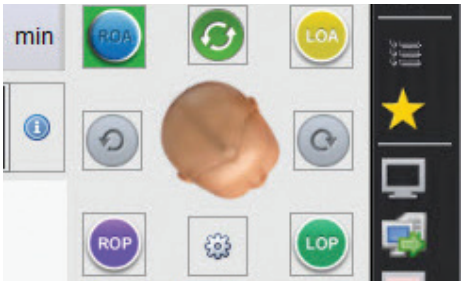


Labor control and descent curve

Program labor variables such as labor duration, delivery position, contraction response, and much more.

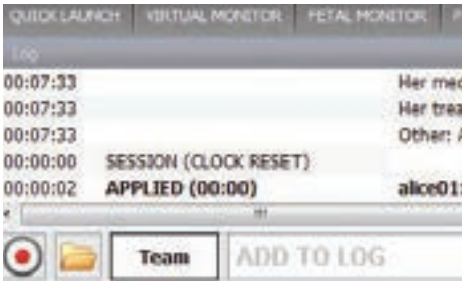
Perinatal monitor

Easy instructor access to the dynamic Perinatal Monitor right from the tablet PC.



Cardinal movements

Precise control over both fetal translation and rotation.



Events log

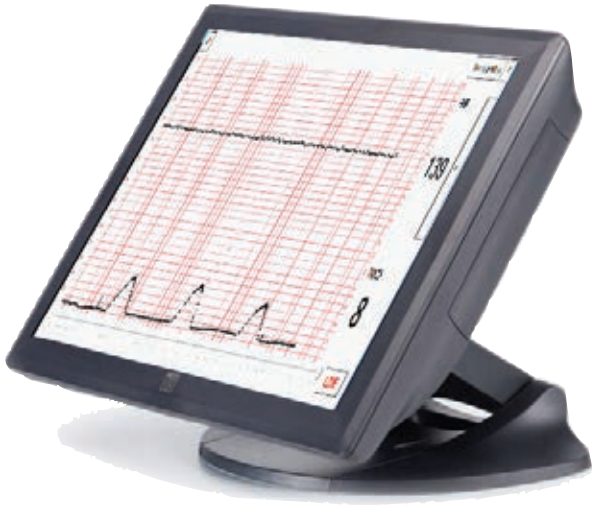
Changes in condition and care provided are time-stamped and logged.

Shoulder dystocia

Simulate a shoulder dystocia complication at the click of a button.

Includes interactive patient and fetal monitor.

The GAUMARD Vitals™ maternal and fetal monitor displays real-time vital signs information. With onscreen file sharing capability, participants have access to simulated lab reports and medical images that enhance realism during simulation. Train participants to interpret vital signs information in order to identify and manage critical situations.



GAUMARD Vitals™ Virtual patient monitor

- Touchscreen patient monitor “all-in-one” PC.
- Display up to 12 parameters including HR, ABP, CVP, PAWP, NIRP, CCO, SpO_2, SvO_2, RR, $EtCO_2$ temperature, and time
- Customize each trace independently; users can set alarms and timescales
- Share images such as x-rays, CT scans, ultrasounds, lab results, and even multimedia presentations as the scenario progresses

Interactive perinatal monitor

The perinatal monitor lets the participants track:

» Baseline fetal heart rate

» Fetal heart rate variability

» Accelerations

» Decelerations

» EFM and FSE heart tones

» Uterine contractions, frequency, and intensity

» Trace history w/ print out capability

» All fetal vital signs are fully programmable

NOELLE® S575.100 | Advanced Maternal and Neonatal Birthing Simulator

NOELLE® features

- Weight 70 lbs. / 32kg, height 69 in / 175 cm
- Realistic neck, shoulder, elbow, hip, knee, and ankle articulation
- Supports birthing on stirrups, foot paddles, and gaskin position
- Wireless and tetherless
- Internal rechargeable battery provides up to 3 hrs. of tetherless operation
- Supports continuous operation on AC power
- Pneumatic and fluid reservoirs are housed inside the body
- NOELLE® Fetus-Newborn wireless link capability

Labor and Delivery

- Automatic and fully programmable birthing mechanism simulates descent and cardinal movements
- Precise labor scenario repeatability for competency-based training and assessment
- 9 Labor and Delivery SLEs
- Facilitator's Guidebook
- Delivery warp factor: simulate lengthy labor scenarios as fast as 2 minutes
- Easily create and share your own scenarios
- Change maternal, fetal, or delivery conditions on-the-fly
- ROA, LOA, LOP or ROP positions simulate OA or OP deliveries
- Palpation abdominal cover features fetus in an amniotic sac for realistic Leopold's and version exercises
- Practice epidural procedures on a spinal cord insert with skin layer, subcutaneous layer, connective tissue, and lumbar vertebrae
- Epidural placement detection
- Monitor traction applied to the fetal head and body
- Anatomic landmarks include bilateral ischial spines, coccyx, and pubic bone
- Realistic birth canal with dilating cervix
- Fetus rotates, dips, and rises during delivery
- Palpable contractions
- Programmable intrapartum bleeding
- Simulate placenta previa, retained placenta, and retrained fragments complications
- Simulate cord complications including nuchal cord, cord prolapse, true knots
- Replaceable cord supports clamping and cutting
- Shoulder dystocia: realistic retraction of the fetal head against the perineum
- Turtle signs are synchronized with contractions and fetal heart rate shown on the fetal monitor
- Strong hip-joints allow for McRoberts maneuvers
- Programmable dystocia so that each student receives exactly the same scenario
- Supports Wood's screw, arm sweeps, Lovset, and more
- Breech delivery: articulating hip and knee joints allow realistic Frank, complete, and footling breech delivery simulations
- Supports forceps and vacuum-assisted delivery using real instruments
- C-section deliveries: supports abdominal incision using real surgical instruments. Abdominal skin features subcutaneous, fascia, rectus muscle, and peritoneum
- Palpable fundus with programmable uterine contractions
- Internal 900mL hemorrhage reservoir
- Uterine bleeding: manage uterine hemorrhage using medications or a balloon tamponade
- Episiotomy repair inserts simulate human tissue that can be sutured closed repeatedly
- Vertex and breech fetus included
- Head features fontanelles and sutures
- Head flexes as it moves through the birth canal

Neurological

- Programmable blinking, dilation, and eye response to light
- Programmable duration and intensity of convulsions
- Prerecorded responses
- Create and store vocal responses in any language
- Wireless streaming voice

Airway

- Program tongue edema and pharyngeal swelling
- Multiple upper airway sounds synchronized with breathing
- Nasal or oral intubation
- Sensors detect depth of intubation
- Supports bag-valve-mask ventilation
- Supports conventional airway adjuncts
- Endotracheal intubation using conventional ETTs

Breathing

- Automatic chest rise is synchronized with respiratory patterns
- Independent left or right lung sounds synchronized with breathing
- Ventilations are measured and logged
- Simulated spontaneous breathing
- Variable respiratory rates and inspiratory/expiratory ratios
- Automatic, spontaneous chest rise
- Normal and abnormal breath sounds
- Anterior auscultation sites

Circulation

- eCPR™ – Monitor rate and compression depth, no-flow time, ventilation rate, and excessive ventilation.
- Normal and abnormal heart sounds
- Heart sounds synchronized with ECG
- ECGs are generated in real-time with physiologic variation
- Measure blood pressure by palpation or auscultation using real instruments
- Oxygen saturation detected using real monitors
- Pulse sites synchronized with BP and heart rate
- IV access
- Optional drug recognition system
- ECG monitoring using real devices
- Defibrillate, cardiovert, and pace using real devices and live energy
- Bilateral carotid, radial, and brachial pulses synchronized with ECG
- Pulses vary with blood pressure and are continuous and synchronized with the ECG even during a paced rhythm

GAUMARD Vitals Monitor

- Touchscreen "all-in-one" PC
- Display up to 12 parameters
- Customize each trace independently; users can set alarms and timescales
- Realistic uterine contraction and FHR waveforms
- EFM and FSE heart tones
- Trace history w/ print out capability
- Customizable layout

Package Contents

- NOELLE® Tetherless Patient Simulator
- Simulator Control PC preloaded with UNI® (Microsoft® Surface Pro Tablet PC)
- Labor and Delivery Simulation Learning Experiences™ scenario package
- Virtual Patient Monitor PC preloaded with GAUMARD Vitals™ Software
- Accessories: palpation abdomen, contraction abdomen, C-section abdomen, umbilical cords, placenta, epidural insert, episiotomy trainer, artificial blood, lubricant, fluid filling kit, consumables
- RF Communications Module
- Battery charger
- Soft carrying case
- User Manual
- One-Year Limited Warranty

Newborn TORY® S2210 features

- Age: 40-week term newborn
- Weight 6 lbs. / 2.7kg
- Length 21.75 in / 55.25 cm
- Smooth and supple full body skin
- Realistic joint articulation
- Wireless and tetherless
- Internal rechargeable battery provides up to 4 hrs. of tetherless operation
- Programmable bilateral or unilateral arm movement, reduced, and limp

Airway

- Head tilt, chin lift, jaw thrust
- Neck hyperextension detection
- Intubation depth detection and logging
- Intubatable airway
- Crying/grunting sounds

Breathing

- Automatic, spontaneous breathing
- Programmable respiratory rates, patterns, and I:E ratios
- Visible chest rise with PPV
- Unilateral chest rise with mainstem intubation
- Ventilations are measured and logged
- Normal and abnormal lung sounds
- Real CO_2 exhalation (option: S2210.078)

Circulatory

- Comprehensive ECG rhythm library
- ECG monitoring using real devices
- eCPR™ Real-time CPR feedback
- Effective chest compressions generate palpable pulses and ECG activity
- Healthy and abnormal heart sounds
- Virtual pacing and defibrillation
- Visible central cyanosis with programmable intensity
- Fontanelle, brachial, and umbilical pulses
- Measure BP using real BP cuff
- Audible Korotkoff sounds
- Virtual pre-and post-ductal SPO_2
- Supports IV cannulation: hand, umbilical catheterization (UVC/UAC), lower left leg
- IO access and infusion at right tibia

Other

- Interchangeable female and male genitalia
- Urinary catheterization
- Selectable bowel sounds
- Post-cord detachment navel
- Seizures/Convulsions
- Temperature sensor detection

Package Contents

- Newborn TORY®
- Microsoft® Surface Tablet PC
- UNI® Control software license
- Neonatal SLE™ scenario package
- Battery charger/power supply, accessories
- User manual
- Carrying case
- One-Year Limited Warranty

Premie HAL® S2209 features

- Gestational age: 30-week preterm neonate
- Weight: 2.9 lb. (1.32 kg)
- Length: 15.71 inches (39.9 cm)
- Smooth and supple full-body skin
- Tetherless and wireless; fully responsive during transport
- Internal rechargeable battery

Airway

- Lifelike and anatomically accurate oral cavity and airway
- Supports NG and OG tube placement
- Intubatable airway
- Upper airway sounds

Breathing

- Automatic, spontaneous breathing
- Programmable respiratory rates, patterns, and I:E ratios
- Normal and abnormal lung sounds
- Compliant lungs
- Visible chest rise with PPV
- Real-time PPV feedback via UNI® control interface
- Programmable unilateral chest rise simulates pneumothorax

Circulation

- Central cyanosis with variable discoloration
- Includes comprehensive library of ECG rhythms with customizable beat variations
- Supports ECG monitoring using real devices
- Normal and abnormal heart sounds with adjustable rates
- eCPR™ Real-time CPR feedback
- Spontaneous pulses: fontanelle, brachial, umbilicus, femoral
- Pulse strength is blood pressure-dependent
- Supports IV cannulation: hand, umbilical catheterization (UVC/UAC), dorsum of foot
- Intraosseous access at right tibia
- Supports continuous infusion
- Temperature sensor detection

Package Contents

- Premie HAL® S2209
- Microsoft® Surface Tablet PC
- UNI® Control software license
- Premie SLE™ scenario package
- Battery charger and power supply
- Replacement IV lower arms, IO inserts, umbilical cords
- User manual
- Carrying case
- One-Year Limited Warranty

NOELLE® with Newborn TORY® Package

S575.100.PK

NOELLE® patient simulator package, Newborn TORY® S2210 patient simulator package, and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

NOELLE® with Premie HAL® S2209 Package

S576.100.PK

NOELLE® patient simulator package, Premie HAL® S2209 patient simulator package, and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

NOELLE®

S574.100.PK

NOELLE® patient simulator package and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

Virtual Drug Recognition

S574.100.400R

Identifies drug type and volume injected into veins on the right hand and forearm. Supplied with 20 syringes with wireless tags. Use drugs from the library or choose to model other drugs using the software template.

Care in Motion™ MOBILE

CIM.PK

Mobile Video-Assisted Debriefing system. Package includes: 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. Patented; other patents pending.

NOELLE® S554.100

Childbirth And Neonatal Resuscitation Patient Simulator

A comprehensive obstetric care and neonatal resuscitation simulation solution.

The NOELLE® with Newborn Package is a value-packed, turnkey solution designed to help students and staff develop the skills to manage antepartum complications, routine and high-risk deliveries, and postpartum emergency scenarios as well as neonatal resuscitation and stabilization.

Shoulder dystocia

Lifelike shoulder dystocia presents head retraction "turtle signs."

Breech delivery

Practice vaginal breech deliveries and free the legs using Pinard maneuver.

Assisted delivery

Practice assisted vacuum extraction and forceps deliveries.

Resuscitation neonate

Full-term intubatable newborn with pulses and cyanosis.

GAUMARD Vitals™ patient monitor

Communicates wirelessly with the laptop. Displays up to 8 values including HR, ABP, RR, CO_2, SpO_2, temperature, NIBP, and time.

NOELLE® and newborn eCPR™

Monitor and assess CPR quality in real-time. Export CPR training reports to complement CPR certification or to determine if additional training is required.

Includes new Labor & Delivery Simulation Learning Experiences™ scenario package.

The new NOELLE® Labor & Delivery Simulation Learning Experiences (SLEs) provide 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 nine SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

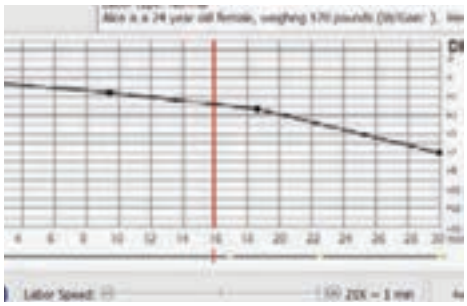
- Amniotic Fluid Embolism
- Breech Vaginal Delivery
- Magnesium Toxicity
- Normal Vaginal Delivery
- Placental Abruption
- Postpartum Hemorrhage
- Preeclampsia
- Prolapsed Cord
- Shoulder Dystocia

Virtual perinatal monitor

Easy instructor access to the dynamic perinatal monitor right from the tablet PC.

Precise scenario repeatability

Simulate repeatable deliveries for competency-based training. Track skill improvement in critical situations.

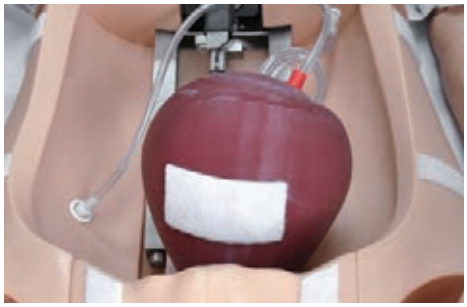


Customizable labor

Control labor variables such as labor duration, delivery position, contraction response, and much more.

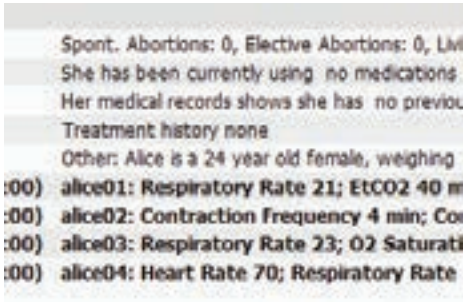
Placenta

Simulate cord and placenta complications and distress. Placenta features detachable fragments.



Postpartum activity

Program PPH, perform a fundal massage, practice episiotomy repair, and insert and inflate a balloon tamponade device.



Real-time feedback

Changes in condition and care provided are time-stamped and logged.

NOELLE® features

- Full-size NOELLE® maternal and neonatal birthing simulator with eclampsia and hemorrhage capabilities
- Small footprint and mobile platform allows training on L&D and Postpartum units
- Build team and technical competencies
- Preprogrammed speech
- eCPR™ Real-time feedback
- Maternal vital signs monitor
- Fetal heart tones and neonatal vital signs monitor
- 9 Labor and Delivery SLEs scenarios
- Facilitator's Guidebook
- Set up and run OB simulations for normal labor and birth, variations on normal, shoulder dystocia, breech presentation, preeclampsia, cord prolapse, uterine rupture, peripartum hemorrhage, anaphylactoid syndrome of pregnancy, and preterm labor and birth
- Intubatable airway with chest rise
- IV arms for meds/fluids
- Removable stomach cover
- Programmable eclampsia w/seizures
- Precision delivery system
- Force and fetal shoulder position measured and graphed in real-time
- Programmable postpartum hemorrhage
- Birthing fetus with placentas and umbilical cords
- Bilateral radial pulses

Resuscitation neonate

- Full-term intubatable newborn with cyanosis and pulses
- Chest compressions/ventilations are measured and logged
- Realistic heart and lung sounds
- Realistic crying

UNI® laptop

- Preloaded with UNI® simulator control software
- Use preprogrammed scenarios or run "on-the-fly"
- Create your own scenarios - add/edit
- eCPR Real-time feedback
- Changes in condition and care provided are time-stamped and logged
- Generate and share diagnostic lab results
- File sharing through Vital Signs Monitor

GAUMARD VITALS™ virtual patient monitor

- Touchscreen All-in-One PC preloaded with GAUMARD Vitals™
- Display up to 8 vital parameters including HR, ABP, RR, CO_2, SpO_2, temperature, NIBP, and time
- Select up to 5 dynamic waveforms including ECG II, ABP, respiration, CO_2, and pulse oximetry
- Monitors maternal and neonatal vital signs
- Perinatal monitor with programmable uterine activity and fetal heart rate

NOELLE® S554.100

S554.100.PK

NOELLE® S554.100 patient simulator, UNI® laptop, resuscitation neonate, GAUMARD Vitals™ patient monitor, and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

NOELLE® MOES™

S555.100.PK

NOELLE® S554.100 simulator package. MOES™ courseware scenario handbook. Quickstart video library: Scenario introduction and setup. MOES™ preprogrammed scenarios for UNI®. Micro+ Recording and Debriefing System. Patented; other patents pending.

Care in Motion™ MOBILE

CIM.PK

Mobile Video-Assisted Debriefing system. Package includes: 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. Patented; other patents pending.

NOELLE® S550.100.250

Childbirth and Neonatal Resuscitation Simulator

Complete, ready-to-use, and an exceptional value.

The NOELLE® S550.100.250 package is a complete training package designed to make setup, implementation, and operation simple and easy. It includes everything you need to train, including a NOELLE® automatic birthing simulator, a resuscitation neonate, two OMNI® 2 control tablets, a virtual patient monitor, and a training guidebook.

Improving maternal safety through simulation-based training.

NOELLE® offers you an effective training solution for preparing students and professionals for the routine and emergency labor and delivery scenarios seen in the real world. By facilitating the rehearsal of true-to-life scenarios in a safe environment, NOELLE® allows participants to improve skills in assessment, management, and teamwork.

OMNI® 2 wireless tablet
Touchscreen controls, feedback, and debriefing.

Automatic delivery
Repeatable birthing scenarios with 1-touch operation.

GAUMARD Vitals™ monitor
Assessment, management, and documentation.

Neonatal resuscitation
Evaluate CPR quality in real-time.

Immersive childbirth simulation

NOELLE® allows multidisciplinary teams to rehearse low-frequency, high-risk vaginal deliveries to improve technical skills, communication, and confidence.

Automatic delivery

NOELLE's automatic delivery system makes it easy to run realistic and repeatable delivery scenarios to support competency-based training. With OMNI® 2, you can play, pause, and reset the delivery with just one touch.

- Automatic retraction of the fetal head during shoulder dystocia
- Obstetrical maneuvers: Suprapubic pressure, McRoberts, Zavanelli, and more
- Automatically simulates fetal distress visible on a fetal monitor

Includes new Labor & Delivery Simulation Learning Experiences™ scenario package.

The new NOELLE® Labor & Delivery Simulation Learning Experiences (SLEs) provide 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 nine SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

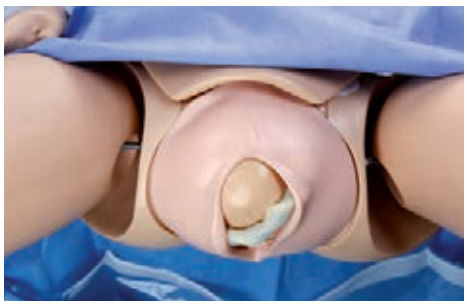
- Amniotic Fluid Embolism
- Breech Vaginal Delivery
- Magnesium Toxicity
- Normal Vaginal Delivery
- Placental Abruption
- Postpartum Hemorrhage
- Preeclampsia
- Prolapsed Cord
- Shoulder Dystocia

Delivery mechanism
Repeatable fetal presentation and rotation.

Fetal monitoring
Virtual CTG (TOCO) with dynamic FHR/UA tracing.

Placenta and cord
Simulate placenta previa or retained fragments.

Instrument assisted
Supports real vacuum devices and forceps.



Cord management
Resolve nuchal cord, cord prolapse, and true knots.

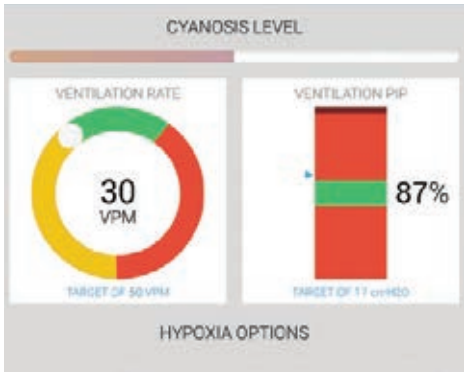
Breech delivery
Simulate frank, complete, footling breech, and more.

Neonatal resuscitation training with PEDI® Blue S320.100.250.

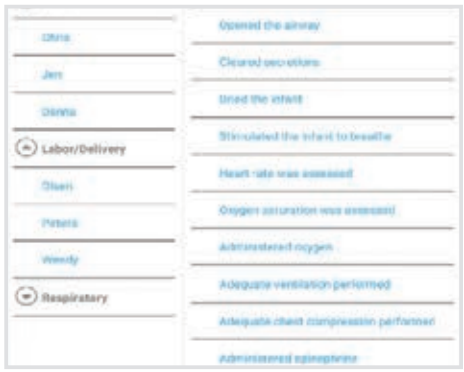
NOELLE® includes a standalone full-term neonate designed to help providers train airway management and resuscitation skills effectively.

- Oral or nasal intubation
- Realistic chest rise with BVM ventilation
- Real-time CPR monitoring
- Effective ventilation returns visible cyanosis to healthy skin color
- Umbilical arterial/venous access and palpable pulse
- Available with IV sites for meds administration

Airway management
Supports nasal/oral intubation and fluid suctioning.



Respiratory distress model
Simulate respiratory distress and automate physiologic responses.



Algorithm checklist
Track algorithm objectives for effective debriefing.

Postpartum emergencies

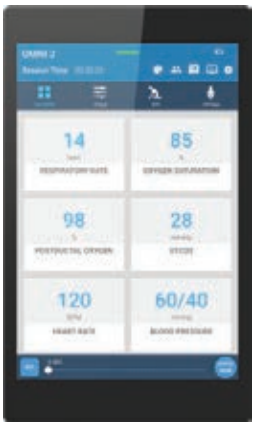
Use a hands-on approach when training how to identify and manage PPH.

- Fundal massage prep and technique
- Adjustable uterine muscle tone
- Blood loss estimation: Refillable 1000ml blood reservoir.
- Intrauterine balloon placement

Intrauterine balloon
Supports placement of intrauterine balloon.

External blood reservoir
Easy refilling and post-exercise cleaning.

Episiotomy repair
Train episiotomy repair using real instruments.



OMNI® 2 wireless control interface included.

The new OMNI® 2 is an easy-to-use, wireless interface designed to place the best tools to drive simulation-based exercises right in the palm of your hand.

- Intuitive touchscreen interface with built-in wireless connectivity
- Make changes on-the-fly or trend them over time
- Event Log records participant actions, vital signs changes, and input notes to support debriefing

Interactive GAUMARD Vitals™ patient and fetal monitor.

The GAUMARD Vitals maternal and fetal monitor displays vital signs information in real-time. Train participants to interpret vital signs to identify and manage critical situations.

NOELLE® S550.100.S250 package features

- Full-body NOELLE® patient simulator
- OMNI® 2 tablet
- Wireless OMNI® 2 connectivity
- Nasal/oral intubation
- Visible chest rise with bag valve mask ventilation
- Supports multiple birthing positions
- Realistic birth canal featuring dilating cervix and palpable pelvic landmarks
- Automatic birthing system: cardinal movements, vertex, breech, dystocia, instrument assisted
- Articulating birthing baby with palpable sutures and fontanelle
- eCPR™ real-time feedback - Ventilation and chest compressions are measured and logged
- IV training arm for bolus/ infusion training
- Carotid, brachial, and radial pulse (squeeze bulb)
- Leopold maneuvers
- Programmable fetal heart rate
- Placenta with removable fragments and umbilical cord
- Postpartum uterus with patent cervix and adjustable uterine tone (squeeze bulb)
- Postpartum hemorrhage with 1-liter reservoir
- Two vulvae for postpartum suture trainers
- Labor and Delivery Simulation Learning Experience™ Facilitator's Guide

PEDI® Blue Newborn

- Full-term neonate with articulated joints
- Wireless OMNI® 2 connectivity
- OMNI® 2 tablet
- Nasal/oral intubation
- Nasogastric intubation
- Programmable central and peripheral cyanosis
- eCPR™ Real-time feedback - Ventilation and chest compressions are measured and logged
- Visible chest rise with bag valve mask ventilation
- IV training arm, intraosseous infusion, palpable pulses (squeeze bulb)
- Catheterizable umbilical cord with palpable pulse

OMNI® 2 controller

- Program over 35 vital sign parameters including HR, ECG, RR, BP, O_2sat, $EtCO_2$, pulses, and more
- Virtual patient monitor wireless link
- Comprehensive ECG library
- eCPR™ - CPR real-time effectiveness monitoring and smart trainer
- Automatic delivery controls: pause, resume, descent speed, reset
- Shoulder dystocia controls
- Fetal monitor controls
- Fetal heart rate baseline, variability, and accel/decel
- Contraction frequency, duration, intensity, and resting tone
- Coupling, variability, spontaneous changes
- Neonatal respiratory distress modeling

GAUMARD Vitals™

- Touchscreen interface
- Customizable layout can mimic standard patient monitors
- Customizable high/low alarms
- Displays numerical parameters and waveforms including HR, ECG, RR, BP, O_2sat, $EtCO_2$
- FHR and TOCO strip
- EFM and FSE heart tones
- Trace history and print capability

NOELLE® S550.100.250 and PEDI® Blue Newborn Package

S550.100.250.PK

NOELLE® patient simulator with OMNI® 2, PEDI® Blue Newborn S320.100.250 package, Labor and Delivery Simulation Learning Experiences™ scenario package, GAUMARD Vitals™ patient monitor, and One-Year Limited Warranty. Skin tones available at no extra charge. Patented; other patents pending.

NOELLE® S550.250 and Neonate Trainer Package

S550.250.PK

NOELLE® patient simulator with OMNI® 2, neonate airway trainer, Labor and Delivery Simulation Learning Experiences™ scenario package, and One-Year Limited Warranty. Skin tones available at no extra charge. Patented; other patents pending.

NOELLE® S551.250 Package

S551.250.PK

NOELLE® patient simulator with OMNI® 2, Labor and Delivery Simulation Learning Experiences™ scenario package, and One-Year Limited Warranty. Skin tones available at no extra charge. Patented; other patents pending.

Palpation abdomen

S550.250.009.R2

Lifelike abdomen featuring neonate inside an amniotic sac for training Leopold and version exercises.

C-section abdomen

S550.250.007.R2

Abdomen featuring soft skin insert for training cesarean deliveries using real surgical instruments.

GAUMARD Vitals™ Bedside Monitor

S550.250.001.R2

Customizable patient monitor displays patient vital signs and fetal monitoring in real-time.

NOELLE® S550.100 with PEDI® Blue Newborn Package

The NOELLE® S550.100 Maternal and Neonatal Birthing Simulator's comprehensive teaching system combines the best of our patient care simulators in Advanced Childbirth simulation. It is designed to provide a complete birthing simulation experience before, during, and after delivery.

NOELLE® S550.100 features

- Full-size articulating female
- Intubatable airway with chest rise
- OMNI® eCPR™ Real-time CPR feedback
- IV arm for meds/fluids
- Removable stomach cover
- Practice Leopold Maneuvers
- Multiple fetal heart sounds
- Automatic birthing system
- Measure head descent and cervical dilation
- Multiple placenta locations
- Replaceable dilating cervices
- Practice postpartum suturing on vulval inserts
- One articulating birthing baby with placenta
- New postpartum hemorrhage and palpation module

NOELLE® S550.100 package contents

- NOELLE® Full-body maternal birthing simulator
- Automatic birthing system
- Articulating birthing fetus
- PEDI® Blue Neonate S320.100
- (1) Maternal and (1) Neonate OMNI® Controller
- OMNI® Code Blue® pack: CPR Link software, CPR Link connection cable
- Placenta, umbilical cords, dilating cervices
- Vulvae for postpartum suturing
- International power supply 100-240 VAC
- Lubricant
- Carrying bags
- User guide

Automatic fetal descent and rotation

Simulate postpartum hemorrhaging and train fundal massage

Practice airway management and CPR with real-time feedback

Monitor CPR feedback in real-time with OMNI® Code Blue® pack

Simulate postpartum hemorrhaging and train fundal massage

Placenta features detachable fragments

NOELLE® S550.100 and PEDI® Blue Newborn Package

S550.100.PK

NOELLE® patient simulator with OMNI®, PEDI® Blue Newborn S320.100 package, and One Year Limited Warranty. Skin tones available at no extra charge. Patented; other patents pending.

NOELLE® S550 and Neonate Trainer Package

S550.PK

NOELLE® patient simulator with OMNI®, resuscitation neonate, and One-Year Limited Warranty. Skin tones available at no extra charge. Patented; other patents pending.

NOELLE® S551

S551.PK

NOELLE® patient simulator with OMNI® and One-Year Limited Warranty. Skin tones available at no extra charge. Patented; other patents pending.

NOELLE® S550 Series birth canal

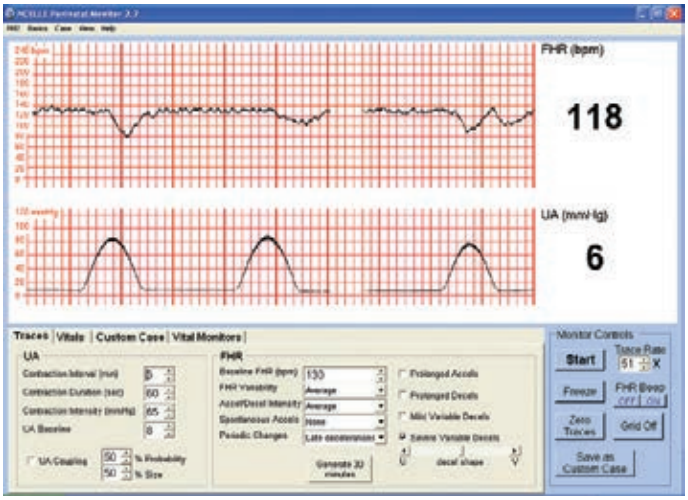
S550.100.971
S550.971
S551.971

One lifelike birth canal. One adapter sleeve

NOELLE® S550 Series dilating cervices pack

S550.100.935

Replacement cervix. Set of two.



NOELLE® Perinatal Monitor

Teaches the basics of fetal monitoring and contains the monitoring traces for all nine NOELLE® scenarios. Start delivery using the NOELLE® system and display NOELLE's condition on a large screen for your entire student team. Change birthing conditions as needed. The NOELLE® Perinatal Monitors are supplied as a CD-ROM.

Features

- FHTs and maternal vital signs for the nine NOELLE® scenarios
- Create any FHTs your teaching curriculum requires with the Custom Editor

NOELLE® Perinatal Monitor

CD500
CD-ROM

CD501
With scenario builder

NOELLE® Birthing Torso with OMNI® 2

The new NOELLE® S552.250 is perfect for the high-volume exercises designed to help learners improve psychomotor skills and confidence.

Features

- Full-size upper and lower torso
- Automatic birthing system that rotates baby as it moves through the birth canal
- Manage vertex, breech, dystocia, and instrument-assisted deliveries
- Removable abdominal cover
- Soft and flexible cervix and birth canal
- One articulating birthing baby with umbilical cord and placenta
- Practice postpartum suturing on vulval inserts
- Practice Leopold Maneuvers
- OMNI® 2 Virtual Patient Monitor Support

NOELLE® S552.250 Birthing Torso with OMNI® 2

S552.250.PK

NOELLE® S552.250 automatic childbirth skills trainer, OMNI® 2 controller, two umbilical cords, one clamp, two dilating cervices, two vulval inserts, three vulvae for postpartum suturing, lubricant, user guide, and carrying bag. Skin tones available at no extra charge. Patents 6,503,087 and 7,114,954; other patents pending.

GAUMARD Vitals™ Bedside Virtual Monitor

S552.250.001.R2

Customizable patient monitor displays patient vital signs and fetal monitoring in real-time.

Play, pause, and reset the delivery with just 1 touch

Repeatable fetal presentation, rotation, and descent

Practice shoulder dystocia delivery techniques

Simulate cord prolapse, nuchal cord, placenta previa, and more

NOELLE® Maternal Birthing Torso

A space-saving simulator for those programs dedicated to the management of complications in pregnancy and childbirth.

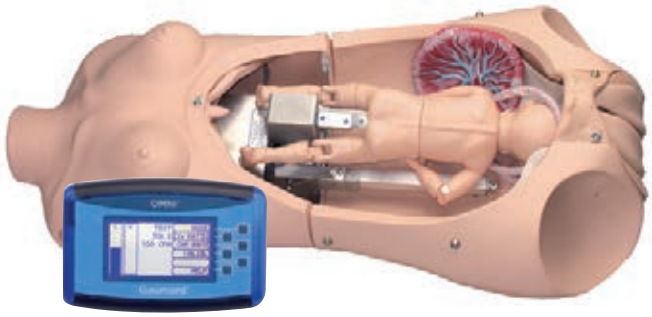
Features

- Full-size upper and lower torso
- Automatic birthing system that rotates baby as it moves through the birth canal
- Manage vertex, breech, dystocia, and instrument-assisted deliveries
- Removable abdominal cover
- One articulating birthing baby with umbilical cord and placenta
- Measure head descent and cervical dilation
- Multiple placenta positions
- Replaceable dilating cervices
- Practice postpartum suturing on vulval inserts
- Practice Leopold Maneuvers

NOELLE® S552 with OMNI®

S552.PK

NOELLE® S552 childbirth skills trainer, OMNI® controller, two umbilical cords and clamp, two dilating cervices, two vulval inserts, episiotomy training inserts, lubricant, user guide, and carrying bag. Skin tones available at no extra charge. Patents 6,503,087 and 7,114,954; other patents pending.



Neonate features realistic joint articulation

Soft cushion enables fetal baby to be placed into position for practice of Leopold Maneuvers

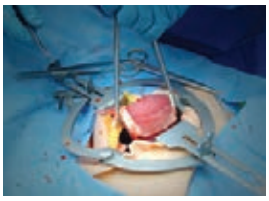
Practice Leopold maneuvers and listen to fetal heart sounds

SURGICAL CHLOE™ S2101

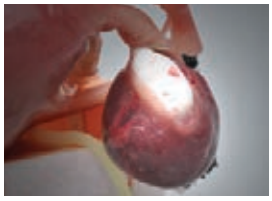
Full-Body Surgical Simulator

- Address surgical competencies
- Use real surgical instruments
- Perform laparotomy, laparoscopy, and vaginal procedures
- Wireless and tetherless; fully responsive in transit
- Includes scenarios created and tested in an academic OB/GYN environment

Hysterectomy



Removal of endometrioma



Ruptured ectopic pregnancy

Removal of dermoid cyst

Incision and dissection

Address ACGME skills

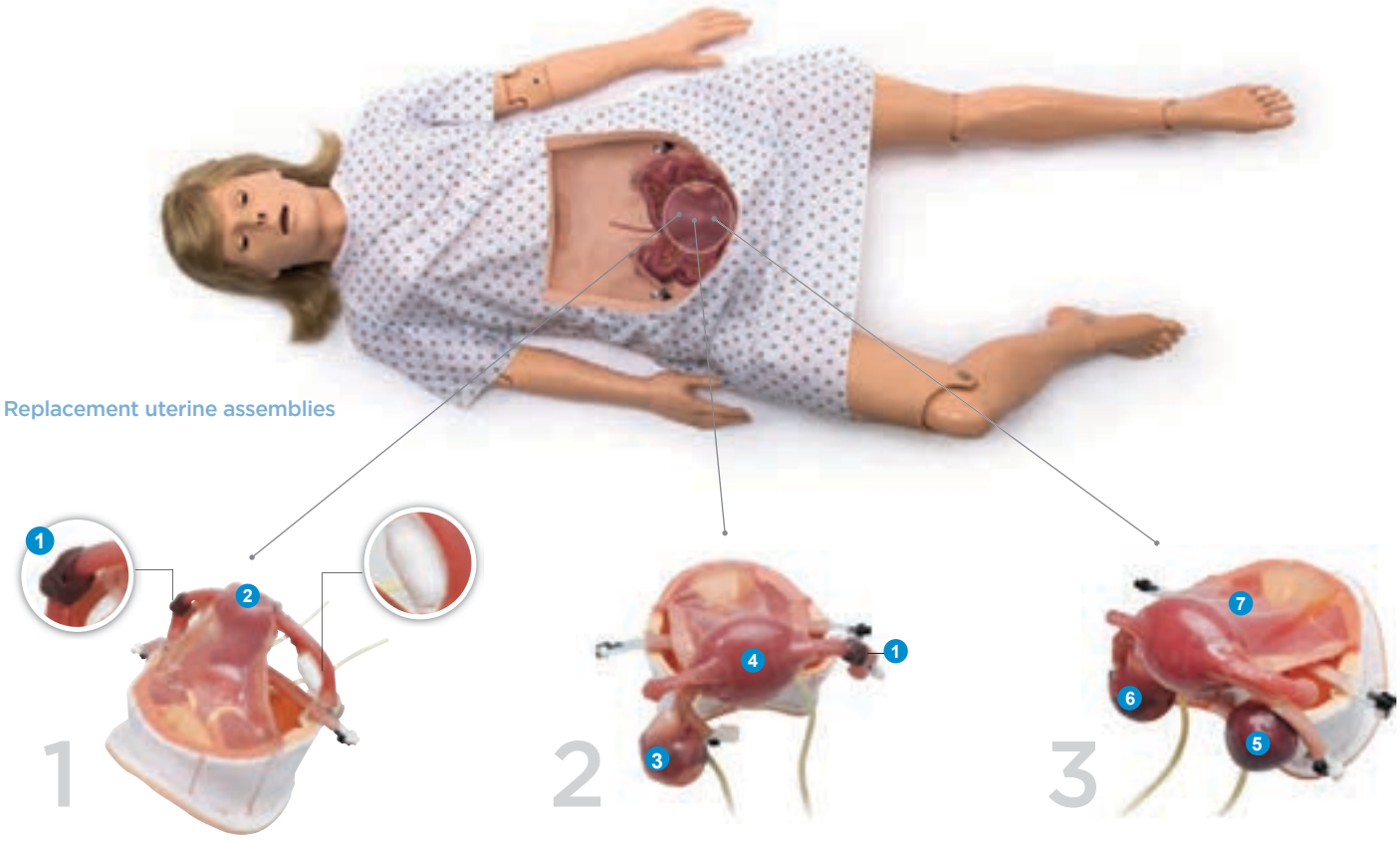
Simulator can be used to address competencies in six areas, including patient care, medical knowledge, practice-based knowledge and improvement, systems-based practice, communication, and professionalism.

Surgical scenarios

- Ruptured ectopic
- Pelvic mass
- Septic abortion
- Bleeding disorder
- Post-op hemorrhage
- Patient safety (fire)
- Malignant hyperthermia
- Cardiac arrest
- Anaphylaxis
- Hypoxia
- Basic OR patient

Use real surgical instruments

With its lifelike abdominal inserts and uterine assemblies, procedures can be performed using real surgical instruments in a real surgical OR.



Normal uterus with ectopic pregnancy and uterus hemorrhaging

Enlarged uterus with dermoid cyst and ectopic pregnancy

Enlarged fibroid uterus with endometrioma and simple cyst

Unique pathologies

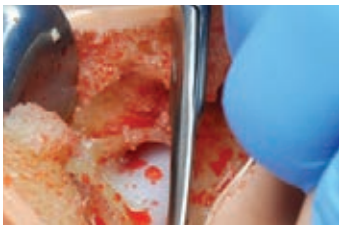
1. Ectopic pregnancy
2. Normal-size uterus with hemorrhaging
3. Dermoid cyst
4. Enlarged uterus
5. Endometrioma
6. Simple cyst
7. Enlarged uterus with embedded fibroids

Common features

- Veins and arteries including uterine and ovarian
- Bladder
- Ovaries
- Fallopian tubes
- Peritoneum
- Ureters
- Perineum with integrated vagina
- Ligaments including round, uterosacral, infundibulopelvic, and cardinal

Comprehensive training

Scenarios can cover an entire procedure, from patient presentation to assessment, surgical management, and the recovery room.



Bleeds when cut

Abdominal inserts and uterine assemblies incorporate simulated blood to allow realistic practice of hemostatic technique.

Laparotomy, laparoscopy & vaginal procedures

Chloe allows caregivers to perform surgical interventions using all three procedures.

Replaceable uterine assemblies

Each assembly exhibits different complications and allows surgical teams to carry out a variety of procedures.

Assess individual & team competencies

Team-building scenarios can be performed for the development of gynecologic surgical skills and patient safety.

Bowel insert

For abdominal and laparoscopic procedures, the simulated bowel can be moved aside to provide access to the underlying uterine assembly.

Cut and suture like real tissue

Multi-layer design representing the skin, subcutaneous, fascia, muscle, and peritoneum for maximum realism.

CPR + circulation

Monitor compression and ventilation performance in real-time.

Tablet PC with UNI® software

Control the simulator wirelessly. Sensors track the actions of up to 6 participants. Changes in condition are time-stamped and logged.

Speech and streaming voice

Be the voice of Chloe™ and hear caregiver responses. Create and store vocal responses or select from a pre-recorded vocal menu.

Surgical and general patient safety scenarios

Train and assess teams in managing complications such as hemorrhage, malignant hyperthermia, and patient safety

All-in-one with virtual monitor software

Customize the display, alarms, and configurations of the virtual vital signs monitor to mimic the real monitors in your facility.

General
- Full-body, adult patient simulator
- Built-in wireless connectivity with tablet PC
- Powered by an internal rechargeable battery or wall outlet
- Up to (4) hours of tetherless operation on internal, rechargeable battery power

Neural responses
- Eyes open and close manually
- Wireless streaming audio & prerecorded responses

Airway
- Multiple upper airway sounds synchronized with breathing
- Head tilt/ chin lift
- Anatomically accurate airway
- Intubatable airway

Breathing
- Spontaneous breathing and chest rise generated by internal compressor
- Bilateral chest rise and fall
- Programmable rate and depth of respiration
- Variable respiratory rates and inspiratory-expiratory ratios
- Normal and abnormal independent lung sounds synchronized with respiratory pattern and rate
- Ventilations are detected, measured, and logged

Cardiac
- Monitor ECG with real equipment from 4 conductive skin regions
- Normal and abnormal heart sounds may be auscultated and are synchronized with ECG
- Compressions are automatically detected, measured, and logged

Circulation
- Measure blood pressure using real BP
- Korotkoff sounds audible between systolic and diastolic pressures
- Bilateral carotid, brachial, and radial pulses
- Oxygen saturation detected using real monitors
- Bilateral IV arms with fill/drain sites
- SubQ and IM injection sites
- Venous and arterial bleeding, including ovarian and uterine arteries and veins
- During application of scenarios, vital signs reflect physiologic changes that occur with hemorrhage

Surgical
- Laparoscopy abdominal wall includes eight (8) access ports on the left (3), right (3), and midline (2)
- Place laparoscopic trocars
- Laparotomy abdominal wall multi-layer insert design replicates the skin, subcutaneous fat, fascia, muscle, and peritoneum
- Use real instruments for incision, dissection, and suturing
- Can be used at least four (4) times
- Perform Pfannenstiel or vertical incision

Uterine assemblies
- Uterine assembly 1 - Normal-sized uterus with ectopic pregnancy and uterine hemorrhage. Simulates ruptured ectopic pregnancy with bleeding and severe vaginal bleeding from uterus.
- Uterine assembly 2 - Enlarged uterus with dermoid cyst and ectopic pregnancy. Simulates ruptured ectopic pregnancy with bleeding and realistic dermoid cyst.
- Uterine assembly 3 - Enlarged uterus with embedded fibroids. Simulates embedded and bleeding fibroids, simple cyst, and endometrioma.
- Procedures supported on all uterine assemblies include unilateral oophorectomy, conization of the cervix, chromopertubation, hysteroscopy.
- All uterine assemblies include ovarian and uterine veins and arteries, bladder, ovaries, fallopian tubes, peritoneum, ureters, perineum with integrated vagina, ligaments including round, uterosacral, infundibulopelvic, and cardinal.

Scenario workbook by Martin E. Olsen, MD
- Ruptured ectopic pregnancy
- Pelvic mass in pregnancy
- Septic abortion
- Bleeding disorder - Von Willebrand's disease
- Postoperative hemorrhage after conization of the cervix
- Fire in the OR
- Malignant hyperthermia during surgery
- Cardiac arrest in the OR
- Anaphylaxis in the OR
- Hypoxia in the OR

UNI® control PC
- Use preprogrammed scenarios or run "on the fly"
- Changes in condition and care provided are time-stamped and logged
- Track actions of up to 6 care providers
- Generate and share diagnostic lab results
- Create your own scenarios - add/edit
- Change simulator's condition during the scenario

GAUMARD Virtual™ patient monitor
- Interactive virtual patient monitor displays vital signs in real-time
- Display up to 10 numeric parameters
- Display up to 6 dynamic waveforms
- Customizable layout mimics real patient monitors
- Program custom threshold alarms
- Share images such as ultrasounds, CT Scans, lab results, etc.

Surgical CHLOE™

S2101.PK

Surgical Chloe™ Surgical Patient Simulator, UNI® Tablet PC, UNI® license, scenario courseware, GAUMARD Vitals™ patient monitor, RF Communications Module, Battery charger, (4) abdominal wall inserts, (12) uterine assemblies, (4) of each type, workbook by Martin E. Olsen, MD, soft transport case, and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

Abdominal wall insert

S2101.140

Bowel overlay

S2101.141

Laparoscopy abdomen

S2101.142

Laparotomy abdomen

S2101.142.1

Uterine assembly 1

S2101.143

Uterine assembly 2

S2101.144

Uterine assembly 3

S2101.145

SUPER TORY® S2220

Wireless and Tetherless Neonate Simulator

- Programmable mouth, eyes and limb movement
- Dynamic lung compliance with true ventilator support
- Real patient monitor support: pre- and postductal SpO_2, EKG, capnography, NIBP, live pacing and defibrillation
- Infusion and sampling: scalp, hand, umbilicus (UVC/UAC), and IO access
- Wireless and tetherless; up to 8 hrs. battery life

Active limb motion, true ventilator support, real monitoring, and mobile.

These are just a few of the innovative new features which allow SUPER TORY® to simulate complex pathologies and respond to interventions with unparalleled realism.

- Full-term newborn: 8 lbs. 21 in.
- Wireless and tetherless: up to 8 hours
- Crying and grunting
- Programmable movement
  - » Blinking rate, eyes opened/closed
  - » Mouth: gasping and clenching
  - » Arm, leg, and wrist flexion and extension
  - » Seizures: single limb, unilateral, or full-body movement
- Dynamic lung compliance
- Heart and lung sounds and palpable pulses
- Includes 10 Simulation Learning Experiences™ scenarios

UNI® Interface powered by Microsoft® Surface

Cyanosis, jaundice, pink, and pallor

Pulses: fontanel, brachial, umbilical, and femoral

Neonatal resuscitation and stabilization

Real mechanical ventilator and patient monitor support

Internal and external critical care transport

True-to-life neonatal resuscitation and stabilization scenarios.

SUPER TORY® introduces a new level of anatomical and physiological fidelity that allows participants to rehearse advanced-level algorithms without compromising technique or clinical guidelines.

- Anatomically accurate oral cavity and airway
- Intubation depth and neck hyperextension/flexion detection
- Visible chest rise following guideline-recommended flow, PIP, and PEEP values
- SpO_2 and $EtCO_2$ monitoring using real sensors
- eCPR™ Real-time quality feedback and reporting
  - » Compression depth, rate, and interruption duration
  - » Ventilation rate and duration
  - » Smart CPR voice coach
  - » Performance report summary
- Defibrillate, cardiovert, and pace using real devices and energy
- Multiple vascular access sites

Anatomically accurate airway

Hand and scalp IV, tibial IO

Continuous UAC/UVC infusion

Pre- and post-ductal SpO2

Train handoffs and transport in real environments.

Transport, handoffs, NICU evac drills, and more. SUPER TORY® remains fully functional in transit thanks to its extra-long battery life and proven wireless technology.

- Wireless and tetherless control
- Internal rechargeable battery provides up to 8 hrs. of tetherless operation

A leap in NICU simulation. True ventilator support. And much more.

The breakthrough respiratory system design in SUPER TORY® accurately responds to mechanical ventilation support like a real newborn, while making it possible to adjust pulmonary function on the fly. Simply tap the UNI® controls to decrease lung compliance and see the change from uniform chest rise, visible with as little as 15 cmH_2O, to the high recoil associated with stiff lungs. These advanced features allow SUPER TORY® to simulate the course of respiratory disease through treatment, weaning, and rehabilitation with the highest degree of physiological accuracy.

- Modes supported include: ACV, SIMV, CPAP, PCV, PSV, NIPPV
- Programmable respiratory patterns, retractions, "see-saw" breathing, and abdominal distension
- Supports therapeutic levels of PEEP
- Programmable airway and lung function
- Dynamic lung compliance
  - » Bilateral bronchi resistance
  - » Respiratory effort triggers ventilator during weaning

Sunken, bulging, and normal

Capillary refill time testing

Programmable retractions, "see-saw" breathing

Bilateral pneumothorax sites

SUPER TORY® features bilateral, midaxillary surgical sites for needle decompression and chest tube insertion exercises.

- Palpable bony landmarks
- Realistic skin supports cutting and suturing
- Sites bleed when cut and release fluid upon tube insertion
- Tactile pleural "pop"

Train using real patient monitors and sensors.

SUPER TORY® was developed for in-situ training. Real patient monitoring support allows participants to set up and operate real equipment, interpret real-time data, and follow protocols just as they would in real situations.

- ECG monitoring
- ECG-derived respiration monitoring
- Pre- and post-ductal SpO_2 monitoring
- Oscillometric NIBP
- Live pacing and defibrillation
- Capnography

UNI® offers all the tools to deliver a rich simulation experience in one intuitive interface.

UNI® features precise physiological touch-based controls, task automation, real-time feedback, and automatic data capture tools designed to operate seamlessly during even the most complex scenarios.

Includes SUPER TORY® Simulation Learning Experiences™.

The new SUPER TORY® 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 10 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
- Diaphragmatic Hernia
- Drug-Exposed Infant/ Neonatal Abstinence Syndrome
- Early-Onset Sepsis
- Hyperbilirubinemia
- Late-Onset Sepsis
- Nuchal Cord
- Pneumonia
- Shoulder Dystocia

Preconfigured and ready
The SUPER TORY® package includes a powerful tablet PC preconfigured with the intuitive UNI® simulator control interface.

Optimized for on-the-fly controls
The UNI® touchscreen interface lets you quickly and easily adjust vital sign parameters with just a few taps.

3D patient visualization monitor
This real-time 3D view of the patient ensures you never lose track of provider/patient interaction during the simulation.

Automatic operating mode
UNI's engine calculates physiologic responses to caregiver or operator actions, pharmacologic intervention, and cardiopulmonary events, thereby increasing fidelity and reducing input from the operator.

Scenario designer
Create your own scenarios quickly and easily and share them with other UNI® users.

eCPR™
Monitor rate and compression depth, no-flow time, ventilation rate, and excessive ventilation the smart trainer features vocal cues and outputs performance report.

Lab report designer
Generate and share simulated diagnostic lab results to enhance case fidelity and participant involvement

Questionnaire form designer
Manage progress by easily creating interactive checklists to track participant objectives and post-simulation feedback.

Time-stamped event recording and reporting
The automated event tracking and interaction recorder ensures important events are always captured so you can focus on the action.

Provider actions tracker
The interactive "Provider Actions" panel lets you carefully track team and individual provider actions to generate a comprehensive post-simulation log.

UNI® control view replay
The built-in recorder captures UNI's screen as data to allow your team to review the simulation from the operator's chair.

No annual software license fee
GAUMARD® is committed to providing the best value and keeping your program's operating costs down year after year.

Free software updates
Always stay up to date and take advantage of all the newest features at no additional cost.

Free webinar training and technical support
Sign up for our monthly webinar sessions and become a UNI® expert.

General
- Age: Full-term newborn
- Weight: 8 lbs., Length: 21 in.
- Tetherless and wireless; fully responsive during transport
- Internal rechargeable battery provides up to 8 hrs. of tetherless operation
- Smooth and supple full-body skin with seamless trunk and limb joints
- Programmable movements: blinking, mouth opening and closing, arm and leg flexion and extension
- Realistic joint articulation: neck, shoulder, elbow, hip, and knee
- Forearm pronation and supination
- Lifelike umbilicus and post cord detachment navel
- Palpable bony landmarks
- Near-silent operation
- NOELLE® Fetus-Newborn wireless link capability
- Tablet PC preloaded with UNI® included
- Mouth movement
- Blinking eyes
- Seizures/convulsions
- Programmable muscle tone: active, reduced, and limp

Airway
- Anatomically accurate oral cavity and airway
- Nasotracheal/orotracheal intubation (ETT, laryngeal airway)
- Head tilt, chin lift, jaw thrust
- Supports esophageal intubation
- NG/OG tube placement
- Bag-valve-mask ventilation support
- Neck hyperextension and flexion airway obstruction with event capture and logging
- Intubation depth detection and software event log

Breathing
- Spontaneous breathing
- Variable respiratory rates and inspiratory/expiratory ratios
- Programmable unilateral chest rise and fall
- Lung sounds synchronized with respiratory rate
- Programmable retractions, "see-saw" breathing
- Mechanical ventilation support
  - » A/C, SIMV, CPAP, PCV, PSV, NIPPV
  - » Supports PEEP (up to 20 cmH_2O)
  - » Dynamic airway and lung controls
  - » Variable lung compliance
  - » Bilateral bronchi resistance
- Programmable respiratory efforts for weaning/liberation
- Unilateral chest rise with right mainstem intubation (Automatic detection and logging)
- Real-time ventilation feedback
- Bilateral, midaxillary pneumothorax sites support needle decompression and chest tube insertion
- Pneumothorax sites feature palpable bony landmarks, realistic skin for cutting and suturing, bleeding, tactile pleural pop, and fluid drain
- Visible chest rise during bag-valve-mask ventilation
- Supports $EtCO_2$ monitoring using real sensors and monitoring devices

Cardiac
- Includes comprehensive library of ECG rhythms with customizable beat variations
- Supports ECG monitoring using real devices
- Supports ECG-derived respiration monitoring (EDR)
- eCPR™ Real-time quality feedback and reporting:
  - » Time to CPR, compression depth/rate, compression, interruptions, ventilation rate, smart CPR voice coach
- Defibrillate, cardiovert, and pace using real devices and energy
- Effective chest compressions generate palpable femoral pulses and ECG activity
- Healthy and abnormal heart sounds
- Supports virtual pacing and defibrillation

Circulatory
- Visible cyanosis, jaundice, paleness, and redness with variable intensities
- Supports manual capillary refill time assessment on the left foot (Automatic detection and logging)
- Programmable fontanel: depressed, normal, and bulging
- Palpable pulses: brachial, femoral, and umbilical
- Pulse palpation event detection and logging
- Blood pressure-dependent pulses
- Supports blood pressure monitoring using a real NIBP cuff
- Audible Korotkoff sounds
- Pre-ductal and post-ductal SpO_2 monitoring using real devices

Vascular Access
- IV cannulation: bolus, infusion, and sampling
  - » Hand, scalp, and umbilicus
- Umbilical catheterization (UVC/UAC): continuous venous infusion and sampling
- Bilateral IO tibial infusion

Gastrointestinal
- Diaphragmatic hernia
- Programmable abdominal distension
- Urinary catheterization with return
- Normal and abnormal bowel sounds

SUPER TORY® S2220

S2220.PK

SUPER TORY®, tablet PC preloaded with UNI® license, automatic mode license, Neonatal SLE™ courseware package, RF module, battery charger, defibrillation adapter, replacement IV lower arm, scalp IV site inserts, IO site inserts, pneumothorax inserts, umbilical cords, post cord detachment navel, CO_2 adapter, 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

S2220.001.R2

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

GAUMARD Vitals™ Mobile Virtual Monitor

S2220.002

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

CARE IN MOTION™ MOBILE Video Debriefing System

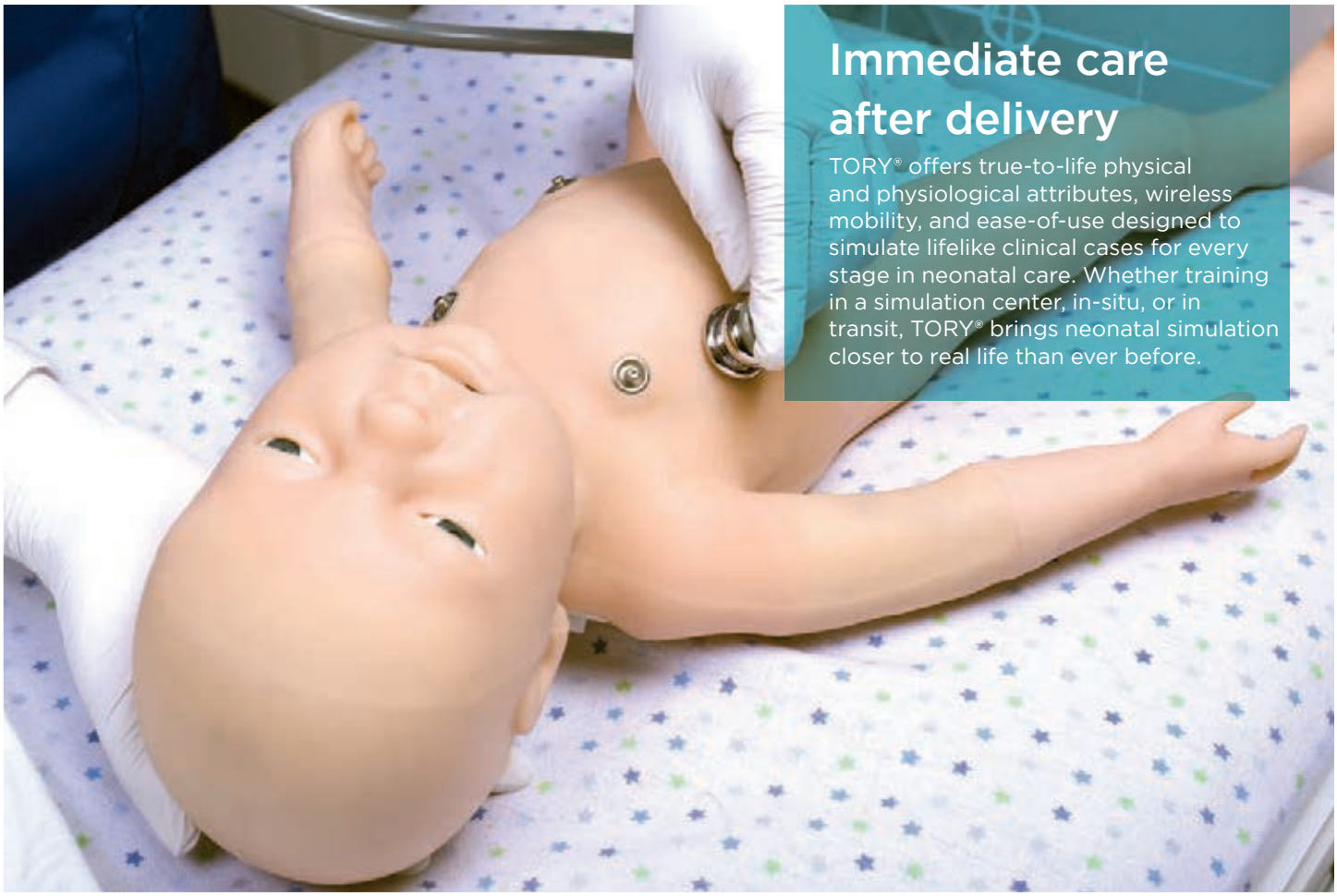
CIM.PK

Care In Motion Tablet PC, 3 Battery-powered HD wireless cameras, 3 adjustable camera grips, transport case. One-Year Limited Warranty. Extended service plans available.

NEWBORN TORY® S2210

Tetherless and Wireless Full-term Neonatal Simulator

- Lifelike appearance and physiology
- eCPR™ - CPR effectiveness monitoring and trainer
- Fully responsive even while being carried
- Easy-to-use neonatal care training solution
- Simulate clinical cases in any setting



Immediate care after delivery

TORY® offers true-to-life physical and physiological attributes, wireless mobility, and ease-of-use designed to simulate lifelike clinical cases for every stage in neonatal care. Whether training in a simulation center, in-situ, or in transit, TORY® brings neonatal simulation closer to real life than ever before.

Appearance, anatomy, and physiology.

Newborn TORY® looks and feels like a real term newborn with its soft and supple skin, lifelike vitals, and realistic articulation. The perfect combination of features for APGAR evaluation and physical examination scenarios.

6 lbs. / 2.7kg 20.75 in / 52.7cm

Full range of motion

Active arm movement: limp, active, seizures

Cyanosis, crying, grunting

Fontanelle, brachial, umbilical pulses

Heart, lung, and bowel sounds

Mother-newborn physiologic link.

When paired with Victoria®, the "Mother-Newborn Link" wirelessly transfers the condition of the fetus at the moment of birth to TORY®.

This exclusive feature lets operators accurately simulate the transition from intrauterine to extrauterine life with just one click while allowing participants to train continuity of care skills essential to improving response time and teamwork.

Comprehensive cardiopulmonary physiology with feedback.

Tory's heart and breath sounds, chest rise, $EtCO_2$, and O2Sat readings allow participants to practice recognizing and managing varying degrees of distress. Additionally, built-in ventilation and chest compression sensors accurately simulate realistic physiological responses to intervention without input from the operator. Tory's powerful software handles the complex physiology so you can focus on the providers' actions.

- CPR efficiency sensors
- Neck hyperextension sensor
- Real CO_2 exhalation
- Hypoxia modeling

Real CO_2 exhalation.

TORY® exhales real and measurable CO_2. Thus it is capable of simulating a broad range of cardiopulmonary responses. Now participants can train to interpret and manage abnormal levels of $EtCO_2$ using a real capnometer to improve response time and reduce risk in live situations. Tory's CO_2 exhalation system is small and portable, allowing continuous monitoring during transport.

Monitor heart rate, respiration, and $EtCO_2$ using your native monitoring devices.

$EtCO_2$ training benefits.

- Improve recognition and diagnosis of life-threatening conditions related to abnormal $EtCO_2$ including respiratory distress, apnea, cardiac arrest, and shock
- Improve recognition and management of hypo-and hyperventilation using breath-to-breath ventilation data
- Train to confirm endotracheal intubation with every procedure
- Train to recognize inadvertent extubation or "false negative endotracheal intubation" due to compromised pulmonary blood flow
- Improve management of full arrest by learning to monitor perfusion during compressions in real-time and identifying return of spontaneous circulation (ROSC)

Real-time CPR feedback.

The eCPR™ interactive monitor and smart trainer allow educators to evaluate the effectiveness of ventilations and compressions in real-time. It also features verbal coaching cues and a comprehensive performance report for better training and better outcomes.

Microsoft® Surface Pro tablet and UNI® Simulator Control Software are included.

Supports real patient monitors and sensors.

Patient monitoring using real devices.

With TORY®, learners can use real devices to monitor heart rate, respiration, and $EtCO_2$. Thus, participants are able to rehearse device operation and interpretation skills to improve patient safety. TORY® also features multiple IV access sites to engage the learners' cognitive, technical, and psychomotor skills.

- I/O access with drain port for infusion
- IV access with drain port for infusion
- Monitor using real devices
- Bilateral IV access and infusion
- Arterial/venous umbilical cath.
- Navel insert post cord detachment
- Urinary catheterization
- Bowel sounds

Umbilical catheterization

ECG monitoring

Wireless, tetherless, and battery-powered.

TORY® is fully functional while on battery power for up to 4 hours. There are no distracting controller wires or tethered external compressors. Our proven wireless and tetherless technology lets you easily simulate transitional care scenarios to improve teamwork and communication from the labor and delivery room, to the NICU, or anywhere learning takes place.

Preconfigured and Ready

UNI® comes preloaded and preconfigured on the rugged 12" wireless tablet PC included with the package.

3D Patient Visualization Monitor

This real-time 3D view of the patient ensures you never lose track of provider/patient interaction during the simulation.

Automatic Operating Mode

UNI's engine calculates physiologic responses to caregiver or operator actions, pharmacologic interventions, and cardiopulmonary events, thereby increasing fidelity while reducing input from the operator.

Scenario Designer

Create your own scenarios quickly and easily and share them with other UNI® users.

eCPR™

Monitor rate and compression depth, no-flow time, ventilation rate, and excessive ventilation; smart trainer features vocal cues and outputs performance reports.

Lab Report Designer

Generate and share simulated diagnostic lab results to enhance case fidelity and participant involvement.

Questionnaire Form Designer

Manage progress by easily creating interactive checklists to track participant objectives and post-simulation feedback.

Time-stamped event recording and reporting

The automated event tracking and interaction recorder ensures important events are always captured so you can focus on the action.

Provider Actions Tracker

The interactive "Actions" panel lets you carefully track additional team and individual provider actions to generate a comprehensive post-simulation log.

UNI® Control View Replay

The built-in recorder captures UNI's screen as data to allow your team to review the simulation from the operator's chair.

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Free software updates

Always stay up to date and take advantage of all the newest features at no additional cost.

Free webinar training and technical support

Sign up for monthly webinar sessions and become a UNI® expert.

Includes TORY® Neonatal Care Simulation Learning Experiences™ scenario package.

The new TORY® 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

Appearance and anatomy
- Age: 40-week term newborn
- Weight 6 lbs. / 2.7kg
- Length 20.75 in / 52.7cm
- Tetherless and wireless; fully responsive during transport
- Smooth and supple full body skin
- Seamless trunk and limb joints
- Realistic joint articulation: neck, shoulder, elbow, hip, and knee
- Forearm pronation and supination
- Lifelike umbilicus
- Palpable landmarks including ribs and xiphoid process

Tetherless and wireless connectivity
- Tetherless and fully responsive even while being transported
- Wireless control
- Internal rechargeable battery provides up to 4 hrs. of tetherless operation
- Pneumatic and fluid reservoirs are housed inside the body
- NOELLE® Fetus-Newborn wireless link capability

Airway
- Head tilt, chin lift, jaw thrust
- Realistic orotracheal and nasotracheal airway and visible vocal cords
- Bag-valve-mask ventilation
- Neck hyperextension airway obstruction with event capture and logging
- Intubation depth detection and logging
- Programmable crying/grunting sounds
- ETT, LMA, fiber optic intubation

Breathing
- Spontaneous breathing
- Variable respiratory rates and inspiratory/ expiratory ratios
- Visible chest rise with bag valve mask ventilation
- Unilateral chest rise with right mainstem intubation
- Lung ventilations are measured and logged
- Programmable unilateral chest rise and fall
- Unilateral lung sounds synchronized with respiratory rate
- Real end-tidal CO_2 dependent on cardiac output (Requires S2210.078)

Cardiac
- Comprehensive ECG rhythm library
- ECG monitoring using real devices
- eCPR™ Real-time CPR performance monitor and trainer
- Effective chest compressions generate palpable pulses and ECG activity
- Healthy and abnormal heart sounds
- Virtual pacing and defibrillation

Circulatory
- Visible central cyanosis with programmable intensity
- Fontanelle, brachial, and umbilical pulses
- Blood pressure-dependent pulses
- Blood pressure measurement using real modified BP cuff.
- Audible Korotkoff sounds
- Pre-ductal and post-ductal O_2 saturation values simulated on patient monitor
- Arterial/venous umbilical catheterization

Vascular access
- Bilateral IV arms
- IV access on the lower left leg
- Umbilical vein and arteries support catheterization and infusion
- Intraosseous access and infusion at right tibia
- Bilateral anterolateral thigh intramuscular injection sites

Other
- Interchangeable female and male genitalia
- Urinary catheterization
- Selectable bowel sounds
- Navel insert post cord detachment
- Seizures/Convulsions
- Programmable muscle tone: bilateral or unilateral arm movement, reduced, and limp
- Temperature sensor placement detection

NEWBORN TORY® S2210

S2210.PK

TORY® Tetherless Patient Simulator, UNI® Tablet PC, Neonatal Care Simulation Learning Experiences scenario package, 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

S2210.001.R2

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

GAUMARD Vitals ™ Portable Virtual Monitor

S2210.002

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

CO_2 Exhalation regulator

S2210.078

Real and measurable $EtCO_2$ with 10 programmable levels of CO_2 output.

UNI® Automatic Mode System

S2210.600

Includes drug library with medications. When medications are used, vitals change in real-time to mimic clinical situations.

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).

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 responds 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 as well as for draining fluids.

Intraosseous access

Intraosseous infusion and injection system with realistic tibia bones.

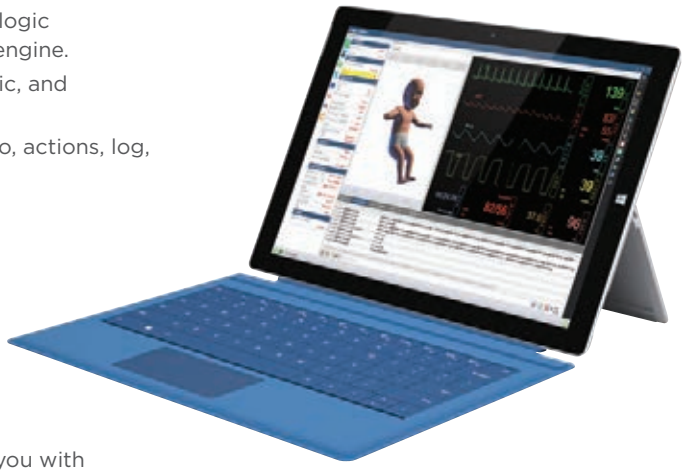
Monitor ECG using real electrodes

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 3D model of the simulator, 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

Optional GAUMARD Vitals "all-in-one" touchscreen monitor.

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

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

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
- Simulated suctioning techniques can be practiced
- Bag-Valve-Mask Ventilation
- Placement of conventional airway adjuncts
- Endotracheal intubation using conventional ETTs
- 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

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 rather than static 12-lead ECG display with optional Automatic Mode and 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

S3010.001.R2

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

GAUMARD Vitals™ Portable Virtual Monitor

S3010.002

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

UNI® Automatic Mode License

S3010.600

Includes drug library with medications. When medications are used, vitals change in real-time to mimic clinical situations.

Care in Motion™ MOBILE Video Debriefing System

CIM.PK

Mobile Video-Assisted Debriefing system. Package includes: 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. Patented; other patents pending.

PREMIE HAL® S2209

Premature Infant Patient Simulator

- SIMULATION MADE EASY®
- Proven HAL® technology
- Tetherless with wireless communication
- Fully responsive even while being carried
- Modeling and trending
- Comprehensive performance feedback

Introducing the new Premie HAL®.

The Premie HAL® S2209 is a lifelike, wireless and tetherless 30-week preterm patient simulator designed to facilitate the training of residents and health care professionals in the areas of preterm airway management, resuscitation, stabilization, transport, and intensive care.

Realistic chest recoil, visible chest rise with PPV, and variable central cyanosis

Real-time CPR quality feedback and performance reports.

eCPR™ sensors inside Premie HAL® capture ventilation and compression quality metrics in real-time, allowing educators to identify and address gaps in performance with greater efficacy.

- Compression depth, rate, and interruption duration
- Ventilation rate and duration
- Smart CPR voice coach
- Performance report summary

The unique challenge of pre-term airway management.

Developed using the latest laser and 3D printing technology, Premie HAL® presents participants with the most accurate airway anatomy available. High anatomical accuracy ensures participants can use standard airway intubation devices to develop technique and fine motor skills.

Supports IO infusions

IV access on dorsum of hands, dorsum of left foot, and umbilicus

Automatic, spontaneous breathing and bilateral palpable pulses

Anatomically accurate oral cavity and airway

Premie HAL® connected to a mechanical ventilator using a standard patient circuit.

Wireless and tetherless. Ready for transport, handoffs, and evac drill exercises.

Premie HAL® is fully functional in-transit thanks to its extra-long battery life and proven wireless technology.

Real mechanical ventilation. Real feedback.

Premie HAL® features compliant lungs that produce realistic PV waveforms on real mechanical ventilators and other respiratory equipment. This allows participants to follow guideline-recommended settings and algorithms while developing skills more directly transferable to real situations.

A complete solution. Includes UNI® tablet PC and Simulation Learning Experiences™ scenario package.

Premie HAL® includes the powerful UNI® control interface and 5 outcome-focused scenarios accompanied with a printed guide for setting up, planning, and facilitating each learning experience.

- CPAP and OG Tube Placement
- Premie Early-Onset Sepsis
- Premie Resuscitation
- Respiratory Distress Syndrome
- Umbilical Catheterization

GAUMARD Vitals™ Virtual Patient Monitor.

The optional GAUMARD Vitals™ Patient Monitor simulates the functionality and look of a real patient monitor, allowing participants to practice data interpretation, documentation, and clinical decision-making skills.

General
- Gestational age: 30-week preterm neonate
- Weight: 2.9 lb. (1.32 kg)
- Length: 15.71 inches (39.9 cm)
- Smooth and supple full-body skin
- Tetherless and wireless; fully responsive during transport
- Internal rechargeable battery provides hours of tetherless operation
- UNI® Tablet PC included
- Includes 5 preprogrammed SLEs and Facilitator's Guidebook

Neurological
- Crying synchronized with breathing

Airway
- Lifelike and anatomically accurate oral cavity and airway
- Supports NG and OG tube placement
- Supports endotracheal intubation using standard adjuncts
- Selectable upper airway sounds synchronized with breathing

Breathing
- Automatic, spontaneous breathing
- Programmable respiratory rates and I:E ratios
- Preprogrammed respiratory patterns and grunting
- Selectable normal and abnormal lung sounds
- Compliant lungs present visible chest rise following guideline-recommended flow, PIP, and PEEP values
- Supports standard positive pressure ventilation devices including bag-valve-mask, resuscitators, mechanical ventilators, CPAP, and more
- Real-time PPV ventilation feedback via UNI® control interface
- Programmable unilateral chest rise simulates pneumothorax

Circulation
- Central cyanosis with variable discoloration
- Includes comprehensive library of ECG rhythms with customizable beat variations
- Supports ECG monitoring using real devices
- Normal and abnormal heart sounds with adjustable rates
- eCPR™ Real-time quality feedback and reporting
- Time to CPR
- Compression depth/rate
- Compression interruptions
- Ventilation rate
- Excessive ventilation
- Smart CPR voice coach
- CPR performance report
- Automatic and palpable pulses
- Fontanelle
- Brachial
- Umbilicus
- Femoral
- Pulse strength is blood pressure-dependent
- Supports IV cannulation: bolus, infusion, and sampling
- Dorsum of hand (bilateral)
- Umbilical catheterization (UVC/UAC)
- Dorsum of foot
- Intraosseous access at right tibia supports continuous infusion
- Temperature sensor placement detection
- Supports virtual pacing and defibrillation via GAUMARD® Vitals™ Virtual Patient Monitor

UNI® Simulator control interface
- Supports operation on-the-fly or by way of programmable scenarios
- 3D Patient Visualization
- Virtual patient monitor view
- Scenario designer
- Preprogrammed and editable scenario library
- eCPR™ – CPR quality monitor and trainer
- Hypoxia model
- Lab report designer
- Questionnaire form designer
- Time-stamped event logging and provider actions tracking

GAUMARD VITALS™ Patient monitor (Option)
- Customizable interface can mimic the look of various real patient monitor brands
- 20+ Dynamic scalars and waveforms including HR, ABP, SpO2, RR, EtCO2, temperature, time, and more
- Customizable alarms for vital sign parameter high/low threshold
- Data histogram
- Built-in virtual defibrillator and pacer
- Wireless data communication

PREMIE HAL® S2209

S2209.PK

Premie HAL® S2209, UNI® Tablet PC, PREMIE HAL® Simulation Learning Experiences Package, Facilitator's Guidebook, battery charger, replacement IV lower arms, IO inserts, umbilical cords, post cord-detachment navel, 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

S2209.001.R2

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

GAUMARD Vitals™ Portable Virtual Monitor

S2209.002

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

Care in Motion™ MOBILE

CIM.PK

Mobile Video-Assisted Debriefing system. Package includes: 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.

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
- Emergency intervention: surgical airway, needle decompression, chest tube insertion
- Wireless and tetherless; up to 8 hrs. of battery life

Meet Pediatric HAL®, the world's most advanced pediatric patient simulator and the first capable of simulating lifelike emotions through dynamic facial expressions and speech.

HAL® is designed to help providers of all levels develop the specialized skills needed to effectively communicate, diagnose, and treat young patients in nearly all clinical areas. 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.

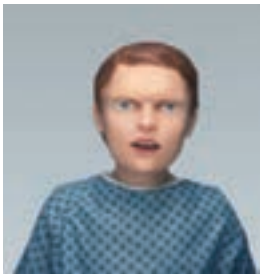
HAL® also simulates a variety of common emotional states to better approximate behavior. Simply set HAL's emotional state to lethargic, for example, and the eyelids will droop automatically, head movement will slow, and yawning will occur periodically.

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

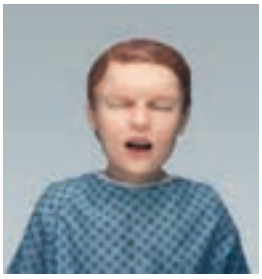
- Anger
- Transient pain
- Ongoing pain
- Amazed
- Quizzical
- Worried
- Anxious
- Crying
- Yawning
- Lethargic

HAL® automatically turns head and eyes towards the approaching subject.

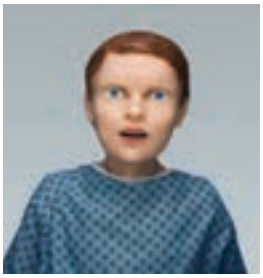
Ongoing pain

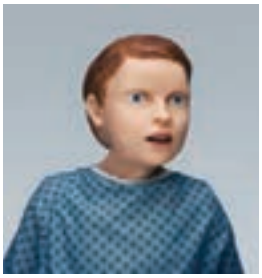


Transient pain



Crying





Horizontal head movement (Active robotics)

Truly comprehensive pediatric patient assessment exercises.

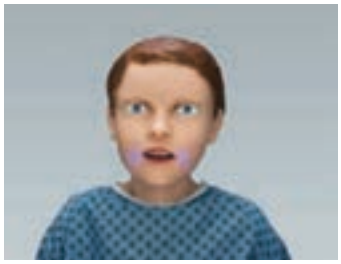
Interactive eyes and color-changing skin allow Pediatric HAL® to illustrate signs of varying emotional states, trauma, and many other neurological diseases and conditions.

- 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 pupillary light reflex
- Mild and severe seizures

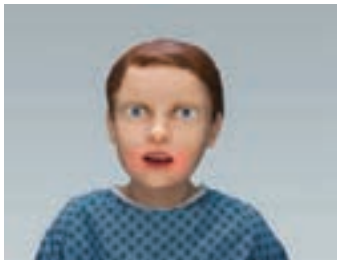
Pallor

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 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 SpO_2 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
- SpO_2 and $EtCO_2$ monitoring
- Anterior/posterior defibrillation
- eCPR™ Real-time quality feedback and reporting
  - » Compression depth, rate, and interruption duration
  - » Ventilation rate and duration
  - » Smart CPR voice coach
  - » Performance report summary

Tracheal intubation detection

Anterior/posterior defibrillation

Supraglottic airways device support

Realistic chest recoil

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

Intraosseous infusion

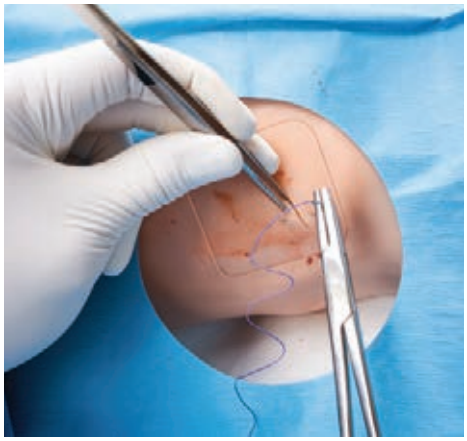
Left-midaxillary hemothorax site

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® 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 new Simulation Learning Experiences™ scenario package.

The new Pediatric HAL® Simulation Learning Experiences (SLEs) package provides 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 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

UNI® offers all the tools to deliver a rich simulation experience in one intuitive interface.

UNI® features precise physiological touch-based controls, task automation, real-time feedback, and automatic data capture tools designed to help operators manage even the most complex scenarios.

Preconfigured and ready
Pediatric HAL® is preconfigured and ready for use right out of the box.

Optimized for on-the-fly controls
The UNI® touchscreen interface lets you quickly and easily adjust vital sign parameters with just a few taps.

3D patient visualization monitor
This real-time 3D view of the patient ensures you never lose track of provider/patient interactions during the simulation.

Scenario designer
Create your own scenarios quickly and easily and share them with other UNI® users.

eCPR™
Monitor rate and compression depth, no-flow time, ventilation rate, and excessive ventilation. Smart trainer features vocal cues and outputs performance reports.

Lab report designer
Generate and share simulated diagnostic lab results to enhance case fidelity and participant involvement.

Questionnaire form designer
Manage progress by easily creating interactive checklists to track participant objectives and post-simulation feedback.

Time-stamped event recording and reporting
The automated event tracking and interaction recorder ensures important events are always captured so you can focus on the action.

Provider actions tracker
The interactive "Actions" panel lets you carefully track additional team and individual provider actions to generate a comprehensive post-simulation log.

UNI® control view replay
The built-in recorder captures UNI's screen as data to allow your team to review the simulation from the operator's chair.

No annual software license fee
GAUMARD® is committed to providing the best value and keeping your program's operating costs down year after year.

Free software updates
Always stay up to date and take advantage of all the newest features at no additional cost.

Free webinar training and technical support
Sign up for our monthly webinar sessions and become a UNI® expert.

Pediatric HAL® S2225 | Advanced Pediatric Patient Simulator

General
- Height: 44 inches
- Tetherless and wireless; fully responsive during transport
- The internal rechargeable battery provides hours of tetherless operation
- 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® included
- OMNI®2 ready
- 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® 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
- Unilateral chest rise with right mainstem intubation
- Real CO_2 exhalation: supports $etCO_2$ 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 BVM 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)
- eCPR™ Real-time quality feedback and reporting
  - Time to CPR
  - Compression depth/rate
  - Compression interruptions
  - Ventilation rate
  - Excessive ventilation
  - Smart CPR voice coach
- Effective chest compressions generate palpable femoral 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
- SpO_2 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 finger-stick

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

A new level of realism for immersive simulation-based pediatric care training.

PEDIATRIC HAL® S2225

S2225.PK

Pediatric HAL® S2225, UNI® Tablet PC, automatic mode activation code, 10 Pediatric SLEs, Facilitator's Guide, accessories, user guide, transport case. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

GAUMARD Vitals™ Bedside Virtual Monitor

S2225.001.R2

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

GAUMARD Vitals™ Portable Virtual Monitor

S2225.002

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. One-Year Limited Warranty. Extended service plans available.

PEDIATRIC HAL® S3005

Five-Year-Old Pediatric Simulator

- SIMULATION MADE EASY®
- Proven HAL® technology
- Tetherless with wireless communications
- Fully responsive, even during transport
- Wireless streaming audio
- Automatic or instructor control

Deliver high-quality pediatric simulation-based training with Pediatric HAL®.

From nursing to emergency care, Pediatric HAL® allows you to train teamwork and patient care skills through hands-on exercises. Pediatric HAL® is wireless and tetherless and remains fully functional while being moved from place to place.

Realistic airway

Supports oral and nasal endotracheal intubation and features a tracheostomy site for care exercises.

Real-time CPR feedback

Realistic chest recoil, visible chest rise with PPV, and variable central cyanosis.

Real-time CPR feedback

Realistic chest recoil, visible chest rise with PPV, and variable central cyanosis.

Intraosseous access

Intraosseous infusion and injection system with realistic tibia bones.

Supports real monitors

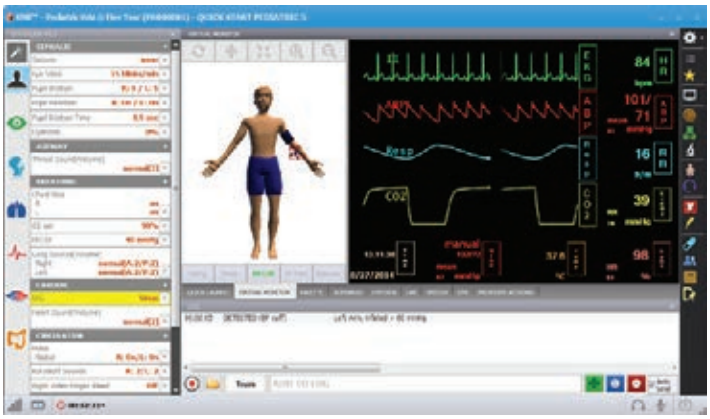
Monitor BP and ECG. Pace and defibrillate using live energy.

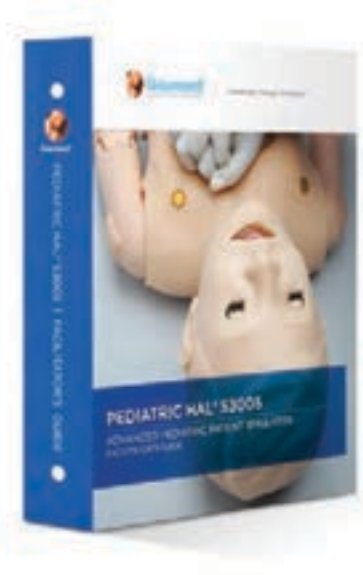
IV Access

Supports bolus, infusion, and sampling.

PEDIATRIC HAL® S3005 | Five-Year-Old Pediatric Simulator

- Use our preprogrammed scenarios designed by medical professionals. Modify them or quickly create your own
- Use our library of preprogrammed physiologic states, modify them, or specify Pediatric HAL's condition using the Details page
- Save each condition as a physiologic state on the palette page
- Control Pediatric HAL® using a wireless PC to quickly generate multiple life-threatening situations and track the actions of care providers

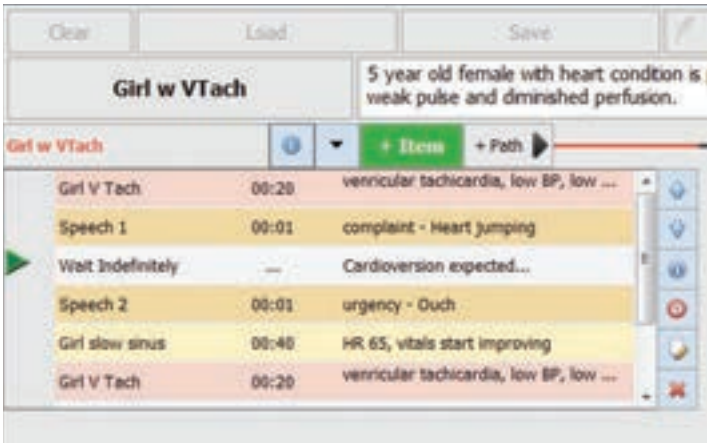




Includes the new Pediatric HAL® Simulation Learning Experiences™ scenario package.

The new Pediatric HAL® Simulation Learning Experiences (SLEs) package provides 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 10 SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience.

1. Acute Lymphocytic Leukemia
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. Five-Year-Old with Trauma



- Select Pediatric HAL's physiologic states from the palette page and combine them to build a scenario
- Select the time Pediatric HAL® is in each state
- Build in delays between states or specify smooth transitions
- When activated, Pediatric HAL® will progress from one state to the next
- Use stylus control to branch to a different state should the team treat Pediatric HAL® incorrectly without stopping the scenario
- Invoke Pediatric HAL's extensive library of voice responses at any time and combine them to facilitate a dialogue
- Actions are logged and time-stamped for evaluation and debriefing

General
- Physical size of a 5-year-old child
- Tetherless and wireless; fully responsive during transport
- Supports common patient positions including Fowler's, supine, and sitting
- Internal rechargeable battery provides up to 3 hours of tetherless operation
- Available in light, medium, or dark skin tone at no extra charge
- Programmable blinking rate
- Independent, active pupillary light reflex
- Seizures with selectable intensities

Airway
- Wireless streaming voice option
- 50+ prerecorded speech responses
- Anatomically accurate oral cavity and airway
- Airway sounds
- Oral and nasal endotracheal intubation
- Supports NG/OG tube placement (dry exercises only)
- Tongue edema
- Tracheostomy care site; tracheal suctioning (dry exercises only)
- Tracheal intubation depth detection and logging

Breathing
- Visible chest rise with positive pressure ventilation
- Ventilations are measured and logged in real-time
- Spontaneous breathing with selectable respiratory patterns
- Programmable respiratory rate and inspiratory/expiratory ratio
- Programmable unilateral chest rise and fall
- Real CO_2 exhalation option
- Selectable normal and abnormal lung sounds
- Bilateral anterior lung sounds
- Posterior lung sounds
- Unilateral chest rise with right mainstem intubation

Circulation
- eCPR™ Real-time CPR performance monitoring and training
- Chest compressions generate palpable pulses
- Programmable heart rate and healthy and abnormal heart sounds
- Includes comprehensive library of ECG rhythms with customizable beat variations
- Supports ECG monitoring with real devices
- Defibrillation, cardioversion, and pacing using real devices and live energy
- Anterior/posterior defibrillation sites option
- Central cyanosis with variable intensities
- Bilateral palpable: pulses carotid, brachial, radial, and femoral
- BP measurement by auscultation using a sphygmomanometer
- Realistic Korotkoff sounds
- Bilateral IV access: bolus, infusion, and sampling
- Intraosseous access proximal tibia

Other
- Gastric distension
- Selectable normal and abnormal bowel sounds
- Urinary catheterization with fluid return
- Interchangeable female and male genitalia
- Simulation Learning Experiences™ scenario package

PEDIATRIC HAL® S3005

S3005.PK

S3005 Pediatric HAL®, tablet PC with UNI® software, SLE courseware package, RF module, battery charger, accessories, carrying case, user manual. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge.

GAUMARD Vitals™ Bedside Virtual Monitor

S3005.001.R2

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

GAUMARD Vitals™ Portable Virtual Monitor

S3005.002

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

Wireless streaming audio

S3005.300

Add pre-recorded crying or be the voice of Pediatric HAL® and increase realism during simulated patient-provider interactions.

UNI® Automatic Mode License

S3005.600

Includes drug library with medications. When medications are used, vitals change in real-time to mimic clinical situations.

CO_2 exhalation regulator

S3005.178

Real and measurable $EtCO_2$ with 10 programmable levels of CO_2 output.

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. One-Year Limited Warranty. Extended service plans available.

PEDIATRIC HAL® S3004

One-Year-Old Pediatric Simulator

- SIMULATION MADE EASY®
- Tetherless with wireless communication
- Fully responsive even while being carried
- Modeling and trending
- Comprehensive performance feedback

Meet Pediatric HAL®, toddler-sized high-fidelity simulator.

Pediatric HAL® is a high-fidelity toddler patient simulator specifically designed to meet the needs of pediatric care training programs. Pediatric HAL® can help your team train to improve teamwork and patient care through scenario-based training.

Wireless and tetherless

Transitions between physiologic states in response to commands from a wireless tablet PC.

Active eyes

HAL® has blinking eyes with photosensitive pupils. Dilation, reactivity, and blink rate can be controlled automatically or by the instructor.

Defibrillate, cardiovert, and pace

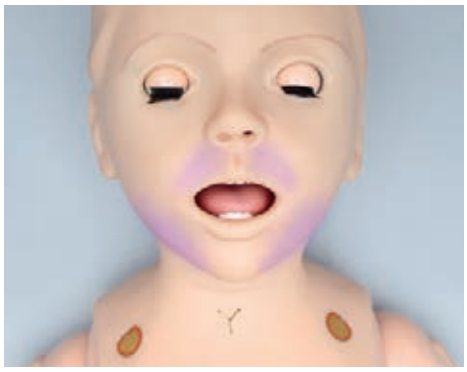
HAL's electrically conductive skin sites allow the use of real equipment to monitor ECG, pace, cardiovert, and defibrillation with live energy.

Airway and breathing

Improved airway allows better visualization of vocal cords and easy intubation.

Intraosseous access

Intraosseous infusion and injection system with realistic tibia bones.

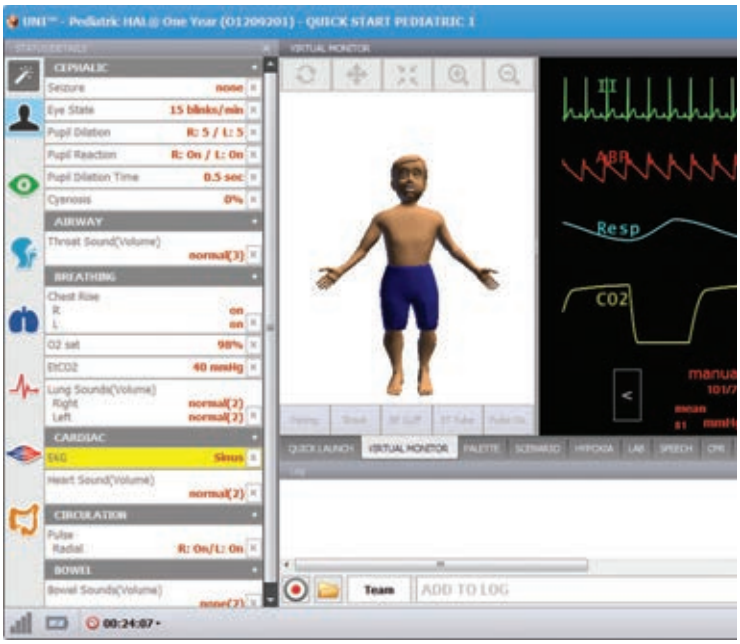


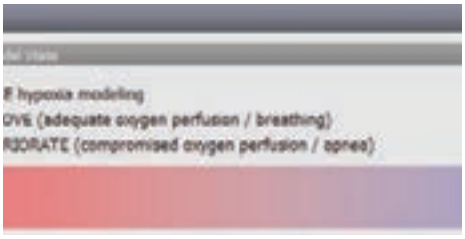
Cyanosis

Color and vital signs respond to hypoxic events and interventions.

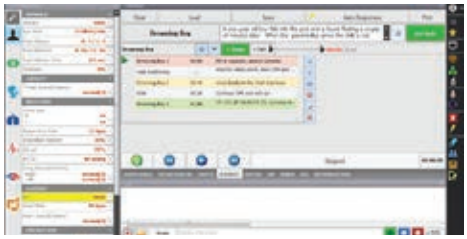
UNI® Simulator Control Software

- Use our scenarios, modify them, or quickly build your own
- Change physiologic states “on the fly” using wireless control
- Changes in condition and care are time-stamped and logged
- Link “Palette” items to build a linear or branching scenario
- Sensors track interventions as well as changes to the condition of Pediatric HAL®
- Lab tab allows creation of laboratory tests and results
- The Status panel on the left edge of the GUI window shows vital signs and other details
- Get real-time feedback on the quality of compressions and ventilations

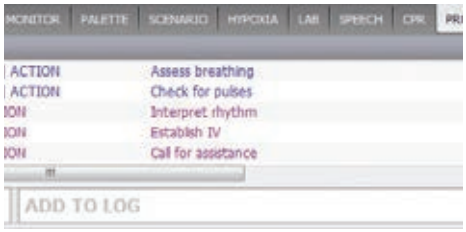




Hypoxic model responds to care provider actions



Scenarios link physiologic states



Track the actions of up to six care providers

Includes the new Pediatric HAL® Simulation Learning Experiences™ scenario package.

The new Pediatric HAL® Simulation Learning Experiences (SLEs) package provides 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 10 SLEs complete with a facilitator’s guidebook for planning, setting up, and facilitating each learning experience.

1. Appendicitis
2. Acute Lymphocytic Leukemia
3. Organophosphate Poisoning
4. Post-Op Cardiac Transplant
5. Respiratory Syncytial Virus (RSV)
6. Seizure Management
7. Sepsis
8. Status Asthmaticus
9. Trauma
10. Trauma Related to Child Abuse

General
- Physical size of a 1-year-old child
- Supports common patient positions including Fowler's, supine, and sitting
- Joint range of motion
- Tetherless and wireless; fully responsive during transport
- Internal rechargeable battery provides up to 3 hours of tetherless operation
- Available in light, medium, or dark skin tone at no extra charge
- Programmable blinking rate
- Active pupillary light reflex
- Seizures with selectable intensitie

Airway
- Wireless streaming voice option
- 50+ Prerecorded speech responses
- Anatomically accurate oral cavity and airway
- Airway sounds
- Oral and nasal endotracheal intubation
- Supports NG/OG tube placement (dry exercises only)
- Tongue edema
- Tracheostomy care site; tracheal suctioning (dry exercises only)
- Tracheal intubation depth detection and logging

Breathing
- Visible chest rise with positive pressure ventilation
- Ventilations are measured and logged in real-time
- Spontaneous breathing with selectable respiratory patterns
- Programmable respiratory rate and inspiratory/expiratory ratio
- Programmable unilateral chest rise and fall
- Real CO2 exhalation option
- Selectable normal and abnormal lung sounds
- Bilateral anterior lung sounds
- Unilateral chest rise with right mainstem intubation

Circulation
- eCPR™ Real-time CPR performance monitoring and training
- Chest compressions generate palpable pulses
- Programmable heart rate and healthy and abnormal heart sounds
- Includes comprehensive library of ECG rhythms with customizable beat variations
- Supports ECG monitoring with real devices
- Defibrillation, cardioversion, and pacing using real devices and live energy
- Central cyanosis with variable intensities
- Palpable bilateral pulses (automatic): carotid, brachial, radial, and femoral pulses
- BP measurement by auscultation using a sphygmomanometer
- Realistic Korotkoff sounds
- Bilateral IV access: bolus, infusion, and sampling
- Intraosseous access proximal tibia

Other
- Selectable normal and abnormal bowel sounds
- Urinary catheterization with fluid return
- Interchangeable female and male genitalia

PEDIATRIC HAL® S3004

S3004.PK

S3004 Pediatric HAL®, tablet PC with UNI® software, SLE scenario package, RF module, battery charger, accessories, carrying case, user manual. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge.

GAUMARD Vitals™ Bedside Virtual Monitor

S3004.001.R2

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

GAUMARD Vitals™ Portable Virtual Monitor

S3004.002

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

Wireless streaming audio

S3004.300

Add pre-recorded crying or be the voice of Pediatric HAL® and increase realism during simulated patient-provider interactions.

UNI® Automatic Mode License

S3004.600

Includes drug library with medications. When medications are used, vitals change in real-time to mimic clinical situations.

CO_2 exhalation regulator

S3004.178

Real and measurable $EtCO_2$ with 10 programmable levels of CO_2 output.

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. One-Year Limited Warranty. Extended service plans available.

HAL® S3201

Advanced Multipurpose Patient Simulator

- Programmable airway and lung compliance
- Myocardial infarction modeling
- Automated physiology and drug recognition
- Real monitoring: mechanical ventilators, 12-Lead ECG, AED, oximeters, capnometers, and auto-BP
- eCPR™ - effectiveness monitoring and training
- Wireless and tetherless mobility for care in motion training

Streamline your training with the one patient simulator that can do it all. Meet the versatile HAL® S3201.

HAL® S3201 is our most advanced multipurpose patient simulator specifically designed to simulate lifelike cases across a broad range of clinical areas including prehospital, ED, OR, ICU, PACU, med-surg, and more.

Versatile and capable.

HAL's array of features can simulate a near-infinite number of clinical presentations and responses. HAL® also supports the use of real patient monitors and sensors for in-situ training.

Wireless and tetherless design.

HAL® is self-contained, quiet, and fully operational on battery power for up to 6 hours. HAL's tetherless and wireless design eliminates complicated setups and allows for realistic patient hand-off exercises and realistic in situ simulation.

Powerful and intuitive software.

Our UNI® simulator control software lets you quickly and easily manage HAL's vitals, track participant actions, and export event data for debriefing from one interface. The UNI® interface is shared across all GAUMARD® computer-controlled patient simulators, making it easier and faster to learn.

A complete solution.

HAL® S3201 is delivered fully equipped and ready for use. The package includes the powerful UNI® tablet PC, GAUMARD Vitals™, the new HAL® Simulation Learning Experiences scenario package, and accessories.

Proven reliable.

Since 2004, our industry-leading HAL® series design and wireless technology has been proven effective and reliable by our users. The HAL® S3201 is the evolution of the HAL® S3000 design awarded the certificate of airworthiness by the US Army.

Skin tone options available at no extra charge

Train using real patient monitors and sensors.

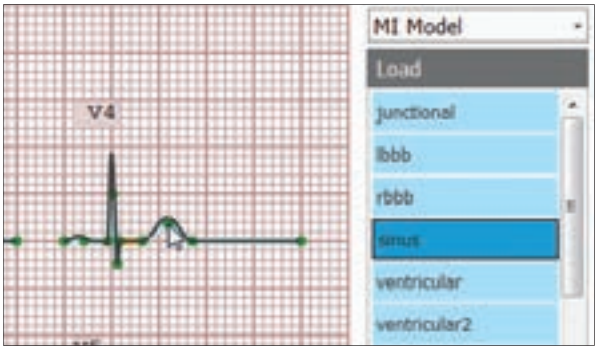
HAL® supports a broad range of real patient monitors and sensors. This unique capability allows participants to practice setting up and operating equipment just as they would in real situations.

- ECG/EKG monitors
- Oximeters
- Capnographs
- Defibrillators
- NIBP monitors

Patented, dynamic airway and lung compliance respiratory system.

Train participants on ventilator management and patient care using a real mechanical ventilator. HAL's respiratory controls let you adjust lung compliance, airway resistance, gasping, real $EtCO_2$, and O_2sat to simulate an infinite number of respiratory conditions.

- Supports standard modes of pressure-controlled and volume-cycled mechanical ventilation
- Presents true-to-life waveforms and values on ventilator screen
- 10 programmable levels of lung compliance (from 15 to 50 cmH_2O)
- 10 programmable levels of airway resistance
- Holds PEEP from 5 to 20 cmH_2O
- Exhales real and measurable CO_2
- Supports on-the-fly changes to airway and lung parameters while connected to the ventilator
- Connect ventilator to HAL® using standard patient circuits like a real patient. No calibration, proprietary adapters, or converter boxes required.



12-Lead ECG editor with 3D myocardial infarction generator.

Train ECG interpretation and MI management using real native 12-lead equipment. Select rhythms from the built-in library, design your own using the point-by-point PQRST wave editor, or create an occlusion on the 3D heart model to auto-generate injury, ischemia, and necrosis.

Automatic recognition of 50+ virtual drugs.

Train medication administration and management to improve patient safety. The drug recognition sensors integrated into the arm vasculature detect the medication type, concentration, and dose administered. In response, the physiological model automatically simulates the effect on the patient.

Train general and specialized practitioners across the continuum of patient care.

Reactive eyes, seizures

HAL® has blinking eyes with photosensitive pupils. Control dilation, reactivity, and blink rate to simulate injury and state of consciousness.

Advanced airway management

Visible tongue edema, pharyngeal swelling, and laryngospasm. Perform an emergency cricothyrotomy or tracheotomy.

Wireless streaming voice

Be the voice of HAL® and hear caregiver responses. Create and store vocal responses or select from 80+ prerecorded phrases.

eCPR™ and real $EtCO_2$

Built-in ventilation and chest compression sensors capture CPR quality metrics. Measure $EtCO_2$ using a real capnometer to monitor effectiveness.

Defibrillate, cardiovert, & pace

Monitor, capture, pace, and cardiovert using a real defibrillator, electrodes, and real energy. Alternatively, save money on replacement pads by connecting the defibrillator directly to HAL® using our optional hands-free training cables.

Auscultation

Present normal and abnormal airway sounds, heart sounds, anterior and posterior lung sounds, and bowel sounds.

Includes the new HAL® Simulation Learning Experiences™ scenario package

The new HAL® 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 10 SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

- Acute Anterolateral Myocardial Infarction
- Acute Sepsis Related To Diabetic Ulcer
- Atrial Fibrillation
- COPD Exacerbation
- Diabetic Ketoacidosis
- Opioid Overdose
- Pulmonary Embolism
- Sepsis Related To Pneumonia
- Severe Sepsis
- Supraventricular Tachycardia

UNI® offers you all the tools to deliver a rich simulation experience in one intuitive interface.

Preconfigured and ready
UNI® comes preloaded and preconfigured in the rugged 12" wireless tablet PC included with the package.

3D Patient Visualization Monitor
This real-time 3D view of the patient ensures you never lose track of provider/patient interaction during the simulation.

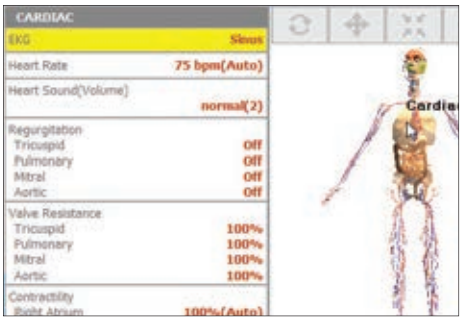
Unified Scenario Designer
Create your own scenarios quickly and easily and share them with other UNI® users and between GAUMARD® products.

Time-stamped event recording and reporting
The automated event tracking and interaction recorder ensures important events are always captured so you can focus on the action.

Control View Replay
The built-in recorder captures UNI's screen as data so you can review the simulation from the operator's chair.

No annual software license fee
GAUMARD® is committed to providing the best value and keeping your program's operating costs down year after year.

Free Software Updates
Always stay up to date and take advantage of all the newest features at no additional cost.



Automatic mode
The UNI® physiological model can automatically simulate lifelike responses to cardiorespiratory events, gas and blood composition, medications, and much more, without input from the operator.

3D Myocardial infarction
Train to improve MI diagnosis, management, and prognosis. Simply point-and-click on the 3D heart to create an occlusion to auto-generate MI's visible on a real 12-lead ECG reading.

eCPR™ Monitoring
Monitor and assess CPR performance in real-time, simulate perfusion dependent on effectiveness, and export performance reports for debriefing.

Includes GAUMARD Vitals™ patient monitor.

- Includes GAUMARD Vitals bedside patient monitor
- Customize each trace independently. Users can set alarms and time scales.
- Display up to 12 numeric values, including HR, ABP, CVP, PAWP, NIBP, CCO, SpO_2, SvO_2, RR, $EtCO_2$, temperature, and time.
- Select up to 12 dynamic waveforms, including ECG Lead I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6, AVP, CVP, PAWP, pulse, CCO, SvO_2, respiration, capnography.
- Share images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses.

General
- Powered from an internal rechargeable battery or wall outlet
- Tetherless and wireless; fully responsive during transport
- Use preprogrammed scenarios, modify them, or create your own quickly and easily
- Installation and training worldwide

Airway
- Programmable airway: tongue edema, laryngospasm, and pharyngeal swelling
- Multiple upper airway sounds synchronized with breathing
- Right mainstem intubation
- Sensors detect depth of intubation
- Placement of conventional airway adjuncts
- Endotracheal intubation
- Retrograde intubation
- View vocal cords with Sellick maneuver
- Realistic surgical trachea allows tracheostomy or needle cricothyrotomy

Breathing
- Control rate and depth of respiration and observe chest rise
- Select independent lung sounds: upper right, front and back; upper left, front and back; lower right, front and back; lower left, front and back
- Chest rise and lung sounds are synchronized with selectable breathing patterns
- CO_2 on exhalation (4 levels) using replaceable cartridge mounted inside the simulator
- Attach to real mechanical ventilators
- Bilateral chest rise and fall
- Unilateral chest rise simulates pneumothorax
- Anterior and posterior auscultation sites
- Bilateral needle decompression at second intercostal
- Dynamic airway and lung compliance/resistance
  - » Ten levels of static compliance, 15-50 ml/cm H_2O
  - » Ten levels of airway resistance
  - » Holds PEEP from 5 to 20cm H_2O
  - » Exhales real and measurable CO_2
  - » Change airway and lung settings on the fly
  - » Receive real-time feedback from a real mechanical ventilator
  - » Capable of assisting the ventilator at variable respiratory rate
  - » Compliance and resistance can be varied while connected to the ventilator

Cardiac
- ECGs are generated in real-time with physiologic variations never repeating textbook patterns
- Heart sounds may be auscultated and are synchronized with ECG
- eCPR sensors; chest compressions are measured and logged
- 12-Lead ECG with integrated MI model

Circulation
- Measure blood pressure by palpation or auscultation
- Use real BP cuff rather than a "virtual" cuff to measure blood pressure
- Korotkoff sounds audible between systolic and diastolic pressures
- Oxygen saturation detected using real monitors rather than a "virtual" value
- Pulse sites synchronized with BP and heart rate
- Bilateral IV arms with fill/drain sites
- SubQ and IM injection sites
- Intraosseous access at tibia
- ECG monitoring using real devices
- Defibrillate, cardiovert, and pace using real devices
- Multiple heart sounds, rates, and intensities
- ECG rhythms are generated in real-time
- Bilateral carotid, radial, brachial, femoral, popliteal and pedal pulses synchronized with ECG
- Pulses vary with blood pressure and are continuous and synchronized with the ECG even during a paced rhythm

Drug recognition system
- Automatic drug recognition detects medication type, dose, and rate injected into the lower right arm
- Includes a preprogrammed library of virtual medications
- Supplied with 20 syringes having wireless tags
- Add new medications using the UNI® software editor
- Compatible with UNI® Automatic Mode
- Automatically simulates drug interactions

Neural responses
- Eyes are controlled automatically by the physiologic model or directly by the instructor
- Select pupillary response to light

Speech
- Wireless streaming audio
- Create and store vocal responses in any language

Other
- Central cyanosis
- Fill bladder and perform Foley catheterization
- Insert feeding tubes
- Auscultate bowel sounds

Articulation and movement
- Realistic joint articulation
- Supports supine, prone, recumbent, and sitting positions
- Seizure/convulsions

HAL® 3201

S3201.PK

HAL® S3201, Tablet PC, UNI® License, GAUMARD Vitals™ Bedside patient monitor, UNI® Automatic Mode License, SLE™ scenario package, RF module, battery charger, surgical tracheas, pneumothorax inserts, IO bones, 20 drug recognition syringes, filling kits, headset for streaming audio, carrying case, user manual. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

Trauma limbs

Amputated leg - **S3201.004**
Amputated arm - **S3201.005**

Wound kits

Emergency - **WK100**
Burn - **WK105**
Trauma - **WK110**
Casualty - **WK120**

Modified defib cables

Philips® - **30080373B**
Physio LIFEPAK® - **30080375B**
Zoll® - **30080374B**

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. One-Year Limited Warranty. Extended service plans available.

HAL® S3101

Proven Wireless and Tetherless Patient Simulator

- UNI® Automatic Mode
- 50+ drug library and pharmacology editor
- eCPR™ - CPR effectiveness monitoring
- Supports real ECG monitors, AED, oximeters, capnometers, and blood pressure cuffs
- Wireless and tetherless mobility for care in motion training

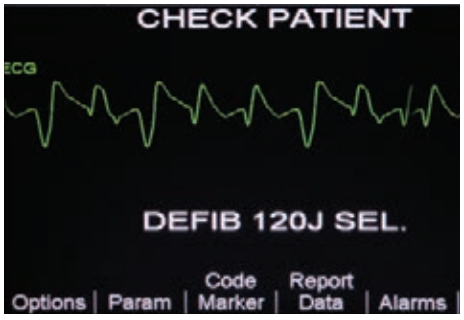
Use HAL® to train individual and team skills at the point-of-injury, during transport, and in the hospital, in both real and simulated environments. HAL's physiological features allow learners to monitor and manage an infinite number of simulated conditions using real tools and medical devices.

Train oral or nasal intubation: ETT, LMA, King LT, tracheostomy, and needle cricothyrotomy.

Monitor CPR quality, $EtCO_2$, defibrillation, and medication management.

Attach real electrodes, pads, or paddles and monitor HAL's lifelike rhythm in real-time.

Bilateral carotid, radial, brachial, femoral, popliteal, and pedal pulses. Pulse strengths vary with BP, and pulses are synchronized with the ECG.



Monitor, capture, cardiovert, and pace using a real defibrillator and real energy.

IV access for bolus and/or infusion training and simulate the effects using the virtual drug administration.

An advanced patient simulator

HAL® is the perfect adult patient simulator for training students and professionals in the areas of prehospital and nursing care.

Wireless and tetherless mobility

HAL® is completely self-contained and wireless and fully operational on battery for up to 6 hours.

Monitor using real devices

Monitor and provide care using real equipment. HAL® supports real ECG monitors, oximeters, BP cuffs, and defibrillators, just like a real patient.

Wireless voice communication

Be the voice of HAL® and hear caregiver responses. Create and store vocal responses or select from 80+ pre-recorded phrases.

Nursing care training

Train pupil examination, urinary catheterization, IV administration, tracheostomy care, and more.

Training

Train difficult airway management, improve CPR quality, $EtCO_2$ monitoring, practice defibrillation, and manage post-cardiac care.

Turnkey solution

HAL® is fully equipped and ready for use. HAL® includes a wireless control tablet, UNI®, a scenario library, and accessories for one great price. The commitment to providing innovative technology and value is still our principle today as it was over 70 years ago.

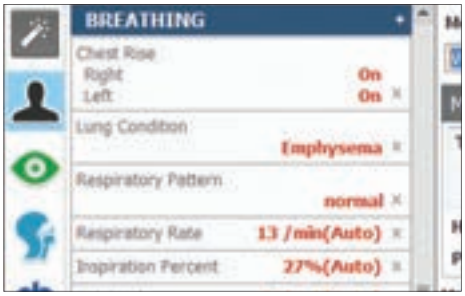
Proven reliable

Since 2004, our industry-leading HAL® series design and wireless technology has been proven effective and reliable by our users. The HAL® S3201's design is an upgrade to the HAL® S3000's Certificate of Airworthiness winning design issued by the U.S. Army.

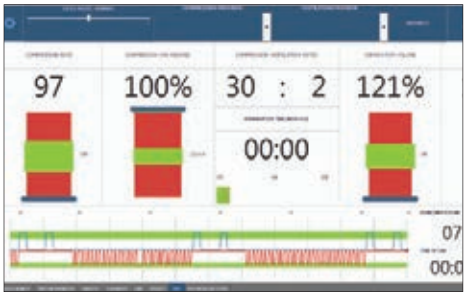
UNI® offers you intuitive patient controls, real-time monitoring, and automatic event tracking, making simulation simple and effective. UNI® controls our growing line of 15+ advanced patient simulators. Now you can easily operate any GAUMARD® products without retraining, saving you time and money.

Wireless tablet PC and UNI® simulator control software is included.

Touchscreen lets you easily update vitals, track interactions, and monitor changes using your finger or pen

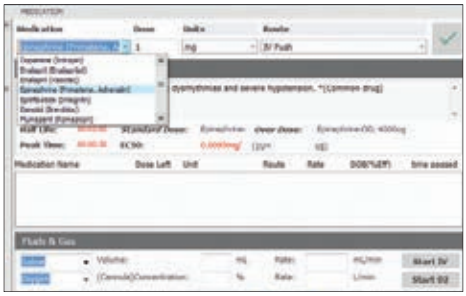


Run scenarios on-the-fly or let the powerful automatic control manage the patient's condition



eCPR™ - Monitor CPR quality metrics in real-time including rate and compression depth, no-flow time, and excessive ventilation

Intuitive scenario library helps you quickly find and launch the right scenario. Use our scenarios or modify them to create your own.



In the automatic operating mode, vital signs respond to medication rate, volume, route, standard and overdose, and drug interactions

Includes the new HAL® Simulation Learning Experiences package

The new HAL® 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 10 SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

- Acute Anterolateral Myocardial Infarction
- Acute Sepsis Related To Diabetic Ulcer
- Atrial Fibrillation
- COPD Exacerbation
- Diabetic Ketoacidosis
- Opioid Overdose
- Pulmonary Embolism
- Sepsis Related To Pneumonia
- Severe Sepsis
- Supraventricular Tachycardia

General
- Wireless and tetherless; fully responsive even while being transported
- Internal rechargeable battery provides up to 6 hrs. of tetherless operation

Neurologic
- Active Eyes; programmable blink rate, pupil size, and pupil reaction
- Severe or mild seizures
- Preprogrammed speech responses
- Wireless streaming voice; be the voice of HAL® and listen to replies

Airway
- Oral or nasal intubation: ETT, LMA, King LT™, i-gel®
- Laryngospasm, pharyngeal swelling, tongue edema
- Intubation depth detection
- Surgical airway: tracheostomy or needle cricothyrotomy
- Mainstem intubation
- Multiple upper airway sounds

Breathing
- Spontaneous breathing and programmable patterns
- Ventilation is measured and logged
- Gastric distension with excess BVM ventilation
- Select independent left, right, upper, and lower lung sounds
- Chest rise during assisted ventilation
- Tension pneumothorax and bilateral needle decompression sites
- Bilateral chest tube sites at 5th intercostal space

Circulation
- Normal and abnormal heart sounds, rates, and intensities
- 4-Lead ECG monitoring using real devices; 12-lead ECG capable
- eCPR sensors; chest compressions are measured and logged
- Monitor oxygen saturation using a real oximeter
- Measurable blood pressure with audible Korotkoff sounds
- Visible cyanosis
- Bilateral carotid, radial, brachial, femoral, popliteal, and pedal pulses
- Bilateral IV sites
- Optional virtual drug recognition
- Intraosseous access at tibia

Other
- Bowel sounds in four quadrants
- Male urinary catheterization with fluid return

HAL® S3101

S3101.PK

S3101 HAL® Adult Patient Simulator, Microsoft Surface Pro, UNI® license, UNI® Automatic Mode license, SLE scenario package, accessories, user manual. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge.

CO_2 Exhalation

S3101.078

Real CO_2 exhalation. 10 programmable levels of CO_2 output. Option only available at time of initial purchase.

12-Lead ECG

S3101.120

Train ECG interpretation and MI management using your real native 12-lead equipment. Select rhythms from the built-in library, design your own using the point-by-point PQRST wave editor. Train to improve MI diagnosis, management, and prognosis. Simply point-and-click on the 3D heart to generate an MI visible on a real 12-lead ECG reading.

Automatic Virtual Drug Recognition System

S3101.400R

Virtual drug recognition arm system.

GAUMARD Vitals™ Bedside Virtual Monitor

S3101.001.R2

GAUMARD Vitals™ bedside virtual monitor. One GAUMARD Vitals patient simulator license.

GAUMARD Vitals™ Portable Virtual Monitor

S3101.002

GAUMARD Vitals™ portable virtual monitor. One GAUMARD Vitals patient simulator license.

Trauma limbs

Amputated leg - **S3101.004**
Amputated arm - **S3101.005**

Wound kits

Emergency - **WK100**
Burn - **WK105**
Trauma - **WK110**
Casualty - **WK120**

Defib-pacing snaps

S3101.125

Modified defib cables

Philips® - **30080373B**
Physio LIFEPAK® - **30080375B**
Zoll® - **30080374B**

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 service plans available.

HAL® S3000

Wireless and Tetherless Prehospital and Nursing Patient Simulator

- Programmable airway, breathing, and circulation
- eCPR™ - CPR effectiveness monitoring
- Advanced surgical airway
- Real ECG monitoring and defibrillation
- Wireless and tetherless mobility for care in motion training
- Airworthiness Certified

HAL® is an effective simulation tool for training prehospital and nursing care students and professionals. Use HAL® to train individual and team skills at the point-of-injury, during transport, and in the hospital, in both real and simulated environments. HAL® is completely self-contained and wireless, making it easy to transport and to set up.

eCPR™ Training using real-time CPR quality metrics and smart coaching. Real $EtCO_2$ capability.

Train oral or nasal intubation: ETT, LMA, King LT, or via tracheostomy or needle cricothyrotomy.

IV access for bolus and infusion exercises.

Blood pressure can be taken using our realistic BP cuff, palpation, or auscultation methods.

Bilateral carotid, radial, brachial, femoral, and pedal pulses operate continuously. Pulse strengths vary with HAL's blood pressure, and pulses are synchronized with the ECG.

Includes wireless tablet PC and UNI® simulator control software.

HAL's physiological features allow learners to monitor and manage an infinite number of simulated conditions using real tools and medical devices. HAL's conductive skin regions support ECG monitoring in real-time, pacing, cardioversion, and defibrillation using real equipment.

Attach real electrodes and view HAL's ECG generated in real-time. HAL's ECG features physiologic variations in rhythm, never repeating textbook patterns

Here pacing therapy converts HAL's profound bradycardia into paced ventricular rhythm. HAL® can be paced anteriorly at the defibrillation sites

Includes the new HAL® Simulation Learning Experiences™ package

The new HAL® 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 10 SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

- Acute Anterolateral Myocardial Infarction
- Acute Sepsis Related To Diabetic Ulcer
- Atrial Fibrillation
- COPD Exacerbation
- Diabetic Ketoacidosis
- Opioid Overdose
- Pulmonary Embolism
- Sepsis Related To Pneumonia
- Severe Sepsis
- Supraventricular Tachycardia

The UNI® interface design is shared across our growing line of 15+ computer-controlled patient simulators, so you can easily operate any GAUMARD® product without retraining, thus saving your program valuable time and money.

Preconfigured and Ready
UNI® comes preloaded and preconfigured on the rugged 12" wireless tablet PC included with the package.

3D Patient Visualization Monitor
This real-time 3D view of the patient ensures you never lose track of provider/patient interaction during the simulation.

Scenario Designer
Create your own scenarios quickly and easily and share them with other UNI® users.

eCPR™
Monitor rate and compression depth, no-flow time, ventilation rate, and excessive ventilation; smart trainer features vocal cues and outputs performance reports.

Lab Report Designer
Generate and share simulated diagnostic lab results to enhance case fidelity and participant involvement.

Questionnaire Form Designer
Manage progress by easily creating interactive checklists to track participant objectives and post-simulation feedback.

Time-stamped event recording and reporting
The automated event tracking and interaction recorder ensures important events are always captured so you can focus on the action.

Provider Actions Tracker
The interactive "Actions" panel lets you carefully track additional team and individual provider actions to generate a comprehensive post-simulation log.

UNI® Control View Replay
The built-in recorder captures UNI's screen as data to allow your team to review the simulation from the operator's chair.

No annual software license fee
GAUMARD® is committed to providing the best value and to keep your program's operating costs down year after year.

Free software updates
Always stay up to date and take advantage of all the newest features at no additional cost.

Free webinar training and technical support
Sign up for monthly webinar sessions and become a UNI® expert.

General
- Wireless and tetherless; fully responsive even while being transported
- Internal rechargeable battery provides up to 6 hrs. of tetherless operation

Neurologic
- Active Eyes; programmable blink rate, pupil size, and pupil reaction
- Severe or mild seizures
- Preprogrammed speech responses
- Wireless streaming voice; be the voice of HAL® and listen to replies

Airway
- Oral or nasal intubation: ETT, LMA, King LT
- Programmable difficult airway: Laryngospasm, pharyngeal swelling, tongue edema
- Sensors detect depth of intubation
- Surgical airway: tracheostomy or needle cricothyrotomy
- Unilateral chest rise with right mainstem intubation
- Multiple upper airway sounds

Breathing
- Control rate and depth of respiration and observe spontaneous breathing
- Ventilation is measured and logged
- Gastric distension with excess BVM ventilation
- Select independent left, right, upper, and lower lung sounds
- Accommodates assisted ventilation including BVM and mechanical support
- Tension pneumothorax and bilateral needle decompression sites
- Bilateral chest tube sites at 5th Intercostal space
- Optional Real $EtCO_2$

Cardiac/circulation
- Normal and abnormal heart sounds, rates, and intensities
- ECG monitoring using real devices
- eCPR sensors: chest compressions are measured and logged
- Bilateral IV sites
- Measurable blood pressure with audible Korotkoff sounds
- Visible cyanosis
- Bilateral carotid, radial, brachial, femoral, popliteal, and pedal pulses

Other
- Bowel sounds in four quadrants
- Male urinary catheterization with fluid return

HAL® S3000

S3000.PK

S3000 HAL® Adult Patient Simulator, Microsoft Surface Pro, UNI® license, SLE scenario package, battery charger, BP cuff, surgical trachea kit, needle decompression sites, accessories, user manual. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

CO_2 Exhalation

S3000.078

Real CO_2 exhalation. 10 programmable levels of CO_2 output. Option only available at time of initial purchase.

12-Lead ECG

S3000.120

Train ECG interpretation and MI management using your real native 12-lead equipment. Select rhythms from the built-in library, design your own using the point-by-point PQRST wave editor. Train to improve MI diagnosis, management, and prognosis. Simply point-and-click on the 3D heart to generate an MI visible on a real 12-lead ECG reading.

UNI® Automatic Mode System

S3000.400R

Virtual drug recognition arm system. UNI® Automatic Mode license.

Defib-pacing snap sites

S3000.125

Option only available at time of initial purchase.

GAUMARD Vitals™ Bedside Virtual Monitor

S3000.001.R2

GAUMARD Vitals™ bedside virtual monitor. One GAUMARD Vitals patient simulator license.

GAUMARD Vitals™ Portable Virtual Monitor

S3000.002

GAUMARD Vitals™ portable virtual monitor. One GAUMARD Vitals patient simulator license.

Trauma limbs

Amputated leg - **S3000.004**
Amputated arm - **S3000.005**

Wound kits

Emergency - **WK100**
Burn - **WK105**
Trauma - **WK110**
Casualty - **WK120**

Intraosseous leg

S3000.028R

8 tibia bones and skins

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. One-Year Limited Warranty. Extended service plans available.

HAL® S1000

Emergency Patient Simulator

- Intubatable and programmable airway
- Defibrillate, cardiovert, and pace using real equipment
- Needle decompression
- eCPR™ - CPR effectiveness monitoring and smart trainer
- Streaming voice
- Wireless and tetherless

This realistic, full-body, computer interactive simulator is the perfect tool for simulating a wide range of advanced life-saving skills in medical emergencies. HAL® S1000 offers advanced simulation technology at an affordable price.

Perform chest compression and ventilations

Compress the chest hard and fast; feel the realistic recoil after each compression.

Pulse sites synchronize with BP and heart rate

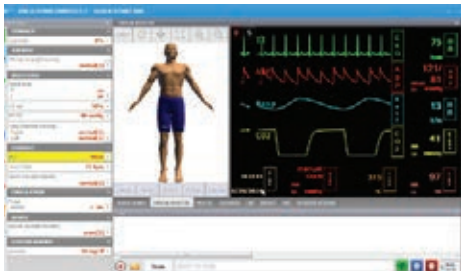
Carotid, femoral, and radial pulses operate continuously and are synchronized with the ECG.

Intubatable and programmable airway

Use NP/OP/ET/LMA tubes. Program tongue edema and laryngospasm.

Defibrillate, cardiovert, & pace using real equipment

Defibrillate, cardiovert, and pace using real EMS equipment and see HAL's ECG on your real AED. You can even select a 12-lead strip recording during the scenario.

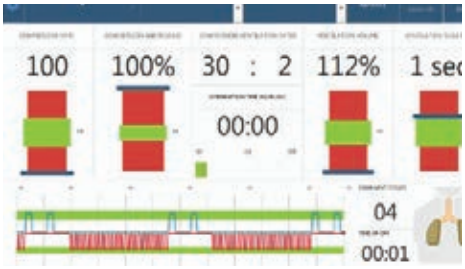


Includes laptop PC

HAL® includes the powerful UNI® control interface. Change conditions such as heart rate and blood pressure immediately or specify smooth transitions.

Wireless and Tetherless

HAL® is completely self-contained, wireless, and fully operational on battery power for up to 6 hours.



Measure compressions and ventilations

Allows instructor to assess the quality of CPR being performed by providers.

IV access

Bolus or intravenous infusions and fluid drain.

View dynamic ECG

View dynamic ECG on a real ECG monitor. AED shown converting HAL's ventricular fibrillation.

Multiple heart sounds

The simulator is equipped with multiple realistic heart rates and cardiac rhythms and heart sounds.

Needle decompression

HAL® features palpable ribs to locate 2nd intercostal space for bilateral needle decompression.

Surgical trachea

Realistic surgical trachea allows tracheostomy or needle cricothyrotomy.

CPR quality and performance feedback

- Time to CPR
- Compression Depth/Rate
- Chest Recoil
- Compression Interruptions
- Ventilation Rate
- Excessive Ventilation
- Time to defibrillation

The wireless tablet option is ideal for training CPR with visual and audio feedback:

Includes the new HAL® Simulation Learning Experiences package

The new HAL® 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 10 SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

- Acute Anterolateral Myocardial Infarction
- Acute Sepsis Related To Diabetic Ulcer
- Atrial Fibrillation
- COPD Exacerbation
- Diabetic Ketoacidosis
- Opioid Overdose
- Pulmonary Embolism
- Sepsis Related To Pneumonia
- Severe Sepsis
- Supraventricular Tachycardia

Features

- Wireless streaming voice; be the voice of HAL®
- 10 preprogrammed scenarios
- UNI® laptop PC included
- Use our preprogrammed scenarios, modify them, or create your own
- Access the "Details" page and jump between physiologic states in response to the interventions of caregivers
- Change conditions such as heart rate and blood pressure immediately or specify smooth transitions
- Link "Palette" items to build a linear or branching scenario
- Pause the scenario or jump to the next critical decision point
- Oral or nasal intubation
- Program tongue edema or laryngospasm
- Use an ET tube or LMA
- Sensors detect depth of intubation
- Unilateral chest rise with right mainstem intubation
- Multiple upper airway sounds synchronized with breathing
- Realistic surgical trachea allows tracheostomy or needle cricothyrotomy
- Control rate and depth of respiration and observe chest rise
- Ventilations measured and logged
- Gastric distension with excess BVM ventilation
- Select independent left and right lung sounds
- Chest rise and lung sounds are synchronized with selectable breathing patterns
- Supports assisted ventilation, including BVM.
- Unilateral chest rise simulates tension pneumothorax
- Multiple lung and breath sounds with volume control
- Multiple heart sounds, rates, and intensities
- Chest compressions are measured and logged
- Blood pressure can be taken on left arm using a modified cuff, palpation, or auscultation. Korotkoff sounds audible between systolic and diastolic pressures
- Bilateral needle decompression at second intercostal
- Bilateral carotid and femoral pulses, plus left radial pulse operate continuously
- Pulse strengths vary with HAL's blood pressure, and pulses are synchronized with the ECG
- Detects placement of oxygen saturation sensor on index finger
- HAL® has conductive skin regions so you can apply real electrodes and AED pads
- Defibrillate, cardiovert, and pace using real EMS equipment and see HAL's ECG on your AED
- Program HAL's response to defibrillation
- View dynamic ECG, in your real ECG monitor
- Links with optional audio-visual system that integrates the event log with feeds from camera and the simulated patient monitor for comprehensive debriefing
- Programmable bowel sounds
- Programmable central cyanosis

HAL® S1000

S1000.M2.PK

S1000 HAL® Adult Patient Simulator, Laptop PC, UNI® license, SLE scenario package, battery charger, BP cuff, surgical trachea kit, needle decompression sites, accessories, user manual. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

UNI® Tablet PC Upgrade

S1000.215

Upgrade HAL's control laptop to a lightweight tablet PC for increased mobility. Package includes: Microsoft Surface Pro, stylus pen, and rugged protective case. Option only available at time of initial purchase.

CO_2 Exhalation

S1000.078

Real CO_2 exhalation. 10 programmable levels of CO_2 output. Option only available at time of initial purchase.

Urinary Catheterization

S1000.070

Internal bladder and catheterizable male genitalia. Option only available at time of initial purchase.

GAUMARD Vitals™ Bedside Virtual Monitor

S1000.001.R2

GAUMARD Vitals™ bedside virtual monitor. One GAUMARD Vitals patient simulator license.

GAUMARD Vitals™ Portable Virtual Monitor

S1000.002

GAUMARD Vitals™ portable virtual monitor. One GAUMARD Vitals patient simulator license.

GAUMARD Vitals™ Extended Screen

S1000.001

LCD monitor and (1) GAUMARD Vitals Patient License.

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. One-Year Limited Warranty. Extended service plans available.

TRAUMA HAL® SERIES

Rugged, Resilient, and Tetherless

- Durable and splash-proof
- Quadruple trauma limbs and bleeding wounds
- BleedSmart™ Real-time blood loss monitoring
- eCPR™ – CPR effectiveness monitor and trainer
- Wireless and tetherless up to 900 ft.
- Up to 10 hours of battery life
- Includes TRAUMA HAL® Simulation Learning Experiences™ scenario package

The ultimate simulation solution for emergency care training.

Trauma HAL® is specifically engineered to meet the training needs of first responders, EMS, and in-hospital emergency teams. Trauma HAL® helps teams engage in true-to-life training exercises to improve emergency preparedness, response, and patient care.

Point-of-injury

Transport

Emergency

Med-surg

Value

Our intuitive UNI® software lets you easily manage HAL's vitals using on-the-fly controls and interactive scenarios, while "automatic operating mode" handles the effects of medications so that you can focus on the learners' actions.

A turnkey solution

HAL® is fully equipped and ready for use. He includes a wireless control tablet, UNI®, a virtual patient monitor, 10 SLE's, and a Facilitator's Guidebook for one great price.

Rugged design

Our industry-leading HAL® series design and wireless technology has been proven effective and reliable. The HAL® S3040 is the evolution of the HAL® S3000 design awarded the certificate of airworthiness by the US Army.

Field-tested

Trauma HAL® was developed based on the same proven technology found in the HAL® S3000, independently tested by United States Aeromedical Research Laboratory.

True-to-life anatomy and physiology.

Trauma HAL® features anatomically accurate landmarks and proportions, and a host of programmable vital signs to facilitate the development of skills transferable to real situations.

Train using real patient monitors and sensors.

Monitor and provide care using native equipment. HAL® supports real ECG monitors, capnometers, oximeters, BP cuffs, and defibrillators, just like a real patient.

Deliver effective wound care and trauma management training.

BLEEDSMART™ technology simulates realistic bleeding consistent with heart rate and blood pressure. Axilla and groin wounds respond to applied pressure, packing, and wound dressing. Trauma limbs stop bleeding when a tourniquet is properly applied.

Train in situ with wireless and tetherless technology.

HAL's tetherless and wireless design allows for point-of-injury care, transport, and patient handoff training. HAL® is self-contained, quiet, and fully operational on battery power for up to 10 hours.

Independent aeromedical research laboratory tests conducted on comparable HAL® S3000 simulator

Test	Mil standard	Description	Comment
Vibration	810F Method 514.5	3 Axis Testing	Simulates Vibrations in Jet/UH-60/C-130
EMI	461E Methods CE101/102 and RE 102	Conducted and Radiated Emissions	To Assure that HAL® does not Interfere with Avionics
Aircraft Chamber	Use Test Aircraft	100dB Environment	Simulate High Noise Levels Inside Military Aircraft
High Temperature	810F Method 501.4	Up to 49° C / 120° F	
Low Temperature	810F Method 501.4	Down to 0° C / 32° F	
Humidity	810F Method 501.4	29.5° C / 85° F and 95% Humidity	Hot and Wet Conditions
Altitude + Emergency Decompression	810F Method 500.4	Altitude and Emergency Decompression Testing	Alt. to 18,000 ft. Decomp. at 45,000 ft./3 cycles
Explosive Atmosphere	810F Method 511.4	Verify Operation in Explosive Fuel-Air Atmosphere	
Flight Testing	Use Test Aircraft	Rotary and Fixed Wing	Take off/landing; Banking; Flight; Others

UNI® Software

Unified Simulator Control Platform - UNI's interface design is shared across our growing line of 15+ computer-controlled patient simulators, so you can easily operate any GAUMARD® products without retraining, thus saving your program valuable time and money.

Preconfigured and ready
UNI® comes preloaded and preconfigured in the rugged 12" wireless tablet PC included with the package.

3D Patient Visualization Monitor
This real-time 3D view of the patient ensures you never lose track of provider/patient interaction during the simulation.

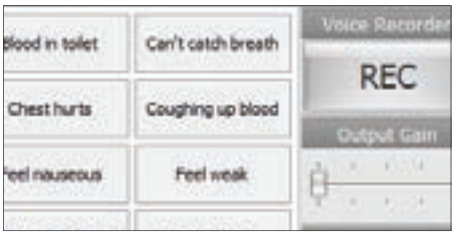
Unified Scenario Designer
Create your own scenarios quickly and easily and share them with other UNI® users and between GAUMARD® products.

Time-stamped event recording and reporting
The automated event tracking and interaction recorder ensures important events are always captured so you can focus on the action.

Control View Replay
The built-in recorder captures UNI's screen as data so you can review the simulation from the operator's chair.

No annual software license fee
GAUMARD® is committed to providing the best value and keeping your program's operating costs down year after year.

Free Software Updates
Always stay up to date and take advantage of all the newest features at no additional cost.



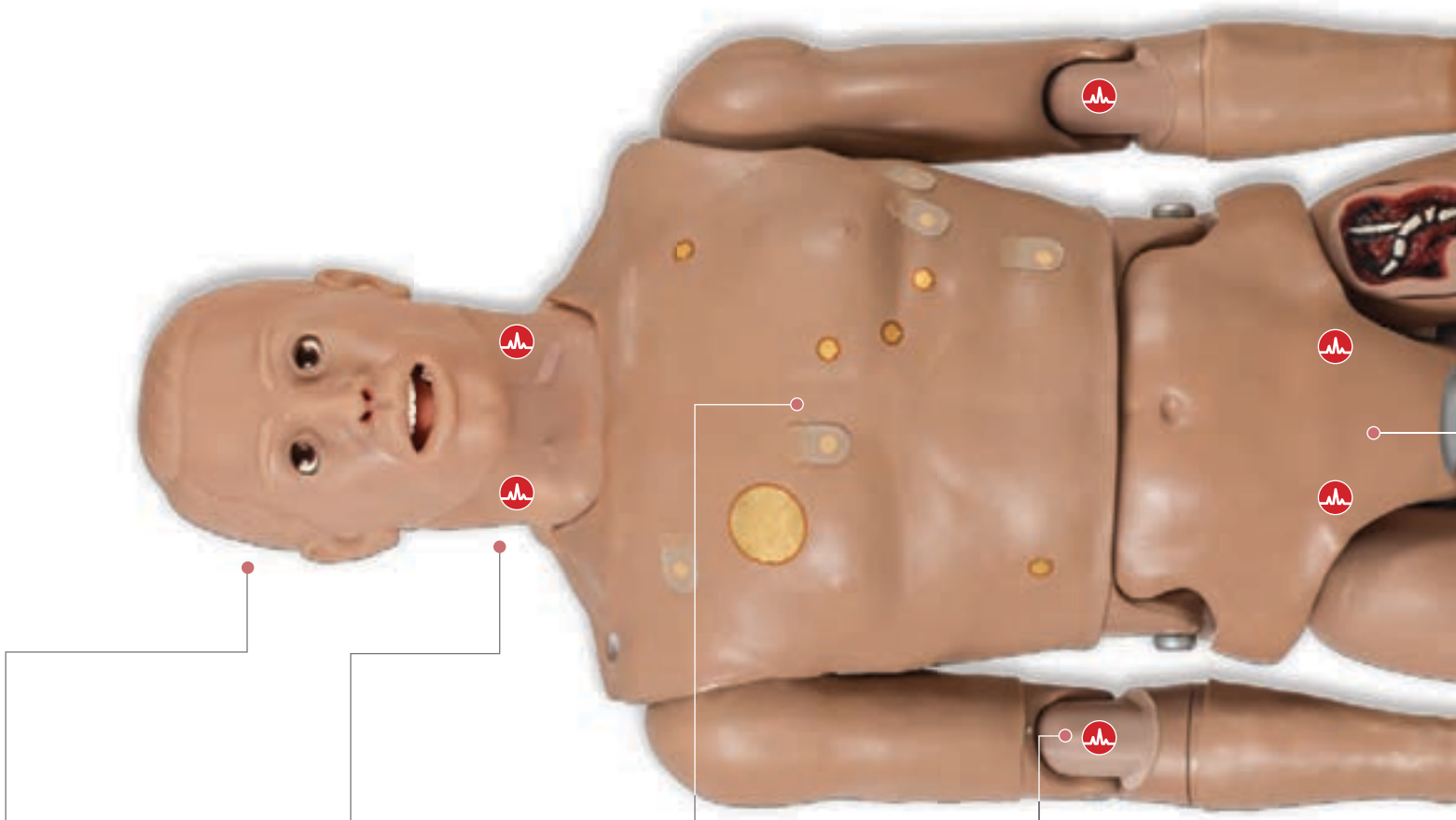
Wireless streaming voice
Be the voice of HAL® and hear caregiver responses. Create and store vocal responses or select from 80+ pre-recorded phrases.

eCPR™ Monitoring
Monitor and assess CPR performance in real-time, simulate perfusion dependent on effectiveness, and export performance reports for debriefing.

Includes TRAUMA HAL® Simulation Learning Experiences™ scenario package.

The new TRAUMA HAL® 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 10 SLEs complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

- Airway trauma secondary to an IED detonation
- Acute respiratory distress syndrome secondary to motor vehicle crash
- Blast injury in a civilian setting
- Potential concussion or hypovolemia
- Fall-related injuries
- Gunshot wound to the chest
- Gunshot wound to the leg
- Traumatic limb amputation secondary to motorcycle crash
- Traumatic limb amputation and possible traumatic brain injury
- Traumatic multiple limb amputations with possible traumatic brain injury

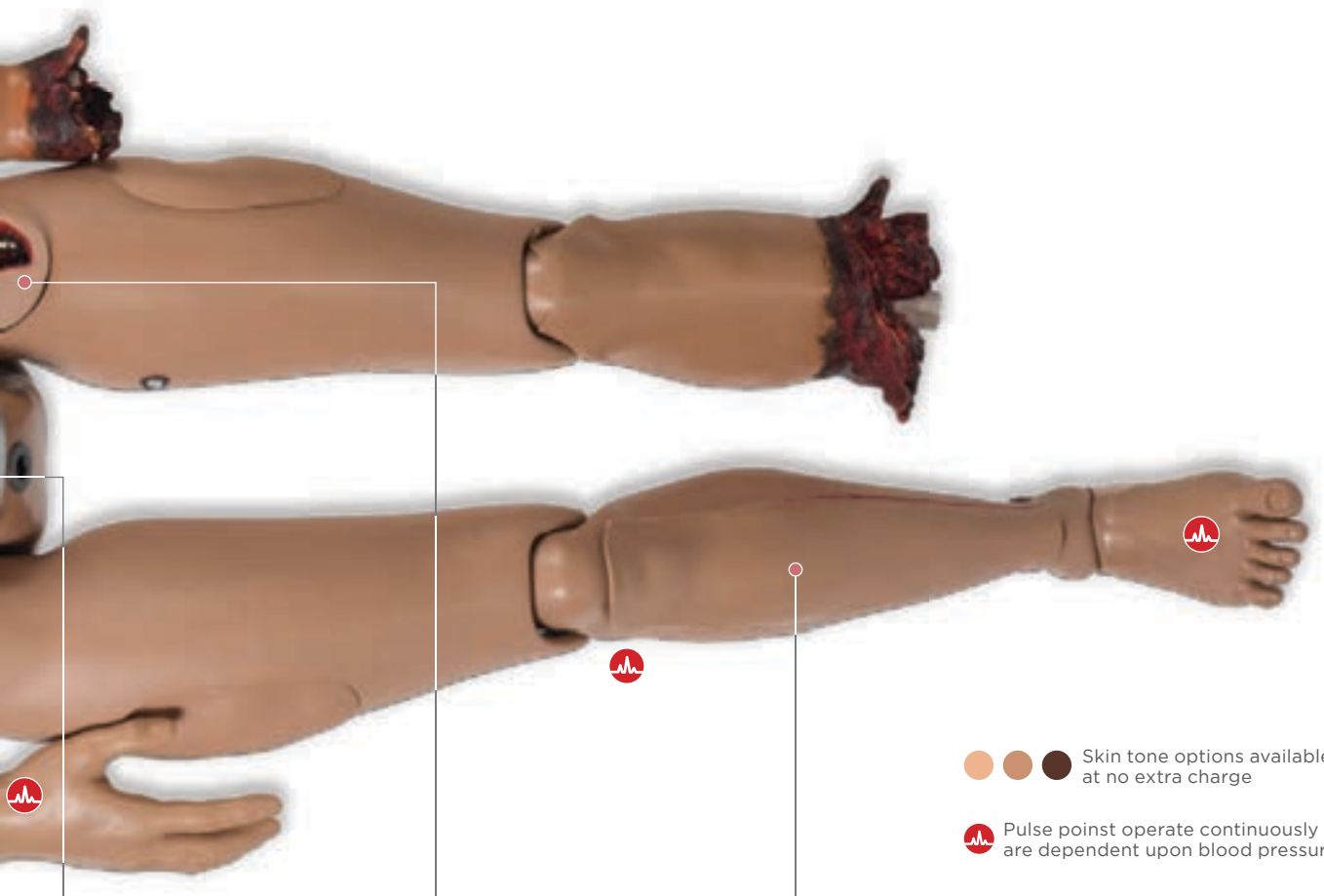


- **Splash-proof and rugged**
  Fully functional during soap and water decon spray.
- **Liquid suction**
  Practice gastric liquid suctioning techniques.
- Blinking eyes and photosensitive pupils
- Secretions: ear, eyes, and mouth
- Central cyanosis
- Wireless streaming voice

- **Seizures and secretions**
  Programmable fluid secretion at ears, eyes, and mouth.
- **Difficult airway**
  Programmable tongue edema, laryngospasm, and pharyngeal swelling.
- **Surgical airway**
  Cricothyrotomy, tracheotomy, and tracheal hook exercises
- $EtCO_2$ exhalation option
- Mainstem intubation
- Gastric suctioning

- **Chest tube insertion**
  Supports bilateral chest tube placement.
- **Needle decompression**
  Needle insertion detection and audible hiss.
- Heart and lung sounds
- Spontaneous chest rise
- Blood pressure monitoring
- eCPR™ Real-time feedback
- 4-lead ECG sites
- 12-lead ECG upgrade

- **ECG, defib, and pacing**
  Defib and pace using real equipment and live energy.
- **Palpable pulses**
  Bilateral carotid, radial, brachial, femoral, popliteal, and pedal pulses.
- Pulse oximetry
- Peripheral IV access
- Bilateral antecubital IV access
- Sternal IO access



Skin tone options available at no extra charge

Pulse poinst operate continuously and are dependent upon blood pressure

Model S3040.100. Product shown with optional NIBP and 12-lead ECG upgrade.

- **eCPR™ Real-time feedback**
  Monitor CPR quality in real-time.
- **Supports real monitors**
  ECG monitors, capnometers, oximeters, BP cuffs, and defibrillators.
- Male urinary catheterization
- Bowel sounds in four quadrants
- Bilateral deltoid and quadriceps IM sites

- **Interchangeable trauma limbs**
  Includes interchangeable healthy and trauma limbs
- **Axilla and groin wounds**
  Bleeding wound sites respond to applied pressure.
- Pressure-sensitive femoral artery
- Blood pressure-dependent bleeding rate

- **Tourniquet application**
  Blood pressure and heart rate dependent bleeding.
- **Sternal and tibial IO access**
  IO sites support infusion and sampling.
- Internal 1.5-liter blood reservoir

- **Wireless**
  Fully operational on internal battery for up to 10 hours.
- **Tetherless**
  All operating components and blood reservoirs stored inside the body
- **Reinforced limb joints**
  Rugged shoulder and hip joints allow dragging and carrying.

TRAUMA HAL® Series | Rugged, Resilient, and Tetherless

	Features	Trauma HAL® S3040.100	Trauma HAL® S3040.50	Trauma HAL® S3040.10
General	Age	Adult	Adult	Adult
	Palpable landmarks including ribs and xiphoidal process	✔	✔	✔
	Ruggedized, articulating joints for dragging or carrying	✔	✔	✔
	Male genitalia	✔	-	-
	Water resistance	Spray	Spray	Spray
	Wireless and tetherless; all operating components are contained inside the patient simulator	✔	✔	✔
	Battery life	10 hours	8 hours	10 hours
	Available in light, medium, or dark skin tone at no extra charge	✔	✔	✔
Neurological	Programmable blink rate and eye dilation	✔	-	-
	Programmable seizure/convulsion intensity	✔	-	-
	Eye, ear, and mouth secretions	✔	-	-
	Streaming voice	✔	o	-
	Preprogrammed speech responses	✔	✔	✔
Airway	Realistic airway with teeth, tongue, epiglottis, and vocal cords	✔	✔	✔
	Articulating neck and jaw for head tilt/chin lift/jaw thrust	✔	✔	✔
	Programmable airway sounds	✔	✔	✔
	Airway complication: laryngospasms	✔	✔	-
	Tongue edema and pharyngeal swelling	✔	-	-
	Surgical airway	✔	✔	-
	Oral and nasal intubation	✔	✔	✔
	Tracheal suctioning (fluids)	✔	✔	✔
Respiratory	Spontaneous chest rise (automatic)	✔	✔	-
	Bilateral lung expansion with bag valve mask ventilation	✔	✔	✔
	Ventilations are measured and logged	✔	✔	✔
	Unilateral chest rise with right mainstem intubation	✔	✔	✔
	Programmable unilateral chest rise	✔	✔	-
	Needle decompression	✔	✔	-
	Anterior upper and lower lung sounds	✔	✔	-
	Bilateral chest drain	✔	✔	-
	Real CO_2 exhalation	o	o	-
Circulation	Central cyanosis	✔	-	-
	Bilateral intravenous training arm	✔	✔	-
	Oxygen saturation measurement with real instruments	✔	-	-
	Measurable BP using real automatic monitor	o	-	-
	Measurable BP using real sphygmomanometer	✔	✔	-
	Korotkoff sounds	✔	✔	-
	Spontaneous pulses	✔	✔	✔
	- Bilateral carotid	✔	✔	✔
	- Bilateral brachial	R only	-	-
	- Bilateral brachial cubital	✔	-	-
	- Bilateral radial	✔	✔	R only
	- Bilateral femoral	✔	✔	✔
	- Bilateral popliteal	✔	-	-
	- Bilateral pedal	✔	✔	-
	Femoral artery pressure sensor	✔	✔	✔
	Intraosseous access at sternum	✔	-	-
	Intraosseous access at right tibia	✔	✔	-
	Bilateral intramuscular injection sites in quadriceps and deltoids	✔	✔	✔

o Optional Add-On/Accessory

	Features	Trauma HAL® S3040.100	Trauma HAL® S3040.50	Trauma HAL® S3040.10
Cardiac	Chest compression depth and rate measured and logged	✓	✓	✓
	Effective compressions generate palpable pulses	✓	✓	✓
	Defibrillate and pace using real devices and live energy	✓	✓	✓
	Heart sounds	✓	✓	-
	12-Lead ECG (MI model + ECG designer)	o	o	-
	4-Lead ECG	✓	✓	-
Other	Urinary catheterization	✓	-	-
	Esophageal / gastric suctioning	✓	✓	✓
	Bowel sounds	✓	-	-
	Gastric distension with excessive BVM	✓	✓	✓
Trauma	Trauma limbs with bleeding	✓	✓	✓
	- Bilateral trauma arm	✓	Left only	Left only
	- Bilateral trauma leg	✓	Left only	Left only
	Pressure-sensitive axillary trauma wound	✓	-	-
	Pressure-sensitive groin trauma wound	✓	✓	✓
	Healthy lower arms and legs	✓	✓	✓
	Internal 1.5 Liter blood reservoir	✓	✓	✓
	Auto-filling blood reservoir	✓	✓	✓
Control and accessories	Simulator control software license	✓ UNI®	✓ UNI®	✓ OMNI®2
	Control interface	✓ Microsoft Surface Pro	✓ Microsoft Surface Pro	✓ Handheld Tablet
	Simulation Learning Experiences™ scenario package	✓	✓	✓
	UNI® Automatic Mode license	o	-	-
	GAUMARD Vitals™ Portable patient monitor	o	o	o
	GAUMARD Vitals™ Bedside patient monitor	o	o	o
	Rolling travel case	✓	✓	✓

Trauma HAL®

S3040.100.PK

S3040.50.PK

S3040.10.PK

12-Lead ECG

S3040.100.120

S3040.50.120

Use 12-lead monitoring to identify heart damage. Illustrate different presentations of myocardial infarctions that can be detected by a real ECG monitor. Includes an interactive model of the heart that allows you to create the occlusion point and customize the age of the infarction.

UNI® Automatic Mode

S3040.100.600

Increase realism during clinical simulations by automating physiologic responses to medications, blood loss, and vital sign changes. Includes a library of medications and drug recognition capabilities.

CO_2 Exhalation

S3040.100.078

Real CO_2 exhalation. 10 programmable levels of CO_2 output. Option only available at time of initial purchase.

GAUMARD Vitals™ Portable Virtual Monitor

S3040.100.002

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

Consumables

Surgical Trachea Inserts

S3040.100.035

Set of five inserts.

Trachea Skin Covers

S3040.100.122

Set of ten covers.

Cricothyroid Membranes

S3040.100.037.R2

Set of ten membranes.

IO Sternal Access Inserts

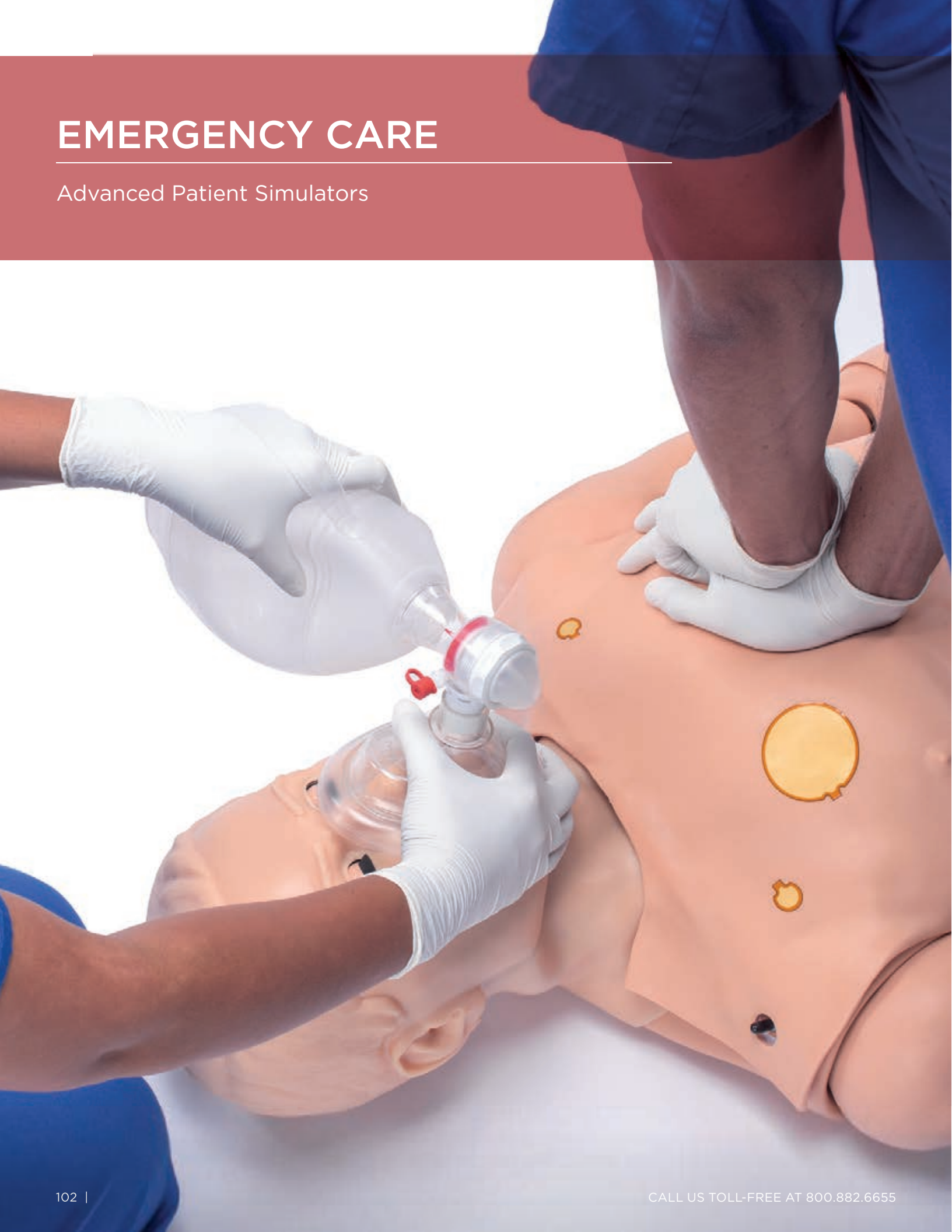
S3040.100.121

Blood Concentrate

GU.080

EMERGENCY CARE

Advanced Patient Simulators



Our CODE BLUE® III ALS training simulators allow you to teach high-performance, quality CPR by providing you with real-time feedback on the CPR elements that make a difference.

CODE BLUE® III Adult

CODE BLUE® III Adult with OMNI® 2

S300.100.250.PK

CODE BLUE® III Adult with UNI® Tablet PC

S300.100.215.PK

Skin tone options available at no extra charge

CODE BLUE® III Five Year

CODE BLUE® III Five Year with OMNI® 2

S300.105.250.PK

CODE BLUE® III Five Year with UNI® Tablet PC

S300.105.215.PK

Skin tone options available at no extra charge

CODE BLUE® III Newborn

CODE BLUE® III Newborn with OMNI® 2

S300.110.250.PK

CODE BLUE® III Newborn with UNI® Tablet PC

S300.110.215.PK

Skin tone options available at no extra charge

Introducing The New Wireless CODE BLUE® III Adult

The new CODE BLUE® III Adult now offers even more value. Thanks to its new all-wireless design, now you can easily facilitate realistic and immersive emergency simulation scenarios in situ, in transport, or in the lab without interruption.

OMNI® 2 wireless control interface included

The new OMNI® 2 is an easy-to-use, wireless interface designed to place the best tools to drive simulation-based exercises right in the palm of your hand.

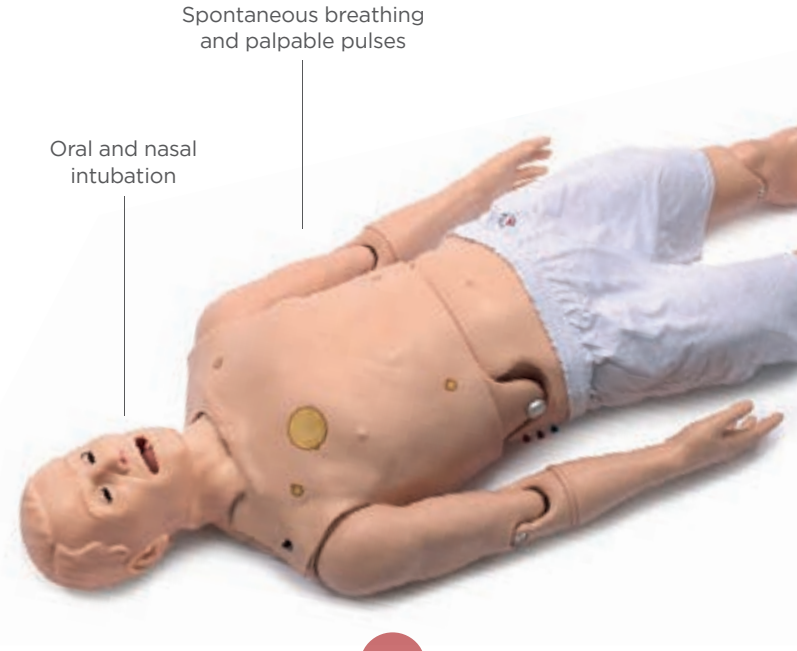
- Intuitive touchscreen interface with built-in wireless connectivity
- Make changes on-the-fly or trend them over time
- Event Log records participant actions, vital signs changes, and input notes to support debriefing

OMNI® 2 real-time eCPR™ feedback

Monitor CPR quality metrics in real-time

- » Time to CPR
- » Compression Depth/Rate
- » Chest Recoil
- » Compression Interruptions
- » Ventilation Rate
- » Excessive Ventilation

- Interactive checklists let you easily track provider actions during the exercise
- Export CPR performance reports for debriefing



CPR feedback interface elements are optimized for coaching and self-paced learning

Realistic airway with tongue, visible vocal cords, trachea, and esophagus supports oral and nasal intubation

Color and vital signs respond to hypoxic events and interventions

Connect real electrodes to the conductive skin sites and monitor ECG using real medical equipment

Virtual patient monitor support

Add the optional GAUMARD Vitals™ virtual patient monitor to enhance realism and exercise a broader range of clinical skills.

- Simulate 20+ dynamic numerical parameters and waveforms
- Customizable layout can be configured to simulate the look and feel of a variety of real patient monitors
- Programmable high/low alarms
- Built-in virtual defibrillator
- Touchscreen enabled controls
- Links wirelessly to the patient simulator's control interface

Virtual patient monitor sold separately.
Product model may vary from the one shown.

CODE BLUE® III Adult Features

- Wireless and tetherless design; fully operational in transit
- Available with an OMNI® 2 or UNI® control tablet
- Realistic airway with tongue, visible vocal cords, trachea, and esophagus
- Supports oral and nasal intubation using standard devices
- Head-tilt, chin-lift, and jaw-thrust
- Supports bag-valve-mask-ventilation
- Sensors detect and log endotracheal tube placement in the airway
- Visible gastric distention with esophageal intubation or excessive ventilation
- Variable cyanosis intensities simulate hypoxic events and effective interventions
- Audible vocal responses and sounds include: complaints, replies, gagging, cough, gasping, and more
- Automatic breathing with variable respiratory patterns include agonal breathing and gasping
- Built-in compressor allows for the continuous operation of chest rise and pulses
- Bilateral lung expansion with realistic chest rise during assisted ventilation
- Unilateral chest rise with right mainstem intubation
- Bilateral lung sounds include wheezing, crackles, and squeaks
- Ventilations and chest compressions are measured and logged in real-time
- Intravenous access on the right arm
- Intraosseous access at right tibia
- Conductive skin regions allow for ECG monitoring using real equipment
- Cardiac rhythms are synchronized with ECG, selectable heart sounds, and palpable pulses
- Defibrillate, pace, and cardiovert using real energy and devices
- Palpable carotid, brachial, radial, and femoral pulses
- BP auscultation in left arm
- Auscultate Korotkoff sounds between systolic/diastolic pressures
- Detects oximeter sensor placement on the left index finger
- Includes internal battery and charger

CODE BLUE® III Adult with OMNI® 2

S300.100.250.PK

CBIII Adult patient simulator, OMNI® 2 tablet, OMNI® Link, filling kits, battery charger, accessories, user Guide, and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge.

CODE BLUE® III Adult with UNI®

S300.100.215.PK

CBIII Adult Patient Simulator, UNI® tablet PC, filling kits, battery charger, accessories, and user guide. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending

GAUMARD Vitals™ Bedside Virtual Monitor

S300.100.001.R2

GAUMARD Vitals™ bedside virtual monitor. One GAUMARD Vitals patient simulator license.

GAUMARD Vitals™ Portable Virtual Monitor

S300.100.002

GAUMARD Vitals™ portable virtual monitor. One GAUMARD Vitals patient simulator license.

Modified defib cables

Philips® **- 30080373B**
Physio LIFEPAK® **- 30080375B**
Zoll® **- 30080374B**

Transport case

S300.100.060

Soft transport case with wheels for CODE BLUE® III adult patient simulator.

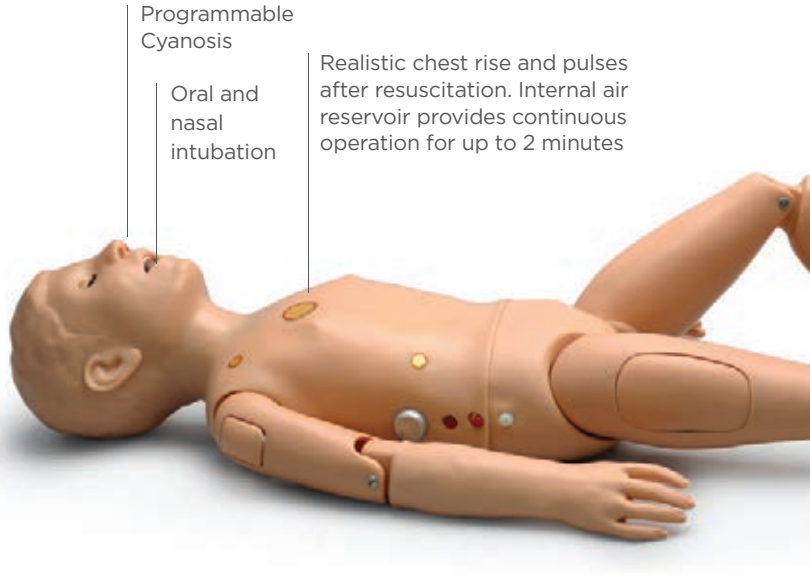
Introducing The New Wireless CODE BLUE® III Pediatric

The new CODE BLUE® III Pediatric features a new wireless design to support immersive emergency simulation scenarios in situ, in transport, or in the lab.

OMNI® 2 wireless control interface included

The new OMNI® 2 is an easy-to-use, wireless interface designed to place the best tools to drive simulation-based exercises right in the palm of your hand.

- Intuitive touchscreen interface with built-in wireless connectivity
- Make changes on-the-fly or trend them over time
- Event Log records participant actions, vital signs changes, and input notes to support debriefing



OMNI® 2 real-time eCPR™ feedback

Monitor CPR quality metrics in real-time

- » Time to CPR
- » Compression Depth/Rate
- » Chest Recoil
- » Compression Interruptions
- » Ventilation Rate
- » Excessive Ventilation

- Interactive checklists let you easily track provider actions during the exercise
- Export CPR performance reports for debriefing

CPR feedback interface elements are optimized for coaching and self-paced learning

Connect real electrodes to the conductive skin sites and monitor ECG using real medical equipment

Conductive skin sites permit defibrillation, cardioversion, and pacing using real medical equipment

Color and vital signs respond to hypoxic events and interventions (central cyanosis)

Virtual patient monitor support

Add the optional GAUMARD Vitals™ virtual patient monitor to enhance realism and exercise a broader range of clinical skills.

- Simulate 20+ dynamic numerical parameters and waveforms
- Customizable layout can be configured to simulate the look and feel of a variety of real patient monitors
- Programmable high/low alarms
- Built-in virtual defibrillator
- Touchscreen enabled controls
- Links wirelessly to the patient simulator's control interface

Virtual patient monitor sold separately. Product model may vary from the one shown.

CODE BLUE® III Pediatric Features

- Wireless communication
- Built-in rechargeable battery
- Available with an OMNI® 2 or UNI® control tablet
- Vocal responses and sounds include complaints, replies, gagging, cough, gasping, and more
- Realistic airway with tongue, visible vocal cords, trachea, and esophagus
- Supports oral and nasal intubation using an endotracheal tube, and other standard medical devices
- Sensors detect depth of intubation
- Unilateral chest rise with right mainstem intubation
- (CPR) Chest compression and ventilation performance sensors
- Realistic chest cavity and recoil
- Chest compressions generate palpable pulses
- Bilateral lung expansion and realistic chest rise during bag-valve-mask (BVM) ventilation
- Visible gastric distension with excessive ventilation
- Refillable internal air reservoir provides spontaneous (automatic) chest rise and pulses after resuscitation for up to 2 minutes
- Defibrillate, cardiovert, and pace using real devices and adjuncts
- Connect real electrodes to the conductive skin sites and monitor ECG using real medical equipment
- Palpable carotid, brachial, radial, and femoral pulses
- Auscultate heart and lung sounds
- Programmable central cyanosis simulates hypoxic events and effective interventions
- Measurable blood pressure with audible Korotkoff sounds
- Oximeter sensor placement detection on the left index finger
- Intraosseous access at right tibia
- IV access for medication infusion
- Intramuscular injection sites in deltoids and quadriceps for placement exercises

CODE BLUE® III Pediatric with OMNI® 2

S300.105.250.PK

CBIII Pediatric patient simulator, OMNI® 2 tablet, OMNI® Link, filling kits, battery charger, accessories, user Guide, and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge.

CODE BLUE® III Pediatric with UNI®

S300.105.215.PK

CBIII Pediatric Patient Simulator, UNI® tablet PC, filling kits, battery charger, accessories, and user guide. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending

GAUMARD Vitals™ Bedside Virtual Monitor

S300.105.001.R2

GAUMARD Vitals™ bedside virtual monitor. One GAUMARD Vitals patient simulator license.

GAUMARD Vitals™ Portable Virtual Monitor

S300.105.002

GAUMARD Vitals™ portable virtual monitor. One GAUMARD Vitals patient simulator license.

Modified defib cables

Philips® - **30080373B**
Physio LIFEPAK® - **30080375B**
Zoll® - **30080374B**

Transport case

S300.105.060

Soft transport case with wheels for CODE BLUE® III pediatric patient simulator.

Introducing The New Wireless CODE BLUE® III Newborn

The new wireless CODE BLUE® III Newborn offers the best value in neonatal resuscitation simulation-based learning.

OMNI® 2 wireless control interface included

The new OMNI® 2 is an easy-to-use, wireless interface designed to place the best tools to drive simulation-based exercises right in the palm of your hand.

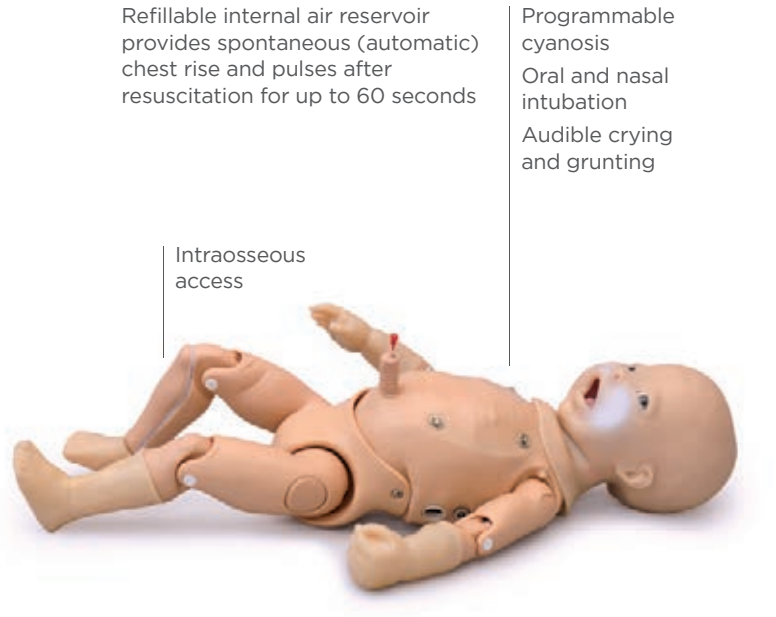
- Intuitive touchscreen interface with built-in wireless connectivity
- Make changes on-the-fly or trend them over time
- Event Log records participant actions, vital signs changes, and input notes to support debriefing

OMNI® 2 real-time eCPR™ feedback

Monitor CPR quality metrics in real-time

- » Time to CPR
- » Compression Depth/Rate
- » Chest Recoil
- » Compression Interruptions
- » Ventilation Rate
- » Excessive Ventilation

- Interactive checklists let you easily track provider actions during the exercise
- Export CPR performance reports for debriefing



CPR feedback interface elements are optimized for coaching and self-paced learning

Connect real electrodes to the conductive skin sites and monitor ECG using real medical equipment

Color responds to hypoxic events and interventions (healthy, mild cyanosis, severe cyanosis)

Chest compression and ventilation sensors track and log provider CPR performance

Virtual patient monitor support

Add the optional GAUMARD Vitals™ virtual patient monitor to enhance realism and exercise a broader range of clinical skills.

- Simulate 20+ dynamic numerical parameters and waveforms
- Customizable layout can be configured to simulate the look and feel of a variety of real patient monitors
- Programmable high/low alarms
- Built-in virtual defibrillator
- Touchscreen enabled controls
- Links wirelessly to the patient simulator's control interface

Virtual patient monitor sold separately. Product model may vary from the one shown.

CODE BLUE® III Newborn Features

- Wireless communication
- Built-in rechargeable battery
- Available with an OMNI® 2 or UNI® control tablet
- Programmable crying
- Realistic airway with tongue, visible vocal cords, trachea, and esophagus
- Supports oral and nasal intubation using an endotracheal tube and other standard medical devices
- Sensors detect depth of intubation
- Unilateral chest rise with right mainstem intubation
- (CPR) Chest compression and ventilation performance sensors
- Realistic chest cavity and recoil
- Compressions generate palpable pulses
- Bilateral lung expansion and realistic chest rise during bag-valve-mask (BVM) ventilation
- Refillable internal air reservoir provides spontaneous (automatic) chest rise and pulses after resuscitation for up to 60 seconds
- Connect real electrodes to the conductive skin sites and monitor ECG using real medical equipment
- Palpable umbilical, brachial, and radial pulse
- Programmable heart and lung sounds
- Programmable central cyanosis simulates hypoxic events and effective interventions
- Measurable blood pressure
- Intraosseous access at right tibia
- Umbilical catheterization
- IV access for medication infusion

CODE BLUE® III Newborn with OMNI® 2

S300.110.250.PK

CBIII Newborn patient simulator, OMNI® 2 tablet, OMNI® Link, filling kits, battery charger, accessories, user Guide, and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge.

CODE BLUE® III Newborn with UNI®

S300.110.215.PK

CBIII Newborn Patient Simulator, UNI® tablet PC, filling kits, battery charger, accessories, and user guide. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending

GAUMARD Vitals™ Bedside Virtual Monitor

S300.110.001.R2

GAUMARD Vitals™ bedside virtual monitor. One GAUMARD Vitals patient simulator license.

GAUMARD Vitals™ Portable Virtual Monitor

S300.110.002

GAUMARD Vitals™ portable virtual monitor. One GAUMARD Vitals patient simulator license.

Transport case

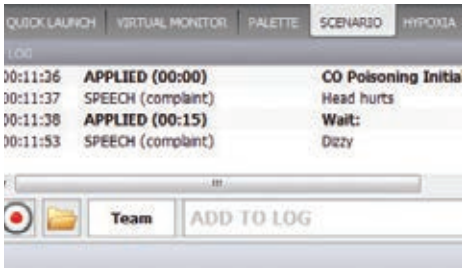
S300.110.060

Soft transport case with wheels for CODE BLUE® III newborn patient simulator.

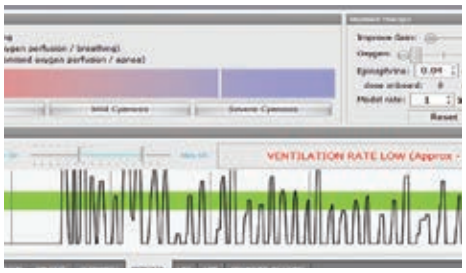
CODE BLUE® III UNI® Unified Simulator Control Software Upgrade

- Includes a library of preprogrammed scenarios
- Easy to use on-the-fly controls and scenario builder
- Real-time CPR quality and performance information
- Lab report generator
- Track care provider actions
- Generate event logs and performance reports for debriefing and archiving

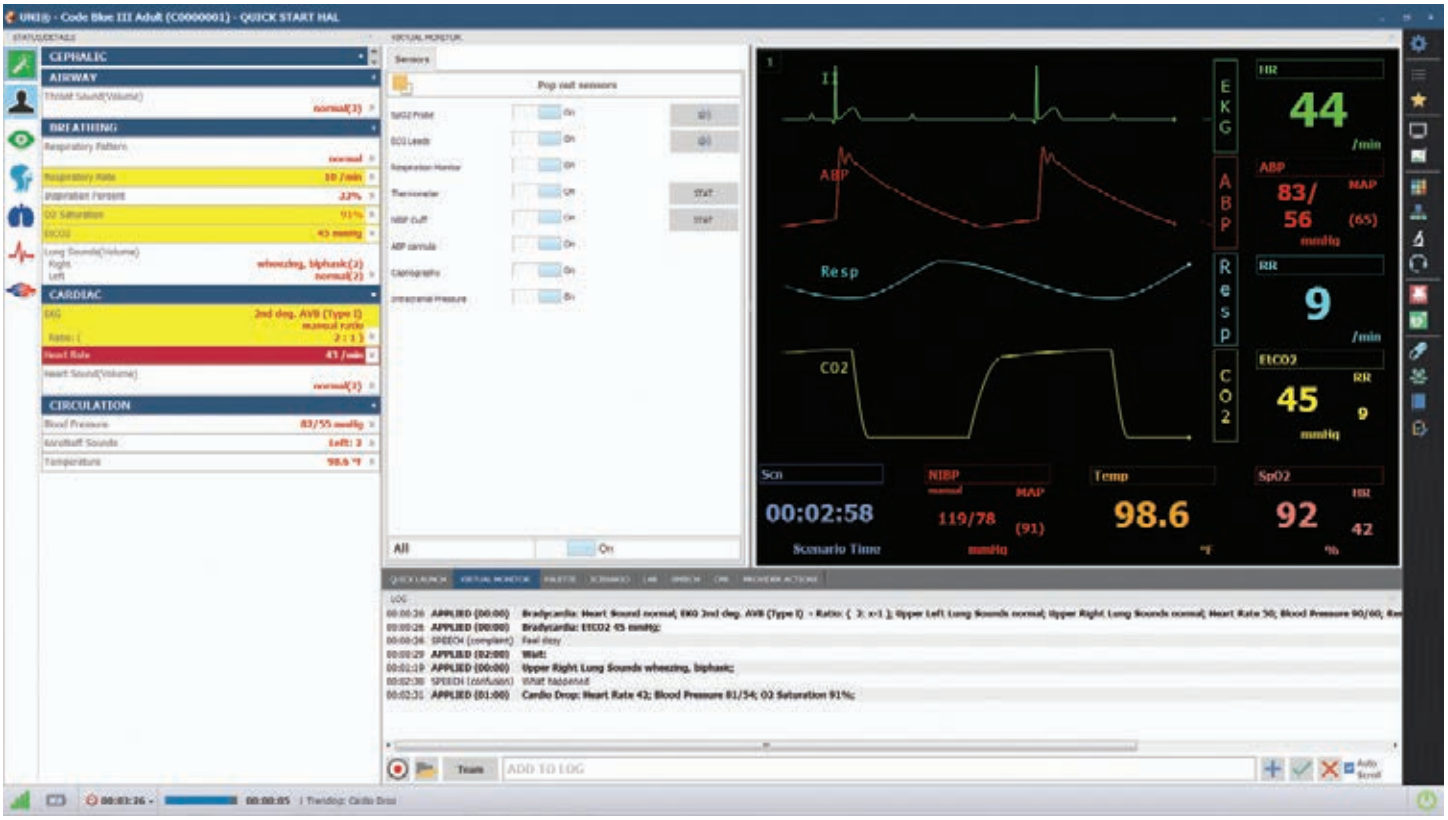
Link “Palette” items to build a linear or branching scenario



Changes in condition and care are time-stamped and logged



Hypoxic model responds to care provider actions



UNI® features easy to use controls, logging tools, and a built-in patient vital signs monitor view.

Features	Adult S300.100	Pediatric S300.105	Newborn S300.110
Airway sounds and vocal responses	•	•	•
Supports bag-valve-mask ventilation	•	•	•
Visible vocal cords	•	•	•
Head tilt, chin lift, and jaw thrust	•	•	•
Oral/Nasal intubation (ET)	•	•	•
Preprogrammed speech responses	•	•	•
Bilateral lung expansion with bag-valve ventilation	•	•	•
Unilateral chest rise with right mainstem intubation	•	•	•
Bilateral lung sounds	•	•	•
Programmable chest rise and fall	•	•	•
Built-in air compressor for continuous breathing	•	–	–
Spontaneous breathing and pulses with air reservoir	–	•	•
Intraosseous access at right tibia	•	•	•
IV training arm	•	•	•
Umbilical catheterization	–	–	–
Oximeter sensor placement detection	•	•	–
Multiple palpable pulses	•	•	•
Palpable umbilical pulse	–	–	•
Blood pressure auscultation	•	•	•
Korotkoff sounds	•	•	•
Visible cyanosis	•	•	•
(CPR) chest compression and ventilation performance sensors	•	•	•
Chest compressions generate palpable pulses	•	•	•
Defibrillate and pace using real medical devices	•	•	–
Heart and lung sounds	•	•	•
4 Lead ECG using real medical equipment	•	•	•
Palpable landmarks including ribs and xiphoid process	•	•	•
Articulated neck, jaw, arms, and legs	•	•	•
Oral suctioning	•	•	–
Gastric distension with excessive BVM	•	•	–
Wireless communication	•	•	•
Built-in rechargeable battery	•	•	•
Defibrillate to snap sites	•	•	–
UNI® Unified simulator control software*	○	○	○
GAUMARD Vitals™ - Bedside Virtual Patient Monitor	○	○	○
GAUMARD Vitals™ - Mobile Virtual Patient Monitor	○	○	○
Transport Case	○	○	○

Skin tone options available at no extra charge

• Standard ○ Optional Add-On/Accessory

SUSIE® S2000 | S1001 | S901

Clinical Nursing Patient Simulators

- SIMULATION MADE EASY®
- Tetherless with wireless communication
- Fully responsive even during transport
- Wireless streaming audio
- Automatic or instructor control

Meet SUSIE®, our most complete and capable simulation-based nursing solution yet.

SUSIE is an advanced, wireless and tetherless patient simulator and learning resource package designed to facilitate the delivery of effective and realistic simulation learning experiences to nursing learners of all levels. SUSIE includes everything you need for rapid integration into your nursing curricula in one easy-to-use package.

Patient Monitor Sold Separately

GAUMARD® Nursing Simulation Learning Experiences™ Volume II

The GAUMARD® Nursing SLEs provide a learning resource comprised of 10 outcome-focused scenarios designed to replicate clinical situations. Each SLE comes complete with a detailed facilitator guide for setting up, planning, and facilitating the learning experience.

Includes 10 interactive scenarios and a companion guide.

- Acetaminophen Overdose / Liver Failure
- Acute Myocardial Infarction - II
- Acute Respiratory Distress Syndrome
- Secondary to MVC II
- COPD Exacerbation II
- Diabetic Ketoacidosis
- Fluid and Electrolyte Imbalance II
- Heart Failure II
- Pneumonia II
- Potential Cervical Carcinoma
- Sepsis II

Each Nursing SLE includes the following key features:

- Purpose of the SLE
- Evidence-based rationale for the topic
- Learning objectives of the SLE
- Competencies addressed
- Psychomotor skills needed for successful participation
- Patient's medical history
- Supplies needed for the scenario
- Provider's Orders
- Prebriefing report to be given to students
- Scenario timeline with facilitator cues
- Scenario flowchart

Each Nursing SLE is mapped to the outcomes expected of graduates of nursing programs.

- NCLEX-RN® Test Blueprint
- BSN Essentials
- QSEN competencies
- IPEC core competencies

Perfect for both skills training and clinical simulation.

SUSIE's physical and physiological features allow learners to train practical skills using real techniques, medical tools, and devices. Additionally, SUSIE's breast and gynecological exam capabilities offer practice for learners in specialized nursing and medicine.

Speak as SUSIE and listen to provider's responses via wireless streaming voice. Illustrate seizures, eye dilation, reactivity, and blink rate

Normal and abnormal airway, heart, lung, and bowel sounds

Practice tracheostomy care procedures including insertion, cleaning, and replacing cannulas safely

Bilateral IV access for bolus and/or infusion; deltoid and thigh IM sites support placement exercises

Supports oral or nasal intubation: ETT, LMA, King LT, NG. Enable difficult airway: tongue edema, pharyngeal swelling, and laryngospasm

Blood pressure can be taken using BP cuff, palpation, or auscultation methods

eCPR™ - Monitor CPR quality metrics in real-time including rate and compression depth, no-flow time, and ventilations

Attach real ECG electrodes and monitor rhythms in real-time. Capture, cardiovert, and pace using a real defibrillator and pads

Control oxygen saturation in real-time, while learners measure and monitor using a real pulse oximetry device

Includes 7 lifelike, interchangeable breasts to practice detecting and evaluating various pathologies

Interchangeable male/female genitalia allows catheterization. Rectum supports enemas and removing intestinal fluids introduced via NG tube

Interchangeable normal and abnormal uteri and cervices simulate various pathologies and stages in pregnancy

General
- Full-body adult patient
- Tetherless and wireless; fully responsive during transport
- Realistic joint articulation
- Compatible with optional virtual patient monitor
- Internal rechargeable battery; up to 4hr battery life
- Converts to male patient; includes male chest and genitalia

Neurological
- Active Eyes; programmable blink rate, pupil size, and pupil reaction
- Severe or mild seizures
- Preprogrammed speech responses
- Wireless streaming voice

Airway
- Oral or nasal endotracheal intubation/suctioning
- Difficult airway: Laryngospasm, pharyngeal swelling, tongue edema
- Sensors detect depth of intubation
- Tracheostomy care
- Unilateral chest rise with right mainstem intubation
- Multiple upper airway sound types

Breathing
- Control rate and depth of respiration and observe spontaneous breathing
- Ventilation is measured and logged
- Anterior and posterior lung sounds in all quadrants
- Accommodates assisted ventilation including BVM and mechanical support

Cardiac/circulation
- Normal and abnormal heart sounds, rates, and intensities
- ECG monitoring using real devices
- eCPR™ sensors; chest compressions are measured and logged
- Monitor, capture, pace, and cardiovert using a real defibrillator
- Bilateral IV training arms and IM sites
- Measurable blood pressure and audible Korotkoff sounds
- Monitor oxygen saturation using your real native oximeter
- Visible cyanosis
- Bilateral carotid, radial, brachial, femoral, popliteal, and pedal pulses
- Fingerstick bleeding
- Interchangeable ulcerated foot

Gastrointestinal
- NG/OG intubation and feeding
- Bowel sounds
- Patent stoma sites support colostomy and ileostomy care
- Rectum supports enemas
- Male/Female catheterization

Breast examination
- Supports breast examination techniques and identifying pathologies. BSE pack includes:
  - » Five interchangeable left breasts, which include fibrocystic disease (chronic mastitis), a benign tumor with stalk, a giant sarcoma, scirrhous carcinoma, and a retracted nipple
  - » Two right breast contains 8, 10, 16, and 20mm lumps for BSE

Gynecology examination
- Perform bimanual pelvic exam with interchangeable uteri
- Insert speculum and view interchangeable cervices
- Perform PAP/douching/sounding
- GYN package includes:
  - » Anteverted uterus
  - » Retroverted uterus
  - » IUD uterus (installed)
  - » 6-8 Week pregnant uterus
  - » 10-12 Week pregnant uterus
  - » 20 Week pregnant uterus
  - » 6-8 Week pregnant uterus with short ovarian ligaments
  - » Normal cervix (set of 5, 1 installed)
  - » Abnormal set of cervix (set of 6)
  - » 6-8 Week pregnant cervix (set of 3)
  - » 10-12 Week pregnant cervix (set of 3)

SUSIE® S2000

S2000.PK

SUSIE Tetherless Adult Patient Simulator, UNI® Tablet PC, Nursing Simulation Learning Experience Vol. II, GYN Pack and BSE Pack, accessories, user guide, roller case, and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge.

GAUMARD Vitals™ Bedside Virtual Monitor

S2000.001.R2

GAUMARD Vitals™ bedside virtual monitor. One GAUMARD Vitals patient simulator license.

External Pathologies Uterine Package

S2000.235

Includes enlarged uterus, small uterus, uterus with moderate retroversion, myomatous uterus, uterus with left side salpingitis, uterus with right side salpingitis, severely anteverted-anteflexed uterus, uterus with large ovarian cyst, uterus with medium ovarian cyst, and bicornuate uterus.

Internal Pathologies Uterine Package

S2000.236

Internal Pathologies Uteri Package accessory for SUSIE® adult nursing clinical skills simulator. Includes normal anteverted uterus, uterus with polyposis, uterus with varied polyps, uterus with hyperplasia, myomatous uterus, uterus with early carcinoma, uterus with advanced carcinoma, uterus with fundus carcinoma, and subseptate uterus.

Meet the new SUSIE® S1001. Innovative technology and a great value.

SUSIE is realistic and completely wireless and tetherless. These great features enable you to deliver competency-building exercises in the skills lab and realistic clinical experiences in nearly all the environments where nursing care takes place.

Patient Monitor Sold Separately

GAUMARD® Nursing Simulation Learning Experiences™ Volume I

The GAUMARD® Nursing SLEs Vol. I offer you a comprehensive library of outcome-focused scenarios optimized for use with the SUSIE S1001 and S901 models. Each SLE comes complete with a detailed facilitator guide for setting up, planning, and facilitating the learning experience.

Includes 10 interactive scenarios and a companion guide.

- Acute Myocardial Infarction
- Acute Respiratory Distress Syndrome Secondary to Motor Vehicle Crash
- Asthma Attack
- Chronic Obstructive Pulmonary Disorder Exacerbation
- Fluid and Electrolyte Imbalance
- Heart Failure
- Hypoglycemia
- New-Onset Diabetes
- Pneumonia
- Sepsis

Each Nursing SLE includes the following key features:

- Purpose of the SLE
- Evidence-based rationale for the topic
- Learning objectives of the SLE
- Competencies addressed
- Psychomotor skills needed for successful participation
- Patient's medical history
- Supplies needed for the scenario
- Provider's orders
- Prebriefing report to be given to students
- Scenario timeline with facilitator cues
- Scenario flowchart

Each Nursing SLE is mapped to the outcomes expected of graduates of nursing programs.

- NCLEX-RN® Test Blueprint
- BSN Essentials
- QSEN competencies
- IPEC core competencies

Supports nasogastric feeding and suctioning using real fluids

Normal and abnormal airway, heart, lung, and bowel sounds

Attach real ECG electrodes and monitor rhythms in real-time; capture, cardiovert, and pace using a real defibrillator and pads

General
- Full-body adult patient
- Tetherless and wireless; fully responsive during transport
- Realistic joint articulation
- Internal rechargeable battery; up to 4hr battery life

Neurological
- Preprogrammed speech responses
- Wireless streaming voice

Airway
- Oral or nasal endotracheal intubation/ suctioning
- Laryngospasm, tongue edema
- Sensors detect depth of intubation
- Tracheostomy care
- Unilateral chest rise with right mainstem intubation
- Multiple upper airway sound types

Breathing
- Control rate and depth of respiration and observe spontaneous breathing
- Ventilation is measured and logged
- Anterior lung sounds
- Accommodates assisted ventilation including BVM and mechanical support

Cardiac/circulation
- Normal and abnormal heart sounds, rates, and intensities
- ECG monitoring using real devices
- eCPR™ sensors; chest compressions are measured and logged
- Monitor, capture, pace, and cardiovert using a real defibrillator
- Bilateral IV training arms and IM sites
- Measurable blood pressure and audible Korotkoff sounds
- Oxygen saturation sensor placement detection
- Bilateral carotid, radial, femoral, and pedal pulses

Gastrointestinal
- NG/OG intubation and feeding
- Bowel sounds
- Patent stoma sites support colostomy and ileostomy care
- Rectum supports enemas
- Male/Female catheterization

Breast examination
- Supports breast examination

Gynecology examination
- Perform bimanual pelvic exam with interchangeable uteri
- Insert speculum and view interchangeable cervices
- Perform PAP/douching/sounding
- GYN package includes:
  - » Anteverted uterus
  - » Retroverted uterus
  - » IUD uterus (installed)
  - » 6-8 week pregnant uterus
  - » 10-12 week pregnant uterus
  - » 20-week pregnant uterus
  - » 6-8 week pregnant uterus with short ovarian ligaments
  - » Normal cervix (set of 5, 1 installed)
  - » Abnormal set of cervix (set of 6)
  - » 6-8 week pregnant cervix (set of 3)
  - » 10-12 week pregnant cervix (set of 3)

SUSIE® S1001

S1001.PK

SUSIE Tetherless Adult Patient Simulator. UNI® Laptop PC, 10 Nursing SLEs, Nursing SLEs, Facilitator's Guide Vol. I, GYN Pack, accessories, user guide, roller case, and One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge.

Breast Palpation Training Kit

S1001.057

Four interchangeable left breasts including a benign tumor with stalk, a giant sarcoma, a scirrhous carcinoma, and an inverted nipple. One right breast which contains lumps of size 8, 10, 16, and 20mm.

Male chest skin

S1001.018.4L.M

Add the male chest skin and convert SUSIE into a male patient. Chest skin supports four-lead ECG monitoring using real heart monitors.

GAUMARD Vitals™ Bedside Virtual Monitor

S1001.001.R2

GAUMARD Vitals™ bedside virtual monitor. One GAUMARD Vitals patient simulator license.

Meet the new SUSIE® S901. A complete solution built for achieving outcome-focused success.

The new SUSIE® S901 combines the best nursing patient simulator features with the latest evidence-based simulation methodology in one easy-to-use package. And now with OMNI® 2 it's easier than ever to facilitate effective simulation learning experiences.

Scenario library included

Use the scenarios included or quickly and easily create your own.

Time-Stamped event recording and reporting

The automated event tracking and interaction recorder ensures important events are always captured so you can focus on the action.

eCPR™ Monitoring

Monitor and assess CPR performance in real-time and export CPR quality reports to measure the progress of multiple learners.

Patient Monitor Sold Separately

GAUMARD® Nursing Simulation Learning Experiences™ for OMNI® 2

The GAUMARD® Nursing SLEs Vol. I offer you a comprehensive library of outcome-focused scenarios optimized for use with the SUSIE S1001 and S901 models. Each SLE comes complete with a detailed facilitator guide for setting up, planning, and facilitating the learning experience.

Includes 10 interactive OMNI® 2 scenarios and a companion guide.

- Acute Myocardial Infarction
- Acute Respiratory Distress Syndrome Secondary to Motor Vehicle Crash
- Asthma Attack
- Chronic Obstructive Pulmonary Disorder Exacerbation
- Fluid and Electrolyte Imbalance
- Heart Failure
- Hypoglycemia
- New-onset Diabetes
- Pneumonia
- Sepsis

Each Nursing SLE includes the following key features:

- Purpose of the SLE
- Evidence-based rationale for the topic
- Learning objectives of the SLE
- Competencies addressed
- Psychomotor skills needed for successful participation
- Patient's medical history
- Supplies needed for the scenario
- Provider's orders
- Prebriefing report to be given to students
- Scenario timeline with facilitator cues
- Scenario flowchart

Each Nursing SLE is mapped to the outcomes expected of graduates of nursing programs.

- NCLEX-RN® Test Blueprint
- BSN Essentials
- QSEN competencies
- IPEC core competencies

Select from pre-recorded phrases or be the voice of SUSIE for enriched patient-provider dialog

General
- Full-body adult patient
- Tetherless and wireless; fully responsive during transport
- Realistic joint articulation
- Compatible with optional virtual patient monitor
- OMNI® 2 ready

Neurological
- Preprogrammed speech responses
- Wireless streaming voice

Airway
- Oral and nasal endotracheal intubation, feeding, and suctioning
- Sensors detect depth of intubation
- Tracheostomy care
- Selectable airway sounds

Breathing
- Visible chest rise with BVM ventilation
- Ventilations are measured and logged
- Normal and abnormal lung sounds

Cardiac/circulation
- Normal and abnormal heart sounds, rates, and intensities
- ECG monitoring using real devices
- eCPR™ compressions and ventilations are measured and logged
- Monitor, capture, pace, and cardiovert using a real defibrillator
- Bilateral IV access
- Measurable blood pressure and audible Korotkoff sounds
- Bilateral (automatic) carotid, radial, femoral, and pedal pulses

Gastrointestinal
- NG/OG intubation and feeding
- Bowel sounds
- Patent stoma sites support colostomy and ileostomy care
- Rectum supports enemas
- Male/Female catheterization

Gyn and breast exam
- Supports basic GYN exam; compatible with adv. GYN skills training kit
- Supports advanced breast examination; compatible with optional adv. skills training kit

SUSIE® S901

S901.PK

Tetherless Adult Patient Simulator, OMNI® 2 Wireless Control Interface, Nursing Simulation Learning Experiences scenario package, One-Year Limited Warranty. Extended warranty plans available

Breast Palpation Training Kit

S901.057

Four interchangeable left breasts including a benign tumor with stalk, a giant sarcoma, a scirrhous carcinoma, and an inverted nipple. One right breast which contains lumps of size 8, 10, 16, and 20mm

Standard GYN Package Kit

S901.056.R2

Anteverted uterus, retroverted uterus, IUD uterus, 6-to-8-week pregnant uterus, 6-to-8-week uterus with short ovarian ligaments, 10-to-12-week uterus, and 20-week uterus. Set of normal patent cervices. Set of abnormal cervices. 6-to-8-week and 0-to-12-week pregnant cervices.

Male chest skin

S901.018.4L.M

Add the male chest skin and convert SUSIE into a male patient. Chest skin supports four-lead ECG monitoring using real heart monitors.

GAUMARD Vitals™ Bedside Virtual Monitor

S901.001.R2

GAUMARD Vitals™ bedside virtual monitor. One GAUMARD Vitals patient simulator license.

Simulator Transport Case

S901.060

Soft roller transport case.

SUSIE® Series | Features Comparison

	Features	S2000	S1001	S901
General	Age	Adult	Adult	Adult
	Full-body patient	•	•	•
	Supports standard patient positions	•	•	•
	Female-to-male patient conversion	•	•	•
	Male chest skin	•	o	o
	Realistic joint articulation	•	•	•
	Tetherless; all operating components are contained inside the patient simulator	•	•	•
	Wireless communication	•	•	•
	Battery life[1]	4 hrs	4 hrs	4 hrs
Neuro	Seizures	•	-	-
	Streaming voice	•	•	•
	Pre-recorded speech responses	•	•	•
	Active eyes: photosensitive pupils, programmable blinking rate, and dilation	•	-	-
Airway	Realistic airway with visible vocal cords	•	•	•
	Airway sounds	•	•	•
	Oral and nasal endotracheal intubation	•	•	•
	Supports NG/OG feeding and suctioning	•	•	•
	Tongue edema and laryngospasm	•	•	-
	Pharyngeal swelling	•	-	-
	Tracheostomy care site; tracheal suctioning (placement)	•	•	•
	Tracheal intubation depth detection and logging	•	•	•
	Esophageal intubation detection and logging	•	•	-
Respiratory	Bilateral chest rise with positive pressure ventilation (BVM)	•	•	•
	Ventilations are measured and logged in real time	•	•	•
	Spontaneous breathing with selectable respiratory patterns	•	•	-
	Programmable respiratory rate and inspiratory/expiratory ratio	•	•	Lung sound only
	Programmable unilateral chest rise and fall	•	•	-
	Selectable normal and abnormal lung sounds	•	•	•
	Anterior lung sounds	4 Quadrants	•	•
	Posterior lung sounds	4 Quadrants	-	-
	Unilateral chest rise with right mainstem intubation	•	•	•
Cardiac	eCPR™ Real-time CPR performance monitor and trainer	•	•	•
	Chest compressions generate palpable pulses	•	•	•
	Programmable heart rate and healthy and abnormal heart sounds	•	•	•
	Includes comprehensive library of ECG rhythms with customizable beat variations	•	•	•
	Supports ECG monitoring with real devices	•	•	•
	Defibrillate, cardiovert, and pace using real devices and live energy	•	•	•
	Supports virtual pacing and defibrillation	•	•	•

Skin tone options available at no extra charge

• Standard o Optional Add-On/Accessory

	Features	S2000	S1001	S901
Circulation	Cyanosis with variable intensities	•	-	-
	SpO_2 monitoring support	Real monitors	Sensor detection	Virtual only
	Palpable pulses (automatic)	•	•	•
	Carotid	•	•	•
	Brachial	•	-	-
	Radial	•	•	•
	Femoral	•	•	•
	Popliteal	•	-	-
	Pedal	•	•	•
	BP measurement by auscultation using sphygmomanometer	•	•	•
	Realistic Korotkoff sounds	•	•	•
	IV access: bolus, infusion, and sampling	•	•	•
	Bleeding finger	•	o	o
	Virtual drug recognition arm	o	-	-
	Anterolateral thigh and deltoid IM sites	•	•	•
	Decubitus ulcers	•	•	•
	Ulcerated foot	•	o	o
Gastrointestinal	NG/OG insertion; gastric lavage and gavage	•	•	•
	Selectable normal and abnormal bowel sounds	4 Quadrants	•	•
	Patent stoma sites support colostomy and ileostomy care	•	•	•
	Colostomy irrigation	•	•	•
	Enema administration	•	•	•
	Urinary catheterization with return	•	•	•
	Interchangeable female and male genitalia	•	•	•
Women's Health	Realistic female breasts for palpation exams	•	•	•
	Gynecological examination	•	•	•
	OB/GYN Skills training package	•	•	o
	Normal and abnormal uteri with internal pathologies	o	o	o
	Normal and abnormal uteri with externally palpable pathologies	o	o	o
	Advance Breast Examination skills training package	•	o	o
Control	Simulator control interface	UNI®	UNI®	OMNI® 2
	Simulator control device	Microsoft Surface Pro	Laptop PC	Handheld tablet
	UNI® Automatic Mode license	Optional	-	-
	Simulation Learning Experiences™ Scenario Package	•	•	•
	GAUMARD Vitals™ Bedside patient monitor	o	o	o
	GAUMARD Vitals™ Portable patient monitor	o	o	o
	Transport case	•	•	o

Skin tone options available at no extra charge

• Standard o Optional Add-On/Accessory

Master basic and advanced nursing skills with SUPER CHLOE™.

Super Chloe is the perfect solution for advanced nursing skills training, including IV therapy, auscultation, ostomy care, catheterization, OBGYN care, and much more. Super Chloe also features real-time CPR quality feedback and virtual patient monitor support designed to enhance learning and immersion.

SUPER CHLOE™

SUPER CHLOE™ with OMNI® 2

S222.100.250.PK

SUPER CHLOE™ with OMNI® 1

S222.100.PK

CLINICAL CHLOE™ Advanced

CLINICAL CHLOE™ Adv. with OMNI® 2

S222.250.PK

CLINICAL CHLOE™ Adv. with OMNI® 1

S222.PK

CLINICAL CHLOE™ Original

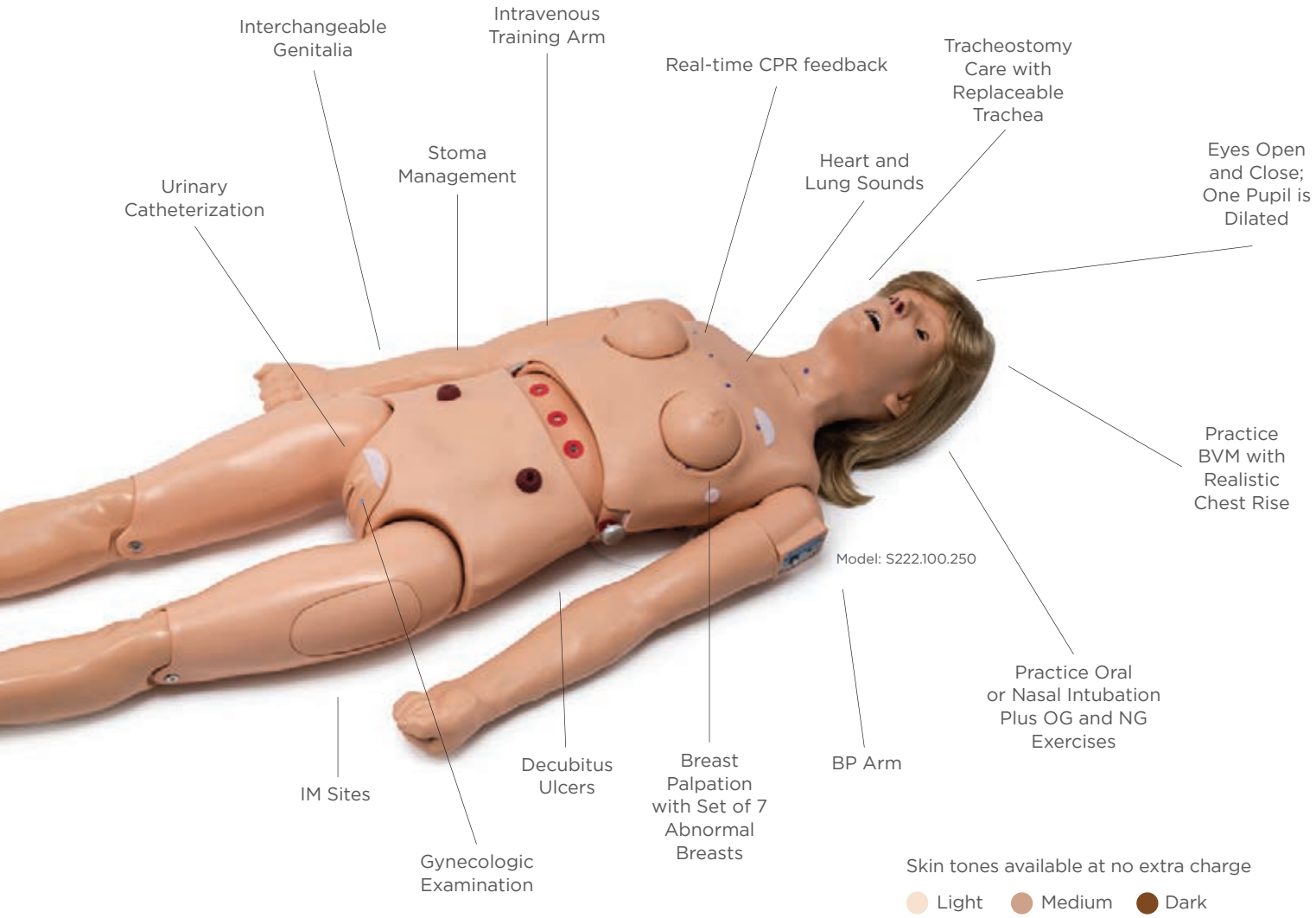
CLINICAL CHLOE™ with OMNI® 2

S221.250.PK

Breast palpation
7 breast options for palpation and examination, including chronic mastitis, benign growth, carcinoma and the "orange skin" effect, giant sarcoma, scirrhous carcinoma, the lymphatic drainage system.

Gynecologic examination
Practice multiple examination exercises, including vaginal douching, PAP smear, visual recognition of normal and abnormal cervices, and more.

Catheterization
Tricuspid valve permits male or female catheterization with soft silicone catheters.



OMNI® blood pressure arm

Adjustable systolic and diastolic pressures, auscultation gap, and pulse rate. Display and track blood pressure.

Injection & infusion

Injection arm for IV, IM, SubQ, and intradermal exercises.

Heart & lung sounds

Sensor network is hidden beneath the skin. Hear the appropriate heart or lung sounds as stethoscope bell is moved across the front and back of the torso.

NURSING CARE | Advanced Patient Care Simulators

Features	S222.100.250 S222.100	S222.250 S222	S221
General Patient Care			
Bathing and bandaging activity	•	•	•
Full body	•	•	•
Eyes open and close ophthalmic exercises (one pupil is dilated)	•	•	-
Realistic urethral passage and bladder for catheterization exercises	•	•	•
Upper and lower dentures for oral hygiene	•	•	•
Soft, realistic face, skin, hands, feet, fingers, and toes	•	•	•
Simulated ear canal for otic drops and irrigation	•	•	•
Colostomy and ileostomy stomas to practice irrigation	•	•	•
Opening for gastrointestinal procedures	•	•	•
Enema administration capability	•	•	•
Stylish wig for hair care exercises and surgical draping	•	•	•
Amputation stump	o	o	o
Set of two decubitus ulcers	•	•	o
Ulcerated foot	•	o	o
Manual palpable pulses	•	•	-
Interchangeable male and female organs (Both Included)	•	•	•
Blood pressure arm with real-time feedback	•	o	o
Articulation			
Head and jaw	•	•	•
Elbows and wrists	-	•	•
Knees and ankles	•	•	•
Injection Training			
Intramuscular injection sites in arm, thighs, and buttock	•	•	•
Advanced training arm and hand for IV, IM, and sub-Q techniques	•	•	o
Heart and Lung Sounds			
Site-Specific Heart and Lung sounds with Virtual Stethoscope	•	o	o
Breast Palpation			
Interchangeable male and female breast inserts	•	•	•
Breast palpation capability with 7 abnormal breasts	•	-	-
Breast palpation capability with 1 abnormal female left breast	-	•	•
CPR			
OMNI® Real-time CPR feedback and reporting	•	•	-
Practice BVM with realistic chest rise	•	•	-
Realistic heart, lungs, ribs, stomach, and liver	•	•	-
Airway	•	•	•
Intubate / BVM	•	•	-
Tracheotomy placement	•	•	•
Tracheotomy intubation with resealable trachea	•	•	-
Trachea, bronchi, and lungs enable assessment of airway management skills	•	•	-
Tongue, epiglottis, vocal cords and esophagus look and feel real	•	•	-
Nasal and oral tube placement	•	•	•
Nasal and oral intubation	•	•	-
NG and OG tube feeding and gastric suction	•	•	•

Skin tone options available at no extra charge

• Standard o Optional Add-On/Accessory

Features	S222.100.250 S222.100	S222.250 S222	S221
GYN Training			
Bimanual pelvic examination	•	-	-
Palpation of normal and pregnant uteri	•	-	-
Vaginal examination including insertion of speculum	•	-	-
Visual recognition of normal and abnormal cervices	•	-	-
IUD insertion and placement	•	-	-
Uterine sounding	•	-	-
Vaginal douching and Pap smear exercises with realistic vagina and cervix	•	•	•
Other			
Detachable and removable internal tanks	•	•	•
Bends and detaches at waist for easy storage	•	•	•
User guide	•	•	•
Carrying bag	•	•	•
Neck brace	•	•	•

Models, Options, and Accessories

Model	S222.100.250.PK	S222.100.PK	S222.250.PK	S222.PK	S221.PK
Upgrades					
OMNI® Interface	OMNI® 2 Included	OMNI® 1 Included	OMNI® 2 Included	OMNI® 1 Included	OMNI® 1 Included
GYN examination pack	Included	Included	-	-	-
Blood pressure training arm for OMNI®	Included	Included	S222.250.989L	S222.989L	S221.989L
Advanced Multipurpose IV Training Arm	-		-		S221.803R.MIV
Advanced IV Training Arm	Included		Included		S221.803R.IV
Arterial and Venous Training Arm	S222.100.803R.AIV.R2		S222.803R.AIV.R2		S221.803R.AIV.R2
Heart and Lung Sounds Kit	Included		S222.848		S221.848
Ulcerated foot	S222.100.765		S222.765		S221.765

Skin tone options available at no extra charge

• Standard o Optional Add-On/Accessory

SUSIE SIMON®

Advanced Patient Care Simulators

Meet SUSIE SIMON®. The original nursing patient simulator trusted by nursing programs around the world.

SUSIE SIMON® is a proven solution for teaching basic and advanced nursing skills, including safe patient handling, auscultation, Foley catheterization, stoma care, IV therapy, and much more.

SUSIE® SIMON® with OSTOMY

SUSIE SIMON® with OMNI® 2

S201.250.PK

SUSIE SIMON® Basic

S201.PK

SIMPLE SIMON®

SIMPLE SIMON® with OMNI® 2

S205.250.PK

SIMPLE SIMON® Basic

S205.PK

SIMPLE SUSIE®

SIMPLE SUSIE® with OMNI® 2

S206.250.PK

SIMPLE SUSIE® Basic

S206.PK

NURSING CARE | Comparison Chart

Features	S200 SUSIE SIMON®	S201 SUSIE SIMON® with Ostomy	S205 Simple SIMON™	S206 Simple SUSIE®
General Patient Care				
Bathing and bandaging activity	•	•	•	•
Full body	•	•	•	•
Interchangeable genitalia	•	•	-	-
Eyes open and close	•	•	•	•
Realistic eyes for ophthalmic exercises	•	•	•	•
Realistic urethral passage and bladder for catheterization exercises	•	•	-	-
Upper and lower dentures for oral hygiene	•	•	•	•
Soft, realistic face skin, hands, feet, fingers, and toes	•	•	•	•
Simulated ear canal for otic drops and irrigation	•	•	•	•
Colostomy and ileostomy stomas to practice irrigation	o	•	-	-
Gastrointestinal procedures and enema administration	•	•	-	-
Stylish wig for haircare exercises and surgical draping	•	•	-	•
Amputation stump	o	o	o	o
Set of two decubitus ulcers	o	o	o	o
Ulcerated foot	o	o	o	o
Articulating head, jaw, elbows, wrists, ankles, and knees	•	•	•	•
Injection Training				
IM injection sites in deltoids, quadriceps, and upper gluteal region	•	•	•	•
Advanced Multipurpose Intravenous Training Arm	o	o	o	o
Advanced Intravenous Training Arm	o	o	o	o
Arterial and Venous Training Arm	o	o	o	o
Heart and Lung Sounds				
Site-Specific Heart and Lung sounds with Virtual Stethoscope	o	o	o	o
Airway				
Tracheotomy placement	•	•	•	•
Nasal and oral tube placement	•	•	-	-
NG and OG tube feeding and gastric suction	•	•	-	-
GYN Training				
Realistic vagina and cervix supports douching and pap smear	•	•	-	•
Other				
Detachable and removable internal tanks	•	•	-	-
Bends and detaches at waist for easy storage	•	•	•	•
Latch provides secure seal between ostomies and internal tanks	-	•	-	-
Carrying bag	o	o	o	o
Instruction manual	•	•	•	•

Skin tone options available at no extra charge

• Standard o Optional Add-On/Accessory

OMNI® 2 wireless control interface

The new OMNI® 2 is an easy-to-use, wireless interface designed to place the best tools to drive simulation-based exercises right in the palm of your hand.

- Intuitive touchscreen interface with built-in wireless connectivity
- Make changes on-the-fly or trend them over time
- Event Log records participant actions, changes in vital signs, and input notes to support debriefing

OMNI® 2 BP skills trainer

The real-time blood pressure gauge view lets you see what the learner sees to help confirm the accuracy of readings. Easily adjust pulse rate and auscultatory gap with just a few taps.

OMNI® virtual patient monitor support

The new GAUMARD® virtual patient monitor for OMNI® 2 looks and functions like a real device. It offers continuous, real-time patient data to help learn critical thinking and decision making skills.

Ostomy care

Sculpted stomas of a transverse colostomy, ileostomy, and suprapubic stoma.

Tracheotomy placement

Tracheotomy opening to practice placement of trach tube.

Lavage and gavage

Mouth and nose openings for gastric lavage and gavage.

Models, Options, and Accessories

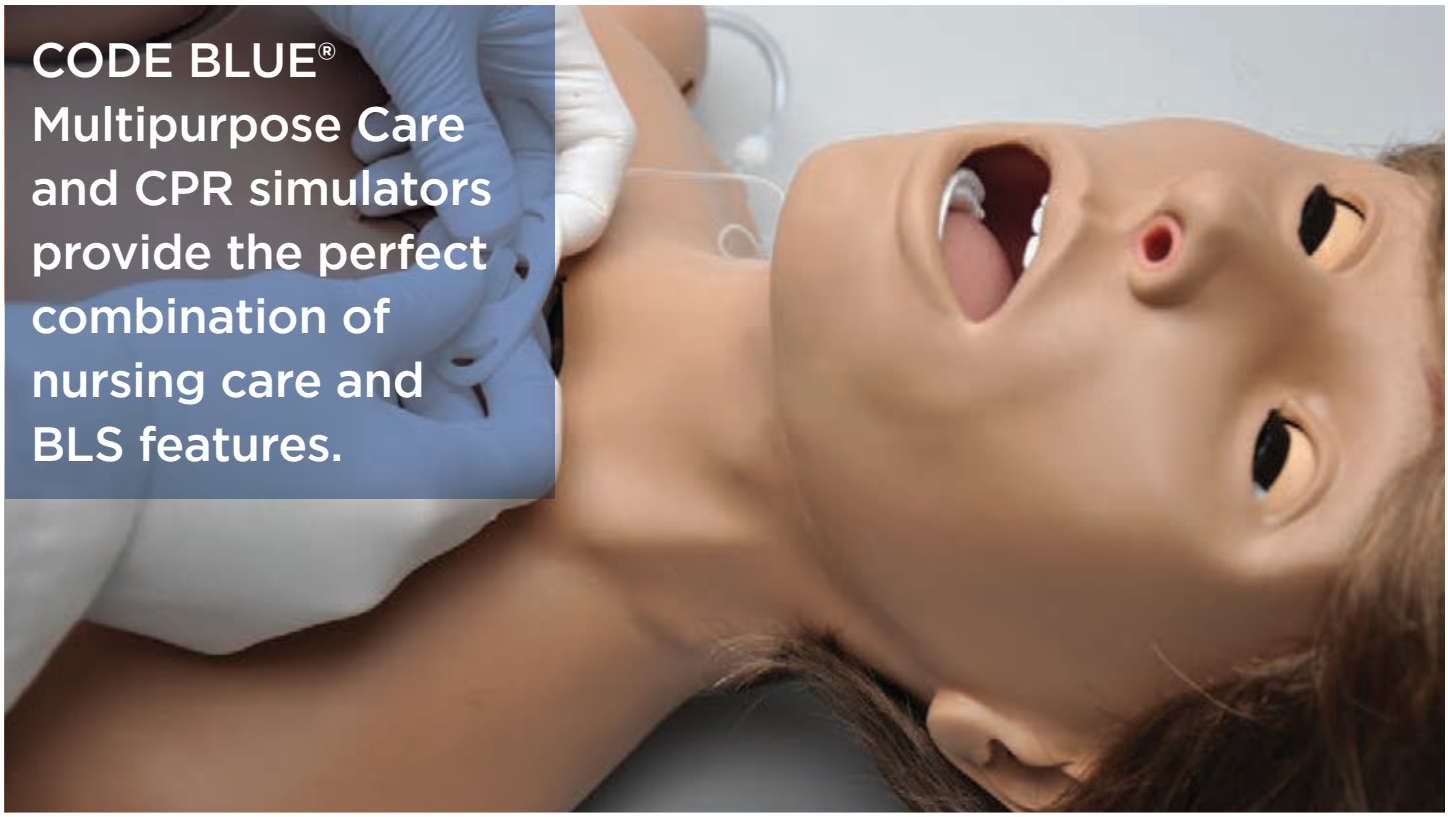
Model	S200.250.PK	S200.PK	S201.250.PK	S201.PK	S205.250.PK	S205.PK	S206.250.PK	S206.PK
Upgrades								
Blood pressure training arm with OMNI® Interface	OMNI® 2 Included	OMNI® 1 S200.989L	OMNI® 2 Included	OMNI® 1 S201.989L	OMNI® 2 Included	OMNI® 1 S205.989L	OMNI® 2 Included	OMNI® 1 S206.989L
Advanced Multipurpose IV Training Arm	S200.803R.MIV		S201.803R.MIV		S205.803R.MIV		S206.803R.MIV	
Advanced IV Training Arm	S200.803R.IV		S201.803R.IV		S205.803R.IV		S206.803R.IV	
Arterial and Venous Training Arm	S200.803R.AIV.R2		S201.803R.AIV.R2		S205.803R.AIV.R2		S206.803R.AIV.R2	
Carrying bag	S200.807		S201.807		S205.807		S206.807	
Heart and Lung Sounds Kit	S200.848		S201.848		S205.848		S206.848	
Amputation stump	S200.910		S201.910		S205.910		S206.910	
Set of two decubitus ulcers	S200.764		S201.764		S205.764		S206.764	
Ulcerated foot	S200.765		S201.765		S205.765		S206.765	

Skin tone options available at no extra charge

CODE BLUE®

Nursing Care and CPR

- eCPR™ - Real-time CPR feedback
- Practice regular or counterpulsation CPR
- Mouth-to-mouth resuscitation option
- Variable palpable carotid pulse
- Eyes open and close; one pupil is dilated
- Anatomically accurate airway
- Oral and nasal intubation
- OMNI® 2 touchscreen interface



CODE BLUE® Multipurpose Care and CPR simulators provide the perfect combination of nursing care and BLS features.

CODE BLUE® with Intubatable Airway

CODE BLUE® with OMNI® 2

S303.250.PK

CODE BLUE® with OMNI® 1

S303.PK

CODE BLUE® with Disposable Airway

CODE BLUE® with OMNI® 1

S304.PK

Disposable airway
Available with disposable airway for mouth-to-mouth resuscitation exercises.

BVM with realistic chest rise
Bilateral lung expansion with realistic chest rise during BVM.

OMNI® eCPR™ feedback
Monitor and log ventilations and chest compressions in real-time.

Airway management
Realistic airway with tongue, vocal cords, trachea, and esophagus. Intubate using a Miller blade and an ETT or LMA.

Tracheotomy
Pierce the resealable trachea and insert a tracheostomy tube with an attached positive pressure device to observe chest rise.

Injection and infusion
Advanced training arm and hand for IV, IM, and Sub-Q techniques.

Lavage and gavage
Mouth and nose openings for gastric lavage and gavage.

Ostomy care
Sculpted stomas of a transverse colostomy, ileostomy, and suprapubic stoma.

Interchangeable genitalia
Interchangeable genitalia for female and male catheterization.

General care
- Soft, lifelike face skin
- Eyes open and close; one pupil is dilated
- Jointed elbows, wrists, knees, and ankles
- Bends at the waist like a human
- Interchangeable genitalia for male and female catheterization
- Enema administration
- Two decubitus ulcers depicting initial stage of ulceration and deeply infected stage
- Sculpted stomas for transverse colostomy, ileostomy, and suprapubic stoma, each connected to an internal, removable tank
- Removable internal tanks
- Breast palpation kit
- Amputation stump
- Neck brace
- Bilateral carotid and right radial pulse
- Carrying bag

Airway management
- Real-time CPR feedback
- BVM with realistic chest rise
- Mouth to mouth resuscitation
- Mouth to nose resuscitation
- Nasal and gastrostomy openings for instruction in gastric lavage and gavage

S303 model only
- Tracheotomy intubation
- Anatomically accurate airway
- Oral and nasal intubation
- Oral openings for instruction in gastric lavage and gavage

Breast examination
- Interchangeable male and female breasts (left female breast contains malignancy)

Gynecologic examination
- Vaginal douching and pap smear exercises with realistic vagina and cervix

Injection and infusion
- Intravenous, intramuscular, and subcutaneous injection techniques, specify left or right
- Bilateral IM sites, arms, and legs
- Intramuscular injection site in buttock
- Instruction manual

OMNI® 2 Real-time eCPR™ feedback
- Monitor CPR quality metrics in real-time
- Interactive checklists let you easily track provider actions during the exercise
- Export CPR performance reports for debriefing

CODE BLUE®
with Intubatable Airway

CODE BLUE® with OMNI® 2
S303.250.PK

CODE BLUE® with OMNI® 1
S303.PK

CODE BLUE®
with Disposable Airway

CODE BLUE® with OMNI® 1
S304.PK

Options, accessories, & consumables

Ulcerated foot
S303.765

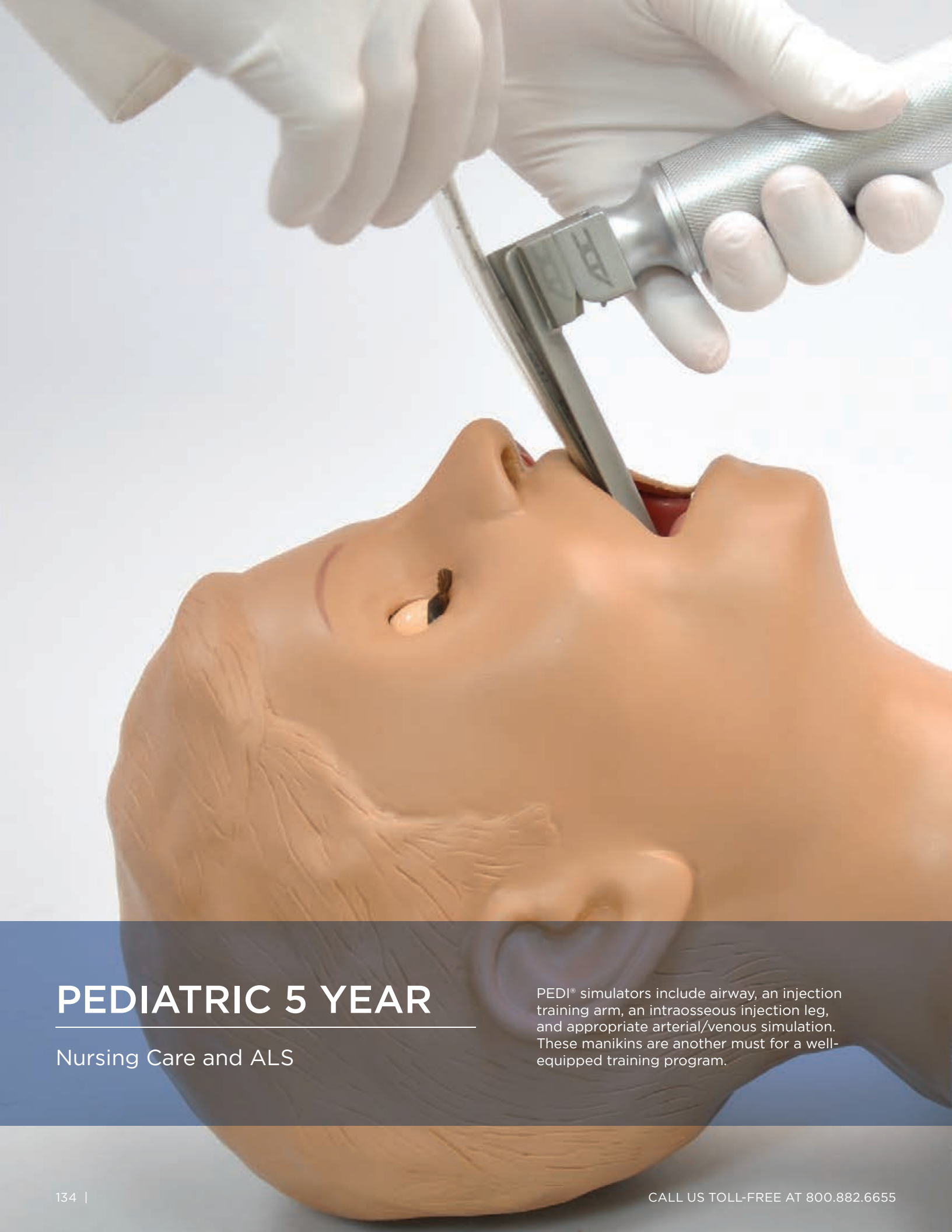
Deltoid & Abdominal Incisions
S303.980.1
S303.980.3

Buttock injection sites
S303.857.3

Package of 10 Disposable Airways
S304.841

Package Of 100 Disposable Airways
S304.842

OMNI® Blood Pressure Arm
S303.250.989L
S304.989L
S303.989L



PEDIATRIC 5 YEAR

Nursing Care and ALS

PEDI® simulators include airway, an injection training arm, an intraosseous injection leg, and appropriate arterial/venous simulation. These manikins are another must for a well-equipped training program.

A perfect combination of nursing and emergency features.

The MIKE® and MICHELLE® 5-year-old is a sophisticated pediatric simulator for training in standard and advanced clinical procedures.

Five-Year-Old Multipurpose Patient with OMNI® 2
S157.250.PK

Five-Year-Old Multipurpose Patient
S157.PK

MIKE & MICHELLE® Five Year PEDI® with OMNI® 2
S155.250.PK

MIKE & MICHELLE® 5 Year PEDI®
S155.PK

MIKE & MICHELLE® Basic
S150.PK

OMNI® 2 Real-time eCPR™ feedback

- Monitor CPR quality metrics in real-time
- Interactive checklists let you easily track provider actions during the exercise
- Export CPR performance reports for debriefing

Fully articulating

Articulating head, neck, and jaw permits head tilt/chin lift, jaw thrust, and neck extension into the "sniffing" position.

Intubatable airway

Anatomically accurate airway with cricoid cartilage permitting intubation, suctioning, and the Sellick maneuver.

Intraosseous access

Intraosseous infusion and injection system with realistic tibia bones. Allows infusion of fluids, blood and/or drugs directly into the bone marrow of the tibia.

S157/S155/S150 | 5-Year-Old Pediatric Nursing and CPR Simulators

Features	S157.250	S157	S155.250	S155	S150
Full Body with soft, lifelike face skin with molded hair	•	•	•	•	•
Eyes can be closed or opened manually: realistic eye sockets	•	•	•	•	•
Head tilt/Chin lift	•	•	•	•	•
Oral/Nasal endotracheal intubation	•	•	•	•	-
Oral/Nasal nasogastric intubation	•	•	•	•	•
ongue, teeth, and realistic airway	•	•	•	•	-
Intraosseous infusion	•	•	•	•	o
IV training arm	•	•	•	•	o
Femoral vein	•	•	•	•	-
Manual palpable pulses	•	•	•	•	-
Carotid, Femoral, Brachial	•	•	•	•	-
Stomas for ileostomy, colostomy, and suprapubic exercises	•	•	-	-	o
Interchangeable genitalia	•	•	-	-	•
Male and female catheterization	•	•	-	-	•
BVM with realistic chest rise	•	•	•	•	-
CPR anatomical landmarks	•	•	•	•	-
Chest compressions and ventilations are measured and logged	•	o	•	o	-
Tracheostomy care	•	•	-	-	•
Lavage/gavage	•	•	•	•	o
G-tube placement	•	•	-	-	o
Enema administration	•	•	-	-	•
Placement of rectal suppositories	•	•	-	-	-
Intramuscular injection sites	•	•	•	•	•
Simulated ear canal	•	•	•	•	•
Practice gastric suctioning exercises	•	•	•	•	•
Articulating head, jaw, arm, and legs	•	•	•	•	•
Detachable at waist for easy storage	•	•	•	•	•
Carrying bag and instruction manual	•	•	•	•	•

Skin tone options available at no extra charge

• Standard o Optional Add-On/Accessory

OMNI® 2 wireless control interface

The new OMNI® 2 is an easy-to-use, wireless interface designed to place the best tools to drive simulation-based exercises right in the palm of your hand.

Intuitive touchscreen interface with built-in wireless connectivity

- Make changes on-the-fly or trend them over time
- Event Log records participant actions, changes in vital signs, and input notes to support debriefing

OMNI® 2 Real-time eCPR™ feedback

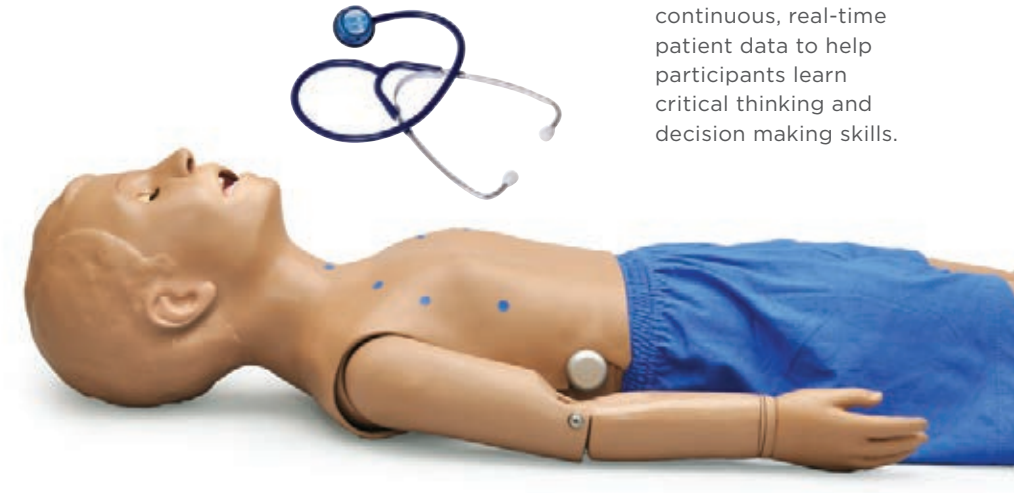
- Monitor CPR quality metrics in real-time
- Interactive checklists let you easily track provider actions during the exercise
- Export CPR performance reports for debriefing

OMNI® 2 Virtual patient monitor support

The new GAUMARD® virtual patient monitor for OMNI® 2 looks and functions like a real device. It offers continuous, real-time patient data to help participants learn critical thinking and decision making skills.

Heart and lung sounds kit with smart stethoscope upgrade

- Convenient torso overlay with sensor network hidden beneath the skin
- Hear the appropriate heart and lung sounds as the stethoscope bell is moved across the front & back of the torso
- Includes our Virtual Stethoscope with multiple heart and lung sounds
- An external speaker plugs into the Virtual Stethoscope so a classroom can hear what the student hears



Models, Options, and Accessories

Model	S157.250.PK	S157.PK	S155.250.PK	S155.PK	S150.PK
Options					
OMNI® interface with real-time CPR feedback	OMNI® 2 Included	OMNI® 1 S157.184	OMNI® 2 Included	OMNI® 1 S155.184	-
Subclavian access	-		-		S150.707
IV training Arm	Included		Included		S150.803R.IV
IO Leg	Included		Included		S150.702
External Stoma Sites	Included		Included		S150.703
Chest decompression and drainage	-		-		S150.711
Heart and Lung Sounds Kit	S157.848		S155.848		S150.848

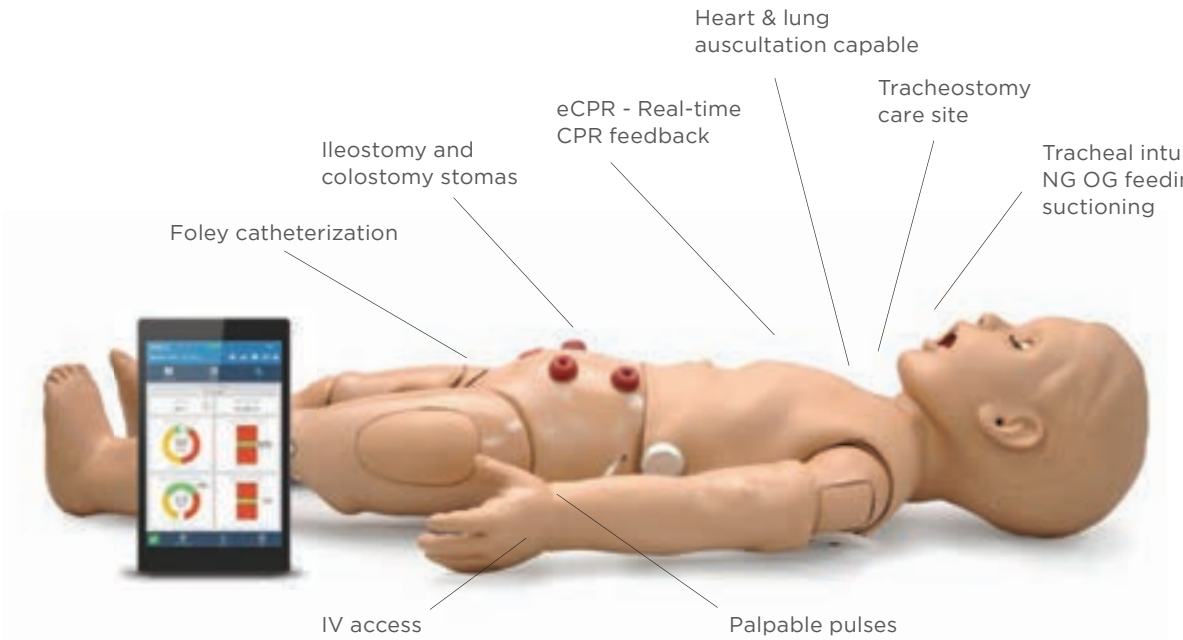
Skin tone options available at no extra charge

PEDIATRIC 1 YEAR

Nursing Care and ALS

Toddler nursing and emergency care simulation made easy.

The Mike and Michelle simulators are perfect for nursing and emergency care skills training. Practice basic and advanced skills, including catheterization, tracheostomy care, intubation, IV therapy, and more.



One Year Multipurpose Patient

One Year Patient Simulator with OMNI® 2

S117.250.PK

One Year Patient Simulator

S117.PK

One Year PEDI® Simulator

Pediatric Care Simulator with OMNI® 2

S115.250.PK

Pediatric Care Simulator

S115.PK

Pediatric Care Simulator

S110.PK

S117/S115/S110 | 1-Year-Old Pediatric Nursing and CPR Simulators

Features	S117.250 S117	S115.250 S115	S110
Full Body with soft, lifelike face skin and molded hair	•	•	•
Eyes can be closed or opened manually; realistic eye sockets	•	•	•
Head tilt/Chin lift	•	•	•
Oral/Nasal endotracheal intubation	•	•	–
Oral/Nasal nasogastric intubation	•	•	•
Tongue and teeth	•	•	–
Intraosseous infusion	•	•	o
IV training arm	•	•	o
Femoral vein	•	•	–
Manual palpable pulses	•	•	–
Radial	•	o	–
Femoral and brachial	•	•	–
Popliteal	•	–	–
Stomas for Ileostomy, colostomy, and suprapubic exercises	•	–	o
Interchangeable genitalia	•	–	•
Male and female catheterization	•	–	•
BVM with realistic chest rise	•	•	–
CPR anatomical landmarks	•	•	–
Tracheostomy care	•	–	•
Lavage/gavage	•	•	•
G-tube placement	•	–	•
Enema administration	•	–	•
Placement of rectal suppositories	•	–	–
Intramuscular injection sites	•	•	•
Simulated ear canal	•	•	•
Practice gastric suctioning exercises	•	•	•
Articulating head, arms, and legs	•	•	•
Realistic hands, feet, fingers, toes	•	•	•
Soft carrying bag & Instruction manual	•	•	•

Skin tone options available at no extra charge

• Standard o Optional Add-On/Accessory

OMNI® 2 Wireless Control interface

- Monitor CPR quality metrics in real-time
- Interactive checklists let you easily track provider actions during the exercise
- Export CPR performance reports for debriefing

Heart and lung sounds kit with smart stethoscope upgrade

- Convenient torso overlay with sensor network hidden beneath the skin
- Hear the appropriate heart and lung sounds as the stethoscope bell is moved across the front and back of the torso
- Includes our Virtual Stethoscope with multiple heart and lung sounds
- An external speaker plugs into the Virtual Stethoscope so a classroom can hear what the student hears

Models, Options, and Accessories

Model	S117.250.PK	S117.PK	S115.250.PK	S115.PK	S110.PK
Upgrades					
Real-time CPR feedback interface	OMNI® 2 Included	OMNI® 1 S117.184	OMNI® 2 Included	OMNI® 1 S115.184	-
IV training Arm	Included	Included	Included	Included	S110.803R.IV
IO Leg	Included	Included	Included	Included	S110.702
External stoma sites	Included		-	-	S110.703
Chest decompression and drainage	S117.711		-	-	S110.711
Heart and Lung Sounds Kit	S117.848		S115.848		S110.848

Skin tone options available at no extra charge

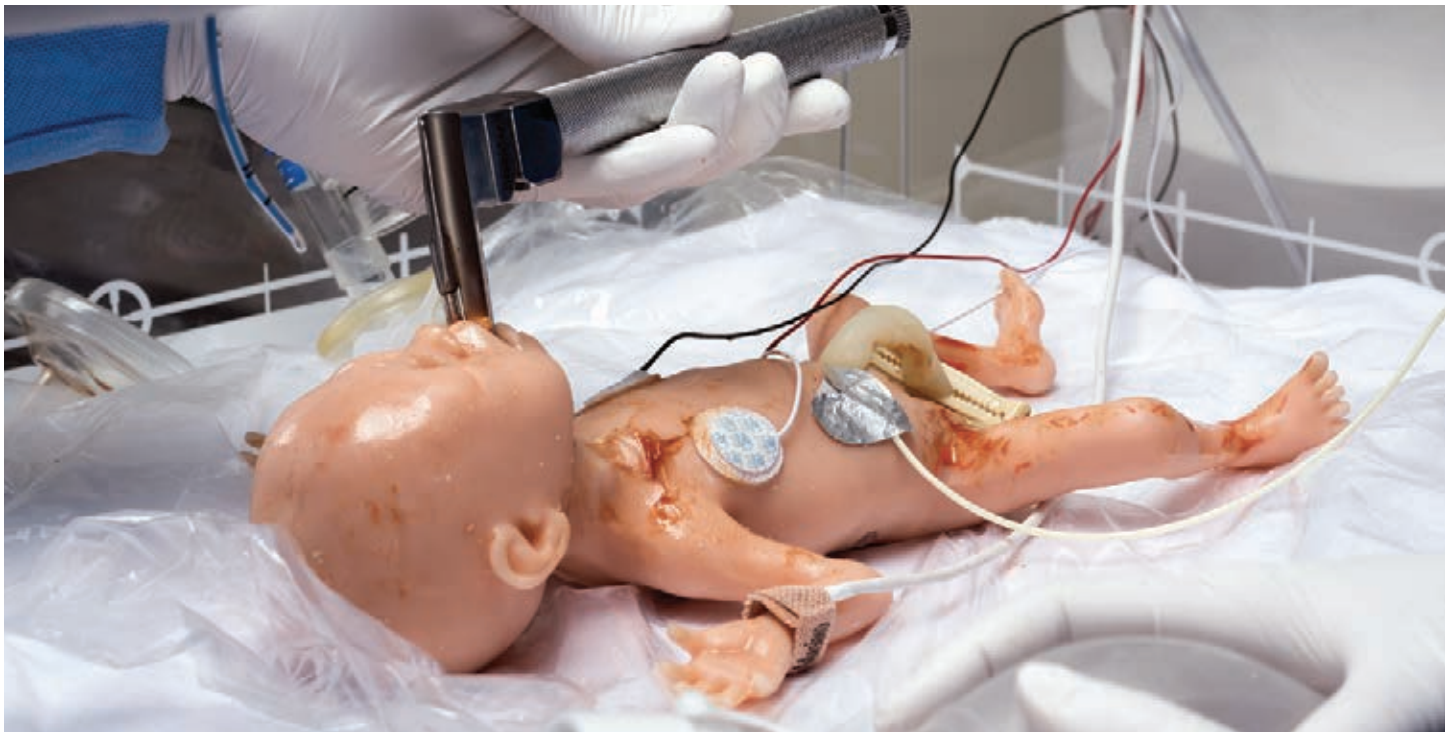
PREMIE HAL® S108.100

24-Week Preterm Newborn Skills Trainer

- Anatomically accurate oral cavity and airway
- Visible chest rise with assisted ventilation
- Realistic chest compression and recoil
- Fontanelle, umbilical, brachial, and femoral pulses
- IV cannulation, umbilical artery, and catheterization

Critical thinking and skills training through enriched experiences.

The Premie HAL® S108.100 is a lifelike, 24-week preterm patient simulator designed to facilitate the training of healthcare professionals in the areas of airway management, respiratory support, and resuscitation.



Suctioning

Bag ventilation

Active Resuscitation

Positive pressure ventilation

Realistic, preterm stabilization and resuscitation exercises.

Premie HAL® S108.100 has a lifelike, anatomically accurate oral cavity and airway, which allows participants to rehearse stabilization and resuscitation for preterm infants.

- Airway landmarks include: epiglottis, glottis, and vocal cords
- Realistic chest recoil during CPR
- Manual pulses: Brachial, Femoral, Umbilical, and Fontanelle
- Vascular access via hand, scalp, and umbilicus
- Supports:
  - » UVC/UAC sampling and infusion
  - » PICC line placement

Premie HAL® S108.100 | Preterm Newborn Skills Trainer

True-to-life respiratory support training.

Premie HAL® S108.100 has realistic lungs that respond to respiratory support like a real premature infant. This allows care providers to practice advanced, neonatal respiratory care in situ and interpret actual PV waveforms.

- True-to-life lung compliance
- Visible chest rise following recommended flow, PIP, and PEEP values
- Supports standard positive-pressure ventilation devices
  - » BVM
  - » CPAP
  - » Mechanical ventilators

Premie HAL®

S108.100.PK

Premie HAL, IV bag, stand, tubing, filling kit, drainage kit, scalp IV inserts, squeeze bulb with tubing kit, navel insert, umbilical cords, replacement left IV arm, baby blanket, mineral oil lubricant, concentrated blood, medical tape, canvas carrying bag, and One-Year Limited Warranty. Skin tones available at no extra charge.

Features

- Age: 24 Week preterm neonate
- Length 12.5" (31.75cm)
- Weight 1.3lbs (.59 kg)

Airway

- Lifelike, anatomically accurate oral cavity and airway
- Lifelike gums and appropriately sized tongue
- Endotracheal intubation
- Sellick maneuver
- Nose and oral cavity suction

Breathing

- True-to-life lung compliance
- Visible chest rise following recommended flow, PIP, and PEEP values
- Supports standard positive pressure ventilation devices including BVM, CPAP, and mechanical ventilators

Cardiac

- Pulses (manual)
  - » Brachial
  - » Femoral
  - » Umbilical
  - » Fontanelle
- Realistic chest recoil during CPR

Vascular access

- IV cannulation
  - » Hand
  - » Scalp
- UVC/UAC infusion and sampling
- PICC line placement
- Navel insert

Gastrointestinal

- Gastric distension
- Patent esophagus
- NG/OG intubation
- Gastric suctioning and feeding

Enhancing skills training through critical thinking.

The new GAUMARD VIRTUAL INSTRUMENTS® Patient Monitor Skills Trainer is designed to help you easily incorporate vital sign interpretation and documentation into any scenario. Display 15+ vital sign parameters and provide participants with a data-rich simulation experience to enhance critical thinking and clinical decision-making.

OMNI® 2 controller.

- Lightweight OMNI® 2 touchscreen interface
- Wireless control at distances of up to 30 feet away
- Control over 35+ vital sign parameters including HR, ECG, RR, BP, SpO_2, $EtCO_2$, and much more
- Update vital sign values on-the-fly
- Trend vital sign improvements and deteriorations over time
- Comprehensive ECG library with 25+ preprogrammed rhythms
- Evaluate simulation participants individually or as a group
- Easily document provider actions with the built-in checklist
- Save, email, and print event logs with trend graphs for data-rich debriefing
- Includes 5 premature infant scenarios:
  - » CPAP and OG tube placement
  - » Infant Resuscitation
  - » Preemie early-onset sepsis
  - » Respiratory distress syndrome
  - » Umbilical catheterization

GAUMARD VITALS™ patient monitor skills trainer.

- Customizable screen layout mimics standard patient monitors
- Display 15+ parameters including HR, ABP, SpO_2, RR, $EtCO_2$, temperature, time, and more
- Includes 5 patient interfaces: adult, pediatric, full-term newborn, premature infant, and fetal monitor
- Customizable vital sign parameter alarms
- Display up to 8 numeric parameters and 5 real-time waveforms
- Built-in virtual defibrillator and pacer
- Electronic Fetal Monitor screen displays information in real-time
- Audible heart tones simulate fetal heart tones or fetal scalp electrode
- Review up to 2 hours of recorded fetal tracings
- Save/print fetal tracings for debriefing

GAUMARD VITALS™ Bedside Patient Monitor Skills Trainer

S600.1.PK
All-in-One Touchscreen PC, OMNI® 2 Tablet, Virtual Patient™ Activation Code for OMNI® 2, accessories.

GAUMARD VITALS™ Mobile Patient Monitor Skills Trainer

S600.2.PK
Microsoft Tablet PC, OMNI® 2 Tablet, Virtual Patient™ Activation Code for OMNI® 2, accessories.

NEWBORN PEDI® S109

Newborn Skills Trainer

- Anatomically accurate oral cavity and airway
- Visible chest rise with assisted ventilation
- Realistic chest compression and recoil
- Fontanelle, umbilical, brachial, and femoral pulses
- IV cannulation, umbilical artery catheterization, and IO infusion

Advanced neonatal skills training

With its anatomically accurate features and lifelike feel, Newborn PEDI® introduces a new level of realism to neonatal procedural skills training.

- Airway intubation
- Resuscitation
- IV cannulation
- Umbilical catheterization
- IO infusion
- Lumbar puncture
- Pulse palpation

Anatomically accurate epiglottis, glottis, trachea

IV sites support bolus, infusion, and sampling

Umbilical access, sampling, and continuous infusion

Lumbar puncture needle insertion and sampling

Features

- Full-term neonate, 8 lbs. 19.5 in
- Smooth full-body skin
- Articulated limb joints with full range of motion
- Detachable umbilical cord
- Palpable lumbar landmarks
- Flexible spine

Airway

- Anatomically accurate oral cavity and airway
- Endotracheal intubation
- Supraglottic airway insertion
- NG/OG intubation and feeding
- Sellick maneuver
- Positive pressure ventilation
- Suctioning

Breathing

- Visible chest rise with positive-pressure ventilation
- Chest tube insertion (unilateral)

Cardiac

- Realistic chest compression and recoil
- Palpable pulses: fontanelle, umbilical, brachial, and femoral (manual)

Vascular Access

- IV cannulation: bolus, infusion, and sampling
- Hand
- Scalp
- Umbilicus
- Umbilical catheterization (UVC/UAC): access, continuous infusion, and sampling
- Heel stick with blood draw (bilateral)
- Lumbar puncture: catheterization, infusion, and sampling
- Anterolateral thigh intramuscular injection (unilateral)
- IO tibial infusion (bilateral)

Gastrointestinal

- Patent esophagus
- NG/OG intubation and feeding
- Gastric suctioning
- Stoma care: ileostomy, colostomy, suprapubic
- Urinary catheterization with return
- Interchangeable male and female genitalia

Newborn PEDI®

S109.PK

NEWBORN PEDI®, genitalia, stomas, umbilical cords, chest tube sites, IO bones, heel stick sites, lubricant, IV filling kit.

Newborn Multipurpose Patient

Newborn Multi. Patient with OMNI® 2

S107.250.PK

Newborn Multi. Patient

S107.PK

Newborn PEDI® Simulator

Newborn PEDI® with OMNI® 2

S105.250.PK

Newborn PEDI®

S105.PK

SUSIE® and SIMON®

Newborn Advanced Care Simulator

S100.PK

PEDI® BLUE Neonatal Simulator with Newborn HAL® Body

PEDI® BLUE Neonate with OMNI® 2

S320.101.250.PK

PEDI® BLUE Neonate with OMNI® 1

S320.101.PK

PREMIE™ BLUE Simulator with Smartskin™ Technology

PREMIE BLUE with OMNI® 2

S108.250.PK

PREMIE BLUE

S108.PK

SUSIE SIMON® newborn advanced care simulator

- Soft and flexible face skin
- Self-molded hair
- Realistic eyes
- NG exercises to demonstrate tube feeding and gastric suction
- Simulated ear canal
- Soft arms and legs rotate within the torso body for lifelike feel and position
- Soft hands, feet, fingers, and toes
- Heel stick and finger prick technique
- Soft upper body skin over torso for “baby-like” feel
- Bathing and bandaging activity
- Interchangeable genitalia
- Urethral passage and bladder
- Male and female catheterization
- Enema administration
- Soft carrying bag
- Instruction manual

Nasal intubation
NG exercises to demonstrate tube feeding and gastric suction.

Catheterization
Male and female catheterization. Removable internal tanks.

SUSIE SIMON®

Newborn Advanced Care Simulator
S100.PK

Newborn Training Arm
S100.803R.IV

Newborn Intraosseous Option
S100.702

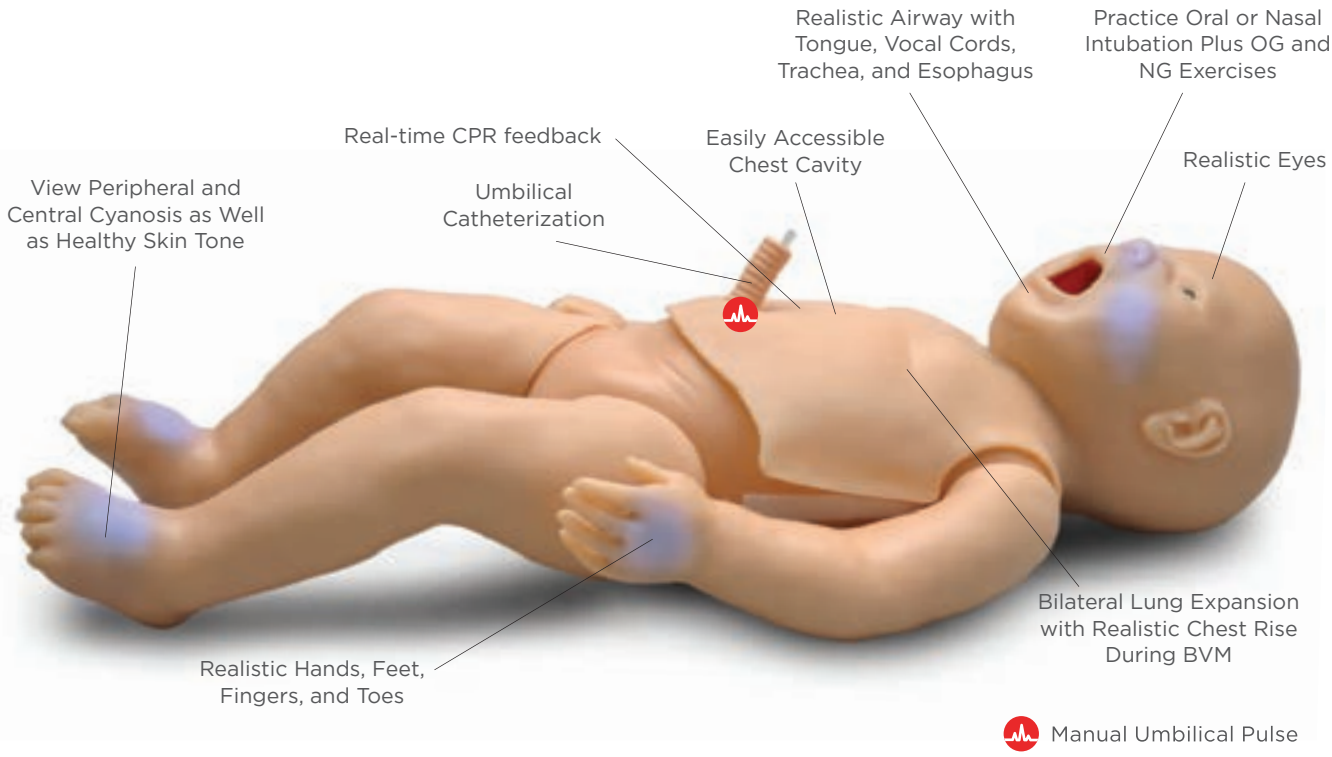
External Stoma Sites
S100.703

Umbilical Catheterization Site
S100.704

Temporal Venous Access Sites
S100.706

PEDI® BLUE Neonatal Simulators

A spectacular newborn simulator which changes color based upon an initial pre-selected condition and measures the effectiveness of airway ventilation and chest compression. In addition, the simulator has all the conventional features found in airway management trainers. Optional accessories include an intraosseous leg and an injection training arm.



Airway management

Realistic airway with tongue, vocal cords, trachea, and esophagus. Practice intubation using a Miller 1 blade and uncuffed ET tube or LMA.

Cyanosis

View peripheral and central cyanosis as well as healthy skin tone. Skin turns to healthy color with proper CPR.

CPR

Practice neonatal CPR with either two-thumb “encircling” technique or two-finger alternate compression method. Monitor compressions and ventilations with OMNI® controller.

Features

- Full-size articulating neonate
- Realistic airway with tongue, vocal cords, trachea, and esophagus for airway management exercises
- eCPR™ - Compression and ventilation sensors
- Oral or nasal intubation plus suctioning
- Crico prominence permits the Sellick maneuver
- Bilateral lung expansion with realistic chest rise
- Practice intubation using a Miller 1 blade and uncuffed 2.5 ET tube or LMA
- View peripheral and central cyanosis as well as healthy skin tone
- Pulsatile element with use of hand-held squeeze bulb
- Simulate neonatal CPR with either two-thumb "encircling" technique or two-finger alternate compression method
- Practice delicate IO access with optional intraosseous leg
- Practice injection and intravenous techniques with optional training arm
- Includes CPR feedback interface, carrying bag, accessories, power supply, user guide, and One-Year Limited Warranty
- *S320.100 Patent 6,503,087*

PEDI® BLUE with SmartSkin™ and OMNI® 2

S320.100.250.PK

PEDI® BLUE with SmartSkin™ and OMNI® 1

S320.100.PK

PEDI® BLUE with Newborn HAL® body and OMNI® 2

S320.101.250.PK

PEDI® BLUE with Newborn HAL® body and OMNI® 1

S320.101.PK

IO Leg Option

S320.100.702R

IV Training Arm Option

S320.100.803R.IV

OMNI® 2 Real-time eCPR™ feedback

- Monitor CPR quality metrics in real-time
- Interactive checklists let you easily track provider actions during the exercise
- Export CPR performance reports for debriefing

BVM with realistic chest rise

Bilateral lung expansion with realistic chest rise during BVM.

NG and OG exercises

Fluids may be introduced or suctioned via a nasogastric or orogastric tube into stomach reservoir.

Umbilical catheterization

Practice umbilical catheterization by filling umbilical cord using syringe provided.

Umbilical pulses

Simulate pulsatile element with use of hand-held squeeze bulb.

PREMIE BLUE Neonatal Simulators

PREMIE™ Blue depicts a 28-week premature infant and includes an injection arm and intraosseous leg. Students can intubate as well as perform BVM and CPR. PREMIE™ Blue changes color based upon an initial pre-selected condition and measures the effectiveness of airway ventilation and chest compression.

OMNI® 2 Virtual Patient Monitor Support

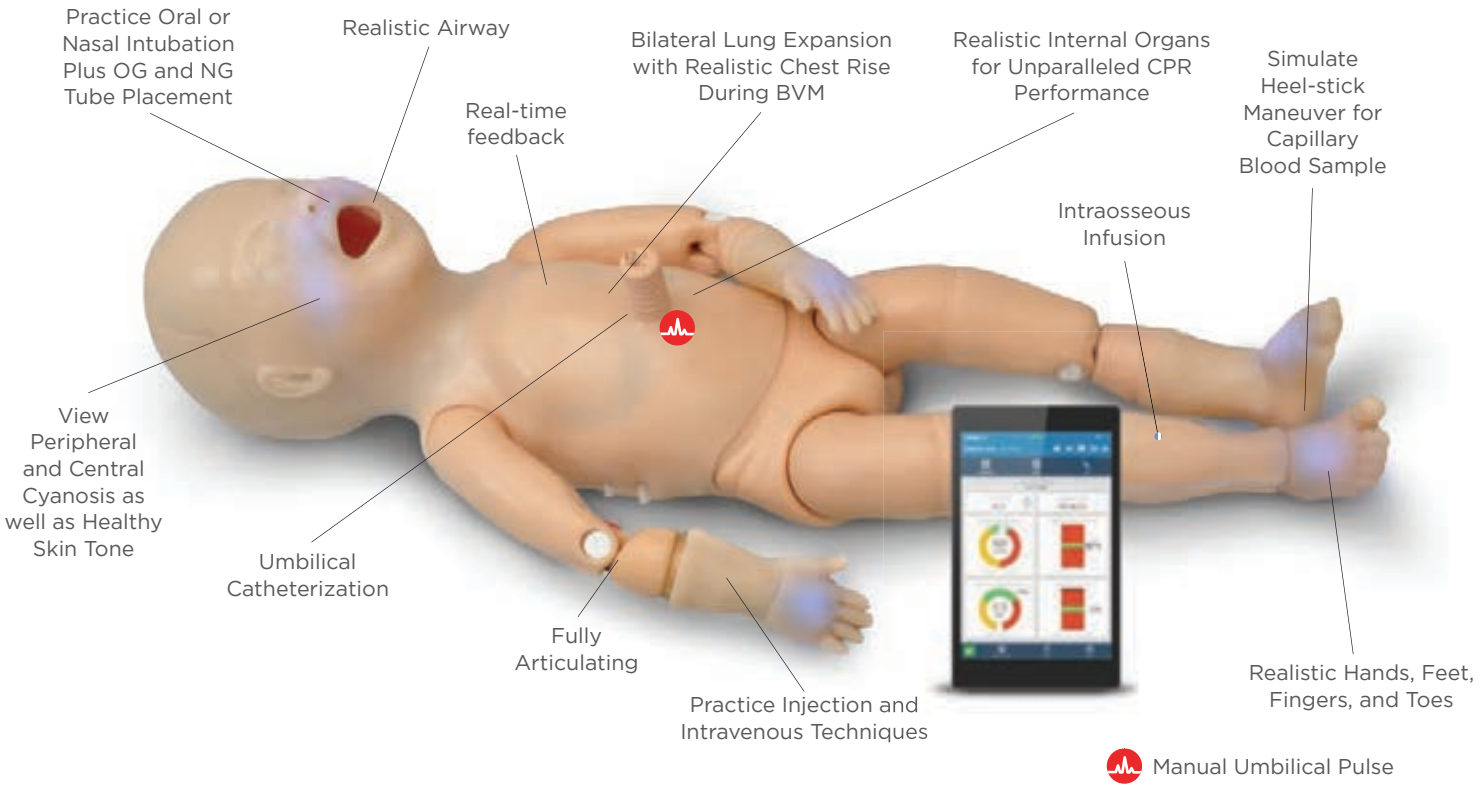
The new GAUMARD® virtual patient monitor for OMNI® 2 looks and functions like a real monitor. It offers continuous, real-time patient data to help learn critical thinking and decision-making skills.

PREMIE BLUE with OMNI® 2

S108.250.PK

PREMIE BLUE with OMNI® 1

S108.PK



Intraosseous access

Intraosseous infusion and injection system with realistic tibia bones. Allows infusion of fluids, blood, and/or drugs directly into the tibia's bone marrow.

Intravenous access

IV access in the lower right arm that can be used for bolus or intravenous infusion as well as for draining fluids.

Cyanosis

View peripheral and central cyanosis as well as healthy skin tone. Skin turns a healthy color with proper CPR.

Features	S108.PK Premie	S107.PK Newborn	S105.PK Newborn	S320.100.PK Newborn	S320.200.PK Newborn
Head tilt	•	•	•	•	•
Programmable cyanosis	•	–	–	•	•
Oral/Nasal endotracheal intubation	•	•	•	•	•
Oral/Nasal nasogastric intubation	•	•	•	•	•
Intraosseous infusion	•	•	•	o	•
IV training arm	•	•	•	o	•
Femoral vein	–	•	•	–	•
Manual palpable pulses	•	•	•	o	•
Radial	–	•	•	o	•
Femoral	–	•	•	o	•
Brachial	–	•	•	o	•
Posterior tibia	–	•	•	o	•
Umbilical	•	•	•	•	•
Stomas for Ileostomy, colostomy, and suprapubic exercises	–		–	–	–
Interchangeable genitalia	–		–	–	–
Male and female catheterization	–	•	–	–	–
BVM with realistic chest rise	•	•	•	•	•
CPR anatomical landmarks and realistic internal organs	•	•	•	•	•
Chest compressions and ventilations are measured and logged	•	o	o	•	•
Lavage/gavage	–	•	•	•	•
Umbilical cord catheterization	•	•	•	•	•
G-tube placement	–	•	–	–	–
Enema administration	–	•	–	–	–
Intramuscular injection sites	–	–	•	–	–
Practice suctioning exercises	•	•	•	•	•

Models, Options, and Accessories

Model	S108.250.PK	S108.PK	S107.250.PK	S107.PK	S105.250.PK	S105.PK	S320.100.250.PK	S320.100.PK
OMNI® Real-Time CPR feedback	OMNI® 2	OMNI® 1	OMNI® 2	OMNI® 1 S107.184	OMNI® 2	OMNI® 1 S105.184	OMNI® 2	OMNI® 1
IV Training	Included		Included		Included		S320.100.803R.IV	
I/O Access with Arm	Included		Included		Included		S320.100.702R	
Chest Decomp and drainage	-		-		S105.711		-	

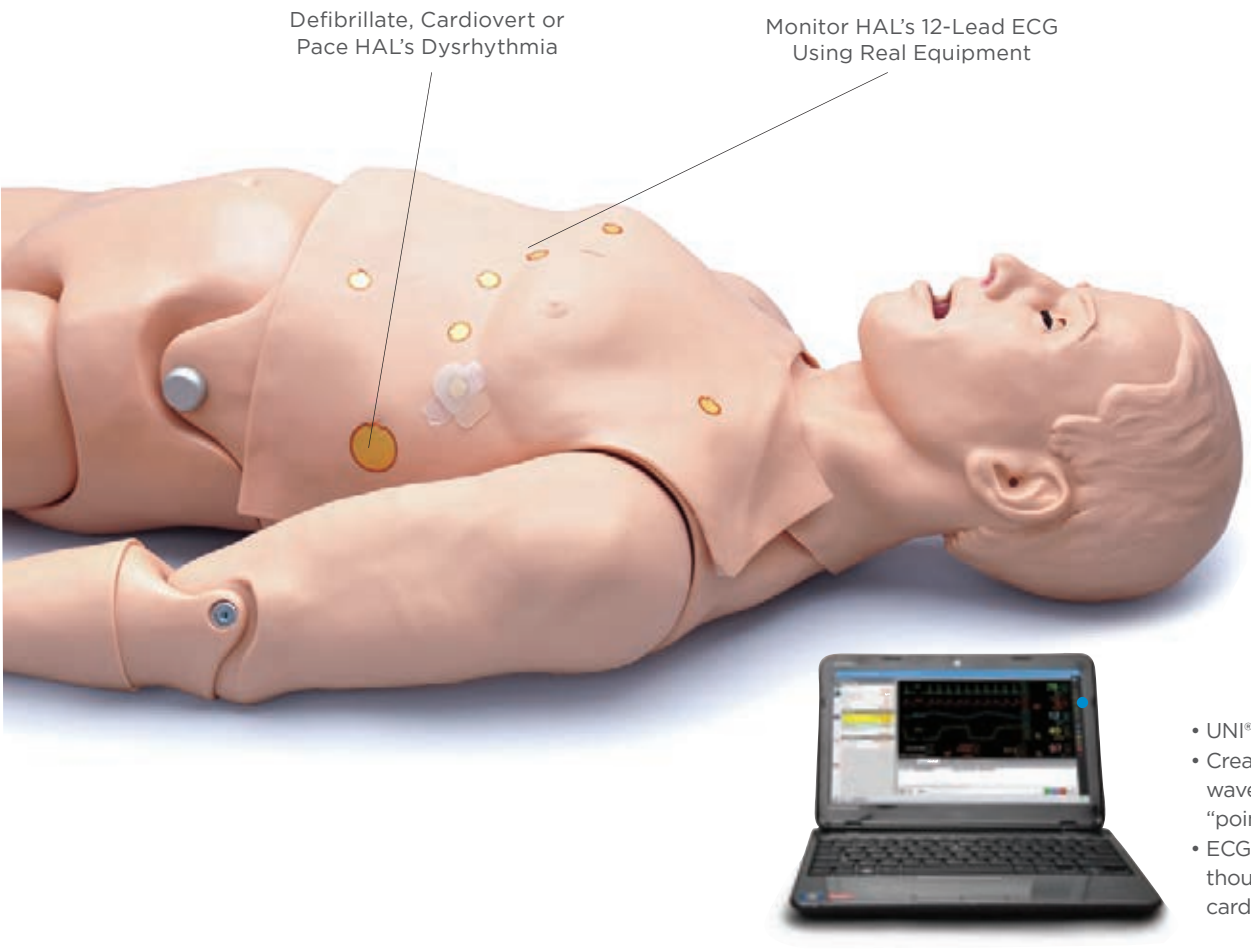
Skin tone options available at no extra charge

• Standard o Optional Add-On/Accessory

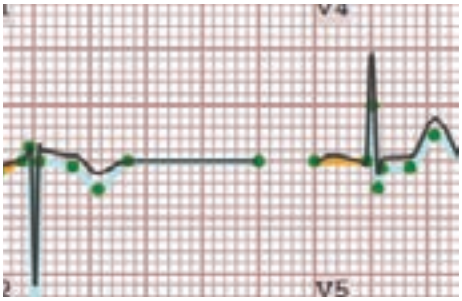
HAL® S1020

12-Lead ECG Skill Trainer

Meet HAL® S1020



- UNI® Laptop PC included
- Create and modify waveforms even on a "point-by-point" basis
- ECG library features thousands of cardiac rhythms



Specify additional 12-lead ECGs using our editing feature

Defibrillate, cardiovert, or pace HAL's dysrhythmia with a real AED

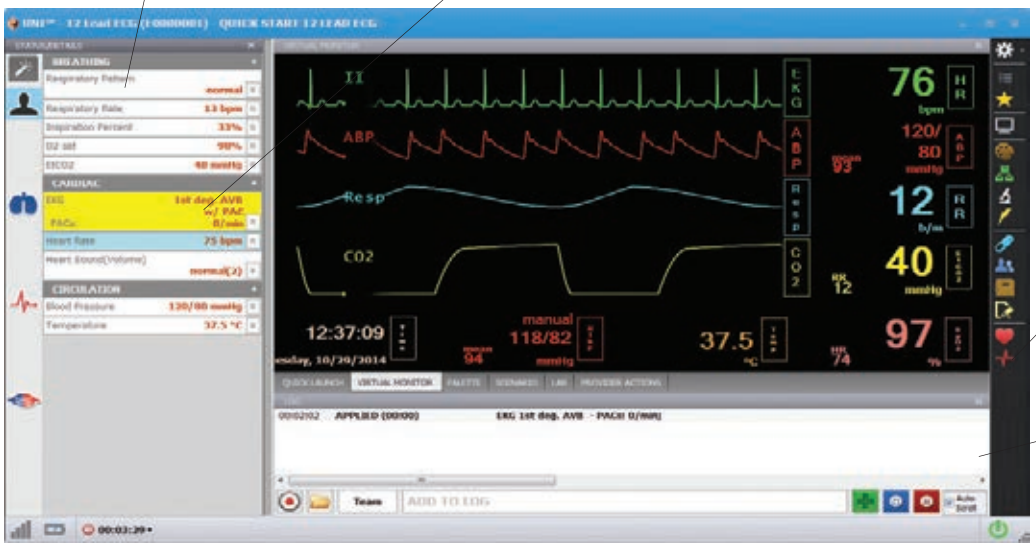
Use your real 12-lead ECG monitor

Status Window Shows HAL's Current Physiologic State

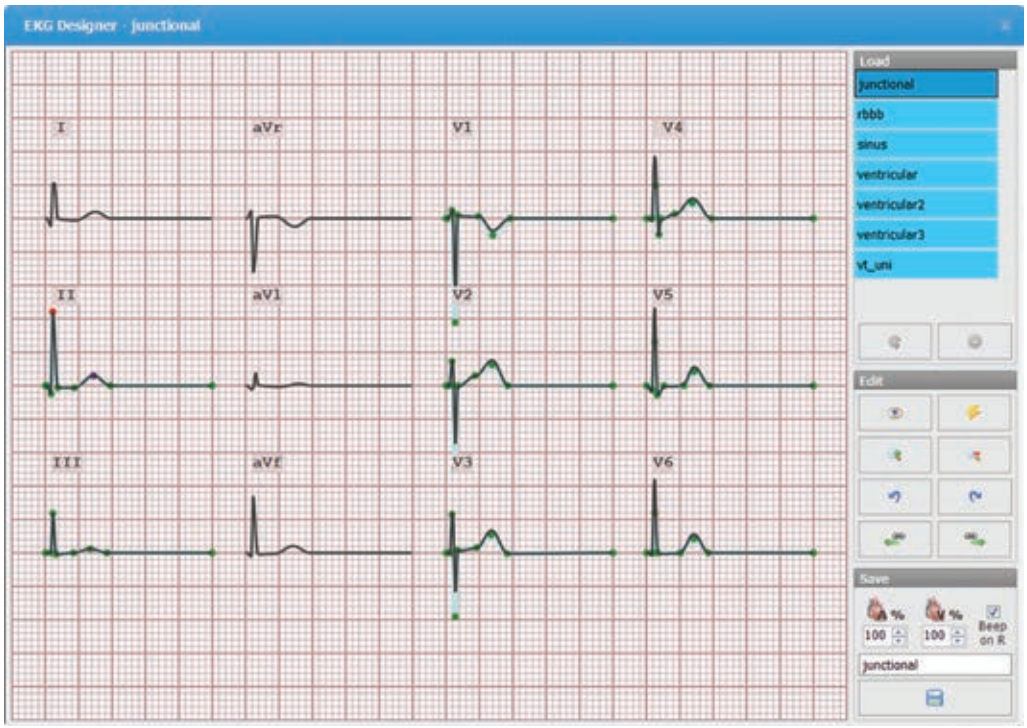
ECG Library Features Thousands of Cardiac Rhythms

Display and Interpret HAL's 12-Lead ECG

Automatic Event Log for Debriefing



S1020 User interface displaying two dynamic ECG waveforms and 12-lead strip



Rhythm editor allows you to create and modify waveforms even on a "point-by-point" basis. Editor is so accurate a real defibrillator will correctly interpret the resulting waveform

HAL® S1020

- Articulating adult HAL® full-size body
- Use your real 12-lead ECG monitor
- Display and interpret HAL's 12-lead ECG
- Improve diagnostic abilities
- ECG library features thousands of cardiac rhythms
- Specify additional 12-lead ECGs using our editing feature
  - » Create and modify waveforms even on a "point-by-point" basis
  - » Editor is accurate; a real ECG monitor will correctly interpret resulting waveform
- Print 12-lead strips from your patient monitor and compare waveforms with those shown on the Details page of the User Interface
- UI also shows any two real-time dynamic ECG waveforms
- Defibrillate, cardiovert, or pace HAL's dysrhythmia
- Use the integrated MI module to:
  - » Specify occlusions, ischemia, injury, and necrosis
  - » Modify infarctions quickly and easily
  - » Quickly generate the resultant dynamic 12-lead ECG
  - » Evaluate resultant dysrhythmia
  - » Assess the extent of HAL's cardiac damage

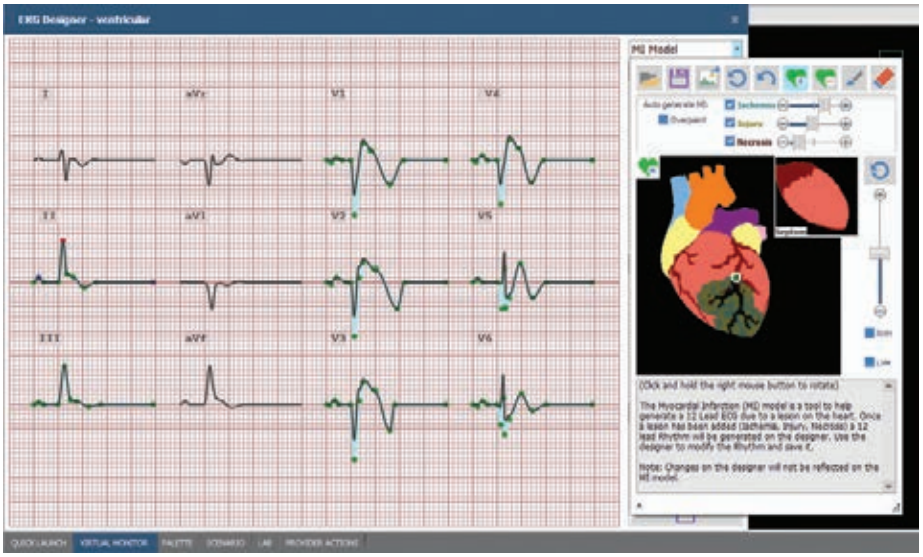
Available as an option

12-Lead capability is available as an option for HAL® S3040.100, S3040.50, S3101, S3000, and S1000 tetherless simulators.

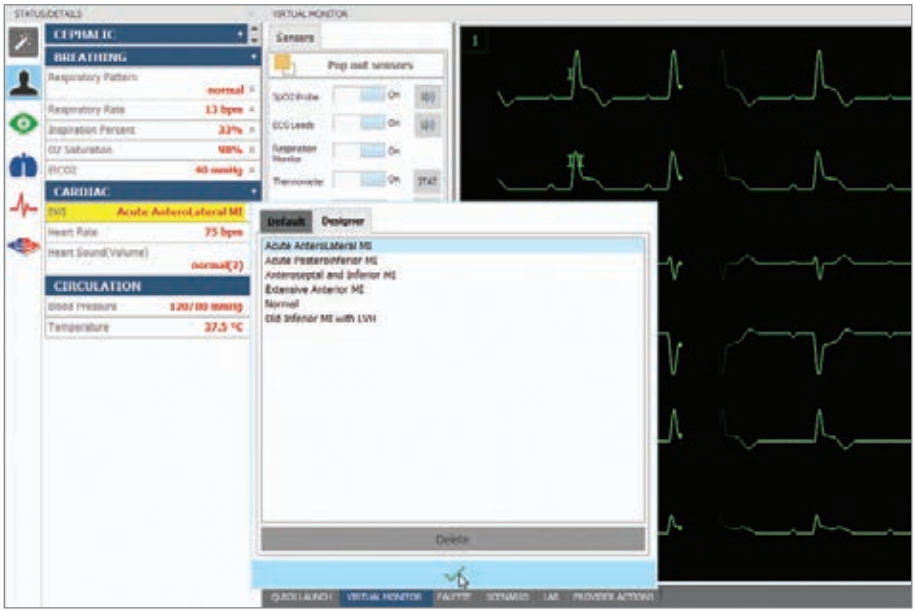
HAL® S1020

S1020.PK

HAL® S1020 patient simulator, UNI® Laptop PC, accessories, user guide, and One-Year Limited Warranty. Skin tones available at no extra charge.



Use the integrated MI module to: specify occlusions, ischemia, injury, necrosis. Modify infarctions quickly and easily evaluate resultant and dysrhythmia and assess the extent of HAL's cardiac damage



Easily apply preprogrammed and customized rhythms to HAL® for participants to interpret and monitor using real equipment

HAL® S1030

Dynamic Airway and Lung Compliance Simulator

- Adult HAL® full-size body
- Use our scenarios, modify them, or create your own
- Intubatable and programmable airway
- Programmable lung compliance
- Independently control right and left side airway resistances
- Use in conventional ventilation modes

New and improved HAL® technology for superior airway and lung compliance simulation. Great for respiratory training programs!

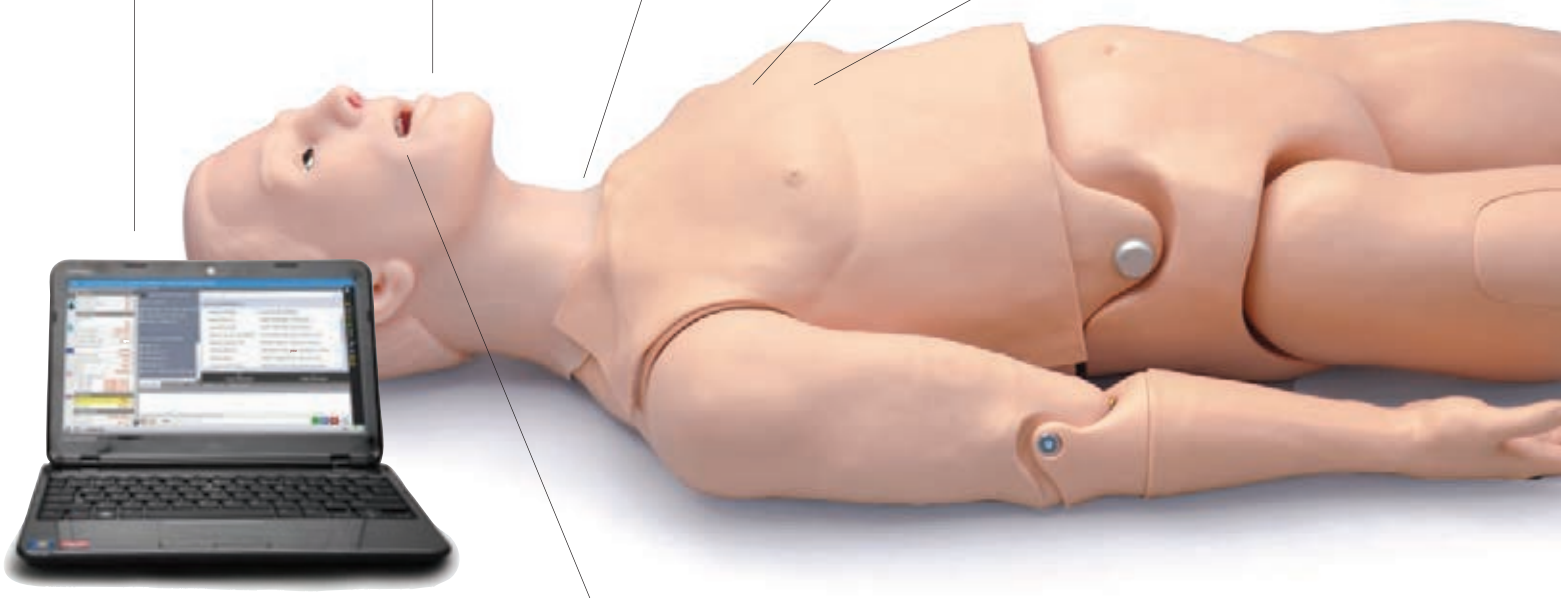
Includes UNI® Laptop PC. Use the built-in scenarios or create your own

BVM, Intubate or Mechanically Ventilate

Program Tongue Edema, Pharyngeal-Swelling and Laryngospasm

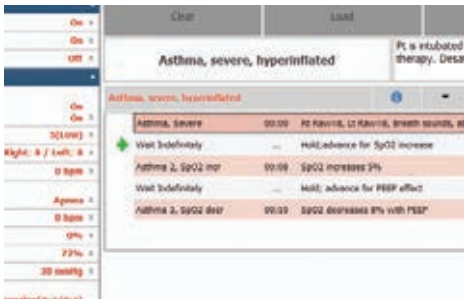
Programmable Lung Compliance. Capable of holding PEEP

Independently Control Right and Left Side Airway Resistances

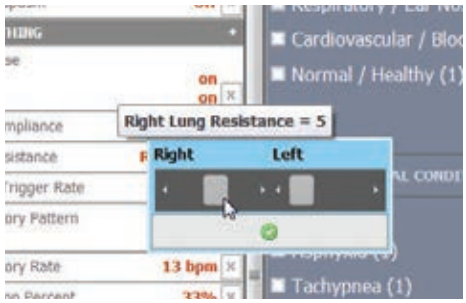


Assess CO_2 Output with End Tidal Detector or Capnography

Receive real-time feedback from real mechanical ventilator



Create scenarios using our proven easy-to-use HAL® software

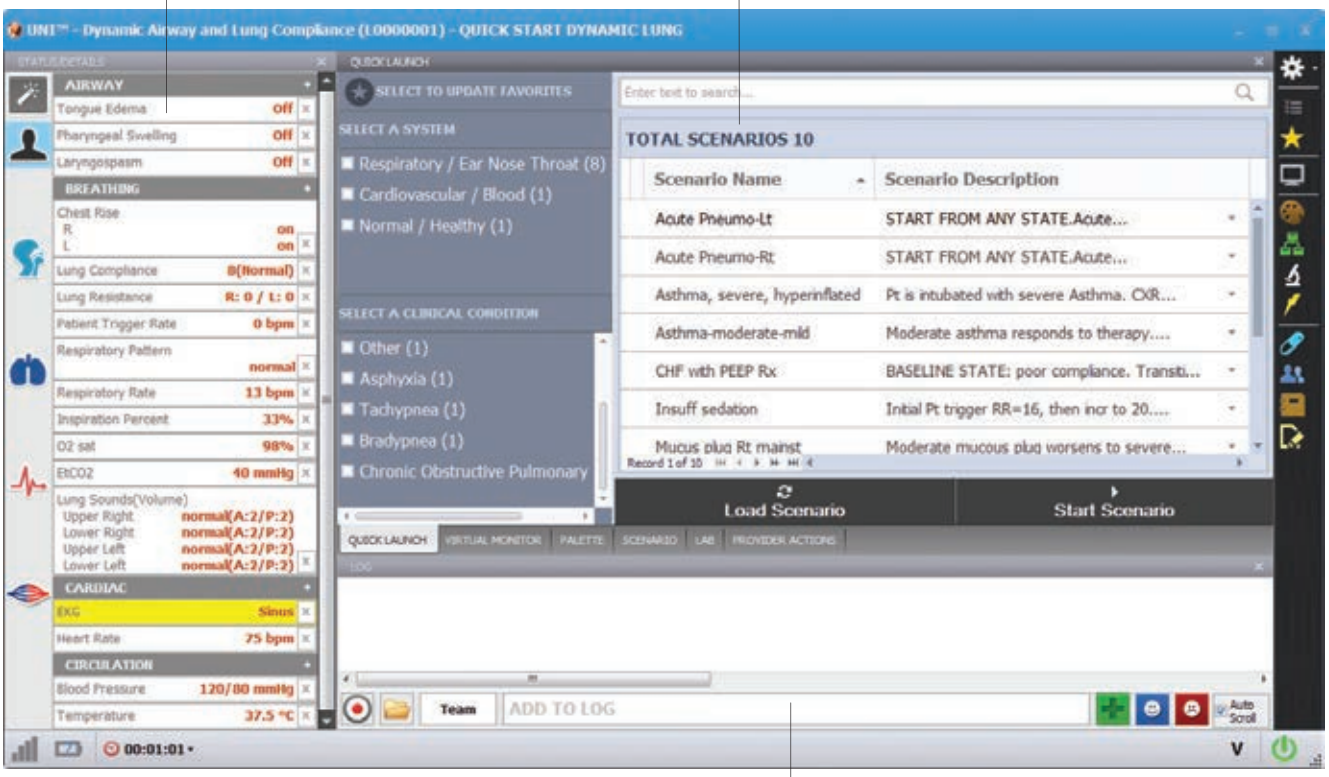


Change lung resistance/compliance "on-the-fly" and see results on a real ventilator on the laptop

HAL® S1030 | Dynamic Airway and Lung Compliance Simulator

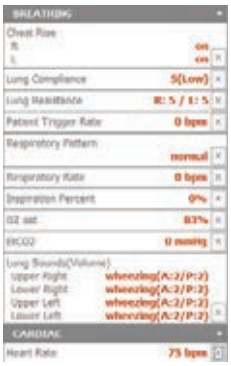
Status Window Shows HAL's Current Physiologic State

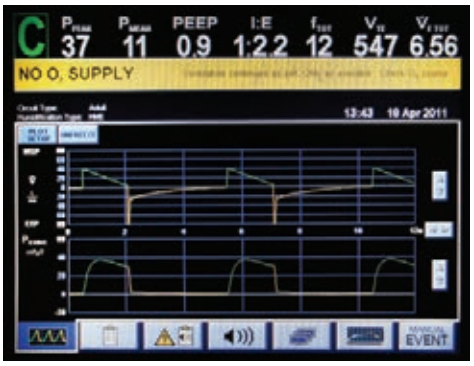
Preprogrammed Scenarios Included



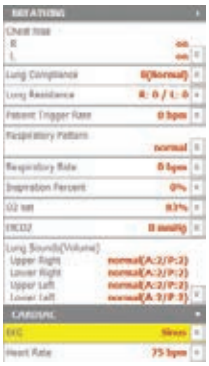
Automatic Event Log Detects Intubation and Ventilation

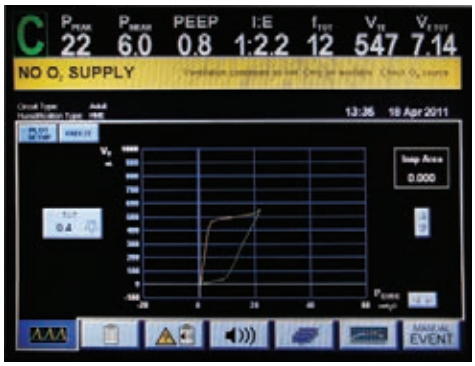
Screenshots using a REAL ventilator connected directly to HAL® S1030, along with the corresponding settings used in the GAUMARD® software:



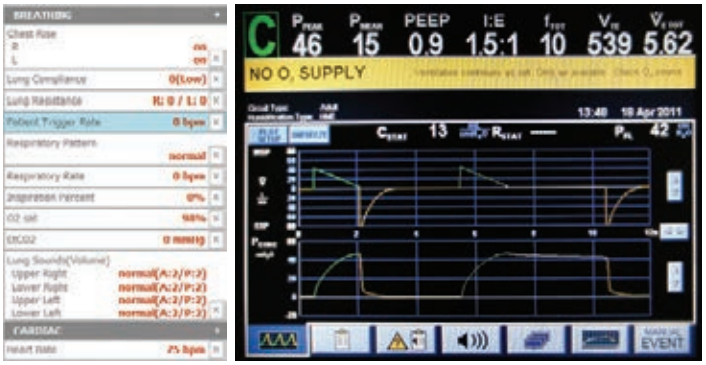


Moderate asthma
Compliance 5, Left/Right Lung Resistance 5



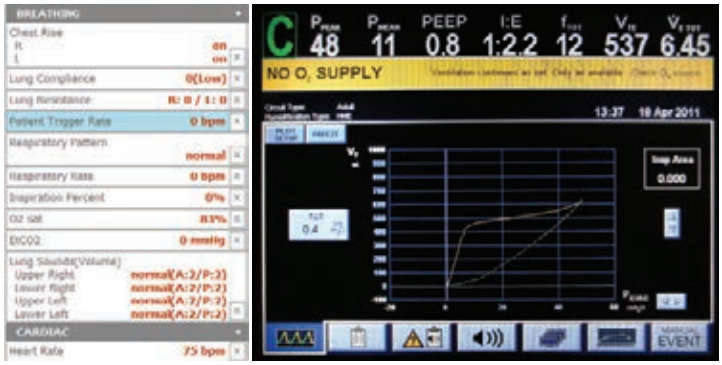


Normal compliance loop
Compliance 7



Severe fibrosis

Compliance 0



Low compliance UNI® controls

Compliance 0

Features

- Articulating adult HAL® full-size body
- Available in ethnic skin tones
- Use our scenarios, modify them, or create your own
- Intubatable and programmable airway
- Programmable lung compliance
- Independently control right and left side airway resistance
- Supports assisted ventilation at variable respiratory rates
- Simulate life-threatening auto-PEEP and tension pneumothorax
- Exhales real and measurable CO_2
- Assess CO_2 output with end-tidal detector or capnography
- Vary lung mechanics throughout your entire simulation exercise
- Receive real-time feedback from real mechanical ventilator
- BVM, intubate, or mechanically ventilate
- Program tongue edema, pharyngeal swelling, and laryngospasm
- Practice intubation and difficult airway management
- Ten levels of static compliance, 15-50 ml/cm H_20
- Capable of holding therapeutic levels of PEEP
- Real CO_2 exhalation
- Specify inspiratory time and rate, inspiratory/expiratory ratio
- Change lung resistance/compliance “on-the-fly” and see results on a real ventilator which are recorded on the laptop
- Pre-programmed airway and lung pathologies including:
  - » Asthma
  - » Chronic Bronchitis
  - » CHF
  - » Emphysema
  - » Pneumothorax
- Set inspiratory effort rate to trigger the ventilator
- Four anterior and four posterior lung sounds
- Use our pre-programmed pathologies or create your own
- Create scenarios using our proven, easy to use, HAL® software
- Connect our simulator to your REAL ventilator, which can be set by volume or pressure

HAL® S1030

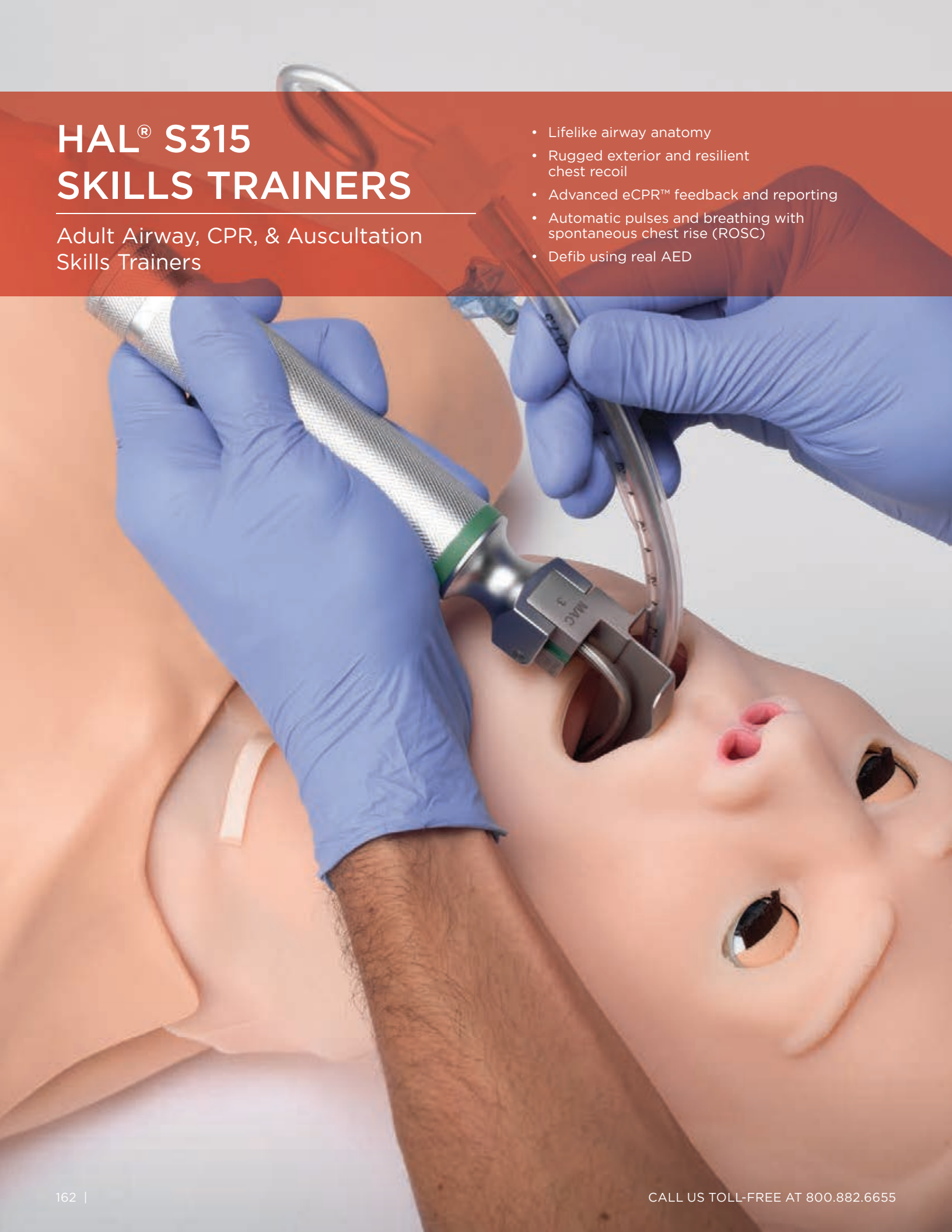
S1030.PK

HAL® full-body patient simulator, UNI® laptop PC, UNI® software license, RF communication module, accessories, user guide, and One-Year Limited Warranty.

HAL® S315 SKILLS TRAINERS

Adult Airway, CPR, & Auscultation Skills Trainers

- Lifelike airway anatomy
- Rugged exterior and resilient chest recoil
- Advanced eCPR™ feedback and reporting
- Automatic pulses and breathing with spontaneous chest rise (ROSC)
- Defib using real AED



A family of skills trainers for adult airway management, CPR, and auscultation training.

HAL® CPR+D Trainer with OMNI® 2

S315.600.250.PK

HAL® CPR+D Trainer

S315.500.M2.PK

HAL® Adult Multipurpose Airway and CPR Trainer

S315.400.M2.PK

HAL® Airway and CPR Trainer with H&L Sounds

S315.300.M2.PK

S315.300.M2.250.PK

Available with OMNI® 2

HAL® Adult Multipurpose Airway & CPR Trainer

S315.100.M2.PK

S315.100.250.PK

Available with OMNI® 2

HAL® Airway & CPR Trainer

S315.M2.PK

S315.M2.250.PK

Available with OMNI® 2

*Product shown with optional OMNI® 2

Easy-to-use, durable, & portable hands-on BLS training.

Whether for outreach or professional development, the new HAL® S315.600 is a great addition to every BLS algorithm training curriculum. Practice assessing breathing, performing quality CPR, delivering a shock, and recognizing the return of spontaneous circulation. The HAL® is the portable, all-in-one training solution for every basic life support training need.

Illustrate shockable and non-shockable EKG with 20+ rhythms

Perform nasal and oral intubation with standard, real adjuncts

Visualize realistic chest rise with BVM ventilation

Identify proper chest rise and pulses without add-on items

Monitor and cardiovert rhythms using a real AED/defibrillator

Defibrillate directly on patches or pad-free posts numerous times

Receive immediate feedback on your actions and select the responses

Check for return of spontaneous circulation

Automatically detect and record events for easy debriefing

Airway and breathing

- Realistic tongue, vocal cords, and trachea
- Practice nasal and oral intubation with realistic tongue, vocal cords, and trachea. Supports ETT, supraglottic airway device, i-gel®, King LT™, and more.
- Illustrate head tilt/chin lift and jaw thrust
- Gastric distension with esophageal intubation and/or excessive ventilation
- Right mainstem intubation presents unilateral chest rise
- Visible chest rise with bag-valve-mask ventilation
- Spontaneous breathing (Automatic)
- Ventilation detection sensors

Circulation

- Anatomically correct landmarks for proper CPR hand placement
- Realistic chest cavity resistance and recoil
- Chest compression depth sensor
- Real-time CPR feedback
- Effective chest compressions generate palpable carotid pulses
- Monitor and cardiovert rhythms using a real AED/defibrillator
- Illustrate 20+ shockable and non-shockable EKG rhythms
- Deliver up to 360 Joules of real energy to skin patches or snap connectors
- Palpable carotid pulses with variable rate synchronized with EKG
- Available with 4-lead ECG site option to support real-time ECG monitoring using real equipment. (S315.600.250.PK1)

Performance monitoring

- Real-time CPR quality feedback
  - » Compression depth and rate
  - » Ventilation rate
  - » Excessive ventilation
  - » No-flow time
  - » CPR cycles
- CPR metronome: audible tones help guide correct compression and ventilation rate and ratio
- Compliant with current adult resuscitation guidelines
- Built-in resuscitation algorithm checklists for tracking individual and team actions

OMNI® 2 features

- Built-in wireless connectivity with a range up to 30 ft.
- OMNI® 2 wireless touchscreen tablet
- Optimized vital sign controls for on-the-fly operation
- Built-in library with 20+ cardiac rhythms and options
- Compatibility with optional virtual vital signs to display 10+ parameters for delivering post-cardiac arrest care
- Alternate virtual shock function capability
- Session log records provider actions, vital signs, CPR metrics, and comments

Debriefing tools

- eCPR™ performance report provides averages for each CPR metric and cycle
- Save, email, and print CPR performance reports for debriefing and archiving

HAL® S315.600 CPR+D Skills Trainer with OMNI® 2

S315.600.250.PK

HAL® S315.600 Skills Trainer, OMNI® 2 Controller, carrying case, user manual, and power supply.

HAL® S315.600 CPR+D and ECG Skills Trainer with OMNI® 2

S315.600.250.PK1

HAL® S315.600 Skills Trainer with 4-lead ECG sites, OMNI® 2 Controller, carrying case, user manual, and power supply.

HAL® S315.600 CPR+D Skills Trainer with OMNI® 2 full-body option

S315.600.250.705

Enhance skills training and run scenario-based exercises with the full-body configuration.

GAUMARD Vitals™ Portable Virtual Monitor

S315.600.250.002

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

Modified defib cables

Philips® - **30080373B**
Physio LIFEPAK® - **30080375B**
Zoll® - **30080374B**

Great features. Zero power required.

GAUMARD's innovative green technology allows HAL® to store the energy generated by chest compressions to power its amazing features.

Without the use of batteries or power cords, HAL® is capable of recording CPR quality and performance metrics, presenting realistic chest rise and palpable pulses after resuscitation, and more.

Take your training to more places and reach more people with the convenience of truly tetherless technology.

Electronics powered by chest compressions. No external power required.

Intubatable airway with lifelike tongue, vocal cords, and trachea

Monitor ventilations and observe realistic chest rise

Real-time ventilation and compression feedback with coaching tones

Select sinus rhythm, ventricular fibrillation, or asystole detectable on your native monitor

Attach your AED pads directly and defib using real energy

ROSC after defibrillation; automatic pulses and visible chest rise

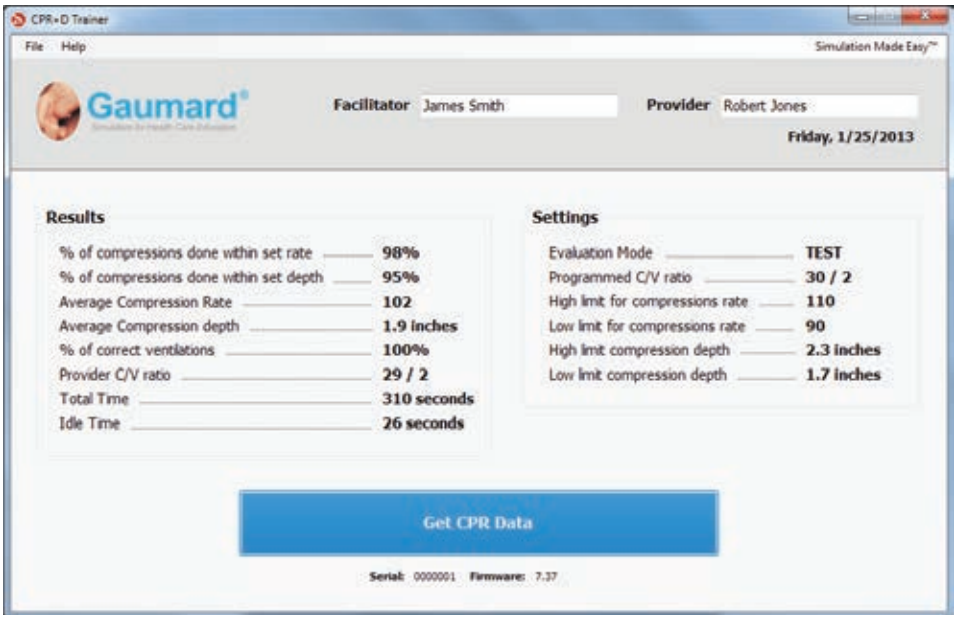
Shock directly to pad-free posts

Advanced feedback and reporting during and after the training

Easily refill the automatic breathing system for the next session

Advanced feedback, reporting, and control.

The CPR+D controller captures detailed performance values for each CPR metric. Connect the controller to a PC to review and export the results.



Features

- Intubatable airway with tongue, vocal cords, and trachea
- Realistic head tilt/chin lift and jaw thrust
- Realistic chest cavity allows students to experience the correct force needed to perform proper chest compressions
- Anatomically correct landmarks for proper hand placement
- Proper chest compressions result in palpable carotid pulses
- Attach real AED pads directly to the conductive skin. Shock the simulator using your defibrillator just like a real patient. Your AED will display the simulator's ECG
- Automatic pulses and breathing with realistic chest rise

During training

For student:

- Coach mode: audible tones guide chest compressions
- Test mode: no guidance provided during test

For instructor:

- Screen on hand-held controller provides compression depth and ventilation effectiveness in easy-to-interpret bar graph format
- Screen prompts instructor when student must compress faster or slower, softer or harder
- Instructor can view real-time compression rate
- Screen reports defibrillation energy

After training

Instructor views student's performance including:

- » Average compression rate per minute
- » Percent compressions in proper rate range
- » Average compression depth
- » Percent compressions in proper depth range
- » Percent ventilations in proper ventilation volume range
- » Actual compression/ventilation (C/V) ratio
- » Exercise duration
- » Idle time
- » Reporting metrics stored in the controller's flash memory can be transferred to a computer using the controller's USB port

Control

Adjust/change feedback and reporting metrics:

- » Proper C/V ratio
- » High and low compression rate limits
- » High and low compression depth limits (in or cm)
- » Proper ventilation volume
- » Manual cardioversion upon defibrillation
- » Program ECG rhythms; choose sinus, ventricular fibrillation, or asystole. Selected ECG rhythm will be seen on your real AED
- » Activate automatic carotid pulse and/or breathing

HAL® S315.500

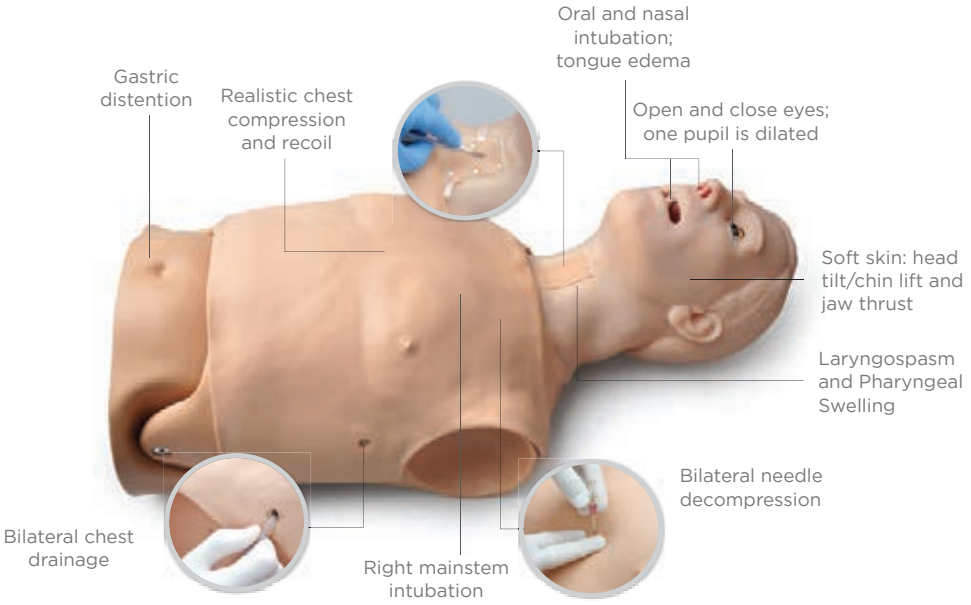
S315.500.M2.PK

Full-size adult male head and torso, hand-held controller with connection cable, carrying bag, and User Guide.

Completely Green. Portable, multipurpose training.

The HAL® S315.400 advanced airway trainer allows learners to practice recognizing and managing a difficult airway via endotracheal intubation or surgical intervention, perform CPR, and treat tension pneumothorax.

What's more, all of HAL's lifelike features operate without external power or batteries. Simply pressurize the internal reservoir using a standard BVM, and it's ready for use. HAL's innovative features and green design make it a powerful trainer that's easy-to-use, effective, and portable.



Use NP/OP tubes, ventilate, or intubate

Manually programmable tongue edema, laryngospasm, and pharyngeal swelling

Surgical trachea inserts included

Realistic chest rise with BVM

Air reservoir is charged using the supplied manual pump or a BVM

Place tracheostomy needle or Shiley tube

Realistic chest compression and recoil

Easy neck flexion and extension. Realistic jaw thrust, head tilt/chin lift

Bilateral needle decompression at 2nd intercostal space

Features

- Realistic airway which is manually programmable to include tongue edema, laryngospasm, and pharyngeal swelling
- Use NP/OP tubes, ventilate, and intubate
- Realistic chest compression/recoil
- BVM produces realistic chest rise
- Intubate using conventional adjuncts
- Inflating lungs produce realistic chest rise
- Gastric distention
- Easy neck flexion and extension
- Unilateral chest rise with right mainstem intubation
- Lungs can be disabled independently
- Surgical airway procedures such as tracheostomy and needle or surgical cricothyrotomy
- Supplied with normal and surgical cricoid cartilage inserts, allowing for longitudinal and transverse incisions
- Bilateral needle decompression at 2nd intercostal space
- Bilateral drainage at 5th intercostal space using conventional large-diameter chest tubes
- Pneumatic controls powered by internal reservoir charged using supplied manual pump or a conventional BVM
- Multifunctional, compact, portable
- Eyes may be open or closed
- Adult male upper body and head
- Silicone face/head skin for realistic jaw thrust, head tilt/chin lift

HAL® S315.400

S315.400.M2.PK

Full-size adult male head and torso, ventilation trachea insert, mini hand pump, surgical trachea kit, replaceable needle pneumo. sites, mineral oil lubricant, talcum powder, instructions manual, and soft carrying bag.

Consumables

Surgical Trachea Inserts

S315.400.M2.984

Set of five inserts.

Trachea Skin Covers

S315.400.M2.923

Set of ten covers.

Cricothyroid Membranes

S315.400.M2.990

Set of ten membranes.

Lubricant

S315.400.M2.974

Four oz. of mineral oil.

Needle Decompression Inserts

S315.400.M2.926

Set of five inserts.

Replacement

Chest skin

S315.400.M2.712

Replacement chest skin.

Surgical Trachea Base

S315.400.M2.999

Replacement trachea base.

HAL® S315 Airway and CPR Trainer

HAL® S315 with OMNI® 2

S315.M2.250.PK

HAL® S315 Basic

S315.M2.PK

Upgrade to Full-Body Configuration

S315.M2.705

HAL® S315.100 Multi-Purpose Airway and CPR Trainer

HAL® S315.100 with OMNI® 2

S315.100.250.PK

HAL® S315.100 Basic

S315.100.M2.PK

Upgrade to Full-Body Configuration

S315.100.M2.705

HAL® S315.300 Airway, CPR, and Auscultation Trainer

HAL® S315.300 with OMNI® 2

S315.300.M2.250.PK

HAL® S315.300 Basic

S315.300.M2.PK

Upgrade to Full-Body Configuration

S315.300.M2.705

HAL® S315 Series Feature Highlights

Fully articulating neck joint

Anatomically accurate airway

Laryngospasm and pulses

Surgical airway

Durable chest cavity

OMNI® Real-time CPR feedback

Bilateral lung expansion

Chest tube placement

Needle decompression

Features	S315 Airway & CPR	S315.100 Airway & CPR	S315.300 Airway, CPR & Auscultation	S315.400 Airway & CPR	S315.500 Airway & CPR+D	S315.600 Airway & CPR+D
Manually open or close eyes	●	●	●	●	●	●
Realistic head tilt/chin lift and jaw thrust	●	●	●	●	●	●
Durable high-fidelity airway anatomy	●	●	●	●	●	●
Nasal and oral Intubation - ETT, LMA, King LT®	●	●	●	●	●	●
Tongue edema	–	–	–	●	–	–
Laryngospasm	–	●	–	●	–	–
Pharyngeal swelling	–	–	–	●	–	–
Tracheostomy and cricothyrotomy	–	●	–	●	–	–
Chest rise with bag-valve-mask ventilation	●	●	●	●	●	●
Gastric distension with esophageal intubation	●	●	●	●	–	–
Right mainstem intubation presents unilateral chest rise	●	●	●	●	●	●
Bilateral chest tube sites at 5th intercostal	–	–	–	●	–	–
Bilateral needle decompression sites at 2nd intercostal space with audible hiss	–	–	–	●	–	–
Disable chest rise unilaterally	–	–	–	●	–	–
VS100 Virtual Stethoscope - Programmable normal and abnormal heart and lung sounds	–	–	•	–	–	–
CPR hand positioning landmarks and realistic chest compression recoil and depth	●	●	●	●	●	●
Real-time CPR monitoring and performance reports	o	o	o	–	●	●
Chest compressions generate palpable carotid pulses	Manual	Manual	Manual	–	Automatic	Automatic
Detectable EKG rhythm using real AED (Sinus, ventricular fibrillation, and asystole)	–	–	–	–	●	●
Spontaneous breathing and palpable carotid pulses for up to 60 seconds (ROSC)	–	–	–	–	up to 60 sec.	Continuous
Defibrillate and cardiovert using real energy	–	–	–	–	●	●
Carrying bag	●	●	●	●	●	●

● Standard o Optional Add-On/Accessory

Skin tone options available at no extra charge

5 Year PEDI® Airway Trainer

S314.PK

1 Year PEDI® Airway Trainer

S312.PK

Newborn PEDI® Airway Trainer

S320.PK

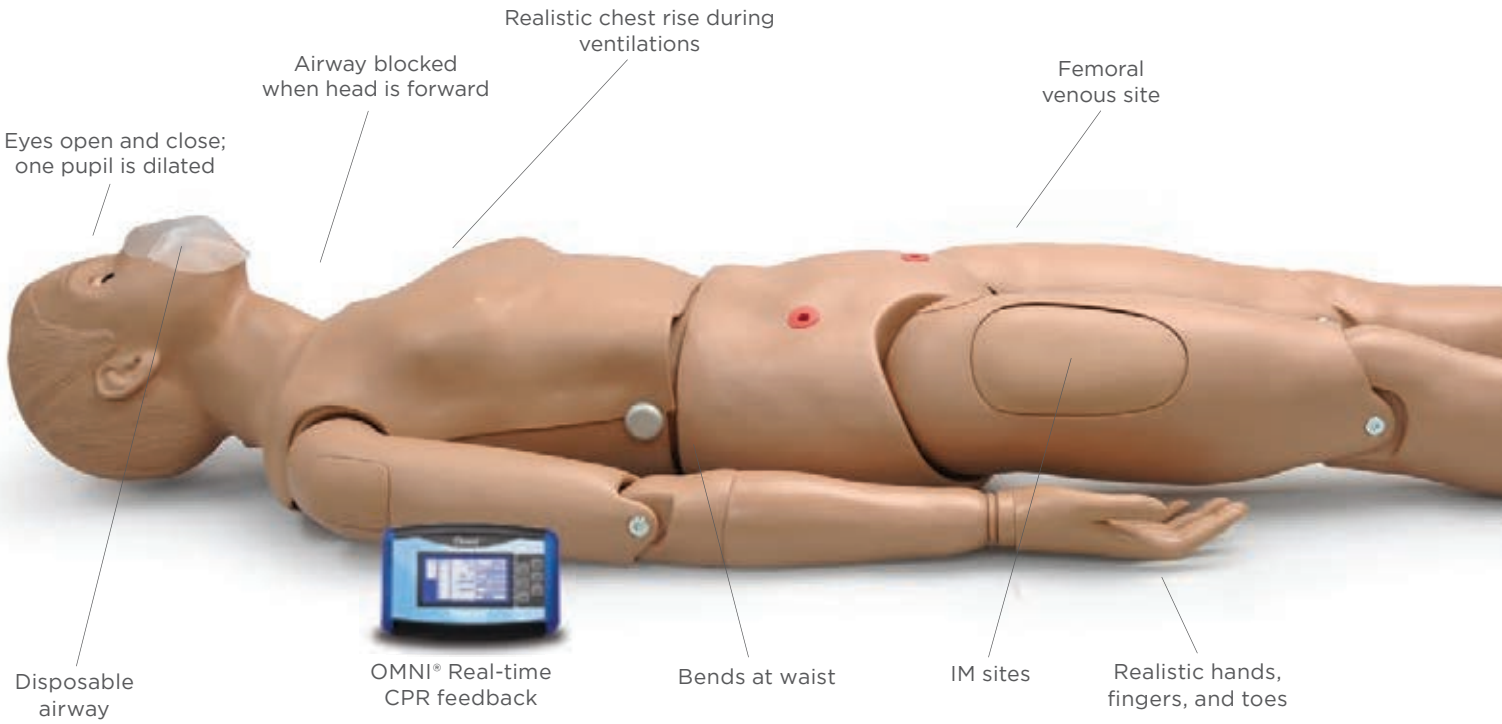
Features	S314.PK Five Year Airway	S312.PK One Year Airway	S320.PK Newborn PEDI® Airway
Realistic chest cavity containing realistic organs	•	•	•
Fully articulating head, neck, and jaw permitting head-tilt/chin lift, jaw thrust, and neck extension into the sniffing position	•	•	•
Anatomically accurate mouth, tongue, airway, and esophagus designed to illustrate the profound differences between intubating an infant, a child, or an adult	•	•	•
Soft neck with cricoid cartilage permits classic Sellick maneuver	•	•	•
Realistic chest rise during ventilation	•	•	•
Realistic trachea, bronchi, and lungs. Observable bilateral lung expansion under positive pressure ventilation	•	•	•
Airway narrows below vocal cords	•	•	•
Realistic vocal cords with “fish-eye” appearance	•	•	•
Airway diameter	9mm	5mm	3.8mm
Airway allows the passage of a cuffed ET tube	–	–	–
Nasal passage permits placement of NP tube	•	•	•
Surgical placement of tracheostomy tube	–	–	–
Emergency needle cricothyrotomy stick	–	–	–
Bilateral tension pneumothorax decompression	–	–	–
Six neck collars, three cricoid cartilages, membrane tape	–	–	–
Carrying bag	•	•	•
Instruction manual	•	•	•
Options			
Site-specific heart and lung sound trainer	S314.848	S312.848	–
Chest decompression and drainage	S314.711	S312.711	S320.711

• Standard ○ Optional Add-On/Accessory

Skin tone options available at no extra charge

The SIMON® adult CPR simulator

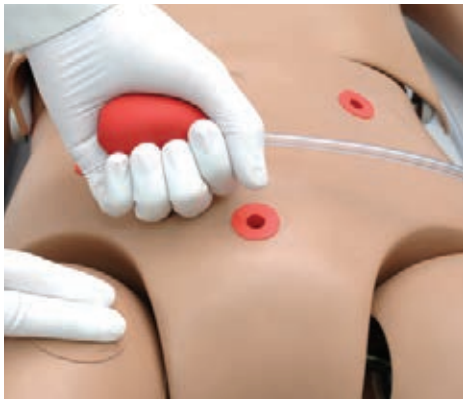
SIMON® is a durable and reliable basic life support simulator. Designed to help participants quickly improve performance, SIMON offers real-time CPR feedback that can be exported for debriefing and progress monitoring.



Bilateral carotid and right femoral pulses

Fully articulating head, neck, and jaw permitting head tilt, chin lift, jaw thrust, and neck extension into the "sniffing" position

Monitor CPR quality metrics in real-time with OMNI® 2



Multiple pulse points: carotid and femoral arterial pulse points

SIMON features

- Disposable airways to practice hygienic mouth-to-mouth ventilation
- Fully articulating head, neck, and jaw permitting head/tilt, chin lift, jaw thrust, and neck extension into the "sniffing" position
- Airway blocked when head is forward
- Realistic chest rise during ventilation
- Carotid and femoral arterial pulse sites
- Femoral venous site
- Intramuscular (IM) injection sites on the deltoids, quadriceps, and left gluteus medius
- Eyes open and close; one pupil is dilated
- Jointed elbows, wrists, knees, and ankles
- 10 disposable airways
- Detachable at waist for easy storage
- Instruction Manual
- Carrying bag

Features	S308	S309	S310	S311
CPR	•	•	•	•
Disposable Airway	•	•	•	•
Carotid pulse site	•	•	•	•
OMNI® Real-time CPR feedback	–	•	–	•
Arms and legs	–	–	•	•
Femoral venous site	–	–	•	•
Intramuscular injection sites	–	–	•	•

OMNI® Real-Time CPR Feedback

- Monitor CPR quality metrics in real-time
- Export CPR performance reports for debriefing

SIMON with OMNI® 1 (Full Body)

S311.PK

SIMON Basic (Full Body)

S310.PK

SIMON with OMNI® 1 (Torso)

S309.PK

SIMON Basic (Torso)

S308.PK

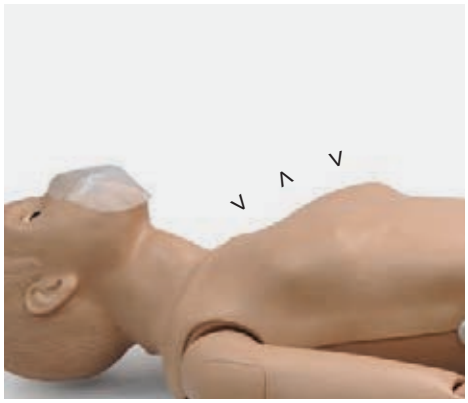
Consumables

Disposable Airways

S308.841
Package of 10 one-piece

S308.842
Package of 100 one-piece

Ten disposable airways to practice hygienic mouth-to-mouth ventilation

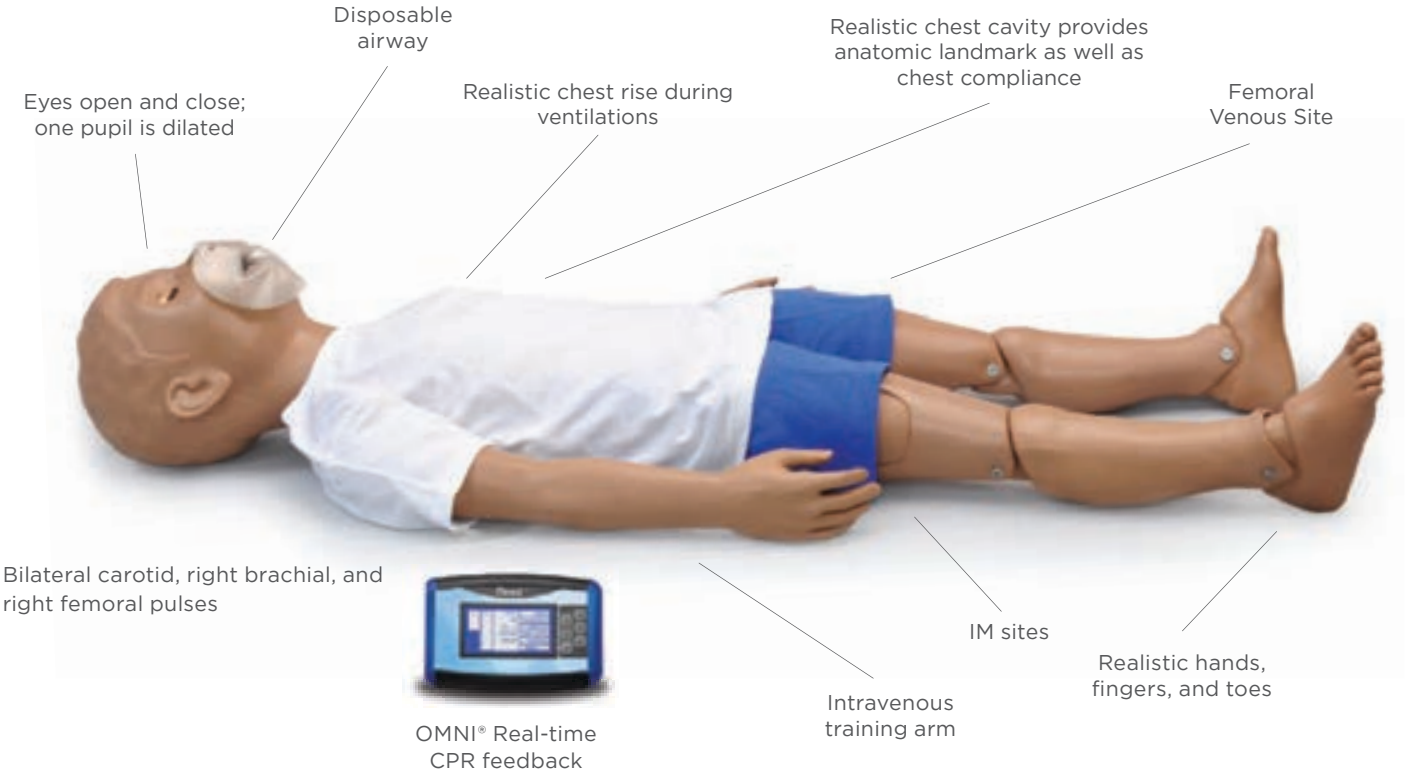


Realistic chest rise during ventilations

Realistic chest compression and recoil

Five Year CPR Care Simulator

This durable and reliable simulator is designed to help participants practice and quickly improve the basic life support skills needed to treat pediatric patients. Includes real-time CPR feedback that can be exported for debriefing and progress monitoring.



Multiple pulse points: carotid, femoral, and brachial arterial pulse points

Realistic chest rise during ventilations

Monitor CPR quality metrics in real-time with OMNI® included with S152 and S154 models

Features for S154

- Fully articulating head and jaw with teeth and tongue
- Individual disposable airways to practice hygienic mouth-to-mouth ventilation
- Airway blocked when head forward
- Realistic chest rise during ventilation
- Intraosseous infusion
- Intravenous training arm
- Carotid, femoral, and brachial arterial pulse sites
- Femoral venous site
- Intramuscular (IM) injection sites on the deltoids and quadriceps
- OMNI® Code Blue® pack monitors and logs the cadence and depth of cardiac compression and airway ventilation
- Soft, lifelike face with molded hair
- Eyes open and close in realistic eye sockets for ophthalmic purposes
- Bends at waist
- Jointed elbows, wrists, knees, ankles
- Realistic hands, feet, fingers, and toes
- Detachable at waist for easy storage
- Practice regular or Vest CPR
- Custom nylon carrying bag
- Instruction manual

Features	S151	S152	S153	S154
Disposable Airway	•	•	•	•
OMNI® Real-time CPR feedback	–	•	–	•
Arms and legs	•	•	•	•
Intraosseous access	–	–	•	•
IV access	–	–	•	•

Five Year Basic

S151.PK

Five Year with OMNI® 1

S152.PK

Five Year Basic

S153.PK

Five Year with OMNI® 1

S154.PK

OMNI® Real-Time CPR Feedback

- Monitor CPR quality metrics in real-time
- Export CPR performance reports for debriefing

Consumables

Disposable Airways

S151.841
Package of 10

S151.842
Package of 100

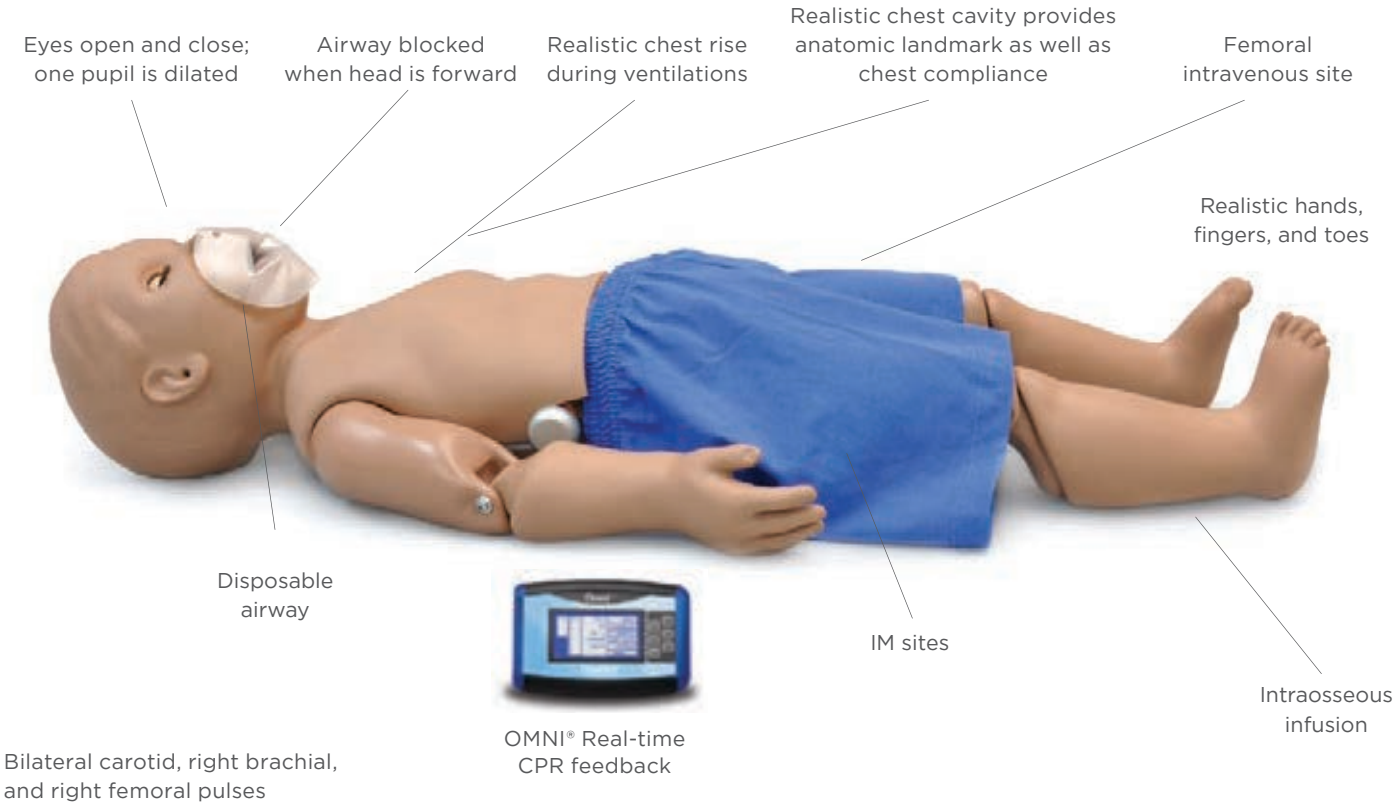
Ten disposable airways to practice hygienic mouth-to-mouth ventilation

Intraosseous access standard on S153 and S154 models

Training arm and hand for intravenous, intramuscular, and subcutaneous access standard on S153 and S154 models

One Year CPR Care Simulator

This durable and reliable simulator is designed to help participants practice and quickly improve the basic life support skills needed to treat toddlers. Includes real-time CPR feedback that can be exported for debriefing and progress monitoring.



Multiple pulse points: bilateral brachial, right femoral, and left posterior tibial pulses

Realistic chest rise during ventilations

Monitor CPR quality metrics in real-time with OMNI®

Features for S114

- Fully articulating head and jaw with teeth and tongue
- Individual disposable airways to practice hygienic mouth-to-mouth ventilation
- Airway blocked when head is forward
- Easily accessible chest cavity with molded ribcage, lungs, and heart
- Realistic chest rise during ventilation
- Intraosseous infusion
- Femoral venous site
- Intramuscular (IM) injection sites on the quadriceps
- Bilateral brachial, right femoral, and left posterior tibial pulses
- Soft, lifelike face skin with molded hair
- Eyes open and close in realistic eye sockets for ophthalmic purposes
- One normal eye and one dilated eye
- Practice regular or Vest CPR
- T-shirt and shorts
- Custom nylon carrying bag
- Instruction Manual
- Jointed elbows, wrists, knees, ankles
- Realistic hands, feet, fingers, and toes
- Detachable at waist for easy storage
- Practice regular or vest CPR
- T-shirt and shorts
- Custom nylon carrying bag
- Instruction manual

Features	S111	S114
CPR	•	•
Disposable Airway	•	•
Arterial Pulse Site	•	•
OMNI® Real-time CPR feedback	–	•
Intraosseous access	–	•
Femoral Venous Site	–	•

One Year Basic

S111.PK

One Year with OMNI® 1

S114.PK

Consumables

Disposable Airways

S111.841
Package of 10

S111.842
Package of 100

OMNI® Real-Time CPR Feedback

- Monitor CPR quality metrics in real-time
- Export CPR performance reports for debriefing

Realistic chest cavity provides anatomic landmark as well as chest compliances

Intraosseous infusion system with realistic tibia bones standard on S114 model

Ten disposable airways to practice hygienic mouth-to-mouth ventilation

The SUSIE SIMON® Newborn CPR and Trauma Care Simulator

The SUSIE SIMON® is a durable and reliable newborn basic life support simulator. Designed to help participants practice and quickly improve the basic life support skills needed to treat newborns, SUSIE SIMON® includes real-time CPR feedback that can be exported for debriefing and progress monitoring.

Bilateral brachial, right femoral, and left popliteal arterial pulse sites

Multiple arterial pulse sites

Realistic chest rise during ventilation

Monitor CPR quality metrics in real-time with OMNI®. Included with S104 and S102 models

Features for S104

- Fully articulating head and jaw with tongue
- SAFE CPR™ individual disposable airways to practice hygienic mouth-to-mouth ventilation
- Airway blocks when the head is forward
- Realistic chest rise during ventilation
- Bilateral brachial, right femoral, and left popliteal arterial pulse points
- Femoral venous site
- OMNI® monitors and logs the cadence and depth of cardiac compression and airway ventilation
- Intraosseous infusion
- Realistic eye sockets for ophthalmic purposes
- Soft, lifelike face with molded hair
- Diaper and bodysuit
- Instruction manual
- Custom nylon carrying bag

Features	S101	S102	S103	S104
CPR	•	•	•	•
Disposable airway	•	•	•	•
Arterial pulse sites	•	•	•	•
OMNI® Real-time CPR feedback	–	•	–	•
Intraosseous access	–	–	•	•
Femoral venous site	–	–	•	•

OMNI® Real-Time CPR Feedback

- Monitor CPR quality metrics in real-time
- Export CPR performance reports for debriefing

SUSIE/SIMON® Basic

S101.PK

SUSIE/SIMON® with OMNI® 1

S102.PK

SUSIE/SIMON® Basic

S103.PK

SUSIE/SIMON® with OMNI® 1

S104.PK

Consumables

Disposable Airways

S101.841
Package of 10

S101.842
Package of 100

Intraosseous infusion system with realistic tibia bones for S103 and S104

Realistic chest cavity provides anatomical landmark as well as chest compliances

Ten disposable airways to practice hygienic mouth-to-mouth ventilation

HEART & LUNG SOUNDS TRAINERS

Auscultation Training

Heart & Lung Sound Skills Trainers

The new VS100/VS105 adult and pediatric Virtual Stethoscopes are designed to help participants improve auscultation skills. When paired with any of our compatible trainers, it allows learners to practice locating and differentiating between 40 realistic normal/abnormal heart and breath sounds to improve sound identification and skill retention.

The amazing technology that simulates the various heart and breath sounds is hidden within the stethoscope bell itself. There are no bulky boxes or transmitters, making it easy to use and realistic. Simply press the bell against the skin at the correct anterior or posterior auscultatory site and listen to the corresponding sound.

The VS100/VS105 include a reference key card that indicates the locations of the auscultatory sites and the sound types available. Additionally, the package includes a set of optional loudspeakers useful when teaching an audience.

HAL® Adult Heart & Lungs Sounds

S315.200.M2.PK

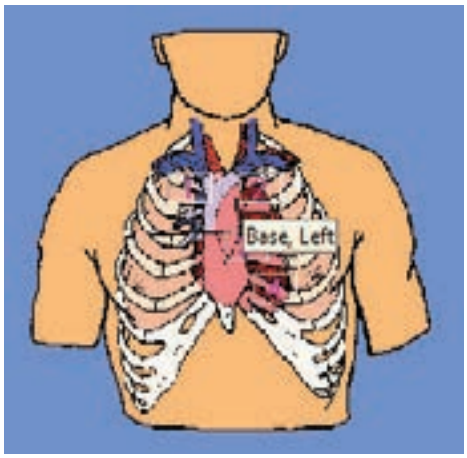
Heart & Lung Sounds One Year

S312.200.PK

Heart & Lung Sounds Five Year

S314.200.PK

AUSCULTATION | Adult, Five Year, and One Year



Virtual Heart & Lung Sound Skills Trainer

- High quality normal/abnormal heart and lung sounds
- Adult features 12 heart and 9 lung sounds
- Pediatric features 15 heart and 9 lung sounds
- Point and click from sound menu
- Your pointer becomes a Virtual Stethoscope
- Find the correct location on the virtual patient
- Your Virtual Stethoscope® displays a GOLD GLOW when correctly placed on the patient
- Click and play 10 seconds of sound
- Repeat or select another sound
- Software requires multimedia computer with XP
- Connect earphones to your computer for high-quality audio
- Connect to your speakers for classroom demonstrations

Virtual Instrument® Adult Heart & Lung Sounds Skills Trainer

- Full-size adult torso with palpable anatomic landmarks
- Sensor network hidden beneath the skin
- Hear the appropriate heart or lung sounds as the stethoscope's bell is moved across the front and back of the torso
- Includes our Virtual Stethoscope® with multiple heart and lung sounds
- An external speaker plugs into the Virtual Stethoscope so a classroom can hear what the student hears
- Instruction manual
- Carrying bag
- Site-specific sounds are an application of our patented Virtual Instrument® technology. Patents 6,193,519 and 6,443,735

Virtual Instrument® 5-Year and 1-Year Heart & Lung Sounds Skills Trainer

- Full-size pediatric manikin with palpable anatomic landmarks
- Sensor network is hidden beneath the skin
- Hear the appropriate heart or lung sounds as the stethoscope's bell is moved across the front and back of the torso
- Includes our Virtual Stethoscope® with multiple heart & lung sounds
- An external speaker plugs into the Virtual Stethoscope so a classroom can hear what the student hears
- Instruction manual
- Carrying bag
- Site-specific sounds are an application of our patented Virtual Instrument® technology. Patents 6,193,519 and 6,443,735

Virtual Heart & Lung Sounds Trainer

S182	Adult
S183	Pediatric

Virtual Instrument® Adult Heart & Lung Sounds Trainer

S315.200.M2.PK

Virtual Instrument® Pediatric Heart & Lung Sounds Skills Trainer

S314.200.PK 5 Year

S312.200.PK 1 Year

Adult and Pediatric Heart and Lung Sounds Upgrade Kit

- Convenient torso overlay with sensor network hidden beneath the skin
- Hear the appropriate heart and lung sounds as the stethoscope's bell is moved across the front and back of the torso
- Includes our Virtual Stethoscope® with multiple heart and lung sounds
- An external speaker plugs into the Virtual Stethoscope® so a classroom can hear what the student hears
- Instruction manual

SUSIE SIMON® Ugprade Kit

S200.848

Clinical CHLOE™ Ugprade Kit

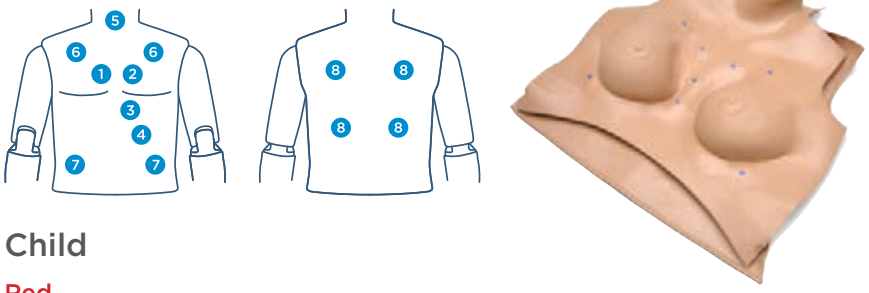
S222.848

5-Year Patient Upgrade Kit

S150.848

1-Year Patient Upgrade Kit

S110.848



Child

Red

1. Aortic Stenosis
2. Systolic Fixed S2
3. Pulmonary Stenosis
4. 6 Year Heart
5. Normal Child
6. Wheezing Sounds
7. Wheezing Sounds
8. Ronchi Sounds

Blue

1. Venous Hum
2. Pulmonic Stenosis
3. Split S1
4. Split S1
5. Stridor Sounds
6. Wheezing Sounds
7. Wheezing Sounds
8. Ronchi Sounds

Purple

1. Aortic Stenosis
2. Split S2
3. Pulmonary Stenosis
4. 1 Year Heart
5. Normal Infant
6. Wheezing Sounds
7. Wheezing Sounds
8. Ronchi Sounds

Green

1. Venous Hum
2. Systolic Fixed S2
3. Split S1
4. Stills Murmur
5. Stridor Sounds
6. Wheezing Sounds
7. Wheezing Sounds
8. Ronchi Sounds

Yellow

1. Venous Hum
2. Pulmonic Stenosis
3. Split S1
4. Mitral Valve Regurg
5. Stridor Sounds
6. Wheezing Sounds
7. Wheezing Sounds
8. Ronchi Sounds

Adult

Red

1. Base Sounds
2. Physiological Split S2
3. Opening Snap
4. Mid-Systolic Click
5. Tracheal Sounds
6. Bronchial Sounds
7. Wheezing Sounds
8. Coarse Crackles

Blue

1. Fixed Split S2
2. Split S2
3. Friction Rub
4. Intermittent S4
5. Stridor Sounds
6. Wheezing Sounds
7. Pleural Friction
8. Pulmonary Edema

Purple

1. Base Sounds
2. Physiological Split S2
3. Paradoxical Split S2
4. Apex Sounds
5. Tracheal Sounds
6. Bronchial Sounds
7. Bronchial Sounds
8. Ronchi Crackles

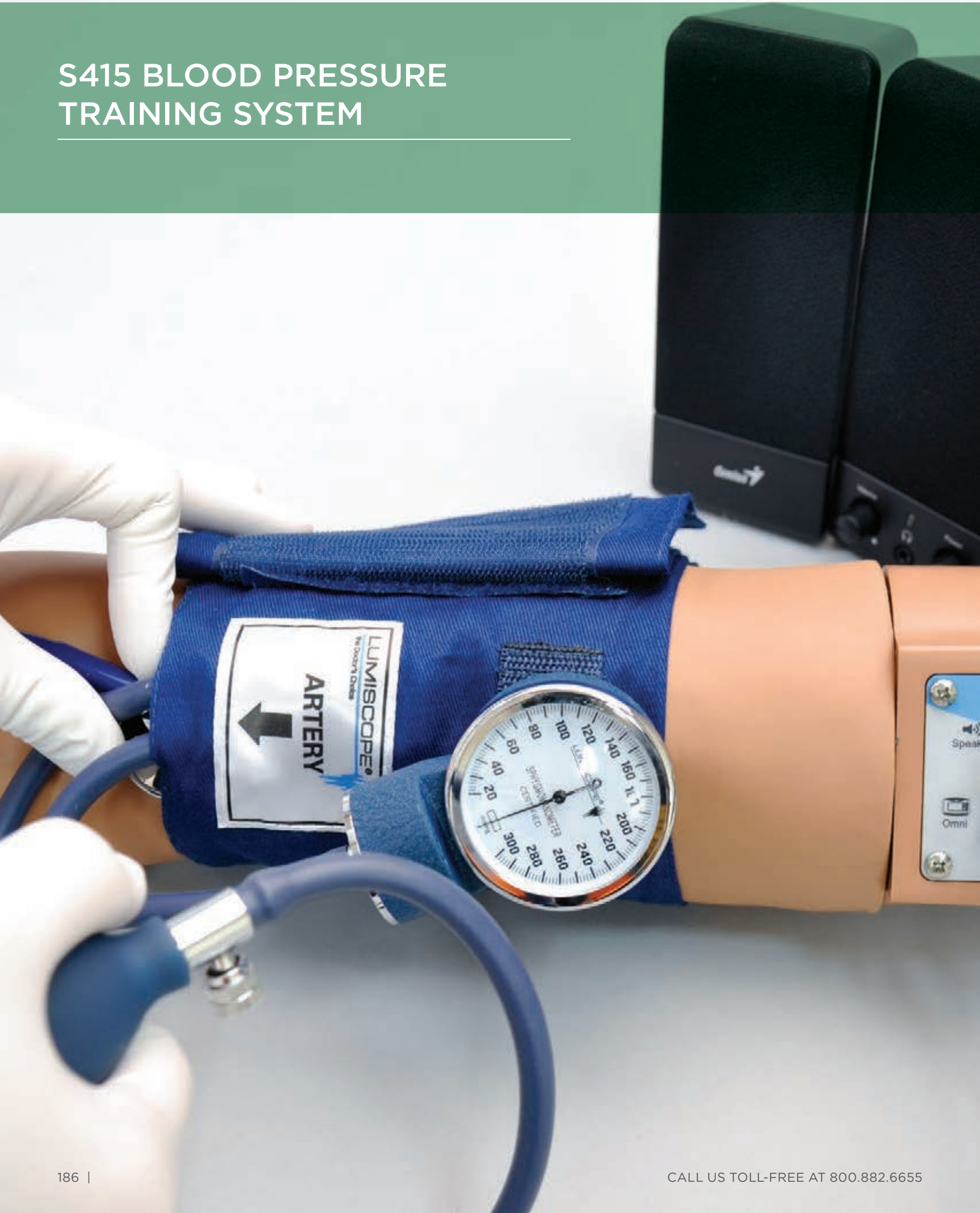
Green

1. Fixed Split S2
2. Physiological Split S2
3. Opening Snap
4. S3
5. Stridor Sounds
6. Wheezing Sounds
7. Pleural Friction
8. Coarse Crackles

Yellow

1. Fixed Split S2
2. Split S2
3. Friction Rub
4. Starr-Edwards Valve
5. Stridor Sounds
6. Wheezing Sounds
7. Med-Fine Crackles
8. Pulmonary Edema

S415 BLOOD PRESSURE TRAINING SYSTEM



OMNI® 2 Blood pressure reading training system.

The S415 Blood Pressure Training System includes a full-size adult left arm that may also be attached to select GAUMARD® adult manikins. This is a versatile training tool developed to assist health professionals teach the processes and skills required to perform blood pressure auscultation procedures and techniques.

The real-time blood pressure gauge view lets you see what the learner sees to help confirm the accuracy of readings. Easily adjust pulse rate and auscultatory gap with just a few taps.

- Full-size left arm that may also be attached to GAUMARD® manikin
- Programmable, palpable radial pulse when cuff pressure is less than the selected systolic blood pressure
- Korotkoff sounds K1 through K4 (K5 is silence) audible between systolic and diastolic pressures
- Korotkoff sounds automatically silenced if auscultation gap is selected
- Korotkoff sounds automatically adjusted depending upon selected heart rate and the rate of cuff deflation
- Conventional stethoscope to auscultate Korotkoff sounds in the antecubital area
- Programmable Blood Pressure Auscultation Tutor
- Adjustable systolic and diastolic pressures
- Adjustable auscultation gap
- Adjustable pulse rate
- Display tracks cuff pressure
- International power supply v100 to 240VAC
- Optional speakers with volume control allow students to hear what the individual student hears while using the stethoscope
- Soft carrying bag
- Instruction manual

Blood Pressure Training System

Blood Pressure Training System with OMNI® 2

S415.250.PK

Blood Pressure Training System with OMNI® 1

S415.PK

Blood Pressure Training System with Speakers

Blood Pressure Training System with OMNI® 2 and Speakers

S415.100.250.PK

Blood Pressure Training System with OMNI® 1 and Speakers

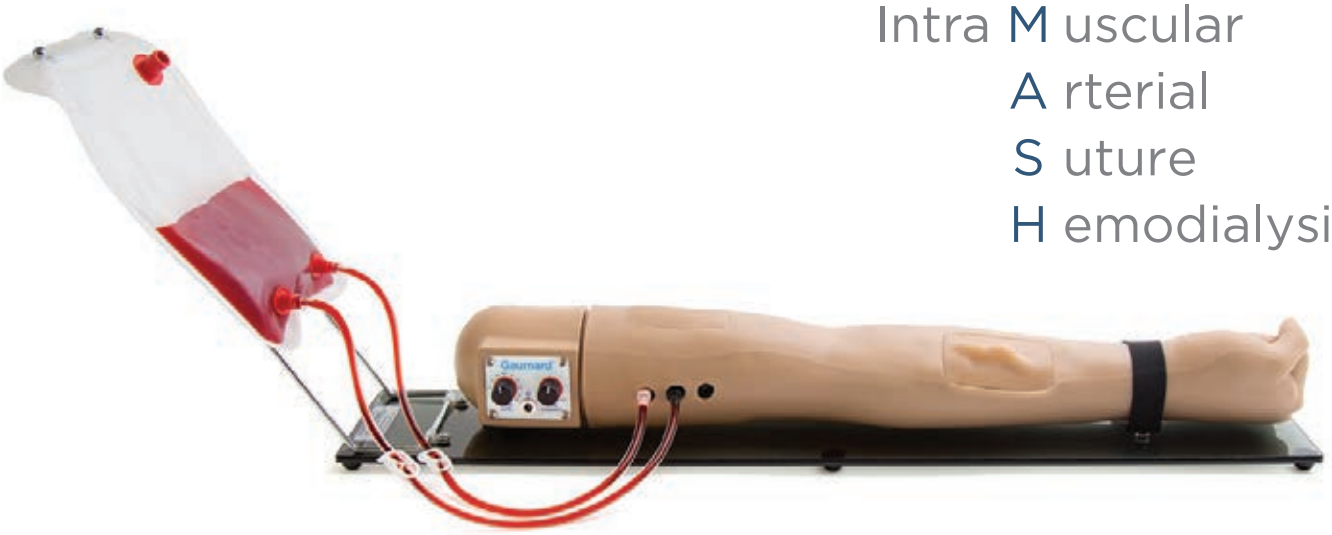
S415.100.PK

S.M.A.S.H. S402.100

Advanced Patient Training Arm

- Variable pulse rate and strength
- Brachial and radial arteries
- Multi-layer surgical inserts
- Venous and arterial exercises
- Hemodialysis exercises

S ubcutaneous
Intra M uscular
A rterial
S uture
H emodialysis



S.M.A.S.H. Advanced Venous and Arterial Training Arm

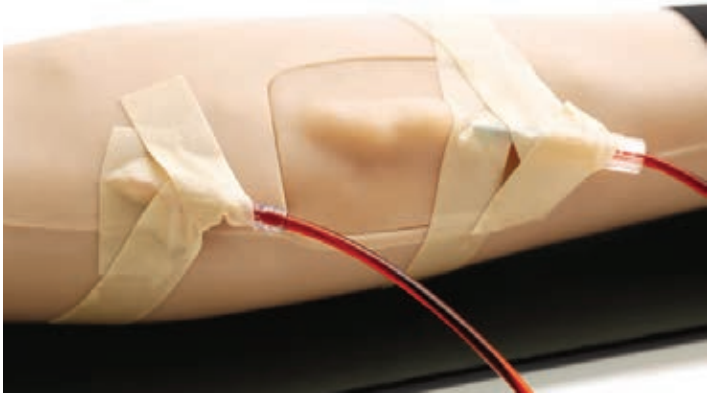
GAUMARD's S.M.A.S.H. Advanced Patient Training arm was first introduced in 1986. The latest improvement to this "world-class" standard offers realism in a sleek design. A micropump mounted within the simulator's shoulder delivers automatically generated arterial pulses at the radial and brachial sites and controls arterial blood flow by allowing variable heart rate and pulse strength. Interchangeable arterial and venous inserts within the forearm allow the creation of arteriovenous (AV) fistulas and for the placement of AV grafts, while a simulated healed fistula insert provides a platform on which hemodialysis exercises can be performed. An additional multi-layer insert in the bicep area can be used for incision and suture training exercises.

Features

- Arterial and venous insert for IV and blood draw exercises, AV anastomosis, and AV graft placement. This multi-layer surgical insert includes the skin, subcutaneous tissue, muscle, radial artery, and radial vein
- AV fistula insert that simulates a healed fistula for hemodialysis exercises
- Multi-layer bicep insert that includes the skin, subcutaneous tissue, and muscle. Allows incision and suturing exercises
- Durable skin that can be pierced more than 200 times with a 20 or 22 gauge needle
- Realistic tactile feedback for both surgical and arterial and venous stick exercises
- Adjustable heart rate and pulse strength simulating a heart rate from 10 to 150BPM
- Cephalic (antecubital), Basilic, Radial, and Ulnar veins as well as the radial and brachial arteries for infusion and blood draw
- Rotating arm allowing dorsal and volar access along the length of the arm
- Varying vessel palpability to simulate collapsed or bulging vessels
- Ease of assembly
- Latex-Free
- Available as a standalone skills trainer or as an upgrade for select full-body patient simulators
- Optional add-on for S200, S201, S204, S204, S205, S206, S220 & S221

Subcutaneous injection sites

Intramuscular injection site



Hemodialysis exercises

Micropump-controlled arterial system providing variable heart rate and pulse strength.

S.M.A.S.H. Advanced Patient Training Arm Upgrade

The S.M.A.S.H. Advanced Patient Training Arm is available as an optional add-on to a selection of GAUMARD® adult simulators, including SUSIE®, SIMON®, and Chloe™, thereby providing the advantage of a full-body trainer for the following patient simulators: S200, S201, S203, S204, S205, S206, S220, and S221.

- Replicates the skin, subcutaneous, and muscle layers at all surgical sites
- Upgraded inserts, skins, and vessels for improved tactile feedback
- Quiet and compact micropump embedded within the shoulder generates variable heart rates and pulse strength, improving the portability of the unit
- Easy to replace plug-and-play inserts allow quick change-out between procedures
- Latex-free vessels with improved access for hassle-free replacement

Arterial and venous blood sampling

Arterial and venous blood sampling

Arterial system providing palpable radial pulse

IV exercises on dorsum of hand

S.M.A.S.H. Advanced Patient Training Arm

S402.100R.PK

Consumables

Arterial & Venous Insert

S402.100.911

Fistula Insert

S402.100.912

Incision & Suture Insert

S402.100.913

Arm Skin

13080446A

13080445A

13080447A

Vein Filling Kit

S402.100.985

Artificial Blood Concentrate

S402.100.812

Dispensing Blood

S402.100.811

Replacement Veins

S402.100.810

S401.100 Advanced Multipurpose Venous Training Arm

All features required for IV, IM, and Sub-Q training in one challenging simulator.

Features

- Connects to select GAUMARD® patient simulators
- Subtle venous network in arm and hand
- Cephalic, basilic, antecubital, radial, and ulnar veins
- Realistic “pop” as needle enters vein
- Intramuscular injection site in deltoid area
- Subcutaneous injection areas on the volar side of the forearm and the lateral side of the upper arm
- TB test site
- Squeeze bulb to increase or decrease venous pressure
- Veins stand out or collapse
- Easily replaceable skin and veins
- Administration of medication by intravenous bolus
- Simulation of infusion technique
- Blood collection exercises with simulated blood
- Simulation of clenched fist and tourniquet position
- Smoked Lucite® base with stand
- Soft nylon carrying bag
- Set-up kit with simulated blood concentrate, pressure bulb, blood dispensing bag, spare arm skin, and funnel
- Instruction manual

S401.100 Advanced Multipurpose Venous Training Arm

S401.100L.PK

S401.100R.PK

The S401.100 arm is also available as a pre-installed optional upgrade for the following full-body patient simulators: S200, S201, S203, S204, S205, S206, S220, and S221.

S401 Advanced Multipurpose Venous Training Arm

Our multipurpose training arm provides all the features of a conventional intravenous arm, as well as the ability to practice intramuscular and subcutaneous injections. This skills trainer offers you a safe and sanitary platform for facilitating the teaching of the human arm's anatomy, medication administration, and aseptic techniques.

Features

- Prominent venous network
- Simulated cephalic, basilic, antecubital, radial, and ulnar veins
- Subcutaneous injection areas on the volar side of the forearm and the lateral side of the upper arm
- Veins in dorsum of hand
- Simulation of clenched fist and tourniquet position
- Simulation of collapsed veins
- Simulation of infusion technique
- Blood collection exercises with simulated blood
- Administration of medication by intravenous bolus
- Resealing veins and outer skin
- Realistic “pop” as needle enters vein
- Smoked Lucite® base with stand
- Soft carrying bag
- Set-up kit with simulated blood concentrate, pressure bulb, blood dispensing bag, spare arm skin, funnel, and talcum powder
- Instruction manual

S401 Multipurpose Venous Training Arm

S401R.PK

The S401 arm is also available as a pre-installed optional upgrade for the following full-body patient simulators: S200, S201, S203, S204, S205, S206, S220, and S221.

S400 Intravenous Training Arm

Adult IV Training arm designed for essential training in blood collection, infusion, and intravenous injections.

Features

- Prominent venous network
- Simulated cephalic, basilic, antecubital, radial, and ulnar veins
- Simulation of infusion technique with simulated blood
- Administration of medication by intravenous bolus
- Simulation of clenched fist or tourniquet position
- Simulation of collapsed veins
- Realistic “pop” as needle enters vein
- Resealing veins and outer skin

S400 Intravenous Training Arm

S400R.PK

S400 IV Training arm, Lucite® base, blood bag, synthetic blood concentrate, spare arm skin, squeeze bulb user guide, and soft carrying case.

S408 Newborn Injection Training Arm

The S408 Injection Training Arm is an effective training tool for practicing intravenous and arterial line placement on a newborn patient.

Features

- A medial venous antecubital vein for IV exercises
- Radial and brachial arteries
- Two veins in the dorsum of the hand for additional training techniques

S408 Newborn Injection Training Arm

S408.PK

Newborn Injection Training arm, Lucite® base, blood bag, synthetic blood concentrate, spare arm skin, squeeze bulb user guide, and soft carrying case.

S406 One-Year Injection Training Arm

Features

- A medial venous antecubital vein for IV exercises
- Radial and brachial arteries
- Two veins in the dorsum of the hand for additional training techniques

S406 One-Year Pediatric Injection Training Arm

S406.PK

S406 Injection Training arm, Lucite® base, blood bag, synthetic blood concentrate, spare arm skin, squeeze bulb user guide, and soft carrying case.

MIKE® and MICHELLE® Pediatric 5-Year-Old Training Arm

S405.PK

S405 Injection Training arm, Lucite® base, blood bag, synthetic blood concentrate, spare arm skin, squeeze bulb user guide, and soft carrying case.

S407 One Year Intraosseous Infusion & Injection Leg

The Mike® and Michelle® Intraosseous Leg simulates the leg of an average one (1)-year-old child. The leg is attached to a half section of a lower torso. A replaceable tibial bone lies under a smooth outer skin and is molded with anatomic landmarks for teaching intraosseous access and infusion. A femoral vein/artery pair and an intramuscular injection site are included.

One Year Intraosseous Infusion & Injection Leg

S407.PK

S407 IO and Injection Leg, Lucite® base, blood bag, synthetic blood concentrate, spare skin, IO bone set, squeeze bulb user guide, and soft carrying case.

S409 Newborn Intraosseous Infusion & Injection

The SUSIE® and Simon® Intraosseous leg simulates that of a newborn. A replaceable tibial bone lies under a smooth outer skin. It includes anatomic landmarks for teaching intraosseous access and infusion. A femoral vein/artery pair and an intramuscular injection site are included.

S409 Newborn Intraosseous Infusion & Injection Leg

S409.PK

S409 IO and Injection Leg, Lucite® base, blood bag, synthetic blood concentrate, spare skin, IO bone set, squeeze bulb user guide, and soft carrying case.

Advanced Patient Care Enema Skills Trainer

- Modular rectal valve to simulate sphincter mechanism
- Enema administration kit
- Smoked Lucite® stand for enema bag
- Instruction manual
- Soft carrying bag

Advanced Patient Care Enema Skills Trainer

S230.5.PK

Advanced Female Ostomy Care Skills Trainer

- Sculpted stomas of a transverse colostomy, an ileostomy, and a suprapubic stoma
- Stoma sites connect to removable, replaceable internal tanks representing the colon, small bowel, ileum, and bladder
- Application of disposable or permanent ostomy bags
- Treatment of skin conditions around stoma sites

Advanced Female Ostomy Care Skills Trainer

S230.2.PK

Advanced Patient Care Male Catheterization Skill Trainer

Male lower torso with realistic penis and scrotum

- Normal size prostate gland for palpation during rectal examination
- Internal bladder reservoir for standard catheterization exercises
- External bladder reservoir mounted on smoked Lucite® stand for bladder exercises
- Functional suprapubic stoma to practice skin preparation, stoma hygiene, and application of disposable and permanent ostomy bags
- One spare internal bladder tank
- Instruction manual
- Soft carrying bag

Advanced Patient Care Male Catheterization Skill Trainer

S230.7.PK

Advanced Patient Care Male and Female Catheterization Skills Trainer

A superb SIMA-VALU™ product! This "two-in-one" simulator combines the features of the female and male catheterization simulators at an unbeatable price. Use of this simulator will give your students the confidence required to perform this basic nursing procedure.

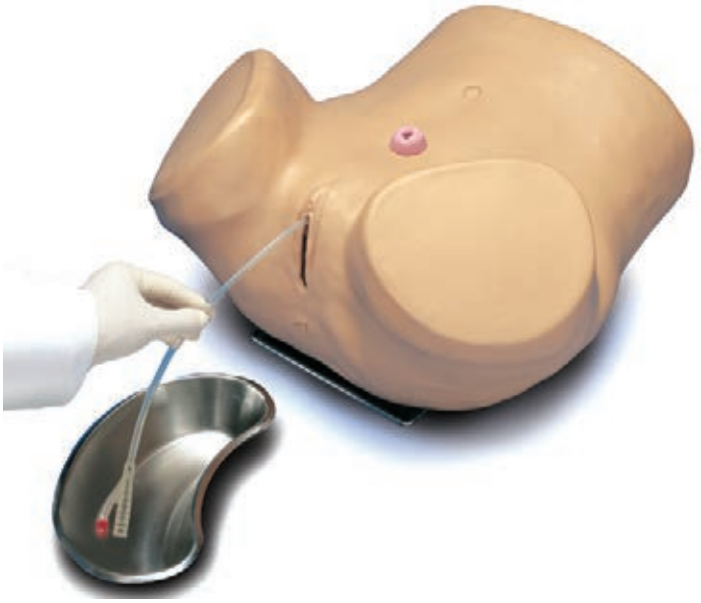
- Complete catheterization training
- Interchangeable, realistic male organ
- Fully functional stomas connected to removable, replaceable internal tanks
- Modular urethral valve to prevent fluid leakage
- Instruction manual
- Soft carrying bag

Advanced Patient Care Male and Female Catheterization Skills Trainer

S230.10.PK

Advanced Patient Care Female Catheterization Skills Trainer

- Female lower torso with realistic vulval area and urethral opening
- Internal bladder reservoir for standard catheterization exercises
- External bladder reservoir mounted on smoked Lucite® stand for bladder exercises
- Functional suprapubic stoma to practice skin preparation, stoma hygiene, and application of disposable & permanent ostomy bags
- Modular urethral valve prevents fluid leakage
- Instruction manual
- Soft carrying case



Advanced Patient Care Female Catheterization Skills Trainer

S230.6.PK

S411 LUMBAR PUNCTURE TRAINER

Provides realistic tactile feedback combined with a fluid supply and pressure system, allowing the collection of CSF and measurement of opening pressure. Ideal for practicing injecting local anesthesia, aseptic technique, needle insertion between vertebrae, lumbar puncture, and epidural.

Lumbar Puncture Trainer

- Replaceable spinal cord insert with skin layer, subcutaneous layer, connective tissue, and lumbar vertebrae
- Anatomic features include: iliac crests, lumbar vertebrae L2 – L5, ligamentum flavum, epidural space, and dura
- Needle insertion possible between vertebrae
- Lifelike needle resistance, including pops when needle traverses ligamentum flavum and dura
- Self-healing skin that allows 15 uses with an 18-gauge needle and 25 uses with a 22-gauge needle before replacement is necessary
- Simple to fill simulated CSF and set fluid pressure, thereby allowing students to collect CSF and measure CSF opening pressure
- Pressure system with simple push-button operation to increase or decrease pressure
- LED displays pressure set-point ranging from low, medium, to high pressure
- Practice procedure in the left lateral decubitus or sitting position
- Trainer can be used to simulate aseptic technique and local anesthetic at puncture site
- Latex-free

S411 Lumbar Puncture Skills Trainer

S411.PK

This microprocessor-controlled simulator contains a built-in compressor that pressurizes the fluid system, maintaining the pressure at the designated set point. A pressure sensor monitors the simulated cerebrospinal fluid pressure.

SUPER OB SUSIE® S500.300

Childbirth Training Torso

- Anatomically accurate pelvic landmarks
- Includes full-term neonate featuring palpable landmarks and articulating limbs
- Lifelike cephalic, breech, shoulder dystocia, operative, and C-section deliveries
- PPH management, episiotomy repair, and more

Hands-on obstetric skills training

The new OB SUSIE® is a realistic childbirth torso designed to aid educators teach labor and delivery management skills to learners of all levels.

- Pelvic examination
- Urinary catheterization
- Cephalic and breech delivery
- Operative vaginal delivery
- Shoulder dystocia management
- Umbilical cord management
- Placenta delivery
- Rectal medications

Realistic anatomy

The anatomically accurate pelvis and term neonate allows learners to develop clinical skills transferable to scenario-based exercises.

- Adult-sized lower torso with hip-joint articulation
- Uniform skin with realistic elasticity and soft feel
- Pelvic landmarks include ischial spines and coccyx
- Full-term neonate with articulated limbs (18.5 in, 6 lb)
- Neonate landmarks include fontanelle and sutures

Customizable and adaptable

OB SUSIE's modular design allows you to add new functionalities to meet specific training needs. Choose from a growing list of optional packages.

- PPH management
- Episiotomy repair
- Delivery Assist Mechanism

Routine delivery Competencies

- Vaginal examination
- Fetal presentation
- Cardinal movements
- Delivery maneuvers
- Cord management
- Placenta delivery

Palpable pelvic landmarks and dilating cervix

Illustrate descent, rotation, and expulsion

Removable abdomen offers an internal view of the birth

Cord and placenta management

- Nuchal cord
- Cord prolapse
- True knots
- Clamp and cut
- Retained placental fragments

Umbilical cord clamping and cutting

Placenta delivery and examination

Obstetric Emergencies

OB SUSIE® can illustrate realistic shoulder dystocia situations to train advanced delivery maneuvers, teamwork, and communication.

- McRobert's maneuver
- Suprapubic pressure
- Rubin
- Woods' screw
- Arm sweeps

Articulated joints provide realistic resistance

Breech and operative delivery

The neonate's smooth skin and articulated limbs support the use of real instruments and advanced maneuvers.

Breech maneuvers: Pinard's, Mauriceau, Ritgen's, Lovset

Forcep indication, application, and traction

Vacuum cup application, suctioning, and traction

PPH management package

Practice/master postpartum care and emergency management skills with the optional PPH package.

- Fundal and bimanual massage
- Uterine tamponade placement
- Urinary catheterization
- Suppository administration

Soft abdomen and adjustable uterine tone for massage training

Cervix and uterus allow for tamponade placement and hemorrhage control

OB SUSIE® Childbirth Training Torso

S500.300.PK

The OB SUSIE® Childbirth Torso includes everything to get started in one easy-to-use package.

Torso Features

- Adult-sized lower torso: diaphragm to upper legs
- Smooth and supple skin
- Removable pregnant abdominal cover
- Modular cervix and birth canal
- Bony landmarks including ischial spines and coccyx
- Lifelike placenta with detachable umbilical cord
- Patent urethra with bladder access
- Integrated urine bladder (400 mL)
- Integrated blood reservoir
- Articulating hip-joints
- Patent rectum

Neonate Features

- Full-term size and weight (18.5 in, 6 lb.)
- Soft full-body skin
- Nasal and oral cavities
- Palpable fontanelle and sutures
- Articulated limb joints
- Detachable umbilical cord

Package Contents

- OB SUSIE® Torso
- Pregnant abdomen
- Full-term neonate
- Placenta
- (2) Umbilical Cord
- (2) Umbilical Stumps
- (2) Cervices
- (2) Birth Canals
- Mineral Oil
- Talcum Powder
- Urine fill kit

PPH Management Package

S500.300.117

The PPH Management Package enables the training of postpartum care and emergency management skills.

Features

- Realistic post-delivery perineum
- Uterine tamponade placement
- Adjustable uterine tone
- Urinary bladder catheterization
- Suppository administration

Package Contents

- PPH Perineum
- Boggy Uterus
- PPH Cervix
- Blood concentrate
- Blood fill kit

Delivery Assist Mechanism

S500.300.929

The Delivery Assist Mechanism manual lever makes controlling descent and rotation virtually effortless.

Features

- Controlled descent
- Fetal rotation control
- Hold during descent

Package Contents

- Birthing mechanism
- Rear panel
- Fasteners set

Postpartum Episiotomy Suture Trainer

S500.300.133

The episiotomy repair trainers simulate human tissue and support the use of real sutures and instruments.

Features

- Realistic soft skin
- Supports real sutures
- Durable self-healing skin

Package Contents

- Mediolateral left episiotomy perineum
- Midline episiotomy perineum

OBSTETRIC BIRTHING TORSOS

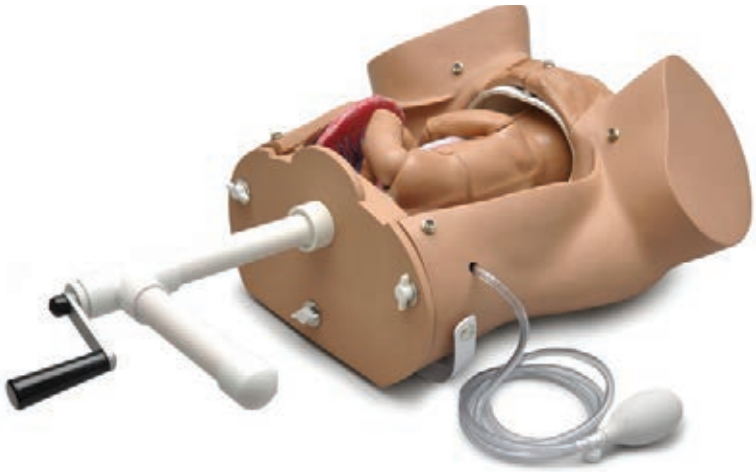
Childbirth and Postpartum Care Management

ADVANCED OB SUSIE® S500.200

S500.200.PK

OB SUSIE® S500.100

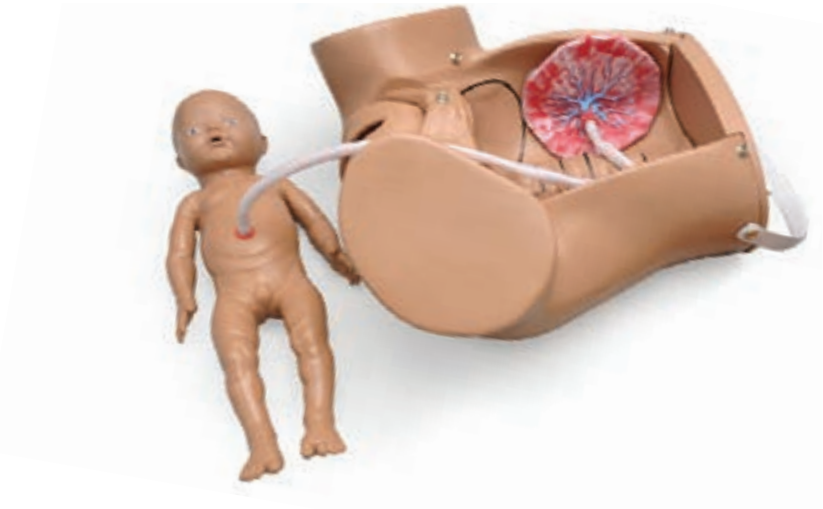
S500.100.PK



S500 Original Childbirth Skills Trainer

S500.PK

Original SIMA MODELS®



A proven versatile and durable simulator after years of service throughout the world.

Features

- Lightweight birthing torso available in light, medium, or dark skin colors
- Audible maternal heart sounds from 0 to 200 bpm
- Audible newborn heart sounds from 0 to 200 bpm
- Audible newborn crying, grunting, and stridor
- Vertex or breech deliveries
- Vacuum augmentation or forceps-assisted deliveries
- Replaceable vulval inserts and highly distensible cervices
- Two removable abdominal covers: one transparent and one opaque
- Fetus with elevating pillow for practicing Leopold maneuvers

Advanced OB SUSIE® S500.200

S500.200.PK

Advanced OB SUSIE® Birthing Torso, flesh tone abdominal cover, clear abdominal cover, male and female birthing babies with attached umbilical cords, four spare umbilical cords, placenta with removable fragments, Lucite® base, three dilating cervices, accessories, and user guide.

Breech delivery
Practice vaginal breech deliveries and free the legs using Pinard maneuver.

Fetal palpation
Palpating fetus through transparent or opaque abdominal cover.

Vacuum delivery
Vacuum-assisted or forceps deliveries with or without abdominal cover.

Delivery of placenta
Position placenta to simulate placenta previa. Placenta also has detachable fragments.

Place clamps, cut umbilicus
Includes four umbilical cords and two umbilical clips for clamp placement and cutting exercises.

Postpartum bleeding
Use blood concentrate to simulate postpartum bleeding.

Catheterization
Use conventional urinary catheter to reduce the size of the bladder.

Uterine massage
Uterine massage decreases the size of the outer uterus allowing the student to feel the small, firm internal uterus.

Full-term newborn
Full-term newborn with stocking cap, umbilicus pulses, and accepts umbilical catheter.

Fetal heart tones
Pinard or conventional stethoscope can be used to hear fetal heart sounds, which are adjustable from 0 to 220 bpm.

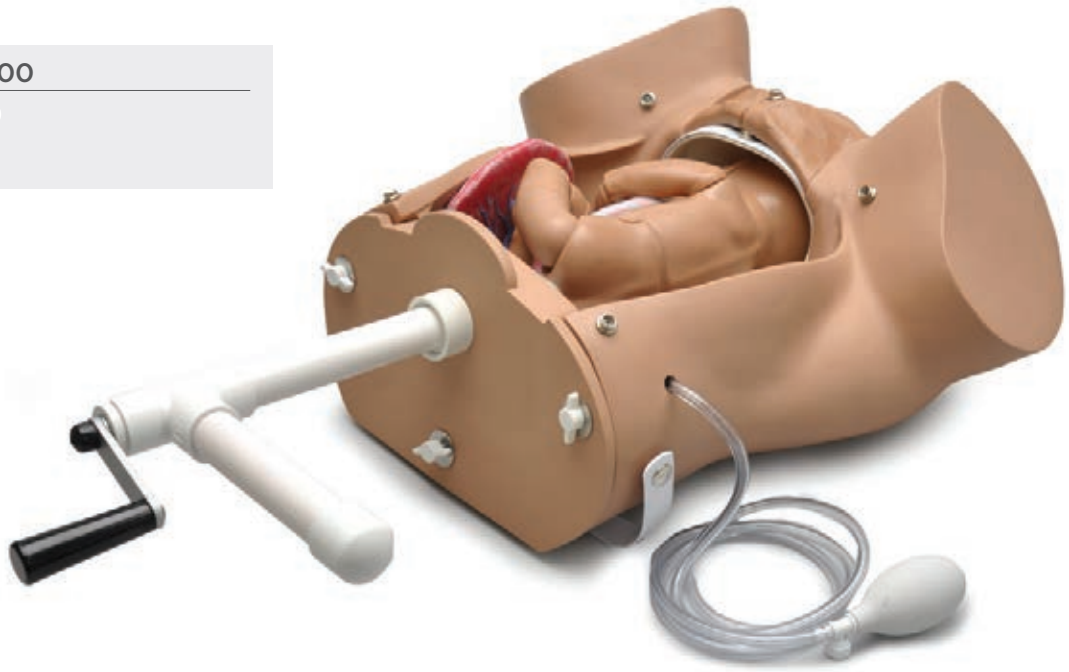
Heart rate, crying, & airway sounds
Select fetal heart rate, maternal HR or Newborn crying, grunting, or stridor sounds.

Obstetric SUSIE® S500.100 | Birthing Torso

OB SUSIE® S500.100

S500.100.PK

Patent 6,503,087



Features

- Portable
- Simulate cephalic and breech deliveries
- Leopold's maneuvers
- Cord prolapse and placenta previa
- Practice fundal massage
- Demonstrate internal rotation, expulsion, and external rotation
- Practice intrauterine manipulation to convert breech or transverse to vertex delivery
- Practice fundal massage to firm a "boggy" uterus
- Modules feature medial episiotomy with tears in the labia minora, mediolateral tears, and standard mediolateral episiotomy

Package includes

- 3 dilating cervices
- 1 fetus for "version" exercises
- 1 padded stomach cover
- 3 vulval inserts
- 2 placentas
- 3 umbilical cords
- Silicone lubricant and talcum powder
- Instructions
- Carrying bag

Nuchal Cord

Articulating fetus with palpable fontanelles, spine, shoulder, elbows, and knees

Birthing mechanism, dilating cervix, and articulating fetus

Palpation for Leopold maneuvers

- Place fetus in vertex, transverse, or breech position
- Lower cushion raises fetus for palpation
- Soft stomach cover facilitates palpation or fetal manipulation

Palpation module for Leopold maneuvers

Articulating fetus with palpable fontanelles, spine, shoulders, elbows, and knees

Normal vaginal delivery

- Birth from ROA or LOP positions
- Demonstrate rotation / expulsion
- Cervix dilates as labor progresses
- Position placenta to simulate placenta previa
- Practice reduction of nuchal cord

Extensible dilating cervix permits students to conduct vaginal exams and record results

Downward movement to deliver the anterior shoulder

Breech and vacuum delivery

- Place fetus on birthing mechanism in normal or breech position
- Teach Pinard "leg flip" during breech
- Pause normal delivery to create the need for the vacuum augmentation

Instrument assisted delivery

Breech delivery

S500 Original Childbirth Simulator®

S500.PK

A SIMA MODELS® Original

This versatile childbirth simulator not only provides an excellent simulation of the normal delivery experience for the student and educator but also provides instruction in abnormal and multiple deliveries. It may be used for demonstration of the following obstetric procedures:

- Normal vaginal delivery
- Complete, frank, and footling breech birth
- C-section delivery
- Ritgen's maneuver
- Episiotomy
- Vertex presentation
- Intrauterine manipulation
- Vertex/vertex, vertex/breech, breech/vertex, or breech/breech presentation in multiple births
- Prolapse of umbilical cord
- Demonstration of placenta previa: total, partial, and marginal
- Normal delivery of umbilical cord and placenta
- Palpation of fetal fontanelles

Package includes

- Removable diaphragm end plate for manual positioning of fetal baby
- Removable stomach cover for positioning fetus
- Life-size pelvic cavity with major anatomic landmarks
- Three soft vulval inserts for episiotomy exercises
- One baby boy and one baby girl, each with umbilical cord and placenta
- Anatomically accurate backbone and fontanelles on fetal baby/babies
- One skin-tone stomach cover
- Four extra umbilical cords
- Two umbilical clamps
- Talcum powder
- Instruction manual
- Soft carrying bag

Palpation Module For Leopold Maneuvers

S500.3

- One-piece fetal baby with palpable fontanelles, spine, shoulders, elbows, and knees
- Fetal baby may be placed in normal, breech, or transverse position
- Fetal baby cradled between two "cushions"
- Each cushion may be inflated independently of the other. Inflation of the lower cushion raises the fetus to the desired position while inflation of the upper cushion creates a firm abdomen like in the ninth month of pregnancy

SUSIE® Articulating Newborn For Leopold Maneuvers

S500.5.PK

- Newborn simulator with realistic mouth, nostrils, palpable fontanels, spine, shoulders, buttocks, elbows, and knees.
- Elevation cushion for raising and lowering the position fetus to increase palpation eas. Module fits in S500.
- Soft carrying bag

Labor Delivery Module

S500.4

- 6 labor stations selected to represent conditions of the cervix and vagina prior to labor, during labor, and at birth in a primigravid woman
- Stations may be placed in birth canal of the S500
- Stations illustrated: STA -5 prior to onset of labor, STA -4 cervix partially effaced, STA -3 cervices fully effaced
- STA 0 fetal head at plane of ischial spine, STA +2 cervix nearing full dilation
- STA +5 crowning of fetal head

Postpartum Suturing Trainer

S500.6

- Soft vinyl enables use of standard needle holder with "00" or "000" chromic sutures
- Three modules feature medial episiotomy with tears in the labia minora, mediolateral episiotomy with periurethral tears, and a standard mediolateral episiotomy

Birthing Mechanism (three-piece)

S500.10.PK

- Birthing fetus
- Birthing mechanism for advance and rotate fetus through birth canal
- Simulate crowning of fetal head
- Fetal rotation enables shoulder presentation
- Removable cervices automatically dilate as labor progresses
- Removable end-plate for insertion of birthing mechanism
- Manipulation of the vulva to pass the forehead, nose, and ears
- Soft carrying bag
- Instruction manual

ZOE® S504.200

Gynecologic Skills Trainer

- Anatomically accurate pelvic landmarks
- Realistic normal and abnormal cervices and uteri
- Modular additions for growing curricula
- Practice and perfect ‘sensitive’ procedures

ZOE® S504.200 Gynecologic Trainer

Lifelike realism makes the new ZOE® the perfect hands-on addition to any gynecologic skills curricula, providing invaluable experience on various gynecologic procedures.

- Speculum examination
- Bimanual examination
- Minilaparotomy
- Catheterization
- Fallopian occlusion
- Rectal medication
- Uterine sounding
- IUD placement

Accurate anatomy

The new ZOE® helps learners develop clinical skills for scenario-based exercises.

- Uniform skin with elasticity
- Ischial spines and coccyx
- Realistic cervices & uteri

Modular Additions

Optional additional pathology packages.

- Uteri external pathologies
- Uteri internal pathologies
- Fistulous tract models

ZOE® Gynecologic Skills Trainer

S504.200.PK

The ZOE® Gynecologic Torso comes with everything needed to start training in one complete package.

Torso Features

- Adult-sized lower torso with ischial spines and sacrum
- Vaginal introitus facilitates placement of a female condom or diaphragm
- Interchangeable cervices for visualization with speculum
- Lifelike cervices and uteri support bimanual examination
- Palpable, realistic uteri with ovaries and fallopian tubes
- Minilaparotomy visualization and occlusion of fallopian tubes
- Realistic urethra and bladder for catheterization exercises
- Perform uterine sounding with real instruments
- Interchangeable vulva for optional ZOE® packages

Package Contents

- ZOE® Gynecologic Torso
- Non-pregnant abdomen
- Anteverted uterus
- Retroverted uterus
- Clear IUD uterus
- Pregnant uteri: 6-8 weeks, 6-8 weeks w/ short ovarian ligaments, 10-12 weeks, 20 weeks
- (5) Normal patent cervices
- (6) Abnormal cervices
- Pregnant cervices: (3) 6-8 weeks, (3) 10-12 weeks
- Mineral oil
- Talcum powder
- Urine kit
- Instruction manual

External Pathologies Uteri Package

S504.200.235

Interchangeable uteri for recognizing abnormalities.

Package Contents

- Enlarged Uterus
- Small uterus
- Uterus with moderate retroversion
- Myomatous uterus
- Uterus with left side salpingitis
- Uterus with right side salpingitis
- Severely anteverted-anteflexed uterus
- Uterus with large ovarian cyst
- Uterus with medium ovarian cyst
- Bicornuate uterus

Internal Pathologies Uteri Package

S504.200.236

Interchangeable uteri for hysteroscopic viewing.

cutaway view

Package Contents

- Normal Anteverted Uterus
- Uterus with polyposis
- Uterus with varied polyps
- Uterus with hyperplasia
- Myomatous uterus
- Uterus with early carcinoma
- Uterus with advanced carcinoma
- Uterus with fundus carcinoma
- Subseptate uterus

Fistula Package

S504.200.700.1

Lifelike practice suturing fistulous tracts.

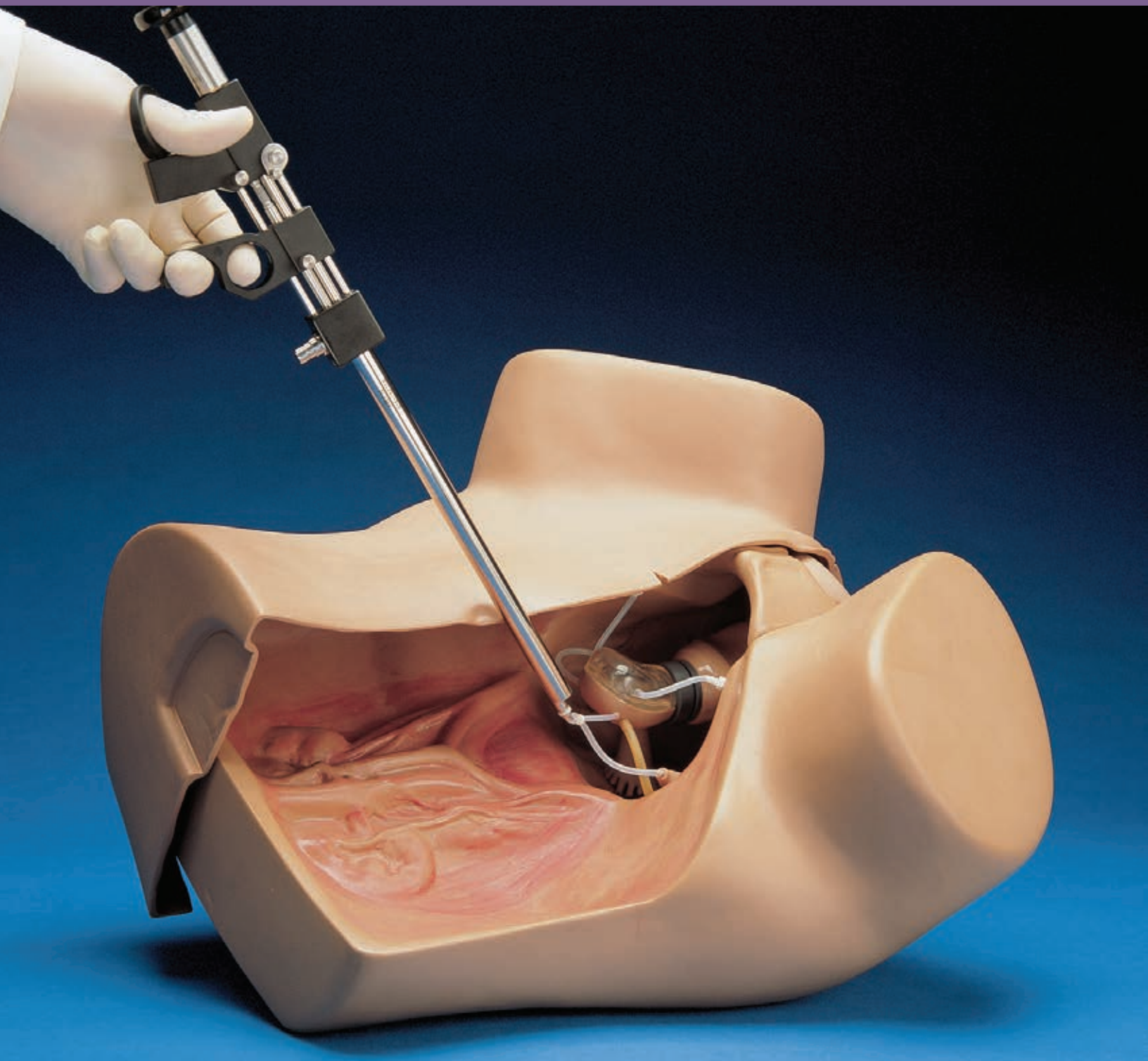
Package Contents

- Vulva with vesicovaginal, rectovaginal, and urethrovaginal fistulas
- Optional carrying case

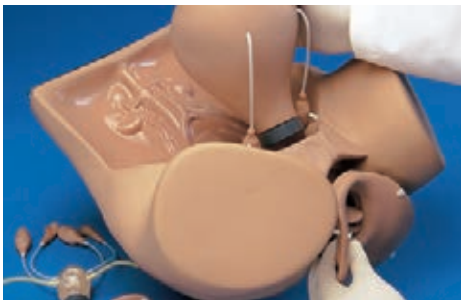
ZOE® S504.100

GYNECOLOGIC SKILLS TRAINER

Quite simply the very best gynecologic examination simulator available. Designed by physicians for physicians and healthcare providers, ZOE® allows you to demonstrate multiple gynecologic procedures and practice laparoscopic examination and minilaparotomy.



Patents 5,472,345 and D352,313



Interchangeable introitus adds flexibility for multiple ZOE® options. Shown here is the 48-hour postpartum kit

Insertion of IUD into uterus

Accessing replaceable fallopian tubes through minilap incision

Features

- Full-size female lower torso with relevant internal anatomic landmarks
- Bimanual pelvic examination
- Palpation of normal and pregnant uteri
- Vaginal examination, including the insertion of speculum
- Visual recognition of normal and abnormal cervices
- Uterine sounding
- IUD insertion and removal
- Distal end of vagina facilitates introduction of a female condom or sizing a 75mm diaphragm
- Removable introitus adds flexibility for addition of multiple ZOE® options
- Laparoscopic visualization and occlusion of fallopian tubes
- Minilaparotomy
- One anteverted and one retroverted parous uterus
- One normal uterus with short fallopian tubes for palpation exercise
- Early pregnancy uteri. One is 6-8 weeks, and the other is 10-12 weeks
- One twenty-week pregnant uterus
- Five normal cervices with patent os
- Four abnormal cervices
- 10 fallopian tubes
- Realistically sculpted and anatomically accurate ovaries and fimbriae
- Uterus and cervix feature patented "screw" design for fast and easy change-out
- Talcum powder
- Soft carrying bag

Interchangeable uteri with normal and abnormal external pathologies

Early pregnancy uteri

Normal and abnormal cervices

Interchangeable uteri

ZOE® Gynecologic Skills Trainer

S504.100.PK

ZOE® S504.100 torso, anteverted and retroverted non-pregnant uteri, 20-week postpartum uterus, normal and abnormal cervices, IUD insertion uterus, accessories, user guide, and soft carrying bag.

Options

Seven Palpable Pathologies

S504.1.PK

Set of seven normal and abnormal uteri with externally palpable pathologies, featuring patented "screw" design

Seven Internal Pathologies

S504.2.PK

Set of seven normal and abnormal uteri with internal pathologies for hysteroscopic viewing, featuring patented "screw" design

48hr Postpartum Uterus

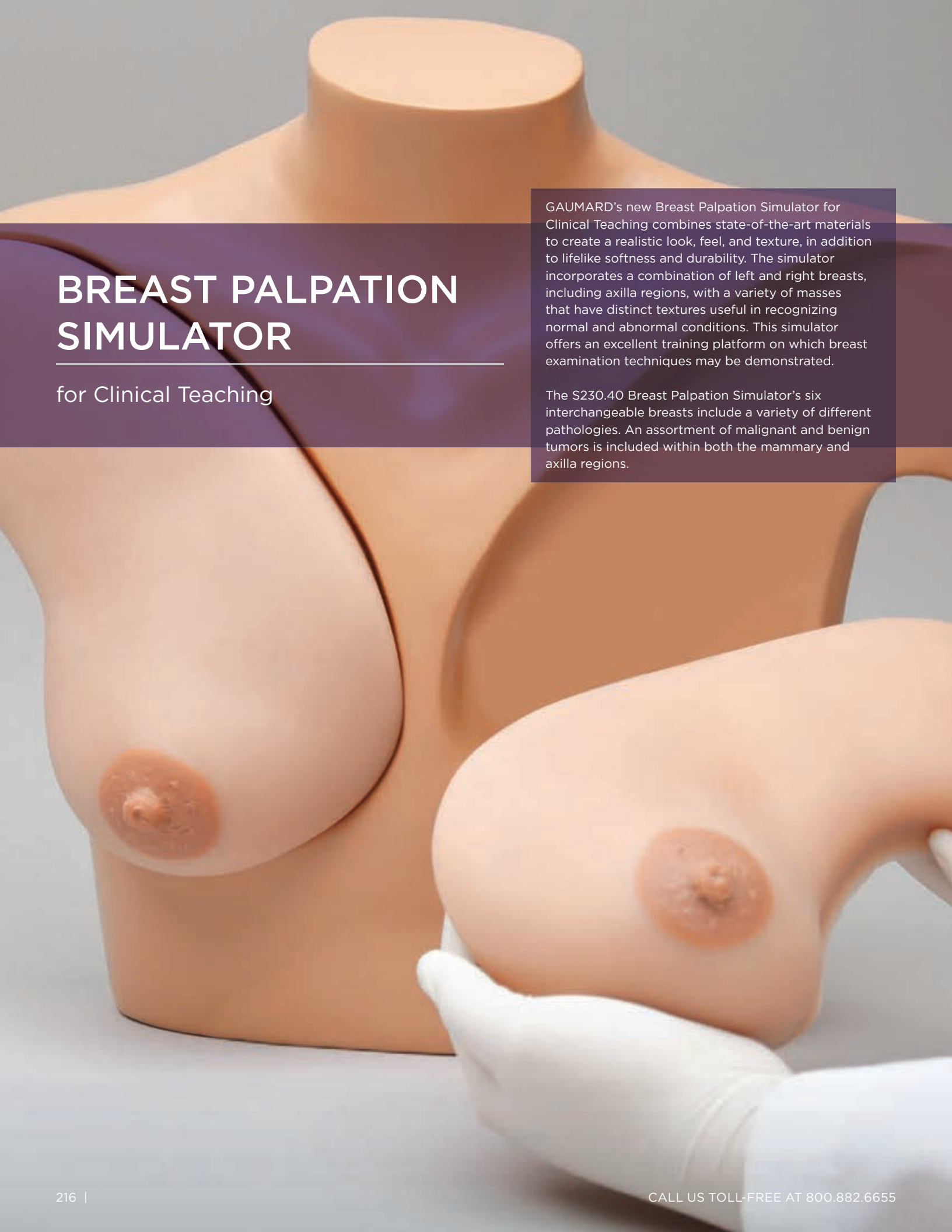
S504.3.PK

48hr postpartum uterus with duckbill cervix and fallopian tubes for IUD insertion using long curved forceps

Postpartum Uterus for IUD placement

S504.5.PK

10-minute postpartum uterus for IUD insertion



BREAST PALPATION SIMULATOR

for Clinical Teaching

GAUMARD's new Breast Palpation Simulator for Clinical Teaching combines state-of-the-art materials to create a realistic look, feel, and texture, in addition to lifelike softness and durability. The simulator incorporates a combination of left and right breasts, including axilla regions, with a variety of masses that have distinct textures useful in recognizing normal and abnormal conditions. This simulator offers an excellent training platform on which breast examination techniques may be demonstrated.

The S230.40 Breast Palpation Simulator's six interchangeable breasts include a variety of different pathologies. An assortment of malignant and benign tumors is included within both the mammary and axilla regions.

Breast Palpation

S230.40.PK

Features

- 3 interchangeable left breasts demonstrating chronic mastitis, benign growth, and scirrhous carcinoma
- 3 interchangeable right breasts demonstrating carcinoma and the "orange skin" effect, giant sarcoma, and normal breast tissue
- Lifelike softness
- Realistic texture and durable
- Breasts are attached to an adult upper torso and can be easily removed and reassembled
- The trainer can be used in either the upright or reclining position
- Medium skin tone standard
- Light or dark skin tone optional at no extra cost
- Soft carrying bag

Breast pathology

The following is a detailed description of the 6 interchangeable breast inserts:

1. **Right Breast #1:** Normal
2. **Right Breast #2:** This breast shows a comparatively rare but palpable tumor: a giant sarcoma (or giant mammary myxoma) of which the wildly growing masses can be easily felt. The Giant Sarcoma can be palpated in the lower outer quadrant, and the sarcomas, including a columnar mass, are scattered within the upper quadrants.
3. **Right Breast #3:** This breast shows an inverted nipple with "orange skin" effect. On careful palpation, a mass can be felt immediately under the nipple. The breast represents a carcinoma in one of the milk ducts.
4. **Left Breast #1:** This breast represents (in a slightly exaggerated form) various stages of fibrocystic disease (chronic mastitis), which is due to an endocrine imbalance and may be found in many normal women. There are six discreet fibrocystic nodes in the lower outer quadrant and a somewhat larger node in the upper inner quadrant. Two additional malignant tumors can also be palpated in the upper outer quadrant, one resulting from an enlarged lymph node.
5. **Left Breast #2:** Fibroadenomas are one of the most common types of benign growths for women under the age of 30. Three fibroadenomas varying in size from 10-16mm and an additional 20mm benign tumor are dispersed within the breast tissue.
6. **Left Breast #3:** Scirrhus carcinoma is one of the more commonly encountered malignant tumors. When palpating, note the infiltrating nature of the growth. It has no well-defined borders and cannot be moved within the breast.

Right Breast #1: Normal Breast

S230.40.853R.1
Includes carrying bag

Right Breast #2: Giant Sarcoma with Wildly Growing Masses

S230.40.853R.2
Includes carrying bag

Right Breast #3: Inverted Nipple with "Orange Skin" Effect

S230.40.853R.3
Includes carrying bag

Left Breast #1: Chronic Mastitis

S230.40.853L.1
Includes carrying bag

Left Breast #2: Benign Growth

S230.40.853L.2
Includes carrying bag

Left Breast #3: Scirrhus Carcinoma

S230.40.853L.3
Includes carrying bag

Adult Upper Torso

S230.40.870
Includes carrying bag

Left breast contains three cysts and six masses randomly placed in the breast and axilla

Right breast contains ten cysts of different sizes and depths

Ultrasound equipment not included

Breast phantom simulator

Left and right breasts attach to adult upper torso. The left breast permits ultrasound identification of cysts versus dense masses, while the right breast permits identification of cysts of different sizes and depths.

- Visualize masses and cysts using real ultrasound equipment
- Learn to do ultrasound-guided needle aspiration in a relaxed environment before moving onto actual patients
- Realistic texture and look
- Self-healing skin
- Breasts easily removed and assembled
- Use in either the upright or reclining position
- Indiscernible masses and cysts prompt students to resort to ultrasound imaging
- Medium skin tone standard
- Optional light or dark skin tone
- Soft carrying bag
- User guide

Breast Phantom Simulator

S230.52.PK

Patents pending

Replacement Breast Pair

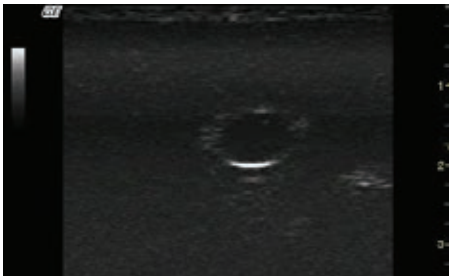
S230.52.853

Left Replacement Breast

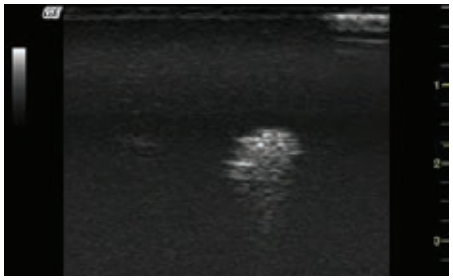
S230.52.853L

Right Replacement Breast

S230.52.853R



Ultrasound image from left breast showing cyst

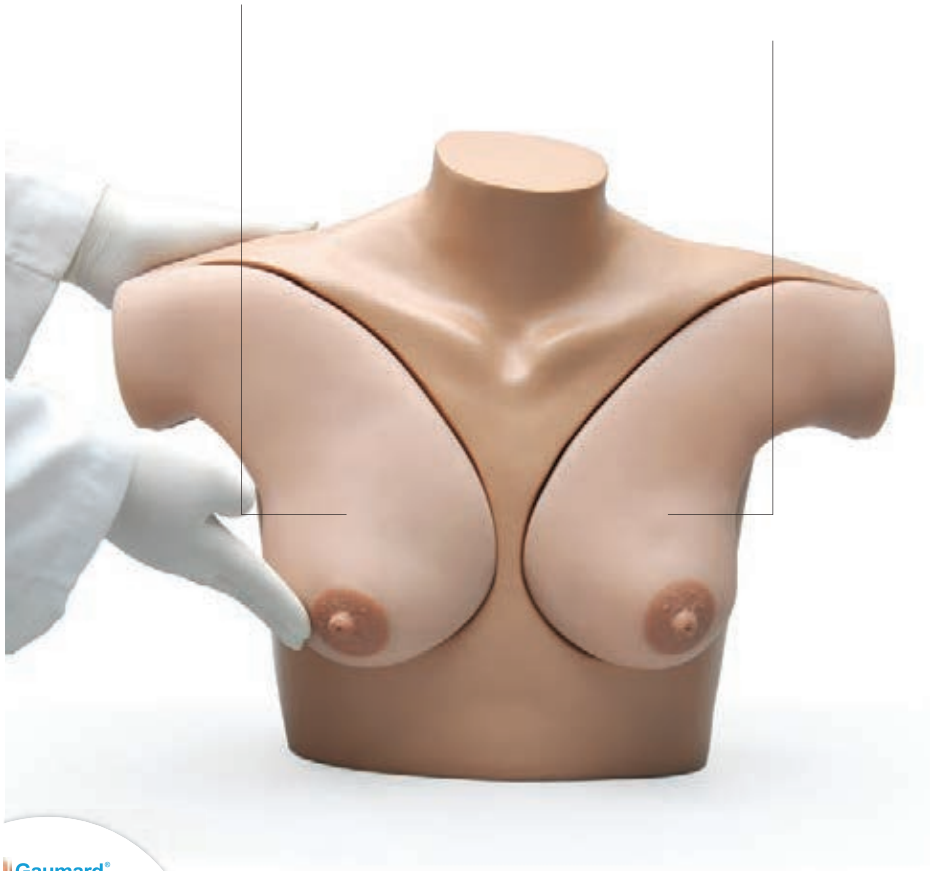


Ultrasound image from left breast showing solid mass

Remove fluid while seeing the cyst shrink and then disappear

Right Breast contains two masses designed to simulate an enlarged axillary lymph node and two fluid-filled cysts (19 and 24 mm).

Left breast contains four masses in the breast tissue and two masses in the axilla region. The masses range in size from 14 to 19 mm, and their depths range from 6 to 16 mm beneath the surface.



Breast self-examination

Left and right breasts attach to the adult upper torso. The left breast permits the ultrasound identification of cysts versus dense masses, while the right breast permits identification of cysts of different sizes and depths.

- Lifelike softness
- Realistic texture and look
- Durable
- Breasts are attached to upper torso and can be easily removed and reassembled
- Simulator can be used in either the upright or reclining position
- Medium skin tone standard
- Light and dark skin tone - optional at no extra cost
- Soft carrying bag
- User guide

Breast Examination Skills Trainer

S230.42.PK

Patents pending

Replacement Breast Pair

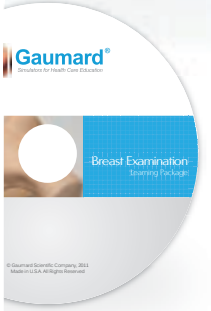
S230.42.853

Left Replacement Breast

S230.42.853L

Right Replacement Breast

S230.42.853R



Includes a Breast Examination Learning Package CD, which provides instructors with additional information and performance-based learning materials. The Learning Package assists students with learning how to perform breast examinations competently and enables instructors to measure student performance objectively. Also included is a user guide that provides technical information on how to care for the Breast Examination simulator S230.42.

Each breast is removable and may be purchased separately

Both breasts can be used to teach palpation (spiral or up and down method)

Learn to palpate differences between breast masses and cysts

RITA™ Reproductive Implant Training Arm

S519.PK

A compact simulator designed to insert and remove Levonorgestrel (Norplant®) implants

Features

- Upper left arm on base
- Soft foam insert simulates soft arm tissue
- Supports insertion of implant using trochar
- Soft foam insert allows multiple insertion exercises
- Five tubular inserts
- One extra latex skin
- Instructions

GYN/AID Gynecologic Simulator

S503.PK
Patent 5,472,345

One of our most popular products! The full-size female adult lower body gives students and educators a graphic experience in vaginal speculum examination, bimanual pelvic examination, IUD insertion techniques, diaphragm sizing and fitting, uterine sounding, and viewing of normal and abnormal cervices.

Features

- Full-size female adult lower body with removable soft outer skin (1)
- One anteverted transparent uterus for IUD insertion and removal exercises
- Anteverted uterus (solid) with shortened round ligaments (1)
- Velcro attached airbag behind uterus (2)
- External squeeze bulb connected to the airbag (1)
- (1) normal and (5) abnormal anatomically accurate cervices
- Non-Patent Cervices (One normal, five with various pathologies) (6)
- Uteri (One normal, six with various pathologies) (7)
- Talcum Powder (1)
- Instruction Manual (1)
- Soft Carrying Bag (1)

Cervical Replicas

S505.PK
Patent 5,472,345

This "desktop" model is an excellent patient education tool for physicians and healthcare providers.

- Cervix with erosion
- Cervix with linear laceration
- Cervix with polyp
- Cervix with inflamed Nabothian cyst
- Cervix with acute purulent cervicitis
- Cervix with carcinoma
- Mounted on smoked Lucite base

Female Pelvic Organs I

S506.PK

Features

- Coronal section of uterus, ovaries, and fimbriae
- Uterus covered by clear plastic window to permit easy viewing of correct IUD placement

Uterus I

S507.PK

Features

- Normal uterus
- Clear plastic window permits easy viewing of IUD
- Plastic window "tilts" open to permit removal of IUD

Uterus II

S507.100.PK

Features

- Coronal section of uterus, ovaries, and fimbriae
- Clear plastic window permits easy viewing of IUD

Family Planning Educator

S502.PK

Our family planning educator is a popular "desktop" simulator used to demonstrate the introduction and removal of an IUD, diaphragm, and sponge contraceptive devices. In addition, bimanual examination techniques may be practiced, and normal and abnormal uterine positions may be demonstrated. The vulva, is made of ultra-soft vinyl to give lifelike feel and flexibility.

- One anteverted uterus with clear upper half to illustrate correct position of IUD
- One uterus to illustrate normal anteversion
- Cervix with patent os attaches to uterus suspended within pelvic cavity
- Soft plastic stomach cover
- Instruction manual
- Soft carrying bag

Cervical Dilatation

W90

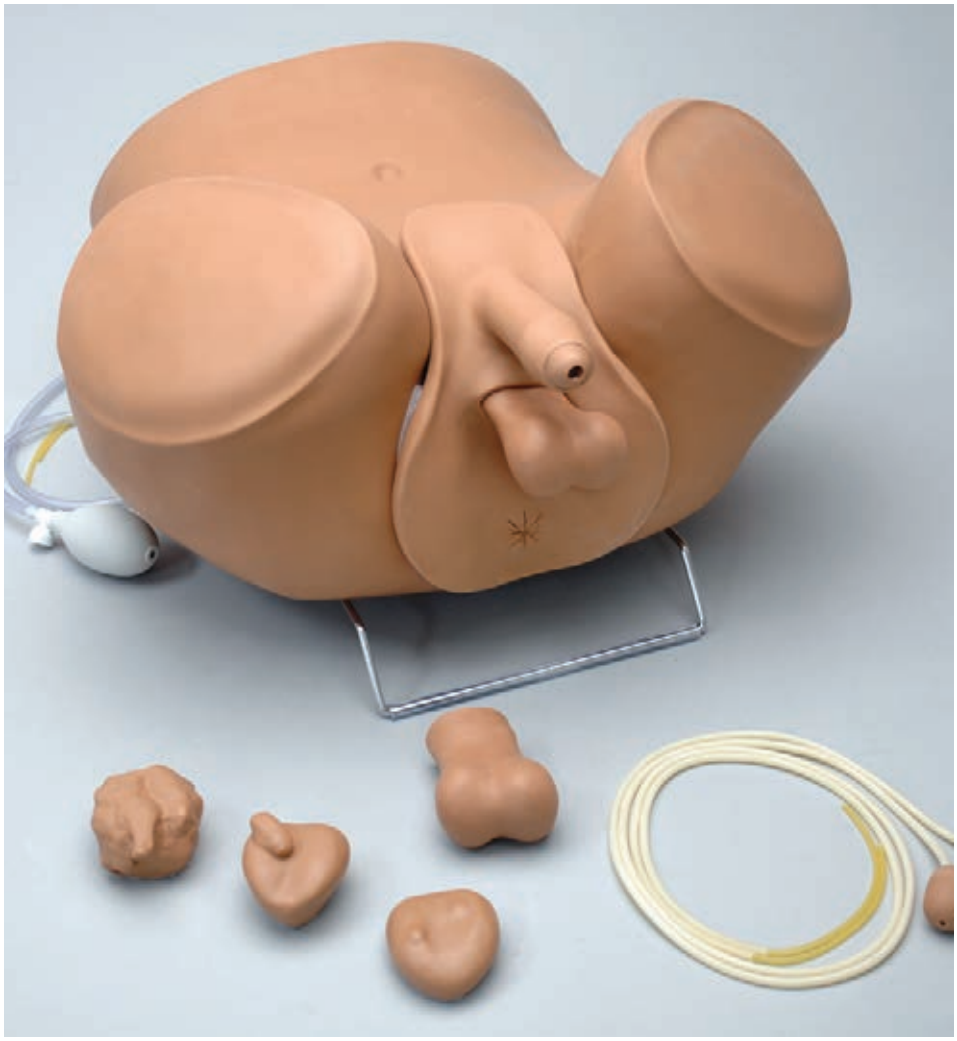
With hand-painted, three-dimensional models, this handsome easel display illustrates cervical effacement from -8 cm. It may be used as a tabletop display or hung on the wall like a chart. Supplied with protective felt cover, 9 inches x 12 inches.

ZACK™ Multipurpose Male Care Simulator

S230.11.PK

Features

- Full-size male lower torso
- Internal bladder for catheterization
- Four interchangeable prostates depicting moderately enlarged benign prostate, prostate with two discreet nodules, prostate with easily palpable large mass, prostate with invasive malignant cancer
- Realistic penis and two scrotal sacks- one scrotal sack is normal, and the other contains tumors in each testicle
- No Scalpel Vasectomy kit containing two removable scrotal skins, two testicles and two long vas assemblies that can be advanced as needed for NSV exercises
- Rectum and colon containing benign and malignant masses easily visualized using an appropriate endoscope
- Instruction manual
- Soft carrying bag



Internal bladder permits catheterization exercises

Locate nine tumors using endoscope

Perform digital examination using four interchangeable prostates

Check for testicular lumps

Conduct testicular self examination

Observe typical colon tumors

Prostate Exam Skills Trainer

S230.3.PK

Features

- 4 interchangeable modules depicting moderately enlarged benign prostate, a prostate with two discreet nodules, a prostate with an easily palpable large mass, and a prostate with invasive malignant cancer
- Prostates individually mounted on clear plastic cards for easy placement and removal
- Soft carrying bag

Male Condom Model

S517.PK

An excellent model for demonstrations and "hands-on" training in the use of a condom. The model is manufactured in a soft, flexible vinyl and is adaptable from a flaccid to an erect state. Mounted on a smoked Lucite stand. Supplied with instruction manual.

No Scalpel Vasectomy (NSV) Model

S518.PK

A compact simulator developed to assist students in mastering a new method of vas occlusion. To provide realism, the leg stumps are designed to "get in the way" of the student as the procedure is mastered.

- 2 removable scrotal skins
- 2 testicles
- 2 long vas assemblies can be advanced as needed for NSV exercises

CARE IN MOTION™

Video-Assisted Debriefing Made Easy

- Wireless HD video and audio recording
- Mobile and battery-powered
- Intuitive and easy-to-use touchscreen interface
- From setup to recording in seconds
- Powerful playback and review tools
- World-class service and support

Introducing CARE IN MOTION™.

Video-assisted debriefing made easy.

Care In Motion™ is an innovative video recording and playback platform designed to maximize learning through video-assisted debriefing. Developed with a focus on usability, functionality, and reliability, Care In Motion finally makes recording and debriefing simple so you can focus on what's important—achieving better outcomes.

Quick and easy setup.

Say goodbye to frustration. Care In Motion is preconfigured and ready for use right out of the box—just power on and it is ready. The touch-enabled interface makes navigation and operation fast and familiar.

Wireless audio and video recording.

Care In Motion is optimized for recording wireless audio and video from multiple sources simultaneously, whether in-situ or in transit, without interruption. Meanwhile, high-quality capture ensures you never miss a learning opportunity.

Playback and debrief.

Playback sessions right on the device or remotely through secure access. Easily browse and replay key learning opportunities for exploration, discussion, and reflection.

Seamless scenario integration and smart data capture.

Seamless UNI® and Care In Motion integration automatically captures and synchronizes Gaumard patient vitals and sensor data with video in real-time. What's more, smart data management easily captures and flags key events, allowing you to stay focused on the scenario.

Wireless solutions optimized for your dynamic learning environment.

Care In Motion includes everything you need to facilitate recording and playback in nearly any environment. The hardware is easy to use, wireless, and requires no previous technical know-how to operate. You get maximum flexibility without the costs associated with training and permanent infrastructure installation.

Go from setup to recording in seconds.

From the point of injury, through transport, and beyond, wireless connectivity lets you capture every angle without interruption. Battery-powered components mean no power cables, no wires, and less hassle.

Versatile and scalable.

Easily add more cameras anytime, including your own. Legacy support for a comprehensive selection of high-def cameras lets you make use of existing devices.

Service and Support.

Get the service and support you need, when you need it. Gaumard offers you free phone support and software updates for the life of the product.

Feature Highlights

General

- Preconfigured and ready for use out of the box
- Intuitive touch-optimized user interface
- Responsive web-based interface

Recording

- Record multiple high-definition video and audio streams simultaneously
- State-of-the-art video compression technology stores hundreds of hours of footage with virtually no loss in visual quality
- Add quick notes (flags) during a live recording with a single touch
- Legacy support for high-definition cameras
- Capture Gaumard Vital Signs Monitor video feed in real-time
- Customizable user account control
- Start/stop recording from UNI®
- Smart data capture automatically parses log event information for reviewing
- Preconfigured with wireless encryption to keep video feeds secure
- Automatic synchronization of UNI event log data with video capture
- Event flags can be customized to your debriefing style
- Supports wireless capture via mobile phones and tablets via IP camera software

Playback and Review

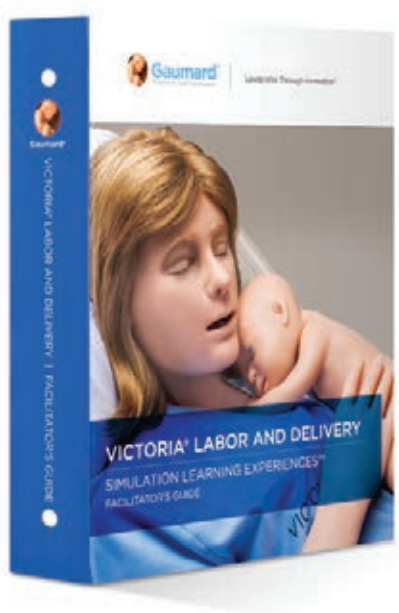
- Session recordings are available for playback immediately
- Isolate audio channels as needed
- Review session video directly on the device or remotely via web interface
- Easily jump to key events in the recording by clicking the time-stamped event entry
- Export session video with annotations for storage and/or playback on other devices.
- Physiological data timeline
- Search debriefing session library by session name, simulator type, room, date, and more
- Session files are stored securely via user account access control
- Supports video output to large screen TVs and projectors

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

Simulation Learning Experiences™ Scenario Packages



Simulation Learning Experiences™ Scenario Packages.

The new Simulated Learning Experiences (SLE) scenario packages provide you with a library of ready-to-use, evidence-based scenarios, and supports content designed to help you maximize training and learning.

Scenario Content Mapped to Your Educational Objectives.

Select from a library of packages mapped to the NCLEX-RN©, the BSN Essentials, QSEN, and IPEC competencies. Each package has been developed to assist learners successfully transfer their knowledge and skills to future clinical situations.

Powerful, Preprogrammed UNI® Scenarios.

SLE scenario packages include UNI® scenario programming, which automatically manages the patient's symptoms, vitals, and responses. UNI® preprogrammed scenarios help reduce the operator's workload, increase realism, and standardize your simulation events.

- Physiologically accurate: symptoms, vitals, and responses validated through evidence-based clinical research
- Smart automation: automated responses to select provider actions. Play, pause, or restart at any time
- Monitor and track: log participants' actions via built-in event tracker
- Flexible: easily adjust vital signs on-the-fly when needed
- Repeatable: consistent presentations allow for standardized assessment across groups of participants

Strategic Guide for Facilitating Learning.

The SLE Facilitator's Guide provides you content designed to help you plan, set up, and facilitate the SLEs so you can incorporate HAL® quickly and easily into your education program.

Each SLE includes the following sections:

- Purpose of the SLE
- Evidence-based Rationale
- Learning Objectives
- Competencies Addressed
- Recommended Psychomotor Skills
- Suggested Supplies for the Scenario
- Pre-briefing Report
- Relevant Patient History
- List of Expected Participant Actions
- Scenario Flowchart

VICTORIA® Labor and Delivery Simulation Learning Experiences™ Scenario Package

30080745A

Labor and Delivery SLE scenario package for VICTORIA® S2200. Package includes: (1) SLE Facilitator's Guide (Printed book). (1) Non-transferable UNI® SLE profile activation code. (9) Preprogrammed UNI® SLE scenarios.

1. Amniotic Fluid Embolism
2. Breech Vaginal Delivery
3. Magnesium Toxicity
4. Normal Vaginal Delivery
5. Placental Abruption
6. Postpartum Hemorrhage
7. Preeclampsia
8. Prolapsed Cord
9. Shoulder Dystocia

TORY® Neonatal Care Simulation Learning Experiences™ Scenario Package

30080747A

Neonatal Care SLE scenario package for TORY® S2210 and Newborn HAL S3010 patient simulators. Package includes: (1) SLE Facilitator's Guide (Printed book). (1) Non-transferable UNI® SLE profile activation code. (8) Preprogrammed UNI® SLE scenarios.

1. Acute Respiratory Distress Syndrome
2. Bronchopulmonary Dysplasia and Pulmonary Hypertension
3. Drug-Exposed Infant/Neonatal Abstinence Syndrome
4. Early-Onset Sepsis
5. Late-Onset Sepsis
6. Nuchal Cord
7. Pneumonia
8. Shoulder Dystocia

NOELLE® Labor and Delivery Simulation Learning Experiences™ Scenario Package

30080748A

NOELLE® Labor and Delivery SLE scenario package for NOELLE® S575.100, S574.100, S576.100, and S554.100 patient simulators. Package includes: (1) SLE Facilitator's Guide (Printed book). (1) Non-transferable UNI® SLE profile activation code. (9) Preprogrammed UNI® SLE scenarios.

1. Amniotic Fluid Embolism
2. Breech Vaginal Delivery
3. Magnesium Toxicity
4. Normal Vaginal Delivery
5. Placental Abruption
6. Postpartum Hemorrhage
7. Preeclampsia
8. Prolapsed Cord
9. Shoulder Dystocia

PREMIE HAL® Simulation Learning Experiences™ Scenario Package

30080751A

Premie HAL® SLE scenario package for PREMIE HAL® S2209 and PREMIE HAL® S3009 patient simulators. Package includes: (1) SLE Facilitator's Guide (Printed book). (1) Non-transferable UNI® SLE profile activation code. (5) Preprogrammed UNI® SLE scenarios.

1. CPAP and OG Tube Placement
2. Premie Early-Onset Sepsis
3. Premie Resuscitation
4. Respiratory Distress Syndrome
5. Umbilical Catheterization

Simulation Learning Experiences™ Scenario Packages

HAL® Simulation Learning Experiences™ Scenario Package

30080750A

Simulation Learning Experiences scenario package for HAL S3201, HAL S3101, HAL S3000, and HAL S1000 patient simulators. Package includes: (1) SLE Facilitator's Guide (Print book). (1) Non-transferable UNI® SLE profile activation code. (10) Preprogrammed UNI® SLE scenarios.

1. Acute Anterolateral Myocardial Infarction
2. Acute Sepsis Related to Diabetic Ulcer
3. Atrial Fibrillation
4. COPD Exacerbation
5. Diabetic Ketoacidosis
6. Opioid Overdose
7. Pulmonary Embolism
8. Sepsis Related to Pneumonia
9. Severe Sepsis
10. Supraventricular Tachycardia

Pediatric HAL ® S3005 Simulation Learning Experiences™ Scenario Package

30080755B

Simulation Learning Experiences scenario package for Pediatric HAL S3004. Package includes: (1) SLE Facilitator's Guide (Printed book). (1) Non-transferable UNI® SLE profile activation code. (10) Preprogrammed UNI® SLE scenarios.

1. Acute Lymphocytic Leukemia
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. Five-Year-Old with Trauma

TRAUMA HAL® Simulation Learning Experiences™ Scenario Package

30080749A

Simulation Learning Experiences scenario package for Trauma HAL S3040.100 and Trauma HAL S3040.50 patient simulators. Package includes: (1) SLE Facilitator's Guide (Printed book). (1) Non-transferable UNI® SLE profile activation code. (10) Preprogrammed UNI® SLE scenarios.

1. Airway Trauma Secondary to an IED Detonation
2. Acute Respiratory Distress Syndrome Secondary to Motor Vehicle Crash
3. Blast Injury in a Civilian Setting
4. Potential Concussion or Hypovolemia
5. Fall-Related Injuries
6. Gunshot Wound To The Chest
7. Gunshot Wound To The Leg
8. Traumatic Limb Amputation Secondary to Motorcycle Crash
9. Traumatic Limb Amputation And Possible Traumatic Brain Injury
10. Traumatic Multiple Limb Amputations with Possible Traumatic Brain Injury

Pediatric HAL® S3004 Simulation Learning Experiences™ Scenario Package

30080756B

Simulation Learning Experiences scenario package for Pediatric HAL S3005. Package includes: (1) SLE Facilitator's Guide (Printed book). (1) Non-transferable UNI® SLE profile activation code. (10) preprogrammed UNI® SLE scenarios.

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

The Pediatric HAL® S2225 Simulation Learning Experiences™ Facilitator's Guide

11120146B

Simulation Learning Experiences Facilitator's Guide for Pediatric HAL S2225. Print book only.

1. Acute Lymphocytic Leukemia
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

SUSIE® Nursing Simulation Learning Experiences™ Facilitator's Guide Vol. 1

11120150A

Simulation Learning Experiences Facilitator's Guide for SUSIE S901 and SUSIE S1001 UNI® SLE scenarios. Print book only.

1. Acute Myocardial Infarction
2. Acute Respiratory Distress Syndrome Secondary to Motor Vehicle Crash
3. Asthma Attack
4. Chronic Obstructive Pulmonary Disease Exacerbation
5. Fluid and Electrolyte Imbalance
6. Heart Failure
7. Hypoglycemia
8. New-Onset Diabetes
9. Pneumonia
10. Sepsis

SUPER TORY® Simulation Learning Experiences™ Facilitator's Guide

11120156A

Simulation Learning Experiences Facilitator's Guide for SUPER TORY® S2220. Print book only.

1. Acute Respiratory Distress Syndrome
2. Bronchopulmonary Dysplasia With Pulmonary Hypertension
3. Diaphragmatic Hernia
4. Drug-Exposed Infant/Neonatal Abstinence Syndrome
5. Early-Onset Sepsis
6. Hyperbilirubinemia
7. Late-Onset Sepsis
8. Nuchal Cord
9. Pneumonia
10. Shoulder Dystocia

SUSIE® Nursing Simulation Learning Experiences™ Facilitator's Guide Vol. 2

11120151A

Simulation Learning Experiences Facilitator's Guide for SUSIE S2000. Print book only.

1. Acetaminophen Overdose/Liver Failure
2. Acute Myocardial Infarction – Level 2
3. Acute Respiratory Distress Syndrome Secondary to MVC – Level 2
4. Chronic Obstructive Pulmonary Disease Exacerbation – Level 2
5. Diabetic Ketoacidosis
6. Fluid and Electrolyte Imbalance – Level 2
7. Heart Failure – Level 2
8. Pneumonia – Level 2
9. Potential Cervical Carcinoma
10. Sepsis – Level 2

WOUND KITS

Adult

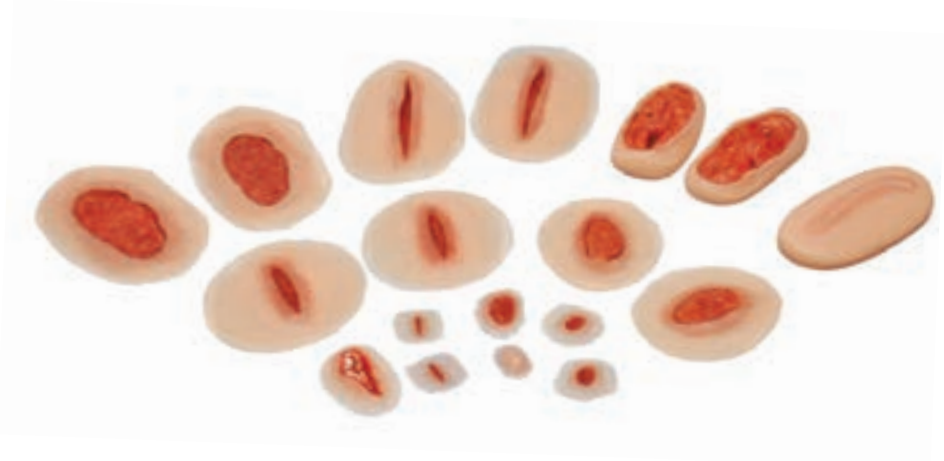
- Designed for GAUMARD® patient simulators
- Specially formulated silicone offers lifelike look and feel
- Tough, resilient, and reusable
- Ready for use and easy to apply; no makeup or paint required
- Light, medium, or dark skin tone kits available at no extra charge
- Carrying Case included

Adult Emergency Wound Kit

WK100

- 11 wound types
- 18 total wounds

The Emergency Wound Kit assists in training exercises simulating community disasters like bus accidents or building explosions. Practice the proper care, management, and transportation of the injured.



Small skin incision and skin abrasion

Skin incision (cut) medium size

Large skin abrasion

Compound bone fracture

Knife wound and medium skin abrasion

Deep wound in thigh

Contusion to the head with inflammation

Left side boneless laceration

Thigh suture

Adult Burn Wound Kit

WK105

- 5 wound types
- 10 total wounds

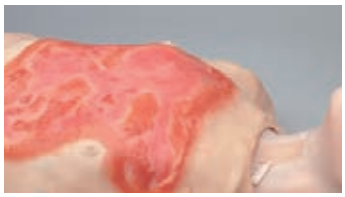
These wounds simulate multiple burn injury types, allowing students to assess the burn type and prepare a treatment plan. Instructors can measure the performance of burn management.

Burn on back

Burn on hand

Burn on forearm

Burn on face



Burn on chest

Adult Trauma Wound Kit

WK110

- 8 wound types
- 10 total wounds

These trauma wounds will assist in training exercises for military, government responders, and anyone providing treatment to victims of disasters and war. Detailed sculpting and painting create realism for the medics training to respond to these events.

Open humerus fracture

Round gunshot wound

Large caliber wound entry and exit

Open radius/ulna fracture

Open femur fracture

Object embedded in thigh

Abdominal/protruding intestine

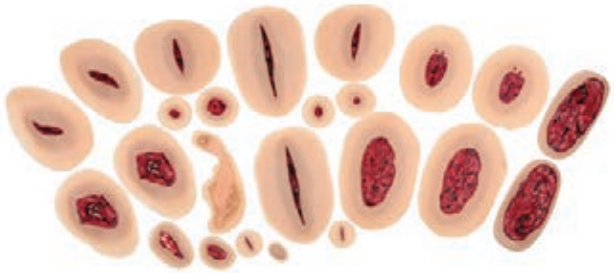
Open tibia fracture

Adult Casualty Wound Kit

WK120

- 14 wound types
- 23 total wounds

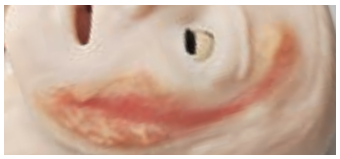
This kit contains everything necessary to stage incredibly realistic casualty scenarios. This 23-piece kit has burns, lacerations, compound fractures, gunshot wounds, incisions, abrasions, and more.



Small skin incision & skin abrasion

Left side boneless laceration

Knife wound and medium skin abrasion



Burn on face

Skin incision (cut) medium size

Large caliber wound entry & exit

Object embedded in thigh

Round gunshot wound

Object in thigh and large skin abrasion

Compound bone fracture

Contusion to the head with inflammation

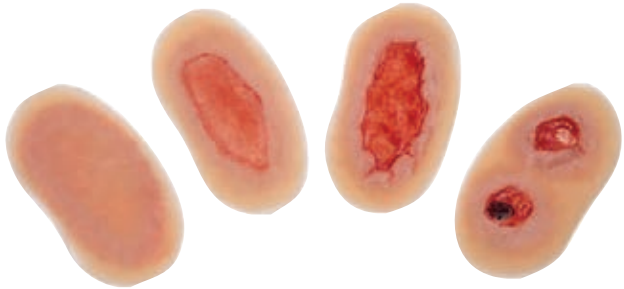
Deep wound in thigh

Decubitus Ulcer Wound Kit

WK145

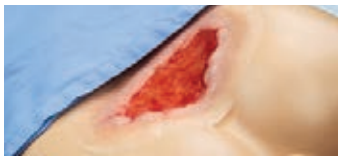
- 4 wound types

The decubitus ulcer wound kit includes Stage 1 through Stage 4 decubitus ulcers, allowing students to assess the severity of the wound and formulate a treatment plan.



Stage 1 Decubitus Ulcer

Stage 2 Decubitus Ulcer



Stage 3 Decubitus Ulcer

Stage 4 Decubitus Ulcer

WOUND KITS

Pediatrics

- Designed for GAUMARD® patient simulators
- Specially formulated silicone offers lifelike look and feel
- Tough, resilient, and reusable
- Ready for use and easy to apply; no makeup or paint required
- Light, medium, or dark skin tone kits available at no extra charge
- Carrying Case included

Pediatric Incident Wound Kit

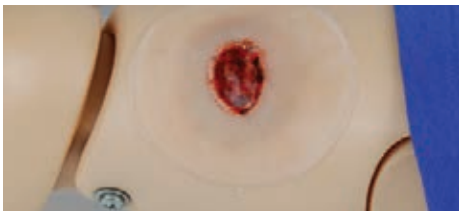
WK125

- 11 wound types
- 15 total wounds

These wounds simulate the most common injury types encountered in pediatric care, including bites, stings, abrasions, contusions, punctures, and incisions, allowing the realistic practice of proper care management.

Femoral abrasion

Bee sting



General abrasion

Shoulder abrasion

Skin rash

General incision

Head contusion

Puncture wound

Snake bite

Human bite

Canine bite

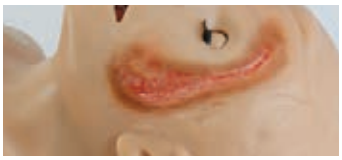
Pediatric Burn Wound Kit

WK130

- 12 wound types
- 12 total wounds

These wounds simulate 1st, 2nd, and 3rd-degree burns to the face, hand, and chest. Students can assess the burns to prepare a treatment plan while instructors can evaluate the performance of burn management.

Facial Burn 1st Degree



Facial Burn 2nd Degree

Facial Burn 3rd Degree

Chest Burn 1st Degree

Chest Burn 2nd Degree

Chest Burn 3rd Degree

Hand Burn 1st Degree

Hand Burn 2nd Degree

Hand Burn 3rd Degree

Neck Burn 1st Degree

Neck Burn 2nd Degree

Neck Burn 3rd Degree

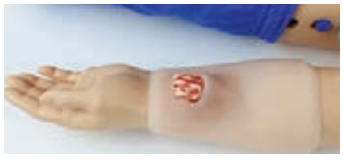
Pedi Trauma Wound Kit

WK135

- 9 wound types
- 9 total wounds

These wounds assist in training anyone providing treatment to victims of falls, traffic accidents, and other disasters. The detailed wounds create realism for the training of medics.

Upper Limb Road Rash



Radial Compound Fracture

Tibia Compound Fracture

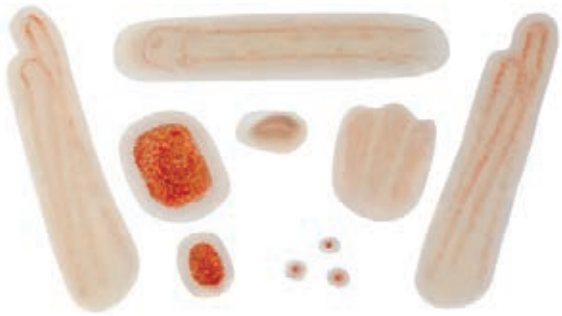
Femur Compound Fracture

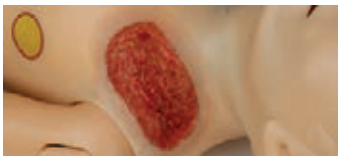
Pediatric Physical Abuse Wound Kit

WK140

- 7 wound types
- 10 total wounds

These wounds train practitioners to identify and evaluate suspected child abuse and neglect victims. Wounds can be placed in multiple locations on the body and help assess non-accidental trauma.





Infected Wound - Large

Infected Wound - Small

Belt Pattern Bruise

Open Hand Slap

Cigarette Burns

Eye Hematoma

Close Cord Pattern

Pediatrics wound kit features

- Sized to fit GAUMARD® five-year-old Pediatric Simulators
- Specially formulated silicone provides realism not seen in vinyl casualty kits
- Tough and Resilient
- Specify light, medium, or dark skin tone kit at no extra charge
- Four kits available
- Includes carrying case
- Perfect for S3005, Code Blue III 5 Yr. Old S300.105

Wound Bonding Kit

WK115

Adheres adult, pediatric, and newborn wounds

The Skin Tite™ silicone adhesive/appliance builder is used to attach the overlay wounds to parts of the existing simulator. This bonding agent is a skin-safe silicone that adheres to the skin and perfectly conforms to all contours. Wounds and appliances will not come off until they are peeled off.

WOUND KITS

Newborns

- Designed for GAUMARD® newborn patient simulators
- Specially formulated silicone offers lifelike look and feel
- Tough, resilient, and reusable
- Ready for use and easy to apply
- No makeup required
- Light, medium, or dark skin tone kits
- Available at no extra charge
- Carrying Case included

Newborn Incident Kit

WK150

- 6 wound types
- 7 total wounds

These wounds simulate the most common injury types for newborns, including bites, stings, scratches, and bumps, allowing the realistic practice of proper care management and continuing observation.


Scalp Hematoma


Laceration


Laceration Scar


Human Bite


Scratches


Mosquito Bite

Newborn Burn Kit

WK155

- 6 wound types
- 8 total wounds

These wounds simulate 1st, 2nd, and 3rd degree burns to the face, abdomen, arms, legs, and back. Students can assess the burns to prepare treatment plans while instructors evaluate burn management and continuing care.


1st-degree burn torso


2nd-degree burn torso


3rd-degree burn torso


1st-degree burn arm


2nd-degree burn arm


3rd-degree burn arm

Newborn Skin/Rash Kit

WK160

- 5 wound types
- 7 total wounds

This kit simulates common skin conditions, including bumps, rashes, patches, and scales. Instructors can evaluate the student's procedural discovery and care of harmless and/or alarming conditions.


Chicken Pox (Front)


Chicken Pox (Back)


Salmon Patch


Diaper Rash (Front)


Diaper Rash (Back)


Seborrheic Dermatitis / Cradle Cap

Newborn Trauma/Abuse Kit

WK165

- 4 wound types
- 7 total wounds

These wounds help students practice how to identify and evaluate suspected child abuse and neglect victims. Wounds can be placed in multiple locations on the body and help assess accidental and non-accidental trauma.


Cephalhematoma


Cigarette Burn

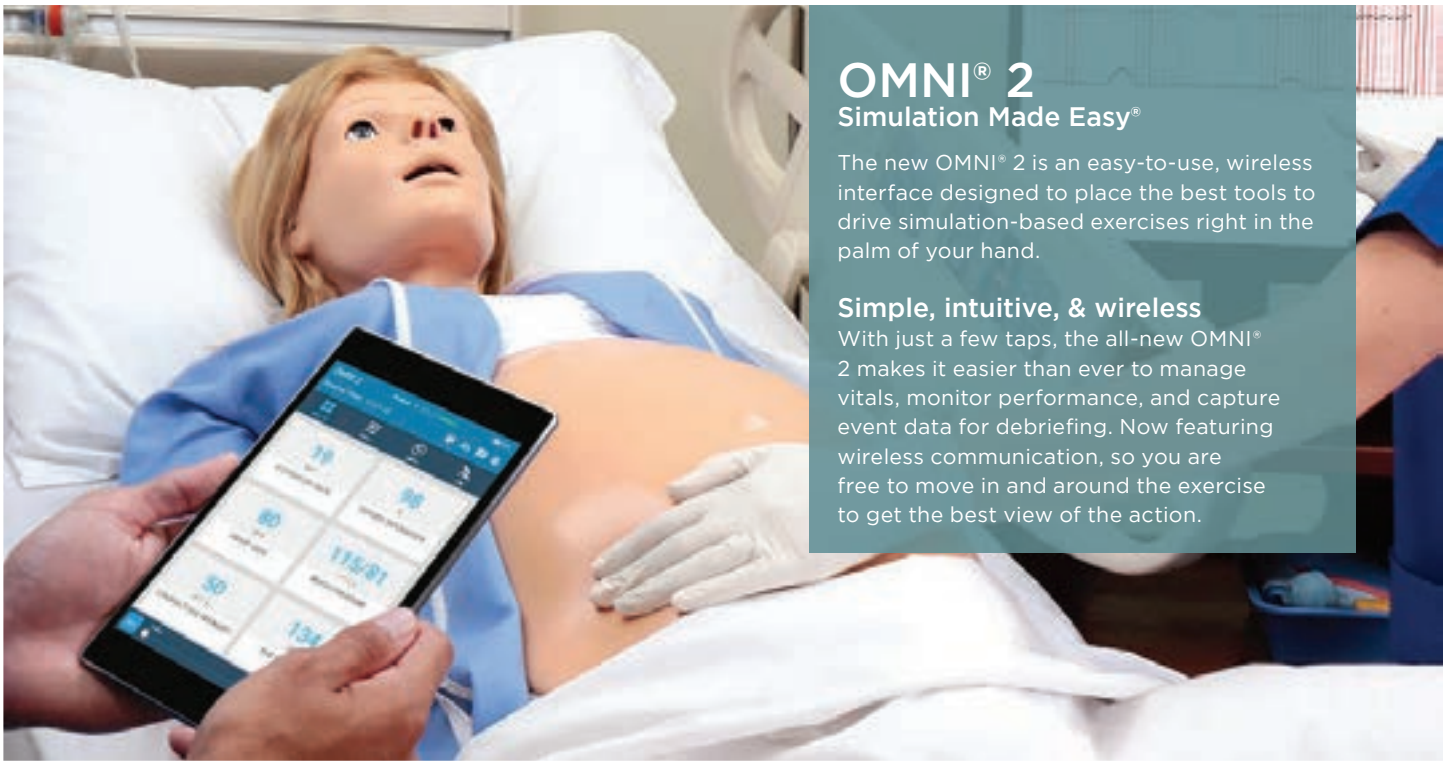

Fingerprint Bruise


Depressed Skull Fracture

OMNI® 2

SIMULATION MADE EASY®

- Wireless mobility
- Lightweight touchscreen interface
- On-the-fly physiological controls
- Real-time eCPR™ feedback and reporting
- Virtual patient monitor support
- Compatible with 40+ GAUMARD® patient simulators and skills trainers



OMNI® 2
Simulation Made Easy®

The new OMNI® 2 is an easy-to-use, wireless interface designed to place the best tools to drive simulation-based exercises right in the palm of your hand.

Simple, intuitive, & wireless

With just a few taps, the all-new OMNI® 2 makes it easier than ever to manage vitals, monitor performance, and capture event data for debriefing. Now featuring wireless communication, so you are free to move in and around the exercise to get the best view of the action.

Wireless control

- Touch controls facilitate on-the-fly changes or trend over time
- Over 35 programmable vitals: HR, ECG, RR, BP, SpO_2, $EtCO_2$, and more

Real-time feedback

- Monitor CPR quality metrics in real-time
- Interactive checklists let you easily track provider actions during the exercise

Smart debriefing

- Event log records actions, changes in vital signs, and notes support debriefing
- Save and share session log for archiving and debriefing

Backward compatibility

Upgrade your OMNI® 1 patient simulator or skills trainer to the new OMNI® 2 system and benefit from a host of new features, including wireless connectivity, touchscreen interface, and virtual patient monitor support.

Virtual patient monitor support

The new GAUMARD® virtual patient monitor for OMNI® 2 looks and functions like a real device. It offers continuous, real-time patient data to help develop critical thinking and decision-making skills.

Ready for training. Just tap and go.

OMNI® 2 is compatible with over 40 GAUMARD® patient simulators and skills trainers. Starting a session is fast and easy. Once paired, OMNI® 2 automatically detects your simulator's features to show you just the tools you need. Say hello to versatility.

Nursing skills

On-The-Fly Controls
Update any of 35+ vitals with just a few taps

BP Skills Trainer
Monitor readings and correct technique in real-time

Neonatal resuscitation

Resp. Distress Management
Monitor ventilation quality and its effects on cyanosis

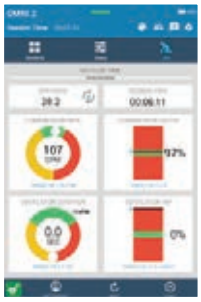
Algorithm Checklists
Easily track provider actions and exercise objectives

Labor & delivery

Automatic Delivery Controls
Manage fetal descent, dystocia, TOCO trace speed

Fetal Monitor Compatibility
Simulate trace patterns of maternal and fetal distress

CPR skills training



Real-Time CPR Feedback
Spot and correct errors in technique and measure quality

Performance Reports
Identify and improve weak areas; save, email, and print

General
- Wireless connectivity up to 30 feet
- Lightweight tablet form factor
- High-definition touchscreen display
- Virtual patient monitor wireless link
- Virtual fetal monitor wireless link
- Compatible with OMNI® 1 devices*
- Protective case included
- OMNI® simple-connect wireless setup
- Up to 4hr battery life
- Built-in walkthrough tutorial

Physiological controls*
- Control 35+ vital sign parameters including HR, ECG, RR, BP, O2SAT, EtCO2, and more*
- Update vital sign values on-the-fly
- Trend vital sign value increases or decreases over time
- Update group of vital sign values with one touch
- Comprehensive ECG library with 25+ preprogrammed rhythms
- BP Skills trainer mode
  - » Virtual pressure gauge view
  - » Programmable auscultatory gap
- Pulse strength dependent on blood pressure

Labor and delivery
- One-touch automatic delivery controls: play, pause, resume, and reset
- Customizable fetal descent speed
- Shoulder dystocia: automatic retraction of the fetal head
- Illustrate turtle signs on-the-fly
- On-screen view of the fetus descending and retracting during shoulder dystocia
- Dystocia causes fetal distress visible on virtual fetal monitor
- Programmable FHR baseline, variability, accel/decels, contraction frequency, duration, intensity, and resting tone*
- Other: Coupling, variability, spontaneous charges

Neonatal resuscitation trainer
- Real-time ventilation feedback
- Respiratory distress modeling
- Ventilation effectiveness override controls
- Programmable peripheral and central cyanosis

CPR trainer
- eCPR™ Real-time CPR quality and effectiveness monitoring
  - » Compression depth and rate
  - » Excessive ventilation
  - » No-flow time
  - » CPR cycles
- Audible CPR rate metronome
- Virtual defibrillation and pacing controls
- Participant CPR performance reports include metrics for individual CPR skills
- CPR report manager: save, share, and print CPR reports
- Preprogrammed CPR algorithms included
- Compliant with 2015 Resuscitation Guidelines

Event log
- Time-stamped provider actions, vital signs, CPR, and instructor comments
- Event tracking for individual and team actions
- Provider action profiles
- Customizable event flags
- Filter session log by preset events
- Save, email, and print session event logs

*Available OMNI® 2 features are dependent on simulator's hardware configuration.

OMNI® 2

OMNI2
Stand-alone OMNI® 2 system for "OMNI® 2 Ready" patient simulators and skills trainers.

Package contents
- Touchscreen tablet
- OMNI® 2 Software license
- USB cable
- Protective case
- Quick start guide

OMNI® 2 Upgrade

OMNI2.U
The OMNI® 2 Upgrade Package includes everything you need to upgrade your OMNI® 1 simulators to the new wireless OMNI® 2.

Package contents
- Touchscreen tablet
- OMNI® 2 Software license
- OMNI® Wireless Link adapter
- Protective case
- Quick start guide

Accessories

OMNI® Link Wireless Adapter

OMNI2.LNK
OMNI® 2 Wireless adapter for OMNI® 1 simulators.

Bedside Virtual Patient Monitor

MODEL#.250.001.R2
All-in-one touchscreen PC preloaded with GAUMARD Vitals patient software.

Mobile Virtual Patient Monitor

MODEL#.250.002
Touchscreen tablet PC preloaded with GAUMARD Vitals patient software.

NEWROSIM™

Traumatic Brain Injury & Stroke Care Training Solution

- 10 Preprogrammed TBI and Stroke Scenarios
- NewroSim™ Scenario Guidebook
- Powerful computer-based hemodynamic model
- Interactive transcranial Doppler waveform
- Model-generated intracranial pressure readings

The NEWROSIM™ scenario library includes high and low-frequency traumatic brain injury and stroke clinical cases. Every scenario is designed to facilitate the training of students and professionals with the psychomotor, cognitive, and teamwork skills needed to manage and treat patients throughout the stages of care effectively.

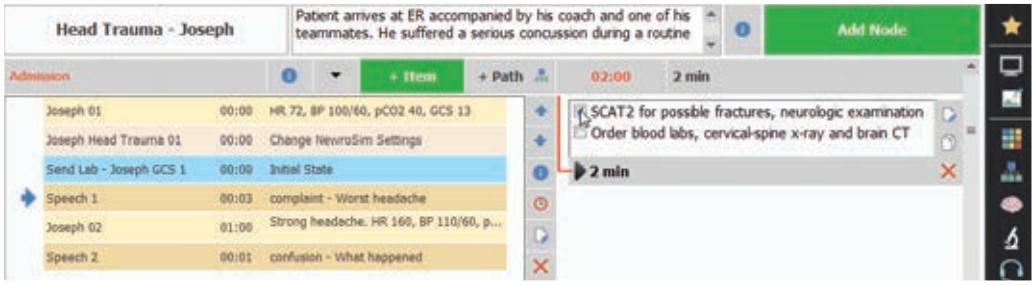
Comprehensive
Includes scenarios for first responders, ED teams, neuro-unit care intensivists, as well as other generalists and specialists.

Objective-based
Benefit from measurable goals so you can track progress and improvement over time.

Ready-to-use
NEWROSIM™ includes all the scenario medical references, mock labs, and assets needed for each case, thus eliminating costly development time.

Expandable
Scenarios are editable, so you can expand the scope of training by creating new exercises to meet your institution's needs.

10 preprogrammed scenarios
1. Diabetes and Stroke
2. Artery Stenosis
3. Thrombolytic Therapy Reaction
4. Stroke
5. Cerebral Artery Thrombosis
6. Head Trauma
7. Hypotension
8. Hypercapnia
9. Cerebral Autoregulation
10. Cerebral Autoregulation II



NEWROSIM™ scenarios feature timed objectives, vital sign changes, speech responses, and assets such as labs and CT scans. To run a scenario, simply checkmark the key events to progress the case.

Scenario training guidebook
NEWROSIM™ includes a companion training guidebook with supplemental materials for every scenario. The guidebook makes it easy to plan and run scenarios and debrief learning objectives.

- Case overview
- Patient history
- Neurologic exam results
- Simulation parameters
- Expected actions
- Learning objectives
- Supporting literature references
- Mock CT scans and lab results


Head trauma scenario at point of injury


Pupil reactivity during neuro assessment


Sports concussion assessment

The NEWROSIM™ model integrated into the UNI® software simulates the hemodynamics of the intracranial cerebral vessels and its effects, as seen on the ICP and TCD readings.

UNI® NewroSim™ Control Panel

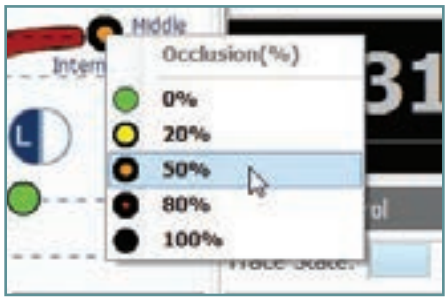
Integrated
NEWROSIM™ is built right into UNI®, allowing you (the operator) to manage the scenario from one interface.

Easy-to-use
You do not have to be a specialist to operate NEWROSIM™. The scenarios and NEWROSIM™ model automate physiological changes while the corresponding vitals are shown on the TCD monitor in real-time. Now you can simulate conditions and interactions with a high degree of fidelity with minimal manual input.

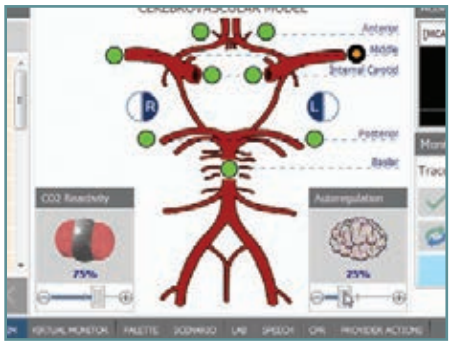
Powerful
The NEWROSIM™ model simulates the hemodynamics of the intracranial cerebral vessels, even calculating interhemispheric compensation. What's more, it can automatically update the patient's presentation, including changes in eye reactivity depending on the condition.

Programmable
Using the manual controls, you can easily override the cardiovascular parameters and simulate on the fly.

Multimodal
The NEWROSIM™ model can be used as a standalone tool to teach learners the relationship between the hemodynamics of the brain and how they'd appear on a TCD waveform.



- Manually create stenosis and/or occlusions on the cerebrovascular blood vessels
- Occlusion points can be anterior/ posterior and on the left or right side



- Change CO_2 reactivity of the brain's chemoreceptors
- Adjust the autoregulation of the brain

- Monitor vessel status and perfusion directly from the control screen

NEWROSIM™ adds simulated patient vital signs designed to provide participants with the critical physiological information needed to aid decision making.

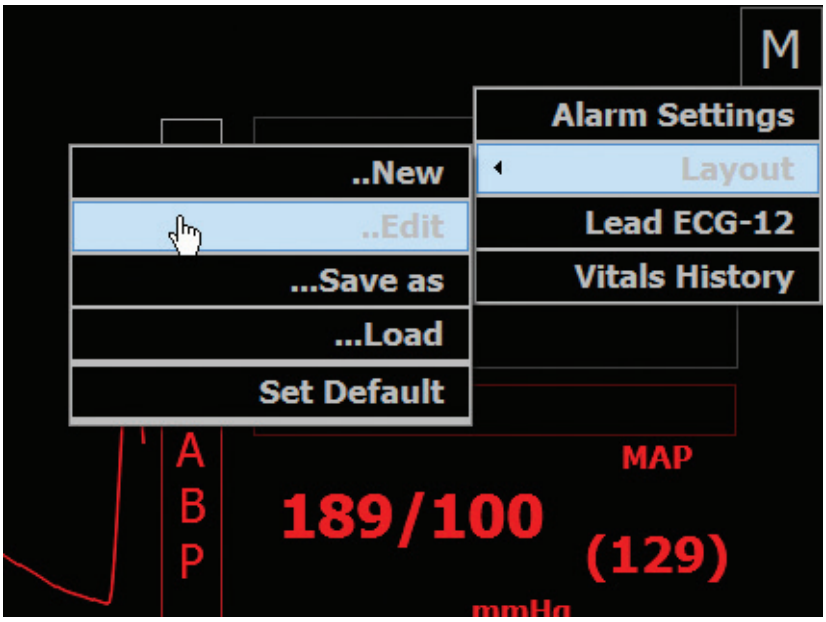
- Transcranial Doppler (TCD) waveform and numeric values
- Intracranial Pressure (ICP) readings
- Respiratory and cardiac monitoring

Integrate the NEWROSIM™ Monitor to train participants in the following skills:

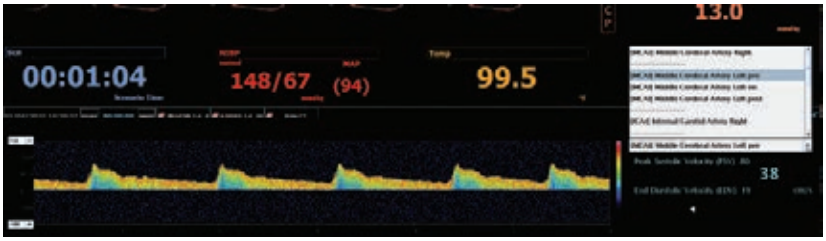
- Monitoring brain vessel status and perfusion
- Monitoring the effects of rescue intra-arterial thrombolysis
- Monitoring vessel recanalization during treatment
- Identifying and monitoring aneurysms and malformation at the brain artery level
- Assess the effectiveness of the sonothrombolysis

Customize the patient monitor to mimic your native monitor screen.

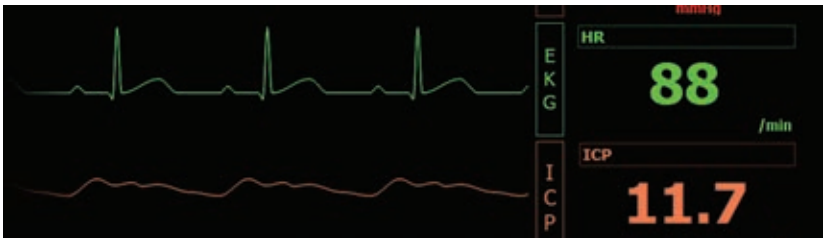
- Display up to 12 numeric values, including HR, ABP, CVP, PAWP, NIBP, CCO, SpO_2, SvO_2, RR, $EtCO_2$, temperature, and time
- Select up to 12 dynamic waveforms, including PAWP, pulse, CCO, SvO_2, respiration, capnography.



NEWROSIM™ Patient Vitals shown on optional GAUMARD® Vitals Patient Monitor*



Transcranial Doppler Waveform and Vessel Selection Screen
The interactive transcranial Doppler allows participants to select between the cerebral arteries to monitor blood flow velocity.



NEWROSIM™ Intracranial Pressure Reading & Waveform
The NewroSim™ mathematical model generates the intracranial pressure (ICP) readings. The model automatically calculates changes in cardiovascular variables and reactions to medications administered to simulate real-time readings with the highest degree of fidelity.

*GAUMARD® Virtual Patient Monitor sold separately

NEWROSIM™

Model#.601
NEWROSIM™ license compatible with HAL® models S3040.100, S3101, S3000, and S1000.

Package contents

- NEWROSIM™ Hemodynamic Model
- 10 Preprogrammed Scenarios
- NEWROSIM™ Training Guide
- UNI® NEWROSIM™ License

Optional GAUMARD Vitals™ patient monitor.

- Customizable layout can mimic the look of standard patient monitors
- Customize each trace independently. Users can set alarms and time scales.
- Display up to 12 numeric values, including HR, ABP, CVP, PAWP, NIBP, CCO, SpO_2, SvO_2, RR, $EtCO_2$, temperature, and time.
- Select up to 12 dynamic waveforms, including ECG Lead I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6, AVP, CVP, PAWP, pulse, CCO, SvO_2, respiration, capnography.
- Share images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses.
- Compatible with NewroSim™ for HAL® models S3040.100, S3101, S3000, and S1000.

Bedside Virtual Patient Monitor

MODEL#.001.R2
All-in-one touchscreen PC preloaded with GAUMARD Vitals™ patient software.

About Gaumard®
Gaumard® has been committed to improving patient care and safety through healthcare education since its founding in 1946. Gaumard® designs, develops, and manufactures products at its world headquarters in Miami, FL. Gaumard® products are sold through direct sales in North America and through a network of 200 distributors in 70 countries. Gaumard® is family owned and operated.

Warranty
A one-year limited warranty covers Gaumard® manufactured products. Extended warranty plans are also available. Terms and conditions apply. Please visit gaumard.com for details.

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Pictured is **HAL® S3201**
receiving mechanical ventilation support.

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